

IMPORT/EXPORT/RE-EXPORT OF LIVE ANIMALS (CITES/ESA)

FISH & WELLIAMS
SERVICE

■New □Reissue/Renew □Amendment

Complete Sections A or B, and C, D, and E of this application. U.S. address may be required in Section C.**

| Complete if applying as an individual Last name | | viduai | 1.b. First name | | | 1.c. Middle name or initial | | | nitial | 1.d. Suffix |
|--|--|----------------------------|--|-------------------------------------|----------------------------|--|--------------|-------------------------|---------------------------------|--------------------------|
| 2 Date of birth (mm/dd/yyyy) | 5.a. Telephone numb | | 5.b. Alterna number | ate telephone | 6. E-mail address | | | | | |
| B. Complete i | if applying on behalf | of a busines | es corpor | ration public a | gency Tribe, a | r instituti | on | | | |
| 1.a. Name of bus Zoologica | siness, agency, Tribe, al Society of S | or institution San Die | ego | | 1.b. Doing busi San Die | iness as (d | dba) | life All | iance | |
| 2. Tax identificati 95-16482 | 219 | Not for | Profit | iness, agency, 1 Zoologic | al Institut | tion | | www. | sdzwa | (if applicable) a.org |
| Baribault | | 4.b. P.O. first | t name | | 4.c. P.O. middl A | | | 4.b. P.O. 1 Presiden | | Executive Officer |
| 5. Primary contact Brett Baldy | win | | ۰ | , | 6. Primary e-m BBaldwin | | | | | |
| 7.a. Business tel (619) 231- | lephone number 1515 x3282 | | 1 | nate phone no. 12-5142 | | 8.a. Primary co 619-312- | | | contact telephone no. 2-5142 | |
| C All applica | nts complete addres | e informatio | n | | | | - | | | |
| | dress (Street address; | | | or Room #; no P | O. Boxes) | | | | | |
| 1.b. City San Dieg | | 1.c. State CA | | 1.d. Zip code/P 92101 | | San Diego | | e | 1.f. Cour | |
| PO Box 12 | ress (include if difference) 20551 C/O | nt than physic Brett Ba | | s; include name | | | | | | |
| ^{2.b. City} San Dieg | 0 | 2.c. State CA | | 2.d. Zip code/Postal code 92112 | | 2.e. County/Province San Diego | | e | 2.f. Cour | |
| | | | | | | | | | | |
| THE RESERVE AND ADDRESS OF THE PARTY OF THE | ants MUST complete | | | | | | | | | |
| 13.11 | de a check or money 1(d)(4)]. Federal, Triba essing fee – attach do | al, State, and | d local gov | vernment agenci | ies, and those a | acting on b | behalf of s | uch agenci | ies, are e | |
| the safe was to be a superior to be a su | u are requesting a reis | | Charles of the Control of the Contro | | | The Table of the State of the S | | | | |
| Regu applio | fication: I hereby certifulations and the other cation for a permit is caubject me to the crim | applicable paccomplete and | arts in sub | bchapter B of C to the best of m | hapter I of Title | 50, and | I certify th | at the infor | rmation s | ubmitted in this |
| R | AUT BAPRE | BAUC | 7 | 55 | 5 | | | | 50 | LY 17, 2024 |
| The individual/r | principal officer of the b | ousiness mus | st print and | sign the application | ation. (No photo | copied or | stamped s | signatures) | Da | ate (mm/dd/yyyy) |

Mail your application(s) to Division of Management Authority, Branch of Permits, MS:IA 5275 Leesburg Pike, Falls Church, VA 22041-3803.

^{**} Further instructions for the above application may be found on our ePermits website. See the last page for information on the Privacy Act, Paperwork Reduction Act, Estimated Burden, and Freedom of Information Act aspects of this application form.

E. IMPORT/EXPORT/RE-EXPORT OF LIVE ANIMALS (CITES/ESA)

General Information

This application covers activities involving LIVE CITES and ESA listed animals.

Review this application carefully and **provide complete answers to all of the questions**. If you are applying for multiple species, be sure to indicate which species you are addressing in each response. **If more space is needed, attach a separate sheet with your responses, numbered according to the questions.**

Please allow at least 90 days for the application to be processed.

How do I determine whether the species is protected under CITES and/or the ESA?

| CITES | ESA |
|--|---|
| To determine whether an animal species is protected under CITES, when the species was listed, or whether exemptions apply to your requested activity, see the <u>list of CITES species</u> | To determine whether an animal species is protected under the ESA, please review the list of ESA-listed species in the Code of Federal Regulations. |
| | Please be aware that any permit request involving an ESA endangered species must be published in the Federal Register for a required 30-day public comment period. |

Questions

If you have any questions regarding an action you are requesting authorization for please contact the Division of Management Authority at managementauthority@fws.gov.

Please note: for renewal or amendment of a multi-use permit being requested **within the 5-year** Federal Register public notice period, use application <u>3-200-52</u>

This form should NOT be used for:

- Pre-Convention, Pre-Act, or antique (antique exemption criteria) specimens (use application 3-200-23)
- Captive Bred Wildlife Registration (use application form 3-200-41)
- ESA Plants (use application form <u>3-200-36</u>)
- Import of LIVE African Elephants from Botswana, Namibia, South Africa, and Zimbabwe and Southern White Rhinoceros from eSwatini and South Africa (use application form 3-200-37f)

Electronic Information Submission

<u>Electronic submission of inventories, photographs, and receipts:</u> For hard copy applications, if you wish to provide information electronically, please include a flash drive containing this information with your physical application.

- 1. Name and address where you wish the permit to be mailed, **if different from physical address**. If you would like expedited shipping, please enclose a self-addressed, pre-paid, computer-generated, courier service airway bill. If unspecified, all documents will be mailed via regular mail through the U.S. Postal Service.
- 2. Point of contact if we have questions about the application (name, phone number, and email).

OMB Control No. 1018-0093

Expires 08/31/2023

OMB Control No. 1018-0093 Expires 08/31/2023

| 3. | Have you or any of the owners of the business (if applying as a business, corporation, or institution), been assessed a civil penalty or convicted of any criminal provision of any statute or regulation relating to the activity for which the application is filed; been convicted, or entered a plea of guilty or nolo contendere, for a felony violation of the Lacey Act, the Migratory Bird Treaty Act, or the Bald and Golden Eagle Protection Act; forfeited collateral; OR are currently under charges for any violation of the laws mentioned above? |
|----|---|
| | No Yes |
| | If you answered "Yes" to Question 3, provide: a) the individual's name; b) date of charge; c) charge(s); d) location of incident; e) court, and f) action taken for each violation. Please be aware that a "Yes" response does not automatically disqualify you from getting a permit. |
| 4. | Type of Activity: ☐ Import |
| | □ Export |
| | ☐ Re-export (e.g. exporting a specimen that was previously imported into the United States) |
| 5. | The current location of the animal(s) (if different from the physical address): |
| | Name: |
| | Address: |
| | City: |
| | State/Province: Postal Code: |
| | Country: |
| 6. | Recipient/Sender: |
| | If export/re-export, provide name and physical address of the recipient in the foreign country. |
| | • If import , provide name and physical address of the exporter/re-exporter in the foreign country. |
| | Name: |
| | Address: |
| | City: |
| | State/Province: |
| | Postal Code: Country: |
| | 7. For each animal involved in the import/export/re-export, provide (you may use the table below): |
| | a. Scientific name (genus, species, and <i>if applicable</i> , subspecies) |
| | b. Common name |
| | c. Approximate or actual birth/hatch date (mm/dd/yyyy) |
| | d. Wild or captive-born |

- e. Quantity
- Sex (males.females.unknown sex, 10.2.3)
- Permanent markings and/or identification information (microchip #, leg band #, tattoos, studbook #).

| a. Scientific name (genus, species, and if applicable, subspecies) | b. Common Name | c. Approximate or Actual Birth/Hatch Date (mm/dd/yyyy) | d. Wild (W) or Captive- born (C) | e. Quantity | f. Sex (male. female. unknown sex, ex: 1.0.0) | g. Permanent markings/ID information (e.g., microchip #, leg band #, tattoo, studbook #, etc.) |
|---|-------------------|--|---|----------------|--|--|
| EXAMPLE: Pan troglodytes | Chimpanzee | 08/01/2006 | С | 1 | 1.0.0 OR male | Studbook# 152; Microchip# 00056321-00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Source of Specimen

- For each captive-born/captive-hatched animal(s), provide a signed and dated statement from the breeder or other appropriate documentation (e.g. Species 360 report) that includes the following: Refer to letter from Spanish CITES **Management Authority**
 - Scientific name (genus, species, and if applicable, subspecies), a.
 - b. Common name,
 - Name and address of the facility where the animal was bred and born, C.
 - Birth/hatch date (mm/dd/yyyy), d.
 - e. Identification information (studbook, microchip, leg band, etc.),
 - f. Name and address of the facility where the parental stock is located,
 - A statement from the breeder that the animal was bred and born at the breeder's facility (including the g. facility's name and address), and
 - h. If you are not the breeder, provide documentation demonstrating the history of transactions (e.g., chain of custody or ownership of the animal).
- For each animal(s) taken from the wild, provide: Refer to letter from Spanish CITES Management Authority
 - Scientific name (genus, species, and if applicable, subspecies), a.
 - b. Common name,
 - Specific location (e.g. county, state, province, country) where the animal was removed from the wild; C.
 - d. The name of the individual(s) who collected the animal(s) and their authorization to do so, including copies of foreign and domestic (Federal, State, and/or Tribal) government collecting permits, licenses, contracts and/or agreements;

FWS Form 3-200-37a (Rev. 11/2019) U.S. Department of the Interior OMB Control No. 1018-0093 Expires 08/31/2023

- e. Method of collection, including capture protocol and any injury and mortality experienced during collection, transport, and holding;
- f. Information related to any remuneration, either financial or in-kind, provided for acquiring the animal(s);
- g. Efforts to use captive specimens (e.g., captive-born, captive-held) in lieu of taking animals from the wild.
- 10. For **each animal being re-exported** (e.g., exporting animal(s) previously imported into the United States), provide:
 - N/A application for import to the U.S. a. A copy of the CITES export or re-export document issued by the appropriate CITES office in the country from which the wildlife was imported (this document is **stamped cancelled** by USFWS Office of Law Enforcement upon import inspection); and
 - b. A copy of your Declaration for Importation or Exportation of Fish or Wildlife (Form 3-177) **cleared** by USFWS Office of Law Enforcement.
 - c. A copy of the ESA permit that authorized the original import.
 - d. If you did not make the original import, provide documentation outlining chain-of-ownership since import, including:
 - 1. A copy of the importer's clearance documents (a, b & c above) and,
 - 2. Subsequent invoices (or other documentation) showing the history of transactions leading to your ownership of the animals after import (chain of custody).

Description and Justification For Requested Activity

Describe the purpose of your proposed activity.

- 11. If scientific research, provide: N/A application for conservation education, zoo display, and captive propagation.
 - a. A copy of the research proposal (outlining the purpose, objectives, and methods),
 - b. Detailed information on capture methods including:
 - i. who will be capturing the animals
 - ii. equipment used
 - iii. measures taken to prevent injury and mortality
 - c. An explanation of whether other similar work has already been conducted or is currently being conducted,
 - d. A copy of the study's Institutional Animal Care and Use Committee (IACUC) form (if applicable),
 - e. Peer-reviewed scientific papers published from this research (if applicable).
- 12. If conservation education and/or zoological display, provide: *Please see additional and attached documentation for more information describing this section.
 - a. Objectives of proposed activity in support of an education program,
 - Copies of educational materials (e.g., handouts, text of signage or public presentations), incorporating the following information:
 - i. Status in the wild
 - ii. Current threats
 - iii. Conservation efforts
- 13. If captive propagation for the conservation and survival of the species, provide: *Please see additional and attached documentation for more information describing this section.
 - a. A description of how the species will be propagated (e.g. artificial insemination, breeding pairs/groups),
 - Documentation showing your participation in an established breeding program (example: current breeding plan outlining your role in the program AND letter from the breeding coordinator confirming your participation in this breeding program.)
 - c. How your breeding stock is managed to maintain genetic vitality, including:
 - i. avoidance of inbreeding,

FWS Form 3-200-37a (Rev. 11/2019) U.S. Department of the Interior

OMB Control No. 1018-0093 Expires 08/31/2023

- ii. considerations of average kinship,
- iii. differences in paternal and maternal average blood relationships/relatedness,
- iv. carrying capacity of your facility,
- v. disposition of progeny.
- d. Plans and agreements for future re-introduction (if applicable).
- 14. Please provide a detailed description on how the proposed activities will enhance or benefit the wild population within its native range (e.g., direct or indirect conservation efforts) and provide documentation (e.g., signed memorandums of understanding) demonstrating your commitment to supporting the program and how the program contributes directly to the species identified in your application.
 Refer to included supplemental materials on Fijiian Iguana ranger program and (2016) IUCN Re-introduction Perspectives which outlines captive breeding and re-introduction of the Monuriki Island Crested Iguana in Fiji (Brachylophus vitiensis).
 Technical Expertise & Facilities
 - For **export/re-export**, provide information for the **receiving institution**.
 - For **import**, provide information for **your institution**.
 - For import to multiple facilities, provide information for all receiving institutions.
- 15. CV or resume outlining the technical experience of each caretaker working with, maintaining, and/or propagating **each** species, as it relates to the proposed activities, including experience with similar species. See included materials.
- 16. Current inventory of the species at the facility (males females unknown sex, e.g., 10.2.3), 15.10.2 B. bulabula at the San Diego Zoo. Taxon report for all current animals located at the San Diego Zoo attached.
- 17. Number of years the species has been maintained at the facility, Over 50 years; see included materials.
- 18. Number of births per species per year over the last 5 years, See included materials.
- 19. Number of mortalities per species (or similar species) per year over the last 5 years and steps taken to avoid or decrease such mortalities, See included materials.
- 20. A detailed description, diagrams, and photos clearly depicting the existing facilities where the wildlife will be maintained including: dimensions, construction materials, and protection from the elements. Do not provide blueprints; See included materials.
- 21. Approximate carrying capacity for the species at the facility.

 Facility carrying capacity in excess of 50 individuals (depending on age and/or breeding plans. As of 9/Jul/2024 the San Diego Zoo provides care and housing for 15.10.2 individual Brachylophus iguanas.

 Transport/Shipment of Live Animals
- 22. Transport conditions for live animals must comply with the CITES Guidelines for Transport of Live Animals. All air transport must also comply with the International Air Transport Association (IATA) live animal regulations (contact airline for information). As such, provide: *Please see additional and attached documentation for more information describing this section.
 - a. The type, size, and construction of any shipping container and,
 - b. The arrangements for watering or otherwise caring for the wildlife during transport.

All international shipment(s) must be through a designated port. A <u>list of designated ports</u> (where an inspector is posted) is available. If you wish to use a port not listed, please contact the Office of Law Enforcement for a Designated Port Exemption Permit (form 3-200-2).

CITES Appendix I & Marine Mammal Species

For export of a CITES Appendix I-listed species, provide a copy of the CITES import permit, or evidence one
will be issued by the Management Authority of the country to which you plan to export the specimen(s). In
accordance with Article III of the CITES treaty, it is required that import permits are issued before the

FWS Form 3-200-37a (Rev. 11/2019) U.S. Department of the Interior OMB Control No. 1018-0093 Expires 08/31/2023

corresponding export permit.

- For **import** of **CITES Appendix-I listed species**, provide information to show the import is not primarily for commercial purposes as outlined in <u>Resolution Conf. 5.10 (Rev. CoP 15)</u>. *Please see additional and attached documentation for more information describing this section.
- For **import** of **live CITES Appendix-I marine mammals**, provide a copy of your FWS or NMFS Marine Mammal Protection Act (MMPA) permit or authorization.

NOTICES

PRIVACY ACT STATEMENT

Authority: The information requested is authorized by the following: the Bald and Golden Eagle Protection Act (16 U.S.C. 668), 50 CFR 22; the Endangered Species Act (16 U.S.C. 1531-1544), 50 CFR 17; the Migratory Bird Treaty Act (16 U.S.C. 703-712), 50 CFR 21; the Marine Mammal Protection Act (16 U.S.C. 1361, et seq.), 50 CFR 18; the Wild Bird Conservation Act (16 U.S.C. 4901-4916), 50 CFR 15; the Lacey Act: Injurious Wildlife (18 U.S.C. 42), 50 CFR 16; Convention on International Trade in Endangered Species of Wild Fauna and Flora (TIAS 8249), 50 CFR 23; General Provisions, 50 CFR 10; General Permit Procedures, 50 CFR 13; and Wildlife Provisions (Import/export/transport), 50 CFR 14.

Purpose: The collection of contact information is to verify the individual has an eligible permit to conduct activities which affect protected species. This helps FWS monitor and report on protected species and assess the impact of permitted activities on the conservation and management of species and their habitats.

Routine Uses: The collected information may be used to verify an applicant's eligibility for a permit to conduct activities with protected wildlife; to provide the public and the permittees with permit related information; to monitor activities under a permit; to analyze data and produce reports to monitor the use of protected wildlife; to assess the impact of permitted activities on the conservation and management of protected species and their habitats; and to evaluate the effectiveness of the permit programs. More information about routine uses can be found in the System of Records Notice, Permits System, FWS-21.

Disclosure: The information requested in this form is voluntary. However, submission of requested information is required to process applications for permits authorized under the listed authorities. Failure to provide the requested information may be sufficient cause for the U.S. Fish & Wildlife Service to deny the request.

PAPERWORK REDUCTION ACT STATEMENT

We are collecting this information subject to the Paperwork Reduction Act (44 U.S.C. 3501) in order provide the U.S. Fish and Wildlife Service the information necessary, under the applicable laws governing the requested activity, for which a permit is requested. Information requested in this form is purely voluntary. However, submission of requested information is required in order to process applications for permits authorized under the applicable laws. Failure to provide all requested information may be sufficient cause for the U.S. Fish and Wildlife Service to deny the request. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. OMB has approved this collection of information and assigned Control No. 1018-0093.

ESTIMATED BURDEN STATEMENT

We estimate public reporting for this collection of information to average 2 hours, including time for reviewing instructions, gathering and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of the form to the Service Information Clearance Officer, Fish and Wildlife Service, U.S. Department of the Interior, 5275 Leesburg Pike, MS: BPHC, Falls Church, VA 22041-3803, or via email at Info Coll@fws.gov.

Please do not send your completed form to this address.

Brett Baldwin

From: Luis Mariano González García lmgonzalez@miteco.es

Sent: Tuesday, July 10, 2024

To: managementauthority@fws.gov

Cc: Brett Baldwin; Luis Mariano González García

Subject: transfer of seized Fiji Iquanas (from Spain to the US)

Dear colleagues of the CITES Management Authority of the United States of America,

We are writing to you from the CITES Management Authority of Spain with regards to nine seized individuals (9) of Fiji Iguanas (*Brachylophus sp.*). These individuals are part of a big seizure developed by the Spanish Civil Guard back in 2017 (December) in the framework of the so call JUNGLA V police operation. From that time on, the specimens have been kept at a CITES Rescue Center here in Spain, a change in the Spanish scheme in CITES authorities have taken place and a judicial procedure regarding these iguanas has being initiated.

Only 9 of more than 30 remain alive (they suffered a fungi infection) and now (from 2022) that the new scheme of CITES authorities has been consolidated it is a priority for us to give these Appendix I and critically endangered species' specimens a final destination that maximizes their contribution to the conservation of their species. With that purpose we have got in touch with the San Diego Zoo, as they have got extensive experience with this species and a breeding, conservation and reintroduction program of Fiji Iguanas agreed with the authorities of Fiji. The San Diego Zoo is willing to receive these iguanas to include them in this scientific and conservation program. Brett Baldwin is the responsible of this program.

We have a court order with the instructions to return these iguanas to their natural habitat in the country of origin or to provide a final destination that maximizes their contribution to the conservation of the species. After so many years in captivity, it is unlikely that they can survive on their own in the wild, and the San Diego Zoo Fiji Iguana's conservation program is undoubtedly the best option for them, in order to contribute to the conservation of their species. We therefore have the legal obligation to do it.

We are working hand by hand with Brett Baldwin to arrange all the sanitary and trip details. As management authorities, our work should not delay the work and technical effort to carry out this transfer of animals, and we ask that, once we issuethe export permit, the issuance of the corresponding import permit be as quick as possible.

We wanted to inform you about this mission with these seized Fiji Iguanas, as ask for your cooperation as much as possible.

Thank you very much, and kind regards,

Luis Mariano González García
Jefe de Área - CITES Management Authority team
Subdirección General Biodiversidad Terrestre y Marina
Dirección General de Biodiversidad, Bosques y Desertificación
Ministerio para la Transición Ecológica y el Reto Demográfico
Plaza San Juan de la Cruz, 10, 28003 - Madrid (España)





JUSTIFICATION FOR REQUESTED ACTIVITY.

San Diego Zoo Wildlife Alliance Herpetology Department and Veterinary Care Staff have decades of experience working with Fijian iguanas (Brachylophus) as well as similar Iguanaidae species such as Caribbean rock iguanas. Both the Fijian Banded Iguana and the Caribbean Rock Iguanas are managed by San Diego Zoo Staff in the form of Species Survival Plan Programs and Studbooks for these animals. Besides having had Brachylophus in the Zoo's collection since the 1960s, we have routinely bred them since the 1980s.

Our San Diego Zoo Wildlife Alliance Research Department has helped preserve Brachylophus in their Frozen Zoo and also catalogued this species sperm in an online atlas. We partner with other researchers including the United States Geological Survey to run genetic research on Brachylophus and we are helping to identify characteristics to help determine species within the Fijian Archipelago among the Brachylophus species complex.

This combination of captive husbandry and veterinary care expertise, combined with our genetic understanding to help us best determine specific island haplotypes of the imported iguanas, we are set to provide the best care possible for these iguanas and best determine what specific islands they originated from which will ultimately be the primary deciding factor on where to focus strategic conservation activities such as wildlife enforcement and future planning for repatriation of confiscated iguanas back to Fiji.

Additionally, San Diego Zoo Wildlife Alliance staff (Kim Gray who also serves as the Fijian Iguana SSP and Studbook Manager) have been assisting in collaborative efforts within Fiji including but not limited to Ranger Training to help combat wildlife trafficking and provide education and outreach about Fiji iguanas, expertise and advice on captive care of Fiji iguanas within Fiji, and we assisted with the release of captive reared head-started iguanas back into the wild in Fiji since 2013.

CVs are provided as part of this application as well to document the technical experience of the staff who are either assigned as primary keepers or oversee the entire vet program or Herpetology Department staff.

JUSTIFICATION FOR REQUESTED ACTIVITY

How San Diego Zoo Global is Helping to Save the Fiji Iguana

Conservation Status: IUCN Red List – Critically Endangered (Fiji crested iguana); IUCN Red List – Endangered (Fiji banded iguana, Lau banded iguana)

Threats to Survival: Habitat loss; introduced invasive species

Solving a Genetic Puzzle

San Diego Zoo was one of the first zoos to receive Fiji iguanas. The Zoo's Herpetology Department maintains the largest captive colony of these reptiles, and currently manages the Fiji Banded Iguana Species Survival Program (SSP). Several years ago, due to the atypical appearance of two of our iguanas, we initiated a genetics study to verify the species of our founder population, then identified as Lau banded iguanas. We also studied iguanas housed at Australia's Taronga Zoo and samples collected from wild individuals by our partners for comparative purposes. Testing by our Genetics team was facilitated with funding from the International Iguana Foundation and revealed significant result. Through DNA sequencing, we learned that our captive founders and first generation offspring grouped with Fiji crested or Fiji banded iguanas instead of Lau banded iguanas, and microsatellite markers showed that our captive population included unexpected hybrids. These findings are critical to our long-term goal of maintaining a sustainable zoo population.

A New Species?

Over the past five years, our partners in the field have performed extensive field surveys and collected samples from nearly 200 iguanas on 30 islands. Results from our DNA testing showed that wild Fiji iguana populations have much greater genetic diversity than previously thought. Nearly every island population sampled has a unique mitochondrial haplotype, including some never previously described. The data even suggest there is at least one new species, pending morphological assessments by our colleagues. These genetic studies have raised new questions about the appropriate conservation units for the iguanas, and helped determine priorities for protecting wild populations.

Future Directions

Fiji iguanas are found on just 10-percent of Fiji's 300 islands, with the majority of iguana populations still threatened and in decline. Through the SSP, we are hoping to support future conservation efforts for Fijian iguanas by strengthening existing collaborations and building new ones. We also hope to support educational outreach, enable habitat restoration, and provide husbandry guidance for other assurance colonies of iguanas within Fiji. Continuing efforts in the field and the lab are critical to future conservation efforts for all Fiji iguanas.

Our Partners

Association of Zoos and Aquariums partner institutions
Department of Natural Heritage Fiji
National Trust of Fiji
Taronga Western Plains Zoo

U.S. Geological Survey Birdlife International IUCN Iguana Specialist Group NatureFiji-MareqetiViti U.S. Fish and Wildlife Service

G. JUSTIFICATION FOR REQUESTED ACTIVITY. 7. a. & b., 8

Fiji and Caribbean Rock Iguana Conservation Initiatives at San Diego Zoo Global

The San Diego Zoo and San Diego Zoo Safari Park are home to many iguana species. As we care for them, we learn important things about them, such as ideal conditions for reproducing or special dietary needs. The information we learn can help us to strengthen the chances of iguana survival in the wild. We've had many breeding success stories over the years: the San Diego Zoo was the first zoo in the U.S. to hatch the critically endangered Anegada Island iguana.

The Zoo has a long history of working with Fiji Island banded iguanas, starting with a gift of six of these lizards from the prince of Tonga in 1965, and we welcomed our first hatchling in 1981. Today, the Zoo has the largest and most successful colony of this endangered species outside of Fiji. Most lizards require ultraviolet radiation to absorb calcium from their food, and banded iguanas seem to need more exposure than most. Our banded iguanas can bask all year, even in colder weather, thanks to UV-permeable skylights throughout our Reptile House. Most of them live in an off-exhibit area there, but a pair is always on exhibit in our Reptile House for guests to admire.

You can see two more iguana species at the San Diego Zoo; Exuma Island iguanas and a Cuban rock iguana live in large, outdoor enclosures between our Galápagos tortoise yard and the Reptile Walk. Each enclosure has a large "boulder" for the iguanas to sunbathe; the boulders are hollow and provide heat lamps, nest boxes, water, and privacy inside for the iguanas, if needed. When the outside temperature drops below 55 degrees Fahrenheit (12.7 degrees Celsius), a keeper placing a trail of tasty grapes coaxes the iguanas inside this rocky sanctuary!

We are contributing to the recovery of Grand Cayman blue, Jamaican, and Anegada iguanas, known collectively as rock iguanas, by maintaining assurance colonies at our Kenneth and Anne Griffin Reptile Conservation Center, located on Safari Park grounds. The Center is the most advanced rock iguana breeding center in the world. As of August 2012, 20 Grand Cayman blue iguanas have hatched at our facilities, and we developed and maintain a studbook database for these rare iguanas. In the future, they will be shared with other facilities for further breeding to aid the continuation of the species.

Habitat loss, the introduction of exotic animals that prey on iguanas, capture for the pet trade, and poaching are some of the threats to wild iguana populations. Some species that were once plentiful in the wild are now beginning to disappear. There are several measures that can help iguanas survive, such as captive propagation in zoos, hunting and collecting restrictions, and education programs for people living in or near iguana habitats.

As a group, Caribbean rock iguanas *Cyclura* species are the most endangered lizards in the world. They suffered greatly when humans settled on these islands and began largescale habitat destruction and alteration. Plantations, homes, and resorts cleared out the plants iguanas fed on, and car traffic became one of the biggest threats to iguanas on the move. Cats

introduced to the islands by humans have been eating both iguana eggs and the young hatchlings, causing the iguanas' numbers to shrink.

Working with local governments and other organizations, San Diego Zoo Global is helping these iguanas both here in our Kenneth and Anne Griffin Reptile Conservation Center, and in the field on various Caribbean islands. Our rock iguana breeding program has been so successful that a new facility was built in Puerto Rico to accommodate the growing population. Without this expanded facility, the fate of these beautiful iguanas would be less certain. The breeding program includes supporting the animals in our facilities and field programs to establish new populations and to move current populations to small islands with no people, so the iguanas have room to grow.

We use a technique called "headstarting": iguana eggs are incubated in a facility and the hatchlings are taken care of in large pens until they are large enough to protect themselves from predators, thus giving them a head start in the wild. We have translocated some species to smaller uninhabited and protected islands or cays where, it is hoped, the iguanas can flourish.

To date, 179 Anegada iguanas *Cyclura pinguis* have been raised and released, nearly doubling the size of the wild population. Our goals include removing feral predators from Anegada Island and restoring iguanas to some of Puerto Rico's satellite islands, where the species historically occurred.

Since 2002, our recovery program for the Grand Cayman blue iguana *Cyclura lewisi* has boosted their numbers from a low of 25 in the wild to more than 500 released into a new wilderness reserve where they are now reproducing! San Diego Zoo Global is one of several organizations in North America working to produce a captive, self-sustaining population of Jamaican iguanas *Cyclura collei* to ensure genetic diversity for the species' worldwide population. A male iguana hatched on August 30, 2013—the first time this species was successfully bred at our facility.

In addition, we've helped implement conservation education programs on some of the Caribbean islands to increase public awareness and support for iguana conservation initiatives.

The Lau banded iguana *Brachylophus fasciatus*, first described in 1800, was believed to be the sole iguana species in Fiji for nearly 200 years. In 1979, the Fiji crested iguana *Brachylophus vitiensis* was found on one of Fiji's volcanic islands, and that island was soon set aside as a crested iguana sanctuary, which helped increase the species population dramatically. A third species of Fiji iguana was described in 2006, the Fiji banded iguana *Brachylophus bulabula*. San Diego Zoo Global's Genetics Division has been working to further test blood and skin samples from iguanas living on 23 of Fiji's islands, and the results suggest at least another new species is in need of description! These genetic studies will help determine how iguanas should be protected in Fiji and which managed-care lineages could be used for reintroduction.

Both banded and crested iguanas are endangered, due to habitat destruction for housing and the clearing of land for farming and livestock, as well as the introduction of mongooses and feral cats, which prey upon the iguanas and their young. Mongooses were brought to Fiji to hunt rats in the sugarcane fields, but they spread to wild areas and also feasted on the iguanas.

Fiji is also battling the introduction in 2000 of the green or common iguana *Iguana Iguana*, called the American iguana in Fiji. That species has become quite a pest and is said to be a threat to local vegetation; eradication measures are underway.

Visiting the San Diego Zoo and the San Diego Zoo Safari Park helps the giant rock iguanas of the West Indies, which are the most endangered group of lizards in the world. Our rock iguana breeding program has been so successful that a new facility was built to accommodate the growing population. Without this expanded facility, the fate of these beautiful iguanas would be less certain. The breeding program includes supporting the animals in our facilities and supporting a field program to establish new populations and to move current populations to small islands with no people so the iguanas have room to grow.

Additional Supplemental Information for Brachylophus to be imported from Spain:

The animals (iguanas from Spain) are to be tested for genetics to help us inform our partners the Fiji National Trust and the Ministry of Environment Fiji to best understand where these animals were smuggled from (some may have just been from the EU illegal pet trade and would be of mixed genetic heritage). Knowledge of specific islands impacted will help support targeted outreach to local communities within Fiji and support for more enforcement.

We also hope to document all that would need to be considered if animals ever were to be repatriated to home countries and given that these animals may be of mixed heritage and have been in contact with other reptiles the risk for disease transmission is too great however we want to document all of the process from point of confiscation to actual proper repatriation what would is cost, what needs to be considered for logistics etc so essentially this is a detailed case study of how to create best practices for Fijian iguanas during confiscations

The taxa Brachylophus is what is considered a cryptic species in that numerous yet to be described species exist within the complex. We had documented mixed unknown genetics in our original group which at the time was only 2 species described (B. vittiensis and B. fasciatus), as a result other species include genes from vittiensis were found in the captive population. Since that time we have been partnering with Fiji National Trust and USGS to conduct in country species assessments and compare genetics and morphology with additional specimens to be described.

Once exact species can be genetically and morphologically identified a plan moving forward will be incorporated in partnership with Fiji National Trust and Ministry of Environment Fiji. Specimens determined to be bulabula will be incorporated into existing breeding SSP and studbook — other species such as B. fasciatus or B. vittiensis can be maintained as part of the studbook but will not have a breeding designation assigned and will be maintained for education and display purposes at San Diego Zoo only. Animals would not be placed in with other sister taxa and if eggs are laid they would be sent to pathology/vets for health monitoring and not for incubation.

Fijian iguanas from the genus Brachylophus have been house at SD Zoo since our 50th anniversary when gifted to us from the Prince of Tonga. SD Zoo is a 107 year old institution and have had other iguana species off and on in the collection for many years. Fijian iguanas are managed and bred at the San Diego Zoo with intent to house and manage in perpetuity. The specific iguanas for this import would be housed until they decease due to age or for other medical management reasons deemed necessary by veterinarians or should the Fijian Government (National Trust etc) determine they would want any specific animals returned to Fiji for any reason in the future.

The Fijian Iguanas are only housed at the San Diego Zoo location – the San Diego Zoo's Safari Park information was provided as our staff is the same team managing the iguana care facility there to highlight similar species. We care for Cyclura (rock iguanas) at the Safari Park.

B. vittiensis and B. fasciatus would have identical care and facilities as that which was provided in permit application for B. bulabula. This taxa is managed with the same husbandry, diet etc at the genus level with no differences among species.

March 12, 2018: A Spanish criminal network trafficking rare animals has been dismantled by the Spanish Guardia Civil after more than 600 reptiles from the Americas, Africa, Asia and Oceania were found. Nine people have been arrested and seven, suspected members of the criminal network, are under investigation.

Members of the criminal group bought the animals from Australia, the Fiji Islands, Mexico, New Zealand, Oman and South Africa, then illegally transported them to Spain.

This operation was aided by Europol, which provided analytical and operational support to all Member States involved. Europol assisted Guardia Civil officers by deploying a team to Spain with a mobile office and UFED extraction capabilities on the internationally-coordinated action day, providing them with real-time intelligence analysis and forensic support. This helped to identify transnational links with other serious and organised crimes. Overall law enforcement authorities from 17 countries worldwide were involved in the operation.

Population Analysis & Breeding and Transfer Plan

Fiji Banded Iguana (*Brachylophus bulabula*) AZA Species Survival Plan[®] Yellow Program



AZA Species Survival Plan® Coordinator and Studbook Keeper Kim Gray, San Diego Zoo Wildlife Alliance (kgray@sdzwa.org)

Adjunct Population Advisor
Asako Chaille, San Diego Zoo Wildlife Alliance
(anavarro@sdzwa.org)

15 June 2022



Population Management Center







Table of Contents

| Acknowle | dgmentsdgments | 2 |
|-------------|--|----|
| Description | on of Population Status | 3 |
| Introdu | ction | 3 |
| Analyti | cal Assumptions and Exclusions | 3 |
| Demog | graphy | 3 |
| Genetic | CS | 5 |
| Recom | mendation Outcomes | 6 |
| Manag | ement Strategies | 7 |
| Breeding | and Transfer Recommendations by Facility | 9 |
| | ITA | |
| AUDUE | BON | 9 |
| BISMA | RCK | 9 |
| BUFFA | \LO | 9 |
| CHATT | TANOO | 9 |
| CHICA | GOBR | 10 |
| CLEVE | ELAND | 10 |
| DALLA | S | 10 |
| DENVE | ER | 10 |
| DETRO | TIC | 11 |
| EVANS | SVLLE | 11 |
| FORTV | NORTH | 11 |
| FRESN | VO | 11 |
| HONO | LULU | 11 |
| HOUS | TON | 12 |
| | VILLE | |
| LOSAN | NGELE | 12 |
| LOWR' | Y | 12 |
| NORFO | OLK | 13 |
| NZP-W | /ASH | 13 |
| OKLAH | HOMA | 13 |
| SAN AI | NTON | 13 |
| | EGOZ | |
| | WICK | |
| SYRAC | CUSE | 16 |
| | EO | |
| | NTO | |
| | \ | |
| | es | |
| A. | Analytical Assumptions | |
| B. | Summary of Data Exports | |
| C. | Animals Excluded from Genetic Analyses | |
| D. | Life Tables | |
| E. | Ordered Mean Kinship List | 21 |
| F. | Definitions | |
| G. | AZA Animal Population Management (APM) Committee Disclaimers | |
| Н | Directory of Institutional Representatives | 25 |

Acknowledgments

The Fiji Banded Iguana SSP planning meeting was held at the San Diego Zoo and via online conferencing on 5 April 2022, attended by the following:

Kim Gray, San Diego Zoo Asako Navarro, San Diego Zoo Wildlife Alliance

Cover photo courtesy of: San Diego Zoo Wildlife Alliance

This plan was prepared and distributed with the assistance of the Planning Coordinator and Program Assistant at the AZA Population Management Center (pmc@lpzoo.org).

Description of Population Status

Species Survival Plan® for the Fiji Banded Iguana (*Brachylophus bulabula*)

Introduction: The Fiji banded iguana (*Brachylophus bulabula*) is an arboreal lizard species endemic to the Fijian Islands. Prior to a DNA study published in 2008 (Keogh et al.), all banded iguanas were lumped under a single species. Based on the results of that study, *B. bulabula* is now recognized as a distinct species from *B. fasciatus*. Subsequent DNA work on the managed population in North America suggests that many captive individuals are of *bulabula x fasciatus* hybrid ancestry. Thus, at this time, it has been determined that the role of the SSP within AZA institutions is exhibit/education.

This current SSP population consists of 65 animals (42 males, 23 females) distributed among 20 AZA facilities. The Lizard Taxon Advisory Group has set a five-year target size of 60 animals and a long-term target size of 120 animals (2019 Regional Collection Plan). Under AZA's current sustainability designations, this Program qualifies as a Yellow SSP (≥50 formally managed animals; <90% gene diversity for 100 years). This is the fifth Breeding and Transfer Plan for this Program.

Analytical Assumptions and Exclusions: The pedigree of this population is 96.9% known before exclusions. No pedigree assumptions were necessary to perform genetic analyses (Appendix A). Nine animals have been excluded from the potentially breeding population due to advanced age, unknown pedigree, and medical reasons (Appendix C). Following exclusions, the potentially breeding population included 56 animals (36 males, 20 females) with a pedigree that was 100% known and 100% certain (Appendix A).

Demography: Studbook records indicate that Fiji banded iguanas have been held in current AZA facilities since 1965 when the San Diego Zoo first imported 6 animals from Tonga, but the species was not consistently exhibited until 1973. The population grew quickly between 1986 and 1995 at an average rate of 42%, due primarily to successful captive breeding and a limited number of sporadic imports (average λ 1986-1995 = 1.42; Figure 1). The population reached a peak of 75 individuals 2003, but this was followed by a decade of slow decline until 2014 (average λ 2004 – 2014 = 0.96). The reason for the slightly decline was a temporary suspension of breeding while the SSP changed leadership and hybrid *bulabula x fasciatus* ancestry was investigated. Since that time, the population has grown once again, with notable growth in 2018 due to one particularly prolific breeding pair producing 18 offspring. Population growth has been primarily due to successful captive breeding, with consistent hatches occurring at the San Diego Zoo in 1989. Although an occasional wild-caught animal does continue to be imported, imports have never been a predominant driver of growth (Figure 1). Based on current life tables (Appendix D), the population has a projected growth rate of 2% per year (projected λ = 1.02). There are currently three wild-caught animals remaining in the population.

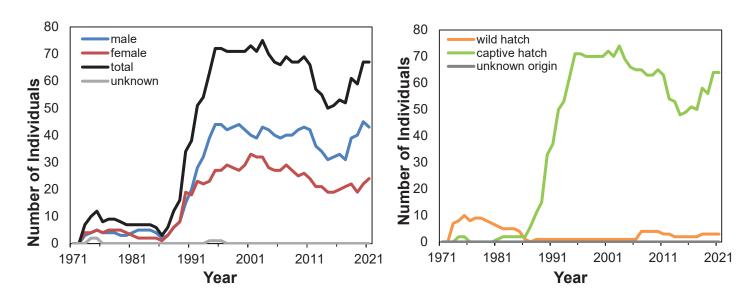


Figure 1. Census of Fiji Banded Iguana SSP from 1971 to 2021 by sex (left) and hatch type (right).

Fiji banded iguanas can live into their late teens or early twenties; studbook data indicate the oldest male on record is still alive at 27 years of age (SB# 104) and the oldest female lived to 20 years of age (SB# 61). The lower longevity observed in females may be an artefact of smaller sample sizes in adult females as they experience higher mortality than males due to medical challenges associated with reproduction. Current life tables used for demographic analyses indicate first-year mortality is 17% for males and 10% for females (Appendix D). Although there is currently no clear explanation for the difference in first year mortality rates between the sexes, it may be husbandry-related and this difference appears to represent a true disparity (calculated from >100 individuals for each sex). Both sexes are reproductive at approximately one year of age, but little reproduction has been observed until the age of two. Both sexes can likely reproduce throughout their entire lives, although the SSP generally considers animals 18 years of age and older to be post-reproductive due to health reasons. The oldest male on record to breed was 16 years of age at the time of conception (SB# 84) and the oldest female to produce offspring was 14 years of age (SB# 227). Females typically lay three to six eggs per clutch and can lay multiple clutches throughout the year.

The age structure illustrates the number of males and females in each age class (Figure 2). Based on its current age structure and growth rate, if the population continues on its current trajectory, this population is expected to increase over time (Table 1). The age structure of the Fiji banded iguana population is robust, exhibiting a roughly pyramidal structure with more animals in the youngest age classes (Figures 2). Although captive reproduction was historically quite successful, the paucity of animals in age classes 9 to 12 illustrates that breeding was temporarily suspended while the SSP changed leadership and hybrid bulabula x fasciatus ancestry was investigated. As captive reproduction has resumed, the younger age classes have repopulated. A demographically robust age structure can be maintained if the population produces a low but consistent number of hatches every year. The sex ratio of the population is skewed, with 1.83 males present for every female. This sex-bias in the adult population is expected to persist as long as females experience higher reproductionrelated mortality than males. Because this species is typically maintained in pairs during a breeding season, the less numerous sex will dictate reproductive rates.

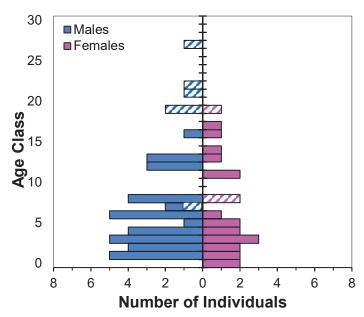


Figure 2. Age distribution of the Fiji Banded Iguana SSP for the total population, N=65 (42.23.0). Animals excluded for breeding are represented by hash marks, N=9 (6.3.0).

Table 1: Demographic status of SSP population, according to studbook.

| Demography Summary | | | | |
|---|-----------------------|-----------------|--|--|
| Current size of SSP population (N) – Total (Males.Females.Unknown Sex) | 65 (42.23.0) | | | |
| Number of individuals excluded from breeding | 9 (6.3 | .0) | | |
| Breeding Population size following exclusions | 56 (36.2 | 20.0) | | |
| Target population size (Kt) *Lizard TAG 2019 RCP (long-term target) | 120 |) | | |
| Mean generation time (T, years) | 6.4 | | | |
| Population growth rates (λ; lambda)*: Life Table / 5–year / Projected | 1.022 / 1.048 / 0.949 | 9<>1.001<>1.043 | | |
| Percentage (%) of living population born/hatched ex situ | 95% | 95% | | |
| Survival/Mortality | Males | Females | | |
| Observed first year mortality rate (Q _x) | 0.17 | 0.10 | | |
| Median life expectancy (MLE), excluding first year mortalities (years) (from PopLink Survival Statistics Report (https://www.aza.org/species-survival-statistics)) *the lower MLE observed in females could be due to higher mortality observed in females due to medical challenges associated with reproduction | 15.9 | 7.2 | | |
| Observed maximum longevity (L _x) (Studbook ID # of individual) | 27 | 20 | | |
| *SB# 104 is still living. | (SB# 104) | (SB# 61) | | |
| Reproduction | | | | |
| Observed reproductive age range | 1.5 – 16 | 1.8 - 14 | | |
| Incubation time | 160 da | 160 days | | |
| Median clutch size hatched | 1 (1 - | 6) | | |

^{*} Life table (AZA, 1988 – present); 5-year from studbook census; Projected from PMx stochastic 20 year projections

Genetics: Based on pedigree assumptions and exclusions, the studbook pedigree indicates that analytical Fiji banded iguana SSP population is descended from 14 founders with one potential founder remaining (Figure 3). The mean kinship in the population is 0.1198. Full-siblings have a kinships of 0.25 and half-siblings have a kinship of 0.125, which means that the average relationship across the population is just below that of second-order relatives. The gene diversity of the analytical population 88.0%, which is equivalent to that found in approximately 4 to 5 founders (FGE = 4.17). Typical AZA program goals include thresholds for tolerance of gene diversity loss over time; 90% gene diversity retention for 100 years is a common management goal. Decreases in gene diversity below 90% of that in the founding population have been associated with reproduction increasingly compromised by, among other factors, lower hatch weights, smaller clutch sizes, and greater hatchling mortality in some species.

Gene diversity in the analytical Fiji banded iguana population is projected to decline to ~56% over the next 100 years if the population grows at its projected growth rate of 2.2% (λ = 1.022) to a long-term target size of 120 animals. The population parameters that currently have the greatest negative impact on gene diversity projections are low starting gene diversity, a short generation length, and the population's Ne/N ratio (the long-term target size is already quite reasonable). With one potential founder and a potential gene diversity of 93.48%, current gene diversity could be improved through rigorous genetic management. Furthermore, the population's Ne/N ratio could be improved if more adults start successfully producing offspring. As a benchmark, if starting gene diversity and the Ne/N ratio were increased to 91% and 0.25 respectively, gene diversity in 100 years is projected to be 67% of founding diversity. That projection is still well below the 90% threshold commonly thought to represent genetic vigor and demonstrates that additional imports of unrelated animals ultimately will be necessary to support long-term gene diversity maintenance. With the parameter improvements already discussed, approximately three to four new founders would need to be acquired every 10 years to retain 90% founding gene diversity for 100 years (T = 6.4 years; λ = 1.022; Ne/N = 0.25; starting GD = 0.91; target size = 120 animals).

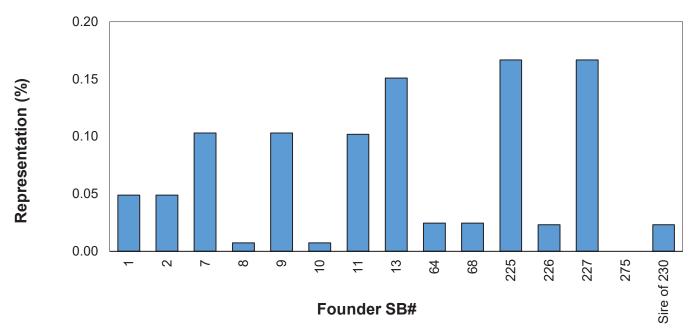


Figure 3. Founder representation distribution of the analytical Fiji Banded Iguana population.

The best genetic management strategy to maximize a population's long-term gene diversity retention is typically managed breeding targeted at equalizing founder representations by breeding animals with low and well-matched mean kinships. Founder representations in the Fiji banded iguana population are currently skewed (Figure 3); more equal representations would retain more gene diversity. Thus, particular priority is being placed on breeding animals with low mean kinships (representative of under-represented founders) and the potential founder that has not yet produced surviving offspring. If more equal founder representations can be achieved, some of the potential gene diversity in the population can be realized and current gene diversity would rise. However, because genetic management must be balanced against demographic goals, some animals with higher mean kinships will still receive breeding recommendations to meet demographic goals.

Table 2: Population size, genetic status, and projections for the Fiji Banded Iguana SSP population.

| | Genetics | Summary* | | | |
|--|-------------|-------------|-------------------|-------------|-----------|
| | 2009 | 2013 | 2019 | 2022 | Potential |
| Founders | 12 | 16 | 15 | 14 | 1 |
| Founder genome equivalents (FGE) | 4.36 | 4.17 | 4.02 | 4.17 | 7.67 |
| Gene diversity (GD %) | 88.53 | 88.53 | 87.58 | 88.02 | 93.48 |
| Population mean kinship (MK) | 0.1147 | 0.1200 | 0.1242 | 0.1198 | |
| Mean inbreeding (F) | 0.0451 | 0.0793 | 0.0907 | 0.0630 | |
| Effective population size (N _e /N) | 0.21 | 0.22 | 0.18 [‡] | 0.17‡ | |
| Percentage of pedigree known before / after assumptions and exclusions | 100 / 100 | 100 / 100 | 100 / 100 | 96.9 / 100 | |
| Percentage pedigree certain after assumptions and exclusions | 100 | 100 | 100 | 100 | |
| | Proje | ctions | | | |
| Years to 90% gene diversity | NA <90% | NA <90% | NA <90% | NA <90% | |
| Years to 10% loss of gene diversity | NA | 15 | 17 | 17 | |
| Gene diversity at 100 Years (%) | 60 | 52 | 55 | 56 | |
| Parameters for analysis: | assuming | assuming | assuming | assuming | |
| growth rate (λ), target size (Kt), generation | λ=1.05, | λ=1.01, | λ=1.02, | λ=1.02, | |
| length (T), starting population size (n) | Kt=120, | Kt=120, | Kt=120, | Kt=120, | |
| | T=6.0, n=54 | T=6.1, n=46 | T=6.2, n=55 | T=6.4, n=56 | |

^{*}Genetic statistics may not be comparable across years due to changes in software and parameters used for projections from year to year.

Recommendation Outcomes: The website PMCTrack calculates the outcomes fo SSP recommendations by comparing Breeding and Transfer Plan recommendations to births/hatches and transfers recorded in the studbook (Figure 4). There are many reasons that recommendations might not be fulfilled, including interim recommendations issued by the SSP Coordinator; these reasons can be captured using PMCTrack Outcomes Surveys. Note that starting in 2022, SSP Coordinators directly add interim recommendations to PMCTrack to improve the accuracy of recommendation outcomes. The fulfillment rates of any plan that had outcomes calculated in 2022 or after may reflect inclusion of these interim rates; in the graph, this may include the last plan before 2022, such as a 2021 plan, plus any plans with a date of 2022 or after.

Of the recommendations proprosed in the 2019 Breeding and Transfer Plan, 0% of the BREED WITH recommendations were fulfilled, and 14% of SEND TO recommendations were fulfilled as requested by 02/23/22. The proportion of BREED WITH recommendations that appear to be unfulfilled are a result of multiple breeding options one main breeding facility (SANDIEGOZ) was given in the last plan, that is not recognized by PMCTrack. Five individuals given multiple breeding options successfully produced offspring since the last plan. The low fulfillment rates for transfer recommendations are mainly due to transfer restrictions and challenges related to the COVID-19 pandemic. SSP participants are always encouraged to attempt to fulfill recommendations and communicate successes and challenges to the SSP Coordinator.

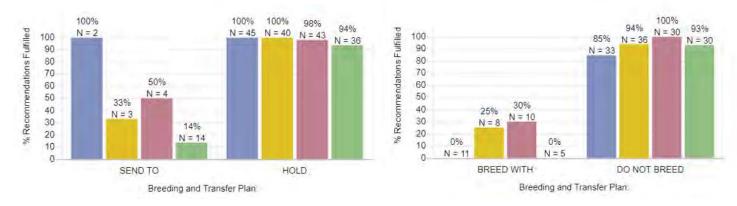


Figure 4. Recommendation outcomes by transfers (left) and breeding (right) for the past Fiji Banded Iguana SSP Breeding and Transfer Plans. *N* represents the number of recommendations scored for each recommendation type, per plan, and the number represents the percentage recommendations fulfilled. Please visit PMCTrack.org or contact pmctrack@lpzoo.org for more information or with any questions.

^{*}Known to include founders. N_e/N ratios might not be comparable across years due to different methods of calculation.

Management Strategies: The current SSP population consists of 65 animals (42 males, 23 female) distributed among 20 AZA facilities. Demographic analyses based on current life tables (Appendix D) indicate that approximately 20 hatches are needed over the next three years (6 to 7 hatches per year) to maintain the population at its current size. If the population grows at its projected growth rate of 2.2% per year (λ = 1.022), then ~25 hatches are needed over the next three years (8 to 9 hatches per year) for the population to reach 70 animals in three years, and it would take approximately 28 years for population to reach the TAG's long-term target size of 120 animals. The population averaged 7.0 hatches per year in the last five years (2017-2021), indicating that recent reproduction is sufficient to maintain the population at its current size, but needs to be at least minimally improved to confidently grow towards its long-term target size.

Gene diversity in the analytical population is 88.02%, which is below the 90% threshold commonly thought to represent genetic vigor. Gene diversity is projected to decline to ~56% over the next 100 years if the analytical population grows at its projected growth rate of 2.2% to a target size of 120 animals. Although rigorous genetic management could result in some improvements in the population's current gene diversity and Ne/N ratio, thereby marginally improving long-term gene diversity projections, additional imports of unrelated iguanas ultimately will be necessary to support long-term gene diversity maintenance given the species' short generation length (which hastens gene diversity loss). Particularly priority is being placed on breeding animals with low mean kinships (representative of under-represented founders) and the potential founder to support long-term gene diversity retention across the population. However, because genetic management must be balanced against demographic goals, some animals with higher mean kinships will still receive breeding recommendations to meet demographic goals. As with most AZA-managed programs, breeding recommendations also aim to limit inbreeding and minimize differences between sire and dam kinships.

At this time, the number of breeding recommendations is intended to grow the population to 75 animals over the next three years. Although the number of recommended breeding females may seem aggressive, breeding only occurred in four pairs at two facilities, compared to the eleven females that were recommended to breed at 6 facilities in the previous Breeding & Transfer plan (2019). Although this provided a demographic boost to the population, current management is focused on trying to breed a larger number of animals that each produce fewer offspring to support genetic management (by increasing the population's Ne/N ratio and improving long-term gene diversity retention).

This is a 3-year plan (2022-2025). Interim recommendations will continue to be made as needed until another full set of recommendations are produced. Please promptly report any hatches or deaths to the Program Coordinator, so that interim recommendations can be based on accurate population data. Recommendations contained in this plan supersede all previous recommendations.

Table 3: Historic reproduction and future population goals.

| Current Reproductive Goals Summary | | | | | | | |
|---|--|------------------------|--|--|--|--|--|
| | Number of Hatches Needed per Year over the next 3 Years | Target Population Size | | | | | |
| To maintain current population size (λ = 1.00) | 6 - 7 | 65 | | | | | |
| To grow to the RCP target population size in 30 years (Kt = 120; λ = 1.022) | 8 - 9 | 120 | | | | | |
| Reproductive Goals Summ | ary from the Last BTP (2019) | | | | | | |
| Number of females recommended to breed | 11 | | | | | | |
| Number of hatches since then (11/19/19 – 4/5/22) | 14 | | | | | | |
| | | | | | | | |
| Average Number of Births/h | latches in the SSP Population | | | | | | |
| Average number of hatches per year, from the past five years (range) | 7.0 (1 – 18) | | | | | | |

At this time, the SSP:

- 1. Recommends 11 females to breed at 9 facilities. Two proven females remain paired with compatible mates, one existing pair that has not yet produced offspring has again been recommended to breed, and eight new breeding pairs will be established through these recommendations.
 - Each female is recommended to produce one successful clutch (with at least one offspring surviving >30 days) during the next three years.
 - One breeding facility (SANDIEGOZ) has been provided with a MateRx matrix for backup pairings.
- 2. Recommends 17 transfers to meet institutional requests and establish new breeding pairs. A total of 8 of the 17 transfers are recommendations to establish new breeding pairs. Ten of the 17 transfers are intended to place animals at new holding facilities. No facilities will be lost and eight facilities will gained as a result of these transfers.

Explanation of Recommendations Using MateR_x

Recommendations Using MateR_x: MateR_x is analytical software developed jointly by the Lincoln Park Zoo and Smithsonian's National Zoo and Conservation Biology Institute. The primary output is a matrix of genetic ratings (Mate Suitability Indices = MSI) for possible breeding pairs.

Each MSI represents the genetic consequences for the population if a given pair was to produce offspring. There are seven values for MSIs varying in degree of genetic benefit or detriment to the genetic health of the population.

These MSI values are defined as:

| MSI Value | Genetic consequences | Demographic consequences |
|-----------|------------------------------------|---|
| 1 | very beneficial | ok to breed |
| 2 | moderately beneficial | ok to breed |
| 3 | slightly beneficial | ok to breed |
| 4 | slightly detrimental/beneficial | may be necessary to breed to maintain or increase population size |
| 5 | moderately detrimental | may be necessary to breed in declining populations |
| 6 | very detrimental | not to be bred without a consultation with a population biologist |
| _ | extremely detrimental | not to be bred without a consultation with a population biologist |

If MateRx setting have been modified by the population biologist, the interpretation of the MSI values may differ. Your population biologists may provide additional MateR_x instructions, as MateR_x values do not integrate a population's demographic goals or needs.

MateR_x integrates four genetic factors to produce the Mate Suitability Index:

- 1. the expected change in genetic diversity (increase, decrease) that would result if an offspring of a pair is added to the population
- 2. the relative rareness or commonness of the parent's genome (i.e., the difference between the male and female mean kinships)
- 3. the inbreeding coefficient of offspring that would be produced by a pair
- 4. the proportion, if any, of the dam and sire's pedigree that is of unknown origin.

Additional information on reading, interpreting, using MateRx Matrices can be found at: http://youtu.be/0YX-FdOCekl

Breeding and Transfer Recommendations by Facility

ATLANTA

Zoo Atlanta

Atlanta, GA

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|----------|--------------|------|----------------|
| 183 | 15R001 | M | 18 | HOLD | ATLANTA | DO NOT BREED | | excluded - age |

AUDUBON

Audubon Zoo

New Orleans, LA

Facility notes: The SSP will gain this facility as a result of this transfer.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|----------|--------------|------|-------|
| 261 | 303734 | M | 4 | RECEIVE FROM | LOWRY | DO NOT BREED | | |

BISMARCK

Dakota Zoo

Bismarck, ND

Facility notes: The SSP will gain this facility as a result of this transfer.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|-----------|--------------|------|-------|
| 277 | 1001424 | М | 2 | RECEIVE FROM | SANDIEGOZ | DO NOT BREED | | |

BUFFALO

Buffalo Zoo

Buffalo, NY

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|----------|--------------|------|-------|
| 268 | R21000 | М | 3 | HOLD | BUFFALO | DO NOT BREED | | |

CHATTANOO

Tennessee Aquarium

Chattanooga, TN

Facility notes: The SSP will gain this facility as a result of this transfer.

| IC |) | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|----|----|----------|-----|-----|--------------|----------|--------------|------|-------|
| 2 | 69 | 303811 | М | 3 | RECEIVE FROM | LOWRY | DO NOT BREED | | |

CHICAGOBR

Brookfield Zoo

Brookfield, IL

Facility notes: This pair is recommended to produce one surviving clutch (at least one offspring surviving >30 days) over the next three years. After one clutch has been produced, please contact the SSP Coordinator BEFORE A SECOND CLUTCH IS LAID for a possible interim recommendation to continue breeding.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|-----------|------------|------|-------|
| 235 | 6086 | M | 8 | HOLD | CHICAGOBR | BREED WITH | 256 | |
| 256 | 303735 | F | 4 | HOLD | CHICAGOBR | BREED WITH | 235 | |

CLEVELAND

Cleveland Metroparks Zoo

Cleveland, OH

| | ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|---|-----|----------|-----|-----|-------------|-----------|--------------|------|----------------|
| ĺ | 156 | M80904 | M | 22 | HOLD | CLEVELAND | DO NOT BREED | | excluded - age |

DALLAS

Dallas Zoo

Dallas, TX

Facility notes: This pair is recommended to produce one surviving clutch (at least one offspring surviving >30 days) over the next three years. After one clutch has been produced, please contact the SSP Coordinator BEFORE A SECOND CLUTCH IS LAID for a possible interim recommendation to continue breeding.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|-----------|------------|------|-------|
| 252 | 916383 | М | 6 | RECEIVE FROM | SANDIEGOZ | BREED WITH | 286 | |
| 285 | 20C247 | М | 1 | SEND TO | SANDIEGOZ | SEE NOTES | | |
| 286 | 20C251 | F | 1 | HOLD | DALLAS | BREED WITH | 252 | |

DENVER

Denver Zoo

Denver, CO

Facility Notes: The SSP has noted your facility's desire to receive a female to breed with your male. Due to the shortage of females in the population and M262's over-representation, the SSP is unable to provide any animals at this time. A breeding recommendation may be given in a future plan when a suitable animal becomes available.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|----------|--------------|------|-------|
| 262 | 303739 | M | 4 | HOLD | DENVER | DO NOT BREED | | |

DETROIT

Detroit Zoological Society

Royal Oak, MI

Facility notes: The SSP will gain this facility as a result of this transfer.

This pair is recommended to produce one surviving clutch (at least one offspring surviving >30 days) over the next three years. After one clutch has been produced, please contact the SSP Coordinator BEFORE A SECOND CLUTCH IS LAID for a possible interim recommendation to continue breeding.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|-----------|------------|------|-------|
| 258 | 303737 | F | 4 | RECEIVE FROM | LOWRY | BREED WITH | 276 | |
| 276 | 1001350 | M | 2 | RECEIVE FROM | SANDIEGOZ | BREED WITH | 258 | |

EVANSVLLE

Mesker Park Zoo

Evansville, IL

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|-----------|--------------|------|----------------|
| 161 | 317001 | M | 21 | HOLD | EVANSVLLE | DO NOT BREED | | excluded - age |

FORTWORTH

Fort Worth Zoo

Ft Worth, TX

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|--------------|-----|-----|-------------|-----------|--------------|------|-------|
| 216 | 211912 | M | 13 | HOLD | FORTWORTH | DO NOT BREED | | |
| 224 | UNDETERMINED | F | 11 | HOLD | FORTWORTH | DO NOT BREED | | |

FRESNO

Fresno Chaffee Zoo

Fresno, CA

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|-----------|--------------|------|----------------|
| 182 | 290056 | M | 16 | HOLD | FRESNO | DO NOT BREED | | excluded - age |
| 249 | 916098 | F | 5 | RECEIVE FROM | SANDIEGOZ | DO NOT BREED | | |

HONOLULU

Honolulu Zoo

Honolulu, HI

Facility notes: The SSP will gain this facility as a result of this transfer.

| D | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|----------|--------------|------|-------|
| 265 | 303790 | M | 3 | RECEIVE FROM | LOWRY | DO NOT BREED | | |

HOUSTON

Houston Zoo, Inc.

Houston, TX

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|----------|--------------|------|----------------|
| 104 | 15518 | М | 27 | HOLD | HOUSTON | DO NOT BREED | | excluded - age |
| 199 | 22910 | F | 17 | HOLD | HOUSTON | DO NOT BREED | | |
| 209 | 28420 | M | 13 | HOLD | HOUSTON | DO NOT BREED | | |

KNOXVILLE

Zoo Knoxville

Knoxville, TN

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|-----------|--------------|------|-------|
| 267 | 303792 | M | 3 | HOLD | KNOXVILLE | DO NOT BREED | | |

LOSANGELE

Los Angeles Zoo

Los Angeles, CA

Facility notes: The SSP will gain this facility as a result of this transfer.

| | ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|---|-----|----------|-----|-----|--------------|-----------|------------|------|-------|
| | 242 | 915093 | M | 6 | RECEIVE FROM | SANDIEGOZ | BREED WITH | 263 | |
| Γ | 263 | 303788 | F | 3 | RECEIVE FROM | LOWRY | BREED WITH | 242 | |

LOWRY

Tampa's Lowry Park Zoo

Tampa, FL

Facility notes: F264 is recommended to breed with unrelated male M239. This pair is recommended to produce one surviving clutch (at least one offspring surviving >30 days) over the next three years. After one clutch has been produced, please contact the SSP Coordinator BEFORE A SECOND CLUTCH IS LAID for a possible interim recommendation to continue breeding.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|-----------|--------------|------|-------|
| 239 | 913464 | M | 8 | RECEIVE FROM | SANDIEGOZ | BREED WITH | 264 | |
| 257 | 303738 | M | 4 | SEND TO | SEDGWICK | DO NOT BREED | | |
| 258 | 303737 | F | 4 | SEND TO | DETROIT | BREED WITH | 276 | |
| 261 | 303734 | M | 4 | SEND TO | AUDUBON | DO NOT BREED | | |
| 263 | 303788 | F | 3 | SEND TO | LOSANGELE | BREED WITH | 242 | |
| 264 | 303789 | F | 3 | HOLD | LOWRY | BREED WITH | 239 | |
| 265 | 303790 | M | 3 | SEND TO | HONOLULU | DO NOT BREED | | |
| 269 | 303811 | M | 3 | SEND TO | CHATTANOO | DO NOT BREED | | |

NORFOLK

Virginia Zoological Park

Norfolk, VA

Facility notes: This pair is recommended to produce one surviving clutch (at least one offspring surviving >30 days) over the next three years. After one clutch has been produced, please contact the SSP Coordinator BEFORE A SECOND CLUTCH IS LAID for a possible interim recommendation to continue breeding.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|-----------|------------|------|-------|
| 222 | 217198 | M | 12 | HOLD | NORFOLK | BREED WITH | 273 | |
| 273 | 1000031 | F | 3 | RECEIVE FROM | SANDIEGOZ | BREED WITH | 222 | |

NZP-WASH

Smithsonian National Zoological Park

Washington, DC

Facility notes: This pair is recommended to produce one surviving clutch (at least one offspring surviving >30 days) over the next three years. After one clutch has been produced, please contact the SSP Coordinator BEFORE A SECOND CLUTCH IS LAID for a possible interim recommendation to continue breeding.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|----------|------------|------|-------|
| 212 | 307298 | F | 13 | HOLD | NZP-WASH | BREED WITH | 221 | |
| 221 | 307492 | M | 12 | HOLD | NZP-WASH | BREED WITH | 212 | |

OKLAHOMA

Oklahoma City Zoo

Oklahoma City, OK

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|----------|--------------|------|-------|
| 266 | 303791 | М | 3 | HOLD | OKLAHOMA | DO NOT BREED | | |

SAN ANTON

San Antonio Zoo

San Antonio, TX

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|-----------|--------------|------|-------|
| 260 | B20008 | M | 4 | HOLD | SAN ANTON | DO NOT BREED | | |

SANDIEGOZ

San Diego Zoo

San Diego, CA

Facility notes: Four females are recommended for breeding. Each breeding female is recommended to produce one surviving clutch (at least one offspring surviving >30 days) over the next three years. After one clutch has been produced, please contact the SSP Coordinator BEFORE A SECOND CLUTCH IS LAID for a possible interim recommendation to continue breeding.

Pairs recommended for breeding (in priority order):

M275 x F230 (male is potential founder)

M219 x F241

M225 x F227 (both living founders)

M237 x F232

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|-----------|--------------|------|--------------------|
| 180 | 903031 | F | 19 | HOLD | SANDIEGOZ | DO NOT BREED | | excluded - age |
| 219 | 16554 | М | 12 | RECEIVE FROM | TULSA | BREED WITH | 241 | |
| 225 | 907105 | М | 16 | HOLD | SANDIEGOZ | BREED WITH | 227 | founder |
| 227 | 907107 | F | 16 | HOLD | SANDIEGOZ | BREED WITH | 225 | founder |
| 230 | 907581 | F | 14 | HOLD | SANDIEGOZ | BREED WITH | 275 | |
| 232 | 911032 | F | 11 | HOLD | SANDIEGOZ | BREED WITH | 237 | |
| 236 | 913268 | M | 8 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 237 | 913270 | M | 8 | HOLD | SANDIEGOZ | BREED WITH | 232 | |
| 239 | 913464 | M | 8 | SEND TO | LOWRY | BREED WITH | 264 | |
| 240 | 913465 | F | 8 | HOLD | SANDIEGOZ | DO NOT BREED | | excluded - medical |
| 241 | 915092 | F | 6 | HOLD | SANDIEGOZ | BREED WITH | 219 | |
| 242 | 915093 | М | 6 | SEND TO | LOSANGELE | BREED WITH | 263 | |
| 243 | 915094 | М | 6 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 246 | 916380 | М | 6 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 247 | 916382 | М | 6 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 249 | 916098 | F | 5 | SEND TO | FRESNO | DO NOT BREED | | |
| 250 | 916099 | F | 5 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 251 | 916097 | M | 5 | SEND TO | TULSA | DO NOT BREED | | |
| 252 | 916383 | M | 6 | SEND TO | DALLAS | BREED WITH | 286 | |
| 273 | 1000031 | F | 3 | SEND TO | NORFOLK | BREED WITH | 222 | |
| 274 | 1000366 | M | 2 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 275 | 918030 | M | 7 | HOLD | SANDIEGOZ | BREED WITH | 230 | potential founder |
| 276 | 1001350 | M | 2 | SEND TO | DETROIT | BREED WITH | 258 | |
| 277 | 1001424 | M | 2 | SEND TO | BISMARCK | DO NOT BREED | | |
| 278 | 1001427 | F | 2 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 279 | 1001426 | М | 2 | SEND TO | SYRACUSE | DO NOT BREED | | |
| 280 | 1001506 | F | 2 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 281 | 1001736 | M | 1 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 282 | 1001739 | F | 1 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 283 | 1001800 | М | 1 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 284 | 1001910 | М | 1 | HOLD | SANDIEGOZ | SEE NOTES | | |
| 285 | 20C247 | М | 1 | RECEIVE FROM | DALLAS | SEE NOTES | | |
| 288 | 1001881 | F | 0 | HOLD | SANDIEGOZ | SEE NOTES | | juvenile |
| 289 | 1001896 | F | 0 | HOLD | SANDIEGOZ | SEE NOTES | | juvenile |
| 290 | 1001873 | M | 1 | HOLD | SANDIEGOZ | SEE NOTES | | |

SANDIEGOZ continued...

A MateRx matrix has been provided for alternate backup options. Please prioritize breeding pairs with MateRx values of 1, 2, or 3. These pairs are each recommended to produce one surviving clutch a year; please contact the SSP Coordinator for a possible second breeding recommendation before attempting to breed the same pair for the second time. Pairings with MateRx values of 5, 6, or "—" are not recommended and should be discouraged by managers.

| UniqueID | Females > | 227 | 230 | 232 | 241 | 249 | 250 | 273 | 278 | 280 | 282 | 288 | 289 |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Males V | Location | SANDIEGOZ |
| 219 | TULSA | 1 | 3 | 3 | 2 | 4 | 4 | 2 | 3 | 3 | 2 | 1 | 1 |
| 225 | SANDIEGOZ | 2 | 3 | 3 | - | 4 | 4 | - | - | - | - | - | - |
| 236 | SANDIEGOZ | - | 4 | 3 | - | 4 | 4 | - | - | - | - | - | - |
| 237 | SANDIEGOZ | 1 | 3 | 3 | 1 | 4 | 4 | - | - | 1 | 1 | - | - |
| 239 | SANDIEGOZ | - | 3 | 3 | - | 4 | 4 | - | - | - | - | - | - |
| 242 | SANDIEGOZ | - | 3 | 3 | - | 4 | 4 | - | - | - | - | - | - |
| 243 | SANDIEGOZ | - | 3 | 3 | - | 4 | 4 | - | - | - | - | - | - |
| 246 | SANDIEGOZ | 2 | 4 | - | 2 | - | - | 2 | 4 | 4 | 2 | 3 | 3 |
| 247 | SANDIEGOZ | 2 | 4 | - | 2 | - | - | 2 | 4 | 4 | 2 | 3 | 3 |
| 251 | SANDIEGOZ | 4 | 6 | - | 4 | - | - | 4 | - | - | 4 | 6 | 6 |
| 252 | SANDIEGOZ | 2 | 4 | - | 2 | - | - | 2 | 4 | 4 | 2 | 3 | 3 |
| 274 | SANDIEGOZ | - | 3 | 3 | - | 4 | 4 | - | - | - | - | - | - |
| 275 PF | SANDIEGOZ | 2 | 1 | 3.5 | 2 | 3.5 | 3.5 | 2 | 3.5 | 3.5 | 2 | 1 | 1 |
| 276 | SANDIEGOZ | - | 3 | 3 | - | 4 | 4 | - | - | - | - | - | - |
| 277 | SANDIEGOZ | - | 6 | 4 | - | - | - | - | - | - | - | 4 | 4 |
| 279 | SANDIEGOZ | - | 6 | 4 | - | - | - | - | - | - | - | 4 | 4 |
| 281 | SANDIEGOZ | - | 3 | 3 | - | 4 | 4 | - | - | - | - | - | - |
| 283 | SANDIEGOZ | - | 3 | 3 | - | 4 | 4 | - | - | - | - | - | - |
| 284 | SANDIEGOZ | - | 6 | 4 | - | - | - | - | - | - | - | 4 | 4 |
| 285 | DALLAS | - | 4 | 2 | - | 4 | 4 | - | 4 | 4 | - | 3 | 3 |
| 290 | SANDIEGOZ | - | - | 3 | - | 4 | 4 | - | 4 | 4 | - | - | - |
| 208 | TOLEDO | 3 | 6 | - | 3 | - | - | 3 | 4 | 4 | 3 | 3 | 3 |

SEDGWICK

Sedgwick County Zoo

Wichita, KS

Facility notes: The SSP will gain this facility as a result of this transfer.

| | ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|---|-----|----------|-----|-----|--------------|----------|--------------|------|-------|
| ſ | 257 | 303738 | M | 4 | RECEIVE FROM | LOWRY | DO NOT BREED | | |

SYRACUSE

Rosamond Gifford Zoo at Burnet Park

Syracuse, NY

Facility notes: The SSP will gain this facility as a result of this transfer.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|-----------|--------------|------|-------|
| 279 | 1001426 | M | 2 | RECEIVE FROM | SANDIEGOZ | DO NOT BREED | | |

TOLDEO

Toledo Zoological Gardens

Toledo, OH

Facility Notes: The SSP has noted your facility's desire to receive a female to breed with your male. Due to the shortage of females in the population, the SSP is unable to provide any animals at this time. A breeding recommendation may be given in a future plan when a suitable animal becomes available.

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|-------------|----------|--------------|------|-------|
| 208 | 7795 | M | 13 | HOLD | TOLEDO | DO NOT BREED | | |

TORONTO

Toronto Zoo

Toronto, Ontario, Canada

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|-------------|-----|-----|-------------|----------|--------------|------|--------------------------------|
| 291 | 50589 | М | 7 | HOLD | TORONTO | DO NOT BREED | | excluded – unknown pedigree |
| 292 | 51681 | F | 8 | HOLD | TORONTO | DO NOT BREED | | excluded – unknown pedigree |

TULSA

Tulsa Zoo

Tulsa, OK

| ID | Local ID | Sex | Age | Disposition | Location | Breeding | With | Notes |
|-----|----------|-----|-----|--------------|-----------|--------------|------|-------|
| 219 | 16554 | М | 12 | SEND TO | SANDIEGOZ | BREED WITH | 241 | |
| 251 | 916097 | M | 5 | RECEIVE FROM | SANDIEGOZ | DO NOT BREED | | · |

Appendices

A. Analytical Assumptions

No assumptions were used for these analyses.

B. Summary of Data Exports

| Studbook Name | Fijian Banded Iguana | | |
|--|--|--|--|
| Studbook Currentness Date | 3/22/22 | | |
| Studbook Software and version # | ZIMS for Studbooks v 3.0 | | |
| Overlay Name (if applicable) | N/A | | |
| PMx version # | 1.6.5.20220325 | | |
| .fed file | N/A | | |
| Descriptive Survival Statistics Report | Report is archived with PMC/AZA and Median Life Expectancy can be viewed | | |
| | here: https://www.aza.org/species-survival-statistics | | |

PMx Project: IguanaFijiBanded SSP 2022Mar25

Created: 2022-03-25

Studbook information:Data compiled by: Kim Gray
Scope of data: AZA Regional

Primary data file:

zims.zims

Filter conditions:

Dates: 1988-01-01 to 2022-03-22

Association: AZA

Moves data files:

genetic.csv demographic.csv Filter conditions:

Dates: 1988-01-01 to 2022-03-22

Association: AZA

Census data file:

Exchcens.txt Filter conditions:

Dates: annual census taken on 12/31

Association: AZA

PMx Analysis Notes: F245 was removed from demographic and genetic analyses directly in the PMx project due to her recent death.

MateRx Settings:

F Break Point: UseAverageMK Genetic Value Type: Mean Kinship MK Diff Method: AbsoluteDiffs

For Unknown Sexes: ExcludeUnknowns

MSI Method: Tulsa

F: Breakpoint = 0.1198, No Way Point = 0.125 GVDiff: Breakpoint = 0.70, No Way Point = 1.00

There are 3 hatches to parents with unknown ages that have been added in proportion to known aged parents. This is 1% of TOTAL hatches (N=237).

Sustainability Partners: none

C. Animals Excluded from Genetic Analyses

| ID | Location | Sex | Age | Reason for Exclusion |
|-----|-----------|-----|-----|----------------------|
| 104 | HOUSTON | М | 27 | age |
| 156 | CLEVELAND | М | 22 | age |
| 161 | EVANSVLLE | М | 21 | age |
| 180 | SANDIEGOZ | F | 19 | age |
| 182 | FRESNO | М | 18 | age |
| 183 | ATLANTA | М | 18 | age |
| 240 | SANDIEGOZ | F | 8 | medical |
| 291 | TORONTO | М | 7 | unknown pedigree |
| 292 | TORONTO | F | 8 | unknown pedigree |

D. Life Tables

Px = survival; Qx = mortality; Lx = cumulative survivorship; Mx = fecundity; Ex = life expectancy; Vx = expected future reproduction, At Risk (Qx and Mx) = number of animals corresponding values are estimated from.

Ex not calculated because oldest male in demographic selection (SB# 104) is still living. Qx for age class 27 changed to 1.0 for all analyses, with no notable impact.

| | | | | | MAL | .ES | | | | | |
|-----|-------|--------|-------|---------|-------|--------|-------|---------|----|-------|-------|
| Age | Px | Mid Px | Qx | Risk Qx | Lx | Mid Lx | Mx | Risk Mx | Ex | Vx | Сх |
| 0 | 0.827 | 0.892 | 0.173 | 101.367 | 1.000 | 0.914 | 0.000 | 101.367 | | 1.095 | 0.089 |
| 1 | 0.970 | 0.980 | 0.030 | 99.511 | 0.827 | 0.815 | 0.005 | 99.511 | | 1.259 | 0.078 |
| 2 | 0.989 | 0.981 | 0.011 | 93.612 | 0.802 | 0.798 | 0.037 | 93.613 | | 1.313 | 0.074 |
| 3 | 0.972 | 0.986 | 0.028 | 88.130 | 0.794 | 0.783 | 0.178 | 88.133 | | 1.335 | 0.071 |
| 4 | 1.000 | 0.982 | 0.000 | 82.159 | 0.772 | 0.772 | 0.129 | 82.161 | | 1.203 | 0.068 |
| 5 | 0.964 | 0.956 | 0.036 | 81.310 | 0.772 | 0.758 | 0.189 | 81.313 | | 1.122 | 0.065 |
| 6 | 0.948 | 0.966 | 0.052 | 74.688 | 0.744 | 0.724 | 0.157 | 74.689 | | 1.001 | 0.061 |
| 7 | 0.986 | 0.985 | 0.014 | 68.953 | 0.705 | 0.700 | 0.139 | 68.955 | | 0.896 | 0.057 |
| 8 | 0.985 | 0.945 | 0.015 | 65.786 | 0.695 | 0.690 | 0.234 | 65.791 | | 0.788 | 0.055 |
| 9 | 0.905 | 0.925 | 0.095 | 60.156 | 0.685 | 0.652 | 0.203 | 60.162 | | 0.602 | 0.051 |
| 10 | 0.947 | 0.937 | 0.053 | 54.847 | 0.620 | 0.603 | 0.110 | 54.849 | | 0.443 | 0.046 |
| 11 | 0.926 | 0.921 | 0.074 | 51.671 | 0.587 | 0.565 | 0.058 | 51.673 | | 0.364 | 0.042 |
| 12 | 0.915 | 0.944 | 0.085 | 45.652 | 0.544 | 0.520 | 0.098 | 45.655 | | 0.341 | 0.037 |
| 13 | 0.976 | 0.963 | 0.024 | 41.786 | 0.497 | 0.491 | 0.037 | 41.787 | | 0.264 | 0.034 |
| 14 | 0.949 | 0.921 | 0.051 | 38.022 | 0.485 | 0.473 | 0.080 | 38.027 | | 0.242 | 0.032 |
| 15 | 0.892 | 0.871 | 0.108 | 35.214 | 0.461 | 0.436 | 0.102 | 35.215 | | 0.180 | 0.029 |
| 16 | 0.847 | 0.781 | 0.153 | 29.844 | 0.411 | 0.379 | 0.092 | 29.845 | | 0.092 | 0.025 |
| 17 | 0.704 | 0.783 | 0.296 | 24.277 | 0.348 | 0.297 | 0.000 | 24.278 | | 0.000 | 0.019 |
| 18 | 0.895 | 0.913 | 0.105 | 18.888 | 0.245 | 0.232 | 0.000 | 18.888 | | 0.000 | 0.014 |
| 19 | 0.933 | 0.931 | 0.067 | 14.721 | 0.219 | 0.212 | 0.000 | 14.721 | | 0.000 | 0.013 |
| 20 | 0.929 | 0.802 | 0.071 | 13.216 | 0.205 | 0.197 | 0.000 | 13.216 | | 0.000 | 0.012 |
| 21 | 0.667 | 0.743 | 0.333 | 10.663 | 0.190 | 0.158 | 0.000 | 10.663 | | 0.000 | 0.009 |
| 22 | 0.857 | 0.692 | 0.143 | 6.463 | 0.127 | 0.118 | 0.000 | 6.463 | | 0.000 | 0.007 |
| 23 | 0.500 | 0.667 | 0.500 | 4.414 | 0.109 | 0.081 | 0.000 | 4.414 | | 0.000 | 0.004 |
| 24 | 1.000 | 0.833 | 0.000 | 3.000 | 0.054 | 0.054 | 0.000 | 3.000 | | 0.000 | 0.003 |
| 25 | 0.667 | 0.600 | 0.333 | 2.507 | 0.054 | 0.045 | 0.000 | 2.507 | | 0.000 | 0.002 |
| 26 | 0.500 | 0.667 | 0.500 | 1.384 | 0.036 | 0.027 | 0.000 | 1.384 | | 0.000 | 0.001 |

| | FEMALES | | | | | | | | | | |
|-----|---------|--------|-------|---------|-------|--------|-------|---------|-------|-------|-------|
| Age | Px | Mid Px | Qx | Risk Qx | Lx | Mid Lx | Mx | Risk Mx | Ex | Vx | Сх |
| 0 | 0.905 | 0.908 | 0.095 | 105.022 | 1.000 | 0.952 | 0.000 | 105.022 | 7.829 | 1.050 | 0.139 |
| 1 | 0.912 | 0.929 | 0.088 | 97.473 | 0.905 | 0.865 | 0.021 | 97.473 | 7.518 | 1.175 | 0.124 |
| 2 | 0.947 | 0.917 | 0.053 | 93.160 | 0.825 | 0.803 | 0.080 | 93.160 | 7.018 | 1.263 | 0.113 |
| 3 | 0.884 | 0.897 | 0.116 | 85.026 | 0.782 | 0.737 | 0.194 | 85.026 | 6.565 | 1.311 | 0.102 |
| 4 | 0.910 | 0.886 | 0.090 | 74.384 | 0.691 | 0.660 | 0.250 | 74.384 | 6.207 | 1.267 | 0.090 |
| 5 | 0.859 | 0.869 | 0.141 | 65.504 | 0.629 | 0.585 | 0.215 | 65.504 | 5.878 | 1.166 | 0.078 |
| 6 | 0.881 | 0.871 | 0.119 | 53.904 | 0.541 | 0.508 | 0.353 | 53.904 | 5.612 | 1.113 | 0.067 |
| 7 | 0.860 | 0.827 | 0.140 | 45.734 | 0.476 | 0.443 | 0.460 | 45.734 | 5.293 | 0.886 | 0.057 |
| 8 | 0.789 | 0.802 | 0.211 | 38.611 | 0.410 | 0.366 | 0.133 | 38.611 | 5.189 | 0.524 | 0.047 |
| 9 | 0.818 | 0.833 | 0.182 | 30.633 | 0.323 | 0.294 | 0.241 | 30.633 | 5.224 | 0.496 | 0.037 |
| 10 | 0.852 | 0.811 | 0.148 | 24.948 | 0.265 | 0.245 | 0.061 | 24.948 | 5.069 | 0.310 | 0.030 |
| 11 | 0.764 | 0.839 | 0.236 | 20.153 | 0.225 | 0.199 | 0.050 | 20.153 | 5.015 | 0.312 | 0.024 |
| 12 | 0.938 | 0.864 | 0.063 | 15.926 | 0.172 | 0.167 | 0.031 | 15.926 | 4.786 | 0.318 | 0.020 |
| 13 | 0.786 | 0.880 | 0.214 | 12.732 | 0.161 | 0.144 | 0.164 | 12.732 | 4.382 | 0.337 | 0.017 |
| 14 | 1.000 | 0.900 | 0.000 | 10.268 | 0.127 | 0.127 | 0.200 | 10.268 | 3.843 | 0.200 | 0.015 |
| 15 | 0.800 | 0.825 | 0.200 | 8.521 | 0.127 | 0.114 | 0.000 | 8.521 | 3.159 | 0.000 | 0.013 |
| 16 | 0.857 | 0.654 | 0.143 | 7.658 | 0.101 | 0.094 | 0.000 | 7.658 | 2.615 | 0.000 | 0.011 |
| 17 | 0.417 | 0.588 | 0.583 | 3.000 | 0.087 | 0.062 | 0.000 | 3.000 | 2.471 | 0.000 | 0.007 |
| 18 | 1.000 | 1.000 | 0.000 | 2.000 | 0.036 | 0.036 | 0.000 | 2.000 | 2.500 | 0.000 | 0.004 |
| 19 | 1.000 | 0.500 | 0.000 | 1.066 | 0.036 | 0.036 | 0.000 | 1.066 | 1.500 | 0.000 | 0.004 |
| 20 | 0.000 | 0.000 | 1.000 | 0.833 | 0.036 | 0.018 | 0.000 | 0.833 | 1.000 | 0.000 | 0.002 |

E. Ordered Mean Kinship List

These lists are current to June 2022 and values are subject to change with any birth/hatch, death, import, export, inclusion, exclusion, or changes in pedigree or pedigree assumptions. Unknown sexed animals appear on both the male and female side of the mean kinship list and are designated by a 'U' after the studbook ID.

Population MK = 0.1198

| | | Ma | ales | |
|-----|--------|-------|------|-----------|
| ID | MK | Known | Age | Location |
| 275 | 0.0000 | 100 | 7 | SANDIEGOZ |
| 290 | 0.0649 | 100 | 1 | SANDIEGOZ |
| 219 | 0.0762 | 100 | 12 | TULSA |
| 222 | 0.0762 | 100 | 12 | NORFOLK |
| 221 | 0.0833 | 100 | 12 | NZP-WASH |
| 225 | 0.0849 | 100 | 16 | SANDIEGOZ |
| 235 | 0.0896 | 100 | 8 | CHICAGOBR |
| 237 | 0.0896 | 100 | 8 | SANDIEGOZ |
| 239 | 0.0896 | 100 | 8 | SANDIEGOZ |
| 242 | 0.0896 | 100 | 6 | SANDIEGOZ |
| 243 | 0.0896 | 100 | 6 | SANDIEGOZ |
| 274 | 0.0896 | 100 | 2 | SANDIEGOZ |
| 276 | 0.0896 | 100 | 2 | SANDIEGOZ |
| 281 | 0.0896 | 100 | 1 | SANDIEGOZ |
| 283 | 0.0896 | 100 | 1 | SANDIEGOZ |
| 236 | 0.0967 | 100 | 8 | SANDIEGOZ |
| 246 | 0.1048 | 100 | 6 | SANDIEGOZ |
| 247 | 0.1048 | 100 | 6 | SANDIEGOZ |
| 252 | 0.1048 | 100 | 6 | SANDIEGOZ |
| 285 | 0.1052 | 100 | 1 | DALLAS |
| 209 | 0.1222 | 100 | 13 | HOUSTON |
| 208 | 0.1243 | 100 | 13 | TOLEDO |
| 277 | 0.1392 | 100 | 2 | SANDIEGOZ |
| 279 | 0.1392 | 100 | 2 | SANDIEGOZ |
| 284 | 0.1392 | 100 | 1 | SANDIEGOZ |
| 216 | 0.1536 | 100 | 13 | FORTWORTH |
| 257 | 0.1618 | 100 | 4 | LOWRY |
| 260 | 0.1618 | 100 | 4 | SAN ANTON |
| 261 | 0.1618 | 100 | 4 | LOWRY |
| 262 | 0.1618 | 100 | 4 | DENVER |
| 265 | 0.1618 | 100 | 3 | LOWRY |
| 266 | 0.1618 | 100 | 3 | OKLAHOMA |
| 267 | 0.1618 | 100 | 3 | KNOXVILLE |
| 268 | 0.1618 | 100 | 3 | BUFFALO |
| 269 | 0.1618 | 100 | 3 | LOWRY |
| 251 | 0.1728 | 100 | 5 | SANDIEGOZ |

| Females | | | | | | | | |
|---------|--------|-------|-----|-----------|--|--|--|--|
| ID | MK | Known | Age | Location | | | | |
| 230 | 0.0236 | 100 | 14 | SANDIEGOZ | | | | |
| 288 | 0.0649 | 100 | 0 | SANDIEGOZ | | | | |
| 289 | 0.0649 | 100 | 0 | SANDIEGOZ | | | | |
| 227 | 0.0849 | 100 | 16 | SANDIEGOZ | | | | |
| 241 | 0.0896 | 100 | 6 | SANDIEGOZ | | | | |
| 273 | 0.0896 | 100 | 3 | SANDIEGOZ | | | | |
| 282 | 0.0896 | 100 | 1 | SANDIEGOZ | | | | |
| 199 | 0.1014 | 100 | 17 | HOUSTON | | | | |
| 286 | 0.1052 | 100 | 1 | DALLAS | | | | |
| 212 | 0.1182 | 100 | 13 | NZP-WASH | | | | |
| 232 | 0.1210 | 100 | 11 | SANDIEGOZ | | | | |
| 278 | 0.1392 | 100 | 2 | SANDIEGOZ | | | | |
| 280 | 0.1392 | 100 | 2 | SANDIEGOZ | | | | |
| 224 | 0.1612 | 100 | 11 | FORTWORTH | | | | |
| 249 | 0.1618 | 100 | 5 | SANDIEGOZ | | | | |
| 250 | 0.1618 | 100 | 5 | SANDIEGOZ | | | | |
| 256 | 0.1618 | 100 | 4 | CHICAGOBR | | | | |
| 258 | 0.1618 | 100 | 4 | LOWRY | | | | |
| 263 | 0.1618 | 100 | 3 | LOWRY | | | | |
| 264 | 0.1618 | 100 | 3 | LOWRY | | | | |

F. Definitions

Management Terms (as of December 2021)

Green Species Survival Plan® (**Green SSP) Program** – A Green SSP Program has a population size of 50 or more animals and is projected to retain 90% gene diversity for a minimum of 100 years or 10 generations. Green SSP Programs are subject to AZA's Full Participation and Sustainability Partner Policies.

Yellow Species Survival Plan° **(Yellow SSP) Program –** A Yellow SSP Program has a population size of 50 or more animals but cannot retain 90% gene diversity for 100 years or 10 generations. Yellow SSP participation by AZA facilities is voluntary. Yellow SSP Programs are subject to AZA's Sustainability Partner Policy.

Red Species Survival Plan® (Red SSP) Program – A Red SSP Program has a population size of twenty or more animals managed among three or more participating AZA facilities. If a population does not meet these minimum criteria, but has an IUCN designation of Critically Endangered, Endangered, or Extinct in the Wild, and the TAG has developed three goals to sustain this population, then the population will be considered a Red SSP Program. Red SSPs cannot retain 90% gene diversity for 100 years or 10 generations and participation by AZA facilities is voluntary. Red SSP Programs are subject to AZA's Sustainability Partner Policy.

Candidate Program – A Candidate Program either has a population size of fewer than twenty individuals and/or found at fewer than three AZA facilities or it does not yet have a completed studbook so the population size is unclear. A Candidate Program is overseen by the TAG, with no additional AZA accountability requirements.

Sustainability Partners – AZA Animal Population Management (APM) Committee approved wildlife facilities that regularly exchange animals with AZA-accredited facilities and certified related facilities, typically as part of the Species Survival Plan® (SSP) Program Breeding and Transfer Plan or other SSP Program management process.

Full Participation – AZA policy stating that all AZA accredited facilities and certified related facilities having a Green SSP animal in their collection are required to participate in the collaborative SSP planning process (e.g., provide relevant animal data to the AZA Studbook Keeper, assign an Institutional Representative who will communicate facility wants and needs to the SSP Coordinator and comment on the draft plan during the 30-day review period, and abide by the recommendations agreed upon in the final plan).

All AZA member facilities and Animal Programs, regardless of management designation, must adhere to the AZA Policy on Responsible Population Management and the AZA Code of Professional Ethics. For more information on AZA policies, see https://www.aza.org/board-approved-policies-and-position-statements.

Currentness Date – The date when the entire studbook is updated. This equates to the first date you received an update after requesting updates from all the facilities included in your studbook.

Demographic Terms

Age Distribution – A visual representation of the numbers or percentages of individuals in various age and sex classes.

Ex, **Life Expectancy** – The average years of further life for an animal in age class x.

Lambda (λ) or Population Growth Rate – The proportional change in population size from one year to the next. A lambda of 1.11 means an 11% per year increase; a lambda of 0.97 means a 3% decline in size per year. The three lambdas highlighted in this BTP are: 1) Life Table, from the PMx life tables, the change in the population based on the demographic regional and date window exported from the studbook, the life table lambda is the rate at which the population would be expected to grow (in the future) given the birth and death rates reported in the life tables and assuming a stable age distribution (does NOT factor in imports or exports); 2) 5-year, from the studbook census, the 5-year lambda is calculated from observed changes in population size over the last 5 years and includes births, deaths, imports and exports; and 3) Projected, from the PMx stochastic 20-year projections (includes confidence intervals), models how the population is predicted to grow or decline over the next 20 years given the birth and death rates from the life tables and the age structure of the current population.

Ix, Age-Specific Survivorship – The probability that a new individual (e.g., age 0) is alive at the *beginning* of age *x*. Alternatively, the proportion of individuals which survive from birth to the beginning of a specific age class.

Mean Generation Time (T) – The average time elapsing from reproduction in one generation to the time the next generation reproduces. Also, the average age at which a female (or male) produces offspring. It is not the age of first reproduction. Males and females often have different generation times.

Median Life Expectancy (MLE) – The 'typical' age at which an average animal is expected to live; 50% will die before the median life expectancy and 50% die after. The MLE reported in Breeding and Transfer Plans (BTPs) and Survival Stats Reports, does excludes individuals that did not survive to their first birthday. The MLE obtained from population management software (PM2000, PMx, ZooRisk) or from life tables in BTPs (e.g., where Lx = 0.5) will be lower because they include those individuals that did not survive to their first birthday in order to project the correct number of births needed. A Survival Statistics Library is maintained for most AZA Animal Programs on the AZA website: https://www.aza.org/species-survival-statistics.

Maximum Longevity – The maximum age at which we have observed a species to live. If the oldest observed animal is currently living, we do not yet know the maximum longevity.

Mx, **Fecundity** – The average number of same-sexed offspring born to animals in that age class. Because studbooks typically have relatively small sample sizes, studbook software calculates Mx as 1/2 the average number of offspring born to animals in that age class. This provides a somewhat less "noisy" estimate of Mx, though it does not allow for unusual sex ratios. The fecundity rates provide information on the age of first, last, and maximum reproduction.

Px, **Age-Specific Survival** – The probability that an individual of age *x* survives an age class; is conditional on an individual being alive at the beginning of the age class. Alternatively, the proportion of individuals that survive from the beginning of one age class to the next.

Qx, Mortality – The probability that an individual of age x dies during an age class (Qx = 1-Px). Alternatively, the proportion of individuals that die during an age class. It is calculated from the number of animals that die during an age class divided by the number of animals that were alive at the beginning of the age class (i.e., "at risk").

Risk (Qx or Mx) – The number of individuals that have lived during an age class. The number "at risk" is used to calculate Mx and Qx by dividing the number of births and deaths that occurred during an age class by the number of animals at risk of dying and reproducing during that age class.

Target Population Size (TPS) – The desired number of SSP animals to be held across AZA and approved partner facilities over a specific, stated timeframe. This number is determined with consideration for program roles and goals (genetic, demographic, and others), logistical constraints, spatial competition with other TAG-managed species, and other population-specific concerns. Target Population Size is determined by the Taxon Advisory Group (TAG) and published in their Regional Collection Plan (RCP).

Vx, Reproductive Value – The expected number of offspring produced this year and in future years by an animal of age x.

Genetic Terms

Allele – Alternate forms of DNA at a particular position in a genome (genetic locus). Alleles represent the most basic form of genetic diversity.

Gene Diversity (GD) – The probability that two alleles randomly sampled from the same genetic locus across a population are not identical by descent. Gene diversity is calculated relative to a population's founders, which are assumed to be unrelated and not inbred, and is the proportional diversity retained by the current, descendant population.

Effective Population Size (N_e) – The size of a randomly mating population of constant size with equal sex ratio and a Poisson distribution of family sizes that would (a) result in the same mean rate of inbreeding as that observed in the population, or (b) would result in the same rate of random change in allele frequencies (genetic drift) as observed in the population. These two definitions are identical only if the population is demographically stable (because the rate of inbreeding depends on the distribution of alleles in the parental generation, whereas the rate of allele frequency drift is measured in the current generation). More specifically, PMx software uses the definition as the size of the current population that have produced offspring, assuming that there are current breeders, that these current breeders have a Poisson distribution of family sizes, that none of the current breeders are now post-reproductive, and none of the not-vet-breeding adults will breed.

Founder – An individual obtained from a source population (often the wild) that has no known relationship to any individuals in the derived population (except for its own descendants).

Founder Genome Equivalents (FGE) – The number of wild-caught individuals (founders) that represent the same amount of gene diversity as does the population under study. The gene diversity of a population is 1 - 1 / (2 * FGE).

Founder Representation – The proportion of the alleles in the living, descendant population that are derived from that founder.

Inbreeding Coefficient (F) – The probability that the two alleles present at an individual's genetic locus are identical by descent (i.e., both alleles originated from an ancestor common to both the individual's parents).

Mean Kinship (MK) – The mean (or average) kinship coefficient between an animal and all animals (including itself) in the living, captive-born population. An individual's mean kinship is a measure of how well its alleles are represented within a population. Animals with low mean kinships have few relatives, are from under-represented founder lineages, and have transmitted few of their alleles to the next generation; these individuals should be prioritized for breeding to slow a population's gene diversity loss.

Percent Known – The percentage of an animal's genome that is traceable to known founders. Thus, if an animal has an UNK sire, its % Known = 50. If it has an UNK grandparent, its % Known = 75.

Percent Certain – The percentage of the living individuals' pedigree that can be completely identified as *certain*: (exact identity of both parents is known) and traceable back to known founders. Individuals that are 100% *certain* do not have any MULTs or UNKs in their pedigree. *Certainty* represents a higher degree of knowledge than *Known* and therefore is always less than or equal to *Known*.

G.AZA Animal Population Management (APM) Committee Disclaimers

This Animal Program is currently a Yellow SSP and recommendations proposed are non-binding – participation is voluntary. Transfers to non-AZA facilities must comply with each facility's acquisition/transfer policy, in accordance with the AZA Policy on Responsible Population Management. APM Committee-approved Sustainability Partners are expected to agree and abide by AZA's Code of Professional Ethics, SSP Full Participation Policy, Policy on Responsible Population Management, and Accreditation Standards related to animal care and welfare.

H. Directory of Institutional Representatives

| Contact Name (IR or Advisor) | Mnemonic – Facility Name | Email Address | Phone |
|---------------------------------|--|---------------------------------|-----------------------|
| Robert Hill | ATLANTA Zoo Atlanta | rhill@zooatlanta.org | |
| Ann Meyer | AUDUBON Audubon Zoo | ameyer@auduboninstitute.org | |
| Allison Malkowski | BISMARCK Dakota Zoo | asdirect@dakotazoo.org | |
| Lisa Smith | BUFFALO Buffalo Zoo | lsmith@buffalozoo.org | |
| William Hughes | CHATTANOO Tennessee Aquarium | bhh@tnaqua.org | |
| Tim Snider | CHICAGOBR Brookfield Zoo | tim.snider@czs.org | |
| Tad Schoffner | CLEVELAND Cleveland Metroparks Zoo | tad@clevelandmetroparks.com | 216-661-6500 x3332 |
| Thomas Owens | DALLAS Dallas Zoo | tommy.owens@dallaszoo.com | |
| Thomas Weaver | DENVER Denver Zoo | tweaver@denverzoo.org | |
| Jeff Jundt | DETROIT Detroit Zoological Society | jjundt@dzs.org | |
| Erik Beck | EVANSVLLE Mesker Park Zoo | ebeck@meskerparkzoo.com | |
| Diane Barber | FORTWORTH Fort Worth Zoo | dbarber@fortworthzoo.org | 817-759-7180 |
| Mark Halvorsen | FRESNO Fresno Chaffee Zoo | mhalvorsen@fresnochaffeezoo.org | 559-492-4438 |
| Laura Debnar | HONOLULU Honolulu Zoo | ldebnar@honolulu.gov | 808-768-7161 |
| Joann Watson | HOUSTON Houston Zoo, Inc. | jwatson@houstonzoo.org | |
| Phil Colclough | KNOXVILLE Zoo Knoxville | pcolclough@zooknoxville.org | |
| Ian Recchio | LOSANGELE Los Angeles Zoo | lan.recchio@lacity.org | |
| Dan Costell | LOWRY Tampa's Lowry Park Zoo | dan.costell@zootampa.org | 813-935-8552 x258 |
| Dennis McNamara | NORFOLK Virginia Zoological Park | dennis.mcnamara@norfolk.gov | 757-576-6262 |
| Matt Evans | NZP-WASH Smithsonian National Zoological Park | evansmj@si.edu | 202-633-3252 |
| Seamus Ehrhard | OKLAHOMA Oklahoma City Zoo | sehrhard@okczoo.org | |
| Craig Pelke | SAN ANTON San Antonio Zoo | craig.pelke@sazoo.org | 210-734-7184 x1340 |
| Kim Gray - SSP Coordinator | SANDIEGOZ San Diego Zoo | kgray@sdzwa.org | 619-557-3984 |
| Nate Nelson | SEDGWICK Sedgwick County Zoo | Nate.Nelson@scz.org | |
| Daniel Meates | SYRACUSE Rosamond Gifford Zoo at Burnet Park | danmeates@ongov.net | |
| John Chastain | TOLEDO Toledo Zoological Gardens | john.chastain@toledozoo.org | |
| Rick Vos | TORONTO Toronto Zoo | rvos@torontozoo.ca | |
| Erik Kalen | TULSA Tulsa Zoo | ekalen@tulsazoo.org | 918-669-6535 |

Fiji Banded Iguana (Brachylophus bulabula) AZA Animal Program Population Viability Analysis Report

Population BiologistBrent Johnson,
bjohnson@lpzoo.org

AZA Animal Program Leader & Regional Studbook Keeper Kim Lovich, klovich@sandiegozoo.org

AZA Lizard TAG ChairBrian Aucone,
baucone@denverzoo.org



May 21st, 2015

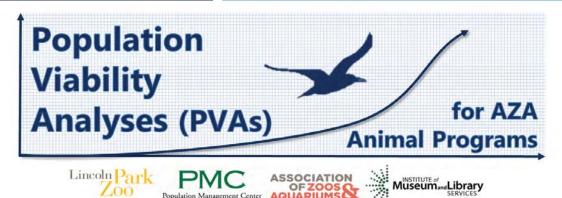


TABLE OF CONTENTS

| EXECUTIVE SUMMARY | 2 |
|---|----|
| POPULATION VIABILITY ANALYSIS (PVA) APPROACH | 3 |
| POPULATION HISTORY AND CURRENT STATUS | 4 |
| MODEL SCENARIOS | 7 |
| POPULATION VIABILITY UNDER CURRENT MANAGEMENT | 8 |
| ALTERNATE MODEL SCENARIOS | 9 |
| MANAGEMENT ACTIONS | 11 |
| CONCLUSIONS | 11 |
| ACKNOWLEDGEMENTS | 12 |
| LITERATURE CITED | 13 |
| DEFINITIONS | 14 |
| APPENDICES | 15 |

EXECUTIVE SUMMARY

Population Viability Analyses (PVA) are being conducted by Lincoln Park Zoo and Population Management Center researchers through funding from the Institute of Museum and Library Services (IMLS). The project team uses ZooRisk 3.80 (Earnhardt et al. 2008), a PVA modeling software, to examine what would happen to AZA populations if current conditions remain the same (the baseline scenario), and then assess the impact of changes in reproductive rates, space availability, imports/exports, or other potential management actions (alternate scenarios). Model scenarios for this population were developed with members of the Association of Zoos and Aquarium (AZA) Lizard Taxon Advisory Group (TAG) during winter of 2015.

POPULATION HISTORY/CURRENT STATUS

Fiji banded iguanas (*Brachylophus bulabula*) have been consistently held in AZA institutions since 1973. Through a combination of zoo hatches and infrequent importation from outside of the AZA population, the population grew to approximately 70 individuals in 1995 and remained near that size until 2011. Breeding was limited during the next two years due to changes in program leadership and investigation of the ancestry of potential *Brachylophus bulabula* x *B. fasciatus* hybrid individuals. Currently, the Fiji banded iguana population includes 53 individuals held among 18 institutions. Over the past 10 years, the population averaged 3.8 hatches (or 4.5 hatches if excluding years with intentionally limited breeding) and 0.4 imports (via confiscations) per year. The population's gene diversity is 90.45% and its inbreeding is above the equivalent of mating between first cousins (average inbreeding coefficient [F] of 0.065).

PROGRAM CHALLENGES

One institution holds 43% of the current potential breeding population but has produced all 38 hatches within the past decade. Purposefully focusing breeding efforts at a single institution may be a valuable management strategy for developing optimal husbandry practices and increasing hatch rates. However, doing so may also make a population more vulnerable to catastrophic events, such as disease outbreaks or natural disasters. Another potential challenge for this population is difficulty in importing new individuals. Because of the species' endangered status in the wild and other legal constraints, future imports are only likely to come in the form of infrequent confiscations from private holders. Lastly, it has been determined that, due to the complexity of Operational Taxonomic Units (OTUs) within the Fijian iguana species complex, the AZA Fiji banded iguana program should be maintained for the purposes of husbandry development, research, and fundraising efforts for in situ conservation.

PVA RESULTS

Model results indicate that under current management practices, the population will decline over the next 100 years. However, increased breeding is predicted to allow the Fiji banded iguana population to stabilize over the next 100 years. If importation via confiscations continues to occur at its current rate, increasing breeding to a minimum of 5 to 6 hatches/year could potentially maintain the population near its current size with a low extinction risk, although the majority of projected population sizes vary between 15 and 87 individuals. In order to grow the population to a more stable average size of 120 individuals in approximately 11 years, breeding would need to be increased further to an average of 13 to 14 hatches/year over the next decade. A population of 120 individuals could retain between 83.8% and 94.8% gene diversity over the next 100 years, depending on whether or not confiscated animals are received.

MANAGEMENT ACTIONS

Given the current challenges for the Fiji banded iguana population, PVA results indicate that the following changes in management should be considered in an effort to improve this population's sustainability. Note that the PVA allows us to compare between these hypothetical changes, but cannot evaluate whether achieving these changes is feasible, practical, or desirable given the program's constraints.

- To remain demographically stable, increase breeding rates: If breeding is slightly increased from an average of ~4.5 hatches per year to a minimum of 5 to 6 hatches each year, the Fiji banded iguana population could potentially remain near its current size with a low risk of extinction, given continued imports. However, producing an average of 13 to 14 hatches per year could allow the population to grow to fill 120 potential spaces in approximately 11 years and reduce its reliance on imports. By increasing to fill space, the population would have greater demographic stability and retain better genetic health over the next 100 years.
- To equalize founder representation and reduce risk, fulfill breeding recommendations: In the past decade, a single institution produced all hatches in the Fiji banded iguana population. However, individuals at many other institutions have received breeding recommendations in the program's most recent Breeding & Transfer Plan. As these recommendations are fulfilled, a more even representation of founder lineages among zoos and aquariums can be ensured. Additionally, managers can share husbandry knowledge and reduce risks associated with catastrophic events at a single location (e.g., disease outbreaks, natural disasters).

FULL REPORT

POPULATION VIABILITY ANALYSIS (PVA) APPROACH

A Population Viability Analysis (PVA) is a model that projects the likely future status of a population. PVAs are used to evaluate long-term demographic and genetic sustainability and extinction risk, identify key factors impacting a population's dynamics, and compare alternative management strategies.

This PVA utilizes ZooRisk, a computer software package that models the future dynamics of a cooperatively-bred population using that population's age and sex structure, mortality and reproductive rates, and genetic structure (Earnhardt et al., 2008). ZooRisk is individual-based, meaning it tracks every animal (current and future) in the population over time. It also includes stochasticity, the randomness in mortality, fecundity, and birth/hatch sex ratios among individuals, which is especially important for small populations. Because of this stochasticity, we run each model many times, allowing us to determine the range of potential outcomes a population could experience under a given set of conditions.

The most powerful use of PVAs is to compare a baseline scenario, reflecting the population's likely future trajectory if no management changes are made, to alternate scenarios reflecting potential management changes. For zoo and aquarium populations, these alternate scenarios typically involve varying breeding rates (probability of breeding), potential space for the population, importation or exportation rates, mortality rates, or genetic management strategies. These comparisons can help evaluate the relative costs and benefits of possible management actions. Because the future can be uncertain and difficult to predict, model results are most appropriately used to compare between scenarios (e.g. relative to each other) rather than as absolute predictions of what will happen.

Full documentation on ZooRisk can be found in the software's manual (Faust et al., 2008); complete details on the modeling approach for this PVA, including data sources, parameter values, and model setup, can be found in Appendix A.

POPULATION HISTORY AND CURRENT STATUS

Demographics

Based on the North American Fiji Banded Iguana Studbook (Lovich, 2014), Fiji banded iguanas have been consistently held in AZA institutions since 1973, although the population was sustained mostly via imports and remained small (<15 individuals) until 1989 (Figs. 1 and 2a). (Note that throughout this report, "imports" are animals entering AZA institutions which may be coming from outside sources such as the private sector, zoos in other regions, or the wild, and conversely "exports" are animals exiting AZA institutions and going into non-AZA populations, such as other zoo regions). In 1989, regular breeding of Fiji banded iguanas in zoos and aquariums began (Fig. 2a). The population then grew to approximately 70 individuals by 1995 and remained near that size until 2011 (Fig. 1). During the following two years, breeding was limited as the program changed

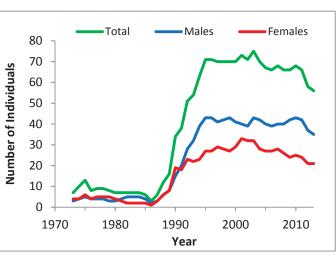


Figure 1. Number of Fiji banded iguanas in AZA institutions since 1973.

leadership and the ancestry of potential Brachylophus bulabula x B. fasciatus hybrids was investigated (Lovich and Ivy, 2013).

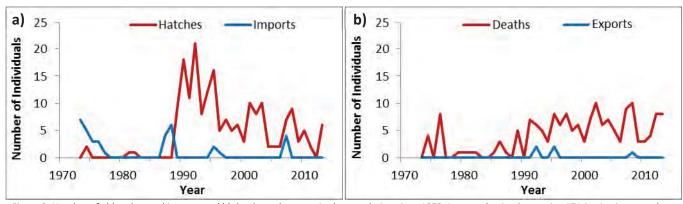


Figure 2. Number of a) hatches and imports and b) deaths and exports in the population since 1973. Imported animals entering AZA institutions may be coming from the private sector, other zoo regions, or the wild; exported animals may be going to other institutions outside of AZA in North America or other regions.

Over the last 10 years (2004-2013, based on the studbook currentness date, December 1st, 2014), the AZA population of Fiji banded iguanas decreased in size from 70 to 53 individuals at an average annual rate of -2.9%, although specific annual growth rates ranged from -12.1% to +3.0% (Table 1). The population has declined at an average rate of -3.2% within the past five years. In the past decade, the population averaged 3.8 hatches each year (which corresponds to each female having an 8.3% probability of breeding in a given year; see Appendix A). Note that these

Table 1. Summary of demographic statistics for the population.

| Population Sizes | Total (male.female.unknown) | | | | |
|--|---|--|--|--|--|
| Current population | 53 (33.20.0) | | | | |
| Potentially breeding population | 46 (27.19.0) | | | | |
| Annual rates over the last decade | Mean (min-max) | | | | |
| Population Growth (Lambda, λ) | 0.971 (0.879-1.030) | | | | |
| Hatches | 3.8 (0-9) | | | | |
| Deaths | 6.0 (3-10) | | | | |
| Imports | 0.4 (0-4) | | | | |
| Exports | 0.1 (0-1) | | | | |
| Population Growth (Lambda, λ) Hatches Deaths Imports | 0.971 (0.879-1.030) 3.8 (0-9) 6.0 (3-10) 0.4 (0-4) | | | | |

data include two years (2011-2012) in which managers limited breeding to investigate the ancestry of potential hybrid individuals. Excluding these two years, the population averaged 4.5 hatches per year over the past decade. The population also had an average of 0.4 imports and 0.1 exports per year in that timeframe (Fig. 2). The four imports were confiscations of wild individuals made by the U.S. Fish and Wildlife Service and the single export went to a non-AZA partner institution.

As of December 1st, 2014 (the studbook currentness date), the Fiji banded iguana population consisted of **53 individuals (33 males, 20 females)**. Seven animals (6 males, 1 female) are excluded from the breeding population based on being beyond the reproductive age window (2-18 for males, 2-17 for females; see Appendix A) or being sterile. In the model, these animals hold space until their death but do not breed. This leaves a **potentially breeding population of 46 (27.19) individuals**. See Appendix B for a complete list of the individuals included in the model and their reproductive status.

The Fiji banded iguana population includes many individuals in younger age classes and few in older age classes (Fig. 3a). However, there are gaps in several reproductive age classes and the potentially breeding population currently displays a male-biased sex ratio of 1.4 males per female (Fig. 3b). Because Fiji banded iguanas are bred in pairs and breeding is limited by the number of reproductive females, this male-biased sex ratio could lead to restrictions in the number of breeding pairs that can be formed if space becomes limited.

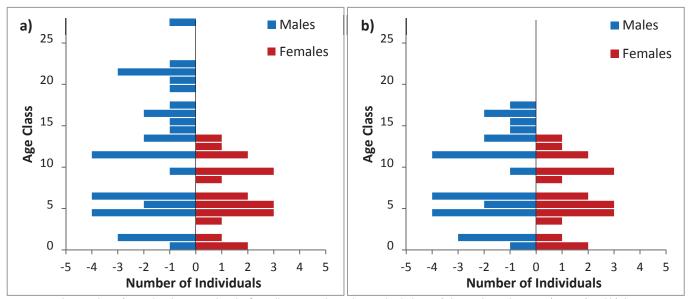


Figure 3. The population's age distribution within the formally managed population, divided into a) the total population 53 (33.20.0) and b) the potentially breeding population 46 (27.19.0).

Genetics

The pedigree of the Fiji banded iguana population is 100% known, and no analytical assumptions were necessary. The managed population is descended from 16 founders with one additional potential founder remaining (Lovich and Ivy, 2013). Current gene diversity is estimated to be 90.45%. As gene diversity falls, reproduction may become increasingly compromised by lower hatch weights, greater neonatal mortality, and other negative factors.

Table 2. Summary of starting genetic statistics for the population.

| Percentage of pedigree known | 100% |
|--|--------|
| Gene diversity (GD) | 90.45% |
| Population mean kinship (MK) | 0.0955 |
| Mean inbreeding (F) | 0.0646 |
| Mean generation time (T) (years) | 6.1 |
| Number of generations in 100 model years | 16.4 |

The population currently has a mean inbreeding level of 0.0646 (a mean inbreeding coefficient of 0.0625 is equivalent to mating between first cousins with no prior inbreeding). One of the largest genetic threats to small populations is the potential for inbreeding depression, in which breeding between close relatives results in reductions in fecundity or litter size, increases in infant mortality, and other detrimental effects (DeRose and Roff, 1999; Koeninger Ryan, et al., 2002; Ballou and Foose, 1996; Reed and Frankham, 2003). We found no significant effect of inbreeding on infant mortality (logistic regression using the offspring's inbreeding coefficient, N = 177 offspring, p > 0.26) or clutch size (Poisson regression using each of the offspring's, dam's, and sire's inbreeding coefficients, p > 0.54). However, we caution that these results do not mean that the population is entirely free of inbreeding depression historically nor that it will remain so in the future. Rather, these results

indicate that inbreeding depression is not detectable in these two traits at this time. Because modeling inbreeding depression adds an additional layer of complexity to interpretation of results, we do not include a "standard" inbreeding depression effect in the PVA models. There are several strategies that can delay the effects or lower the probability of inbreeding depression including pairing based on mean kinship and importing and breeding unrelated individuals (Ballou and Lacy, 1995). Genetic management was incorporated into our model setup unless otherwise specified. Because inbreeding depression is not included, readers should consider that model results may be optimistic if inbreeding depression begins to impact the population.

Management and Challenges

The AZA Fiji banded iguana population is currently designated as a Yellow Species Survival Plan® (SSP). The population is housed among 18 institutions, including eight with at least one potential breeding pair. However, the San Diego Zoo has served as the only breeding facility for this population in the past 10 years, producing all 38 hatches within AZA but holding 43% of the current potential breeding population. Purposefully focusing breeding efforts at a single institution may be a valuable management strategy for developing optimal husbandry practices and increasing hatch rates. However, doing so may also make a population more vulnerable to catastrophic events such as disease outbreaks or natural disasters, lead to genetic under-representation of individuals at other institutions, and limit husbandry knowledge among institutions. For these reasons, individuals at seven institutions were recently given breeding recommendations (Lovich and Ivy, 2013).

Since 2008, *Brachylophus bulabula* has been recognized as a distinct species from *B. fasciatus* (Keogh et al., 2008). However, due to the complexity of Operational Taxonomic Units (OTUs) within the Fijian iguana species complex, it has been determined that the AZA Fiji Banded Iguana Animal Program should not be maintained for the purpose of releasing individuals to the wild but rather for education via exhibit animals and to provide support and husbandry expertise for in situ conservation efforts.

Fiji banded iguanas are currently listed as Endangered in the wild, and **imports into the AZA population are only likely to continue via irregular confiscations** made by the U.S. Fish and Wildlife Service. A population of Fiji banded iguanas is also held by the European Association of Zoos and Aquaria (ZIMS-ISIS, 2014), but AZA is not able to legally import any of these animals due to their unknown origins. Additionally, **program managers do not anticipate exporting any iguanas out of AZA in the future.**

ZooRisk can include a space limitation on population growth, reducing breeding as the population approaches the potential space limit. This mimics the way a population manager would recommend fewer pairs when at capacity. To accurately model the "potential space" for a population, we use either a) the projected spaces in 5 years based on a TAG's Regional Collection Plan (RCP) or, if that value is unavailable or inappropriate, b) the current population size + 10% or 10 individuals, whichever is greater. These values are also placed in context of current institutional interest by the Program Leader. The most recent AZA Lizard TAG RCP (2013) does not include 5-year space estimates. However, it suggests a target size of 120 individuals for the Fiji banded iguana population because of high institutional interest in the species. Therefore, we allowed for 120 spaces in our modeled scenarios.

MODEL SCENARIOS

Model scenarios were created to reflect what would happen if current management approaches continued (baseline) and to address potential alternate management strategies (Table 3). Model setup is described more fully in Appendix A. Scenarios are described in more detail in the following sections.

Table 3. ZooRisk Model Scenarios

| Scenario Name | p(B) | Spaces | |
|---------------------------------|---|--------|-----|
| Baseline Scenarios | | | |
| A. Open baseline; p(B) = 8.3% | Reproduction to match past 10 years (3.8 hatches/year), imports to | 8.3% | 120 |
| | match past 10 years (0.4 imports/year) | | |
| B. Closed baseline; p(B) = 8.3% | Reproduction to match past 10 years (3.8 hatches/year), no imports | 8.3% | 120 |
| Alternate Scenarios | | | |
| C. Open; p(B) = 11% | Reproduction required to sustain current population size, imports to | | 120 |
| C. Open, p(5) 1170 | match past 10 years (0.4 imports/year) | 11% | 120 |
| D. Open; p(B) = 21% | Reproduction required to fill potential space, imports to match past 10 | | 120 |
| 5. open, p(5) 21/0 | years (0.4 imports/year) | 21% | 120 |
| E. Closed; p(B) = 21% | Reproduction required to fill potential space and minimize extinction | | 120 |
| L. Closea, ρ(b) – 21/0 | risk, no imports | 21% | 120 |

p(B) = Probability of Breeding

POPULATION VIABILITY UNDER CURRENT MANAGEMENT

BASELINE MODEL PVA RESULTS

We first examined the viability of the AZA Fiji banded iguana population as it was managed over the past 10 years ("open" baseline; Scenario A): 8.3% female probability of breeding (corresponding to 3.8 hatches/year in the past 10 years), imports via confiscations occurring similarly to those of the past decade (an average of 0.4 imports per year), no exports, and 120 potential spaces. Because importation via confiscations cannot be expected to occur in a predictable manner, we also evaluated the viability of the population under current management but closed to future imports ("closed baseline"; Scenario B). See Appendix A for more details on all model parameters.

Under management as it occurred over the past decade, the Fiji banded iguana population is expected to decline to about ~15 individuals during the next 100 years whether open or closed to further imports (Fig. 4, Table 4). Furthermore, the

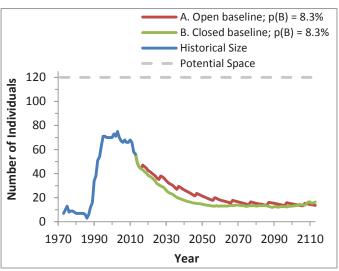


Figure 4. Historical and projected mean population size under the baseline model scenario. Projected results are averaged across 1000 model iterations.

population would be reliant on imports for maintaining a low extinction risk over that timeframe (5% risk in Scenario A vs. 97% risk in Scenario B; Table 4). With further imports, the population would have an Endangered risk status in zoos and aquariums because of only four pairs reproducing in the last generation (past ~6 years; see Appendix C). However, in the absence of imports, the population's risk status would increase to Critical due to its high risk of extinction.

Table 4. Baseline model results.

| | | | DEMOGRAPHICS | | | | | | GENETICS | | | |
|---|------------------------------|-------------------------------|------------------------------------|-------------------------------------|-----------------------------------|--|-------------------|---|--------------|-------------------------------|--|--|
| | SCENARIO | Initial Population Size | Size in Year 25 ¹ | Size in Year 100 ¹ | Probability of Reaching Space (%) | Probability of Extinction (%) | Initial GD (%) | GD Retained in Year 100 ¹ | Initial F | F in Year 100 ¹ | OVERALL POPULATION STATUS ² | |
| ļ | Open* baseline; p(B) = 8.3% | 53 | 28 ± 17 | 14 ± 12 | 0 | 5 | 90.5 | 78.6 ± 1.4* | 0.065 | 0.051 ± 0.072* | Endangered | |
| E | Closed baseline; p(B) = 8.3% | 53 | 19 ± 15 | 16 ± 19 | 0 | 97 | 90.5 | 49.7 ± 24.9 | 0.065 | 0.425 ± 0.222 | Critical | |

GD = gene diversity, F = inbreeding coefficient

¹ Mean value <u>+</u> 1 Standard Deviation, taken across 1000 iterations. If an iteration goes extinct that value is not included in the calculation. Some results may only reflect a few iterations in scenarios with a high probability of extinction.

²ZooRisk uses five standardized tests to give a summary risk score for each scenario, from Low Risk (most secure), Vulnerable, Endangered, to Critical (least secure). For more details on this score, see Appendix C.

^{*}Genetic results are likely optimistic as ZooRisk counts all imports as genetically unique potential founders (i.e., they unrelated to each other and the current population). In reality, it is likely that final GD would be lower and inbreeding higher than the results displayed in the table.

ALTERNATE MODEL SCENARIOS

Importation of Fiji banded iguanas via confiscations occurs unpredictably but could possibly continue at approximately the current rate of 0.4 new individuals/year. Under this rate of importation and breeding increased from 4 hatches/year to an average of 5 to 6 hatches/year, the Fiji banded iguana population could be sustained near its current size over the next 100 years (p(B) = 11%, Scenario C; Figs. 5 and 6, Table 5). Although the population is predicted, on average, to have 51 animals in 100 years, there is substantial variation around this predicted size (standard deviation [SD] = 36; Table 5) and the population has a 4 16% chance of having fewer than 15 animals remaining in 100 years. Assuming that all imports (an average of 0.4 imports/year, totaling to 40 over the next 100 years) would be genetically unique founders, the population would retain 86.3% gene diversity over the next century and would develop an average inbreeding coefficient of 0.080, which is above that of offspring resulting from mating between first cousins (F = 0.063).

Table 5. All model results.

| | | DEMOGRAPHICS | | | | | | GENE | | | |
|----|------------------------------|-------------------------------|------------------------------------|-------------------------------------|-----------------------------------|-------------------------------|-------------------|---|--------------|-------------------------------|--|
| | SCENARIO | Initial Population Size | Size in Year 25 ¹ | Size in Year 100 ¹ | Probability of Reaching Space (%) | Probability of Extinction (%) | Initial GD (%) | GD Retained in Year 100 ¹ | Initial F | F in Year 100 ¹ | OVERALL POPULATION STATUS ² |
| Α | Open* baseline; p(B) = 8.3% | 53 | 28 ± 17 | 14 ± 12 | 0 | 5 | 90.5 | 78.6 ± 1.4* | 0.065 | 0.051 ± 0.072* | Endangered |
| В | Closed baseline; p(B) = 8.3% | 53 | 19 ± 15 | 16 ± 19 | 0 | 97 | 90.5 | 49.7 ± 24.9 | 0.065 | 0.425 ± 0.222 | Critical |
| Al | ternate Scenarios | | | | | | | | | | |
| С | Open*; p(B) = 11% | 53 | 55 ± 29 | 51 ± 36 | 33 | 1 | 90.5 | 86.3 ± 8.0* | 0.065 | 0.080 ± 0.054* | Endangered |
| D | Open*; p(B) = 21% | 53 | 119 ± 8 | 119 ± 8 | 100 | 0 | 90.5 | 94.8 ± 0.8* | 0.065 | 0.055 ± 0.015* | Endangered |
| Ε | Closed; p(B) = 21% | 53 | 119 ± 10 | 119 ± 7 | 100 | 0.1 | 90.5 | 83.8 ± 1.1 | 0.065 | 0.152 ± 0.013 | Endangered |

GD = gene diversity, F = inbreeding coefficient

^{*}Genetic results are likely optimistic as ZooRisk counts all imports as genetically unique potential founders (i.e., they unrelated to each other and the current population). In reality, it is likely that final GD would be lower and inbreeding higher than the results displayed in the table.

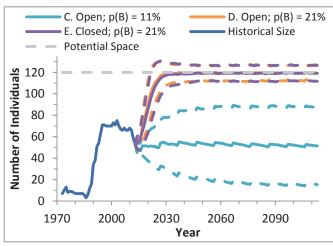


Figure 5. Historical and projected mean population size under alternate model scenarios with $\pm\,1$ standard deviation (dashed lines). Projected results are averaged across 1000 model iterations.

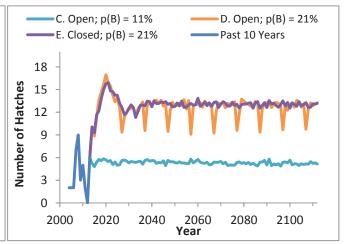


Figure 6. Number of total hatches in the population in the past decade and projected mean number of hatches under alternate model scenarios. Projected results are averaged across 1000 model iterations.

¹ Mean value ± 1 Standard Deviation, taken across 1000 iterations. If an iteration goes extinct that value is not included in the calculation, so results may only reflect a few iterations in scenarios with a high probability of extinction.

²ZooRisk uses five standardized tests to give a summary risk score for each scenario, from Low Risk (most secure), Vulnerable, Endangered, to Critical (least secure). For more details on this score, see Appendix C.

To improve the population's demographic stability and future genetic health, managers could increase the population to fill 120 potential spaces. Whether open or closed to further imports, the population could grow to fill potential spaces in approximately 11 years by producing an average of 13 to 14 hatches/year over the next 10 years, and $^{\sim}13$ hatches/year thereafter (p(B) = 21%, Scenarios D and E; Figs. 5 and 6, Table 5). Although Fiji banded iguanas are easily bred in zoos, 13 to 14 hatches/year could potentially be difficult to achieve given that the population has only produced as many as nine hatches in one of the last 10 years (2008; Fig. 6).

Depending on how many imports the population receives in future years and how related such imports are to each other, we can interpret the genetic results of Scenarios D and E to indicate that a population that is stable near 120 individuals could retain between 83.8% and 94.8% gene diversity and that inbreeding at 100 years could range from 0.055 to 0.152 (Table 5). For reference, a mating between first cousins generates an inbreeding coefficient [F] = 0.063 and a mating between half siblings produces an F = 0.125.

We found that including the single male iguana (#181) that is currently held by a non-AZA partner institution in our projection of a closed population with improved breeding does not have any impact on the population's genetic outlook (see Appendix D). In all alternate scenarios presented, the population would maintain an Endangered risk status in zoos and aquariums because of only four pairs reproducing in the most recent generation (past ~6 years; Appendix C).

MANAGEMENT ACTIONS

Given the current challenges for the Fiji banded iguana population, PVA results indicate that the following changes in management should be considered in an effort to improve this population's sustainability. Note that the PVA allows us to compare between these hypothetical changes, but cannot evaluate whether achieving these changes is feasible, practical, or desirable given the program's constraints.

- To remain demographically stable, increase breeding rates: If breeding is slightly increased from an average of ~4.5 hatches per year to a minimum of 5 to 6 hatches each year, the Fiji banded iguana population could potentially remain near its current size with a low risk of extinction, given continued imports. However, producing an average of 13 to 14 hatches per year could allow the population to grow to fill 120 potential spaces in approximately 11 years and reduce its reliance on imports. By increasing to fill space, the population would have greater demographic stability and retain better genetic health over the next 100 years.
- To equalize founder representation and reduce risk, fulfill breeding recommendations: In the past decade, a single institution produced all hatches in the Fiji banded iguana population. However, individuals at many other institutions have received breeding recommendations in the program's most recent Breeding & Transfer Plan. As these recommendations are fulfilled, a more even representation of founder lineages among zoos and aquariums can be ensured. Additionally, managers can share husbandry knowledge and reduce risks associated with catastrophic events at a single location (e.g., disease outbreaks, natural disasters).

CONCLUSIONS

This model is a scientifically-sound comprehensive tool to be used by population managers for assessing future directions for the animal program. This PVA report is provided to the AZA community and others to integrate into management of the important species within our care. The PVA model results are intended to provide the necessary data to make science-based decisions.

Our model results illustrate that under current management practices, the AZA Fiji banded iguana population can be expected to decline during the next 100 years. If imports continue (via infrequent confiscations), increasing breeding by only one to two hatches per year could potentially allow the population to remain near its current size. Without imports, however, breeding would need to be increased further to grow the population and minimize its risk of extinction. Increasing the population to fill potential spaces would improve both its demographic stability and its genetic outlook for the next 100 years. Additionally, distributing breeding effort more evenly among AZA institutions could help to equalize genetic representation of individuals in the population while sharing husbandry knowledge and reducing risks associated with focusing breeding efforts at a single institution. The AZA Fiji Banded Iguana Animal Program should consider implementing the recommended management actions in order to keep the population on the path towards long-term sustainability within AZA institutions.

ACKNOWLEDGEMENTS

A meeting was conducted on January 22nd, 2015 to discuss the Fiji banded iguana population and was attended by the following:

- Lisa Faust, Vice President of Conservation and Science, Lincoln Park Zoo, Ifaust@lpzoo.org
- Jamie Ivy, AZA Population Advisor, San Diego Zoo, <u>jivy@sandiegozoo.org</u>
- Brent Johnson, Population Biologist, Lincoln Park Zoo, bjohnson@lpzoo.org
- **Kim Lovich**, AZA Fiji Banded Iguana Animal Program SSP Coordinator and Studbook Keeper, San Diego Zoo, klovich@sandiegozoo.org
- Lauren Mechak, Assistant Population Biologist, Lincoln Park Zoo, Imechak@lpzoo.org
- Adrienne Savrin, Research Assistant, Lincoln Park Zoo, asavrin@lpzoo.org

This report was also reviewed by:

- Brian Aucone, Lizard TAG Chair, Denver Zoo, baucone@denverzoo.org
- Candice Dorsey, Director of Animal Programs, Association of Zoos and Aquariums, cdorsey@aza.org
- Jamie Ivy, AZA Population Advisor, San Diego Zoo, jivy@sandiegozoo.org
- Kim Lovich, AZA Fiji Banded Iguana Animal Program SSP Coordinator and Studbook Keeper, San Diego Zoo, klovich@sandiegozoo.org
- Adrienne Savrin, Research Assistant, Lincoln Park Zoo, asavrin@lpzoo.org
- Joseph L. Simonis, Research Scientist, Lincoln Park Zoo, jsimonis@lpzoo.org

If you have any questions about the report, please contact Lisa Faust at lfaust@lpzoo.org

Analyses in this report utilized the North American Regional Fiji Banded Iguana (Brachylophus fasciatus) Studbook current to 1 December 2014 (Lovich, 2014) and was performed using Poplink 2.4 and ZooRisk 3.8.

Funding provided by Institute of Museum and Library Services (IMLS) LG-25-11-018 and MG-30-13-0065-13 to the Association of Zoos and Aquariums.

Cover photo: courtesy of Ken Bohn, San Diego Zoo

Citation:

Johnson, B., Lovich, K., and B. Aucone. 2015. Fiji Banded Iguana (Brachylophus fasciatus) AZA Animal Program Population Viability Analysis Report. Lincoln Park Zoo, Chicago, IL.

The contents of this report including opinions and interpretation of results are based on discussions between the project team and do not necessarily reflect the opinion or position of Lincoln Park Zoo, Association of Zoos and Aquariums, and other collaborating institutions. The population model and results are based on the project team's best understanding of the current biology and management of this population. They should not be regarded as absolute predictions of the population's future, as many factors may impact its future status.

LITERATURE CITED

Association of Zoos and Aquariums. Zoological Information Management System – International Species Information System, Version 1.7 Updated: 27 Jan. 2014. Accessed: 19. Jan. 2015. https://zims.isis.org

AZA Lizard Taxon Advisory Group (TAG). 2013. Lizard Taxon Advisory Group Regional Collection Plan (RCP).

Ballou, J. D. and R. C. Lacy. 1995. Identifying genetically important individuals for management of genetic variation in pedigreed populations. Pages 76-111 in J. D. Ballou, M. Gilpin, and T. J. Foose, eds. Population Management for Survival and Recovery: Analytical Methods and Strategies in Small Population Conservation. Columbia University Press, New York.

Ballou, J. D. and T. J. Foose. 1996. Demographic and genetic management of captive populations. Pages 263-283 in S. Lumpkin, ed. Wild Mammals in Captivity. University of Chicago Press, Chicago.

DeRose, M. A. and D. A. Roff. 1999. A comparison of inbreeding depression in life-history and morphological traits in animals. Evolution 53: 1288-1292.

Earnhardt, J. M., Bergstrom, Y. M., Lin, A., Faust, L. J., Schloss, C. A., and S. D. Thompson. 2008. ZooRisk: A Risk Assessment Tool. Version 3.8. Lincoln Park Zoo. Chicago, IL.

Faust, L. J., Earnhardt, J. M., Schloss, C. A., and Y. M. Bergstrom. 2008. ZooRisk: A Risk Assessment Tool. Version 3.8 User's Manual. Lincoln Park Zoo. Chicago, IL.

Keogh, J. S., Edwards, D. L., Fisher, R. N., and P. S. Harlow. 2008. Molecular and morphological analysis of the critically endangered Fijian iguanas reveals cryptic diversity and a complex biogeographic history. Philosophical Transactions of the Royal Society B: Biological Sciences 363: 3413-3426.

Koeninger Ryan, K., Lacy, R.C., and S. W. Margulis. 2002. Impacts of kinship and inbreeding on components of fitness. Reproduction and Integrated Conservation Science.

Lovich, K. and J. Ivy. 2013. Fiji Banded Iguana (Brachylophus fasciatus) AZA Species Survival Plan® Yellow Program Population Analysis and Breeding & Transfer Plan. San Diego Zoo, San Diego, CA.

Lovich, K. 2014. Fiji Banded Iguana (Brachylophus fasciatus) AZA Studbook. San Diego Zoo.

Reed, D. H., and R. Frankham. 2003. Correlation between fitness and genetic diversity. Conservation Biology 17: 230-237.

DEFINITIONS

Age Structure: A two-way classification showing the numbers or percentages of individuals in various age and sex classes.

Current Gene Diversity (GD): The proportional gene diversity (as a proportion of the source population) is the probability that two alleles from the same locus sampled at random from the population will not be identical by descent. Gene diversity is calculated from allele frequencies, and is the heterozygosity expected in progeny produced by random mating, and if the population were in Hardy-Weinberg equilibrium.

Founder: An individual obtained from a source population (often the wild) that has no known relationship to any individuals in the derived population (except for its own descendants).

Inbreeding Coefficient (F): Probability that the two alleles at a genetic locus are identical by descent from an ancestor common to both parents. The mean inbreeding coefficient of a population will be the proportional decrease in observed heterozygosity relative to the expected heterozygosity of the founder population.

Mean Kinship (MK): The mean kinship coefficient between an animal and all animals (including itself) in the living, zoo born population. The mean kinship of a population is equal to the proportional loss of gene diversity of the descendant (zoo born) population relative to the founders and is also the mean inbreeding coefficient of progeny produced by random mating. Mean kinship is also the reciprocal of two times the founder genome equivalents: MK = 1 / (2 * FGE). MK = 1 - GD.

Mean Generation Time (T): The average time elapsing from reproduction in one generation to the time the next generation reproduces. Also, the average age at which a female (or male) produces offspring. It is not the age of first reproduction. Males and females often have different generation times.

Percent Known: Percent of an animal's genome that is traceable to known Founders. Thus, if an animal has an UNK sire, the % Known = 50. If it has an UNK grandparent, % Known = 75%

Population Viability Analysis (PVA): A PVA is a computer model that projects the likely future status of a population. PVAs are used for evaluating long-term sustainability, setting population goals, and comparing alternative management strategies. Several quantitative parameters are used in a PVA to calculate the extinction risk of a population, forecast the population's future trajectory, and identify key factors impacting the population's future.

Potential Space: In the context of a Regional Collection Plan, the 'potential space' selected for each Program within the RCP, which may be based on available spaces for that species, desired spaces the TAG wishes to allocate, the size needed to maintain a viable population, or some combination of those factors. In the context of the ZooRisk modeling work, the potential space is a model parameter that can be set at any level, including the size listed in the RCP or a higher or lower size based on other criteria.

Probability of Breeding [p(B)]: Female p(B) is the age-specific probability that a female will have at least one offspring in a year. For example, p(B) = 25% is equivalent to females producing an offspring once every 4 years. Within the reproductively viable age classes, all p(B) were set at a hypothetical constant value corresponding with an interclutch interval, which varied depending on the model scenario. Using a constant value means that all reproductively viable females would have the same chance of reproduction regardless of age.

Qx, Mortality: Probability that an individual of age x dies during time period.

Regional Collection Plan (RCP): document developed by Taxon Advisory Group (TAG) to describe species managed under their TAG, level of management with explanations, and evaluation of Target Population Sizes for each managed species.

Risk (Qx or Mx): The number of individuals that have lived during an age class. The number at risk is used to calculate Mx and Qx by dividing the number of hatches and deaths that occurred during an age class by the number of animals at risk of dying and reproducing during that age class. The proportion of individuals that die during an age class is calculated from the number of animals that die during an age class divided by the number of animals that were alive at the beginning of the age class (i.e.-"at risk").

Stochastic Model: A model that includes random chance and variation in model parameters (e.g. randomly select if an individual will breed). Stochastic models will produce many different outcomes each time the model is run due to this variation. Models are typically run for many iterations to fully explore the trajectory a population might take. ZooRisk is a stochastic model.

Taxon Advisory Group (TAG): There are several different TAGs and each oversees a broad group of animals (e.g. Antelope TAG, Small Carnivore TAG). Each TAG consists of several programs. The TAG contains experts including studbook keepers, program leaders, the TAG chair, and other advisors. TAGs evaluate the present conditions surrounding a broad group of animals (e.g., marine mammals) and then prioritize the different species in the group for possible captive programs.

APPENDICES

APPENDIX A. MODEL SETUP AND METHODS

Analyses in this report were performed using PopLink 2.4, ZooRisk 3.8, and R statistical package. Complete documentation on ZooRisk's modeling approach and setup can be found in the software manual (Faust et al., 2008). These tables document the basic file information (Table A1), key model variables, give some context for how ZooRisk utilizes them in the model and how the PVA modeling team applies them, give values used in model scenarios, and describe data sources (Table A2). Additionally, age and sex specific mortality rates are documented in table A3.

For clarity, most figures in this report show the mean population size across multiple iterations. Model results such as mean population sizes, levels of gene diversity (GD), and inbreeding (F) are averaged across 1000 model iterations; if some model iterations go extinct, these values are only averaged over extant, surviving iterations. Where relevant, results are reported on medium-term (25 year), and long-term (100 year) time frames. Results such as the probability of reaching the potential space or extinction are based on the percentage of iterations that hit that target at least once over the 100 years. Where applicable, ± 1 standard deviation is included; large values represent wider variability in model results.

Table A1. Information regarding studbook utilization in PopLink 2.4 and ZooRisk 3.8.

| File Information | |
|--|-----------------------|
| Studbook Currentness Date | 1 December 2014 |
| Studbook Name | Fijilguana_01Dec14 |
| Studbook Keeper for analytical database | Kim Lovich |
| Studbook Keeper for demographic database | Kim Lovich |
| ZooRisk Project Name | FijiBandedIguana 2015 |

Table A2. Variable used in ZooRisk 3.8 scenarios, including a description of each variable, the value, and the source.

| | Demographic Settings | | | | | | | | | |
|--|---|---|--|--|--|--|--|--|--|--|
| Model Variable | Description/Details of How Variable is Used in Model | Value in Model Scenarios | Source | | | | | | | |
| Living Population | ZooRisk uses a starting population to initiate each model scenario, incorporating data on each individual's pedigree, age, sex, and reproductive status. Any animals unable to breed due to age, medical issues, or sterilizations can be designated as non-reproductive in the model, which removes them from the potentially breeding population. The model assumes that any new animals (either hatches or imports) are potentially reproductively viable; this may be an optimistic assumption. | See included individuals in Appendix B | Studbook data; animals in AZA as of 2 Dec 2014 | | | | | | | |
| Male and Female Age-Specific Mortality Rates (Qx) | Probability that an individual of age x dies during time period. Each year, the model stochastically determines whether each individual lives or dies based on that individual's age- and sex-specific Qx. | See Table A3. No modifications were made from extracted Qx values. | Studbook data, filters = AZA, 1 Jan 1988 – 2 Dec 2014 | | | | | | | |
| Infant Mortality Rates (Qx) | Mortality rate for infants 0-1 used in the model (as described above). Infant mortality is a vital rate that is sensitive to changes in husbandry and also may be a life stage that is vulnerable to inbreeding depression. | Male = 18.13% Female = 9.79% | Studbook data, filters = AZA, 1 Jan 1988 – 2 Dec 2014 | | | | | | | |
| Maximum Longevity | The maximum age individuals are allowed to live to in the model (if they haven't died before that age). The model values were based on males = SB #60 and 79 (both of which are currently living) and female = #61 (which is deceased). | Male = 22 Female = 20 | Modeling team consulted the following sources: Program Leader, Population Advisor | | | | | | | |
| Reproductive Age Classes | Age classes in which females or males could potentially be paired for breeding in the model | Male = 2 – 18 Female = 2 – 17 | Modeling team consulted the following sources: Program Leader, Population Advisor | | | | | | | |

| Model Variable | Description/Details of How Variable is Used in Model | Value in Model Scenarios | Source |
|---|---|---|---|
| Annual Number of Offspring | When a female within the model is selected to reproduce in a given model year, ZooRisk uses these frequencies to stochastically determine the number of offspring she produces. Note that this distribution will be different than a litter size distribution if a species can have multiple clutches/litters within a year. | 1 offspring = 24.59% 2 = 21.31% 3 = 18.03% 4 = 14.75% 5 = 11.48% 6 = 4.92% 7 = 0% 8 = 3.28% 9 = 1.64% | Studbook data, filters = AZA, 1 Jan 1988 – 2 Dec 2014 |
| Birth Sex Ratio (BSR) | The model stochastically assigns a sex for any offspring created in the model. We extract historic studbook data and test for bias towards males or females in the sex ratio using a $\chi 2$ test. This evaluates whether the population is significantly different than 50% males, 50% females. For this population, the extracted birth sex ratio was not significantly biased. The extracted value was 0.4833 ($\chi^2 = 0.2000$, df = 1, p > 0.05) | 0.5 | Studbook data, filters = AZA, 1 Jan 1988 – 2 Dec 2014 |
| Female Probability of Breeding [p(B)] | P(B) is the age-specific probability that a female will have at least one offspring in a year. For example, p(B) = 0.25 is equivalent to females producing an offspring on average once every 4 years, or 25% of reproductively available females breeding in any given year. Historical studbook data include many females who never had access to a male and were non-reproductive for management rather than biological reasons. It is difficult to use extracted p(B) data to determine what a population could do if all individuals were in breeding situations or the population was truly trying to increase reproduction. Because of this, model scenarios use simplified hypothetical levels of p(B) to evaluate the impact of changes in reproduction. To set the baseline p(B), we extracted the average number of hatches/year over the past decade from the studbook and identified a p(B) level in the model that would produce, on average, an equivalent number of projected hatches over the first 10 model years. Alternate scenarios used higher or lower p(B) levels. In the model, all p(B) were set at the same value within all female reproductive age classes. Using a constant value means that all reproductively viable females would have the same chance of reproduction regardless of age. This population produced 3.8 hatches/year on average over the past decade, which was used to calibrate the baseline p(B). | Baseline scenarios: 0.083 Alternate scenarios: 0.11, 0.21 | Studbook data, filters = AZA, 1 Jan 2004 – 31 Dec 2013 |
| | ZooRisk can model a randomly breeding population or genetic management by mean kinship pairings and other | | |
| Genetic Management | genetic criteria, mimicking the way that AZA populations are managed to maintain gene diversity (GD) (Ballou & Lacy, 1995). This allows ZooRisk to more accurately project the amount of gene diversity retained through genetic management. | GM by mean kinship: ON | Modeling team decision |

| Model Variable | Description/Details of How Variable is Used in Model | Value in Model Scenarios | Source |
|------------------------------------|---|---|---|
| Inbreeding Depression | Inbreeding depression can be challenging to incorporate into PVA models because of uncertainty about which populations and life history traits will be affected, and at what inbreeding level they will become affected. Due to this uncertainty and since modeling inbreeding depression adds an additional layer of complexity to interpretation of results we have not included a "standard" inbreeding depression effect in the PVA models. The PVA includes management by mean kinship and measurements of final mean inbreeding levels to help users understand the potential future levels of inbreeding even with careful management. Readers should consider that model results may be optimistic if this species would be susceptible to inbreeding depression now or in the future. | OFF | Modeling team decision |
| Breeding group ratio | ZooRisk can simulate breeding groups of 1 male: multiple females. If a population has few reproductive-aged animals and/or very few breeding age males, this can impact demographic results by limiting the number of pairs/groups that can be formed. It can also impact genetic results, as it influences how pairings by mean kinship are made (see manual for more details). | 1 male: 1 female | Modeling team consulted the following sources: TAG Chair |
| Number of Years Between Pairing | ZooRisk reshuffles the pairings with this frequency; a breeding group is left together for this number of years unless an individual group member dies, in which case another individual is shuffled in. A group is left together even if they may no longer be optimally paired by MK because of subsequent hatches. | 3 | Modeling team decision Modeling team consulted the following sources: Program Leader, Population Advisor |
| | Other Model Setting | S | |
| Potential Space | ZooRisk has the option of including a space limitation on population growth. This limitation reduces breeding in the model population as it approaches the space limit, mimicking zoo management. For example, a Program Leader may begin to recommend fewer breeding pairs if available spaces for a population become limited. To determine an appropriate space limitation for the models, the PVA team, in consultation with the AZA Wildlife Conservation and Management Committee (WCMC), developed the approach of using the number of projected spaces in 5 years based on a Taxon Advisory Group's (TAG) Regional Collection Plan (RCP). If that number is unavailable or unsuitable (i.e. if the population is already close to or larger than that space), the team will use the current population size + 10% or 10 individuals, whichever is greater. In some instances when more information is available, i.e. a more recent survey by the Species Coordinator, we will use this value. The most recent AZA Lizard TAG RCP (2013) does not include 5-year space estimates. Because of high institutional interest we used the RCP's target size of 120 individuals in our modeled scenarios. | 120 | Modeling team consulted the following sources: 2013 Lizard TAG RCP, Program Leader, Population Advisor |
| Approach to space limit | The model can allow the population to grow/decline immediately to its space limit (if hatch rates will allow it), but it is more likely that increases/decreases in space will occur gradually as new institutions join or leave a program. | Approach space limit gradually over 5 years | Modeling team decision |
| Number of Years | How far into the future the model projects. | 100 | Modeling team decision |
| Number of Iterations | Since stochastic models have inherent variation, each model run (or iteration) will produce a slightly different population trajectory, and the model is run many times to reflect the full potential variation a population could experience. | 1000 | Modeling team decision |

| Model Variable | Description/Details of How Variable is Used in Model | Value in Model Scenarios | Source |
|-------------------------------|---|---|---|
| Extinction Threshold | Size at which the population will be considered extinct. | 0 | Modeling team decision |
| Importations/ Exportations | ZooRisk can model removal or addition of individuals into the population. An importation event will bring a specific number of individuals (of a specified sex and age) that are completely unrelated to the current population (potential founders) into the population in a specified year. These might be individuals coming from the wild or from non-AZA institutions in other regions or in North America. Exportations can be used to model reintroductions into the wild or transfer of individuals outside of the AZA population. ZooRisk can model two types — a simple export that selects a specific number of individuals of the designated sex and age classes in the specified year, or a threshold export that will select the 'extra' individuals above some threshold to export in the specified year. | Imports- even # of males and females ages 2-5, mimicking amounts from the past decade in each future decade: 2007- 4 Exports- none Averages: 0.4 imports and 0 exports/year | Studbook data, # of individuals entering and exiting the AZA population from 1 Jan 2004 – 31 Dec 2013 |

Table A3. Male and female mortality rates used in all scenarios of the ZooRisk model are listed below. Each year, the model determines whether each individual lives or dies stochastically based on that individuals age- and sex- specific mortality rate.

| Male | | | | | | | | |
|--------|--------|----------------|--|--|--|--|--|--|
| Age(x) | Qx | Number at Risk | | | | | | |
| 0 | 0.1813 | 91 | | | | | | |
| 1 | 0.0387 | 77.5 | | | | | | |
| 2 | 0.014 | 71.5 | | | | | | |
| 3 | 0.0355 | 70.5 | | | | | | |
| 4 | 0 | 68 | | | | | | |
| 5 | 0.0308 | 65 | | | | | | |
| 6 | 0.0492 | 61 | | | | | | |
| 7 | 0.0185 | 54 | | | | | | |
| 8 | 0.0189 | 53 | | | | | | |
| 9 | 0.0769 | 52 | | | | | | |
| 10 | 0.0638 | 47 | | | | | | |
| 11 | 0.0455 | 44 | | | | | | |
| 12 | 0.0526 | 38 | | | | | | |
| 13 | 0.0278 | 36 | | | | | | |
| 14 | 0.0606 | 33 | | | | | | |
| 15 | 0.1333 | 30 | | | | | | |
| 16 | 0.12 | 25 | | | | | | |
| 17 | 0.25 | 20 | | | | | | |
| 18 | 0.1429 | 14 | | | | | | |
| 19 | 0 | 12 | | | | | | |
| 20 | 0.0909 | 11 | | | | | | |
| 21 | 0.4444 | 9 | | | | | | |
| 22 | 1 | 2 | | | | | | |
| 23 | 0 | 1 | | | | | | |
| 24 | 0 | 1 | | | | | | |
| 25 | 0 | 1 | | | | | | |
| 26 | 0 | 1 | | | | | | |
| 27 | 0 | 1 | | | | | | |
| 28 | 0 | 0 | | | | | | |

Female

| remaie | | | | | | | | | |
|--------|--------|----------------|--|--|--|--|--|--|--|
| Age(x) | Qx | Number at Risk | | | | | | | |
| 0 | 0.0979 | 97 | | | | | | | |
| 1 | 0.1017 | 88.5 | | | | | | | |
| 2 | 0.0359 | 83.5 | | | | | | | |
| 3 | 0.1166 | 81.5 | | | | | | | |
| 4 | 0.0986 | 71 | | | | | | | |
| 5 | 0.1475 | 61 | | | | | | | |
| 6 | 0.1429 | 49 | | | | | | | |
| 7 | 0.15 | 40 | | | | | | | |
| 8 | 0.2059 | 34 | | | | | | | |
| 9 | 0.1538 | 26 | | | | | | | |
| 10 | 0.1579 | 19 | | | | | | | |
| 11 | 0.25 | 16 | | | | | | | |
| 12 | 0.1 | 10 | | | | | | | |
| 13 | 0.375 | 8 | | | | | | | |
| 14 | 0 | 4 | | | | | | | |
| 15 | 0.5 | 4 | | | | | | | |
| 16 | 0 | 2 | | | | | | | |
| 17 | 0.5 | 2 | | | | | | | |
| 18 | 0 | 1 | | | | | | | |
| 19 | 0 | 1 | | | | | | | |
| 20 | 1 | 1 | | | | | | | |
| 21 | 0 | 0 | | | | | | | |
| 22 | 0 | 0 | | | | | | | |
| 23 | 0 | 0 | | | | | | | |
| 24 | 0 | 0 | | | | | | | |
| 25 | 0 | 0 | | | | | | | |

APPENDIX B. INCLUDED INDIVIDUALS

As of December 1st, 2014 (the studbook currentness date), the AZA population consisted of 53 individuals (33 males, 20 females). Seven animals (6 males, 1 female) are excluded from the breeding population. Those animals with "Allowed to Breed = NO" hold space but are never eligible for reproduction. This leaves a potentially breeding population of 46 (27.19) individuals.

Table B1. Individuals included in the starting population.

| ID | Sex | % Known | Mean Kinship | Age | Institution | Allow Breed | Reason for Exclusion |
|-----|-----------|---------|--------------|-----|-------------|-------------|----------------------|
| 60 | Male | 100 | | 22 | SANDIEGOZ | NO | Age |
| 79 | Male | 100 | | 21 | DALLAS | NO | Age |
| 83 | Male | 100 | | 21 | SANDIEGOZ | NO | Age |
| 85 | Male | 100 | | 21 | LOSANGELE | NO | Age |
| 104 | Male | 100 | | 20 | HOUSTON | NO | Age |
| 112 | Male | 100 | | 19 | SANDIEGOZ | NO | Age |
| 127 | Male | 100 | 0.0946 | 17 | SANDIEGOZ | YES | |
| 137 | Male | 100 | 0.0495 | 16 | AUDUBON | YES | |
| 148 | Male | 100 | 0.0607 | 16 | SANDIEGOZ | YES | |
| 152 | Male | 100 | 0.103 | 15 | FORTWORTH | YES | |
| 156 | Male | 100 | 0.136 | 14 | CLEVELAND | YES | |
| 161 | Male | 100 | 0.136 | 13 | NORFOLK | YES | |
| 163 | Male | 100 | 0.136 | 13 | DENVER | YES | |
| 165 | Female | 100 | 0.136 | 13 | NORFOLK | YES | |
| 167 | Female | 100 | 0.06 | 12 | SANDIEGOZ | YES | |
| 176 | Male | 100 | 0.0731 | 11 | DALLAS | YES | |
| 180 | Female | 100 | 0.1021 | 11 | SANDIEGOZ | YES | |
| 182 | Male | 100 | 0.136 | 11 | FRESNO | YES | |
| 183 | Male | 100 | 0.136 | 11 | LOWRY | YES | |
| 185 | Female | 100 | 0.1491 | 11 | SACRAMNTO | YES | |
| 187 | Male | 100 | 0.1062 | 11 | SAN ANTON | YES | |
| 199 | Female | 100 | 0.136 | 9 | HOUSTON | YES | |
| 200 | Female | 100 | 0.136 | 9 | SANDIEGOZ | YES | |
| 201 | Female | 100 | 0.1025 | 8 | ST LOUIS | YES | |
| 206 | Male | 100 | 0.1025 | 6 | SACRAMNTO | YES | |
| 207 | Female | 100 | 0.1025 | 6 | SAN ANTON | YES | |
| 208 | Male | 100 | 0.1389 | 6 | TOLEDO | YES | |
| 209 | Male | 100 | 0.1363 | 6 | HOUSTON | YES | |
| 212 | Female | 100 | 0.1027 | 5 | NZP-WASH | YES | |
| 213 | Male | 100 | 0.1027 | 5 | DALLAS | YES | |
| 214 | Female | 100 | 0.1027 | 5 | LOSANGELE | YES | |
| 215 | Female | 100 | | 5 | TOLEDO | NO | |
| 216 | Male | 100 | 0.1027 | 5 | SANDIEGOZ | YES | |
| 218 | Male | 100 | 0.0881 | 4 | SANDIEGOZ | YES | |
| 219 | Male | 100 | 0.0881 | 4 | TULSA | YES | |
| 220 | Female | 100 | 0.0881 | 4 | SANDIEGOZ | YES | |
| 221 | Male | 100 | 0.0881 | 4 | NZP-WASH | YES | |
| 222 | Male | 100 | 0.0881 | 4 | EVANSVLLE | YES | |
| 223 | Female | 100 | 0.1363 | 4 | TULSA | YES | |
| 224 | Female | 100 | 0.1363 | 4 | LOWRY | YES | |
| 225 | Male | 100 | 0.0407 | 9 | SANDIEGOZ | YES | |
| 227 | Female | 100 | 0.0465 | 9 | SANDIEGOZ | YES | |
| 229 | Male | 100 | 0.0403 | 6 | SANDIEGOZ | YES | |
| 230 | Female | 100 | 0.0116 | 6 | SANDIEGOZ | YES | |
| 232 | Female | 100 | 0.1248 | 3 | SANDIEGOZ | YES | |
| 234 | Male | 100 | 0.1248 | 1 | SANDIEGOZ | YES | |
| 235 | Female | 100 | 0.0494 | 1 | SANDIEGOZ | YES | |
| 236 | Male | 100 | 0.0494 | 1 | SANDIEGOZ | YES | |
| 237 | Male | 100 | 0.0494 | 1 | SANDIEGOZ | YES | |
| 238 | Male | 100 | 0.0494 | 0 | SANDIEGOZ | YES | |
| 238 | Female | 100 | 0.0494 | 0 | SANDIEGOZ | YES | |
| 240 | Female | 100 | 0.0494 | 0 | SANDIEGOZ | YES | |
| 240 | i ciliale | 100 | 0.0434 | U | SAINDIEGUZ | IES | 1 |

APPENDIX C. RISK CATEGORIES AND RESULTS

ZooRisk uses five standardized risk tests to evaluate different aspects of a population's demography, genetics, and management that might put the population at risk (Table C1). The ZooRisk development team and members of the AZA small Population Management Advisory Group (SPMAG) worked to develop the cutoff for each test. This approach standardizes assessments across species and allows managers to compare species programs using the same framework.

For a given scenario, the overall risk level is based on the most severe score it achieved for any of the five tests. Tests 2-4 are based on the population's history, and are the same across all model scenarios. For the AZA Giant Leaf-tailed Gecko Animal Program, the risk levels showed some variation between scenarios (Table C2). The goal for managers should be to move the population from a Critical status towards a Low Risk status, utilizing some of the management tactics highlighted in the model results.

Table C1: Standardized Risk Test, reflecting the population's status in zoos and aquariums.

| Tests | Low Risk (LR) | Vulnerable (V) | Endangered (E) | Critical (C) | |
|--|----------------------|-----------------------|-----------------------|-----------------------|--|
| Probability of extinction in 100 years, | 0 - 9% | 10 - 15% | 20 - 49% | 50 - 100% | |
| based on PVA | 0 3,0 | 10 10/0 | 20 .570 | 20 100/0 | |
| Number of zoos with breeding-aged | >3 Zoos | 3 Zoos | 2 Zoos | 1 Zoo | |
| mixed-sex groups in current population | 23 Z00s | 3 2003 | 2 2003 | 1 200 | |
| Number of breeding-aged animals (m.f); | >10.10 | 7.7 to 10.10 | 4.4 to 6.6 | 0.0 to 3.3 | |
| based on current population | >10.10 | 7.7 (0 10.10 | 4.4 (0 0.0 | 0.0 t0 3.3 | |
| Reproduction in the last generation, based | >9 pairs reproducing | 6-9 pairs reproducing | 3-5 pairs reproducing | 0-2 pairs reproducing | |
| on historic studbook data | >9 pairs reproducing | 6-9 pairs reproducing | 3-5 pairs reproducing | 0-2 pairs reproducing | |
| GD of starting population and/or | Starting: > 0.9 | Starting: 0.8 – 0.9 | Starting: 0.75 – 0.8 | Starting: < 0.75 | |
| population in 100 years based on PVA | 100 yrs: > 0.9 | 100 yrs: 0.75 – 0.9 | 100 yrs: 0.5 – 0.75 | 100 yrs: < 0.5 | |

Table C2: Detailed risk results for the population model scenarios.

| Scenario | | Individual Risk Score for Each Test | | | | | | 0) (5) | | | |
|----------|--|-------------------------------------|-------------------|--------------------|-----------------------------|----|--|--|---|---|---|
| | | Probability of extinction | Number of zoos | Breeding Groups | Breeding in Last Gen. | GD | | OVERALL RISK SCORE EACH SCENARIO (HIGHLIGHTED) | | 0 | |
| Α | Open baseline; p(B) = 8.3% | LR | LR | LR | E | V | | LR | V | Е | С |
| В | Closed baseline; p(B) = 8.3% | С | LR | LR | E | С | | LR | V | E | С |
| С | Open; p(B) = 11% | LR | LR | LR | E | V | | LR | V | Е | С |
| D | Open; p(B) = 21% | LR | LR | LR | E | LR | | LR | V | Е | С |
| Ε | Closed; p(B) = 21% | LR | LR | LR | E | V | | LR | V | Е | С |
| D1 | Closed; p(B) = 21%; add individual 181 | LR | LR | LR | E | V | | LR | V | Е | С |

APPENDIX D. ADDITIONAL MODEL RESULTS

San Diego Zoo retains ownership of the single male (#181) that was exported to a non-AZA partner institution in 2008. Including this male in our projection of a population with increased breeding and no imports was not shown to impact the future genetic health of Fiji banded iguanas in AZA zoos and aquariums (Table D1).

Table D1. Additional model results.

| | | DEMOGRAPHICS | | | | | GENETICS | | | | | |
|----------|---|-------------------------------|------------------------------------|-------------------------------------|-----------------------------------|--|-------------------|---|--------------|-------------------------------|--|--|
| SCENARIO | | Initial Population Size | Size in Year 25 ¹ | Size in Year 100 ¹ | Probability of Reaching Space (%) | Probability of Extinction (%) | Initial GD (%) | GD Retained in Year 100 ¹ | Initial F | F in Year 100 ¹ | OVERALL POPULATION STATUS ² | |
| Е | Closed; p(B) = 21% | 53 | 119 ± 10 | 119 ± 7 | 100 | 0.1 | 90.5 | 83.8 ± 1.1 | 0.065 | 0.152 ± 0.013 | Endangered | |
| D1 | Closed; p(B) = 21%; add individual 181 | 53 | 118 ± 9 | 119 ± 8 | 100 | 0.1 | 90.5 | 83.9 ± 1.2 | 0.065 | 0.151 ± 0.014 | Endangered | |

GD = gene diversity, F = inbreeding coefficient

¹ Mean value ± 1 Standard Deviation, taken across 1000 iterations. If an iteration goes extinct that value is not included in the calculation, so results may only reflect a few iterations in scenarios with a high probability of extinction.

²ZooRisk uses five standardized tests to give a summary risk score for each scenario, from Low Risk (most secure), Vulnerable, Endangered, to Critical (least secure). For more details on this score, see Appendix C.

^{*}Genetic results are likely optimistic as ZooRisk counts all imports as genetically unique potential founders (i.e., they unrelated to each other and the current population). In reality, it is likely that final GD would be lower and inbreeding higher than the results displayed in the table.

Fijian Banded Iguana Brachylophus bulabula

AZA Regional Studbook Sixth Edition Data Current to: March 22, 2022 Kim Gray

Curator of Herpetology & Ichthyology San Diego Zoo Wildlife Alliance P. (619) 557-3984 Post Office Box 120551 San Diego, CA 92112-0551

kgray@sdzwa.org





Table of Contents

| Studbook Disclaimer | 3 |
|--|----|
| Introduction and Natural History | 4 |
| Conservation Status | 5 |
| Captive Management | 7 |
| Husbandry Procedures | 7 |
| Reproduction | 9 |
| Comments and Discussion | 10 |
| Bibliography | 11 |
| Column Name Description | 11 |
| Living Population by Institution | 12 |
| Historical Population by Studbook Number | 22 |
| Geographic and Chronological Scope | 48 |
| Conventions | 48 |

AZA Studbook Disclaimer

Copyright March 22, 2022 by San Diego Zoo. All rights reserved. No part of this publication may be reproduced in hard copy, machine-readable or other forms without advance written permission from the San Diego Zoo. Members of the Association of Zoos and Aquariums (AZA) may copy this information for their own use as needed.

The information contained in this studbook has been obtained from numerous sources believed to be reliable. AZA and the San Diego Zoo make a diligent effort to provide a complete and accurate representation of the data in its reports, publications, and services. However, AZA and the San Diego Zoo do not guarantee the accuracy, adequacy, or completeness of any information. AZA and the San Diego Zoo make no warranties or representations of any kind, express or implied, including but not limited to warranties of merchantability of fitness for particular purpose. AZA and the San Diego Zoo disclaim all liability for errors or omissions that may exist and shall not be liable for any incidental, consequential, or other damages (whether resulting from negligence or otherwise) including, without limitation, exemplary damages or lost profits arising out of or in connection with the use of this publication.

Because the technical information provided in the studbook can easily be misread or misinterpreted unless properly analyzed, AZA and San Diego Zoo strongly recommend that users of this information consult with the Studbook Keeper in all matters relate to data analysis and interpretation.



Introduction and Natural History

The Fijian Banded Iguana is one of only a few species of iguanas found in the Old World as well is one of the most geographically isolated members of the iguana species. The Fijian banded iguana, *Brachylophus bulabula*, is notably one of the most distinctive iguanids in the world today. The Lau Banded Iguana, Bracylophus fasciatus along with another full species, the Gau iguana (Brachylophus gau) were recently taxonomically split as both are genetically and morphologically distinct. Still other full species may result from further genetic evaluation of this group. Rarely seen in the wild, knowledge of this animal's natural behaviors is scarce, and until recently, there was very little known about the genetic variations and taxonomic diversity of the Brachylophus group. Fiji

iguanas are also one of the most striking lizard species in the world. Males have a dark green background with white or pale bluish spots and streaks on the neck and two large, vertical bands down the sides of the body, while females are generally solid green with occasional spots and partial bands. The general body structure is similar to a small green iguana but with a stouter, more compact head shape. Adult size is similar for both males and females, 15-19 cm SVL and up to 60 cm total length. Well suited for their arboreal lifestyle, they have long tails and toes that are equipped with sharp claws. This species is herbivorous, however there have been no diet studies performed on this species to determine what it eats in the wild, it is assumed this species would prefer the same food plants as the crested iguana (B. vitiensis) where wild diet for this species has been researched. This species is endemic to some of the larger central islands of Fiji. On Mali and Cikobia Islands, iguanas show significant differences in size and show some additional morphological differences as well, compared with populations found on other southern islands. Further genetic analysis is required in order to develop more detailed comparisons. The Fijian banded iguana is highly arboreal and occurs mostly in coastal and lowland wet forests. Most commonly found in areas of native trees, the iguanas prefer areas of many overlapping branches where their coloration is more cryptic and access to food and other trees is easier. Rarely seen on the ground, it is hypothesized the animals will only come down to the ground to nest. This species can reproduce at three years of age in captivity and specimens have lived for over 25 years. It is believed that B. bulabula may not reproductive until age four in the wild and the mean generation length is more likely to be 10-15 years based on field data for B. vitiensis. They lay an average of five eggs per clutch both in the wild and in captivity.

Conservation Status

Throughout the world, the Fiji iguana is now fully protected. On Fiji, it is illegal to export, and there are poaching fines. CITES has listed this animal on Appendix 1 since 1 June 1981, due to its vulnerable status and desirability for reptile collections. The U.S. Fish and Wildlife Service has listed the Fiji iguana as endangered since 20 March 1980. The IUCN Red Data Book (2012), lists this species as Endangered, based on its insular status, introduced feral predators, and habitat loss. There are currently no conservation measures in place for the Fiji Banded Iguana and data indicates that they do not occur in any protected areas, however further field surveys should be conducted to confirm absence from large forest preserves on Viti Levu Island. Makogai and Makodroga Islands would benefit from the establishment of national park status, thus protecting iguanas found on these islands. The current wild population is currently unknown and recent population surveys have shown iguanas to be very rare over most of their presumed range. Local extinctions have occurred on several islands, habitat fragmentation and loss, as well as predation by alien mongooses are implicated in these declines. This species has been in decline for the past century, due to introduction of predators such as

mongoose and feral cats, and to a lesser degree, goats and pigs, and habitat clearing for mining and agriculture. Due to limited habitat areas, and the ability of both major predators to colonize, all the populations must be considered endangered regardless of current population estimates. Overall recent population declines are estimated to be more than 50% with additional losses of 30-40% projected within the next 40 years. Further research surveys are needed to determine population sizes, trends, natural history, genetic analysis to help determine presence of unique haplotypes and even additional species. Educational programs should be developed and implemented to encourage the local community to embrace and understand the conservation needs of the Fijian Banded Iguana. Discussions to help create a Conservation Action Plan have taken place as to date, no specific conservation actions have been designed or implemented and such a plan could greatly benefit this species. Support of genetic studies and partnerships with the Fijian Government and conservation organizations within Fiji are strongly encouraged.



Female Fijian banded iguana (Brachylophus bulabula)

Male Fijian Banded Iguana (Brachylophus bulabula)

Captive Management

As of 22 March 2022, there are 42.24.0 (66) At 20 Institutions This species has reproduced in a few U.S. zoos, and F2 generations have been hatched at the San Diego Zoo, Dallas Zoo, San Antonio Zoo, Audubon Zoo, Cincinnati Zoo and the Smithsonian's National Zoo and Lowry Park Zoo. Eight of the ten founding animals are a group of four pairs acquired from the Orchid Island Cultural Centre on Fiji in 1987 and housed in San Diego. Some of the original founders have died, but many offspring are now reproducing, and many others are reaching reproductive age. Over the past decade, more than 100 captive offspring have been produced and these represent all but six of the current population. All of the wild-caught animals still alive have successfully reproduced, and assuming they were unrelated, no inbreeding of animals has occurred. The addition of 2 new founders and two unrelated offspring were introduced to the overall population in 2012 when a USFWS confiscation was turned over to the San Diego Zoo, enabling us to add these animals to the breeding program.

Husbandry Procedures

Fijian iguanas should be housed in roomy enclosures, a minimum of 4'W x 4'L x 4'H and screened on all sides. The larger the enclosure the better as the males can be extremely territorial with the potential to become aggressive toward a female if not provided with ample room. Enclosures should be provided with many large horizontal branches for climbing. Since this is where the animals will spend most of their time, the branches should be of a large enough diameters for comfortable resting. Sandblasted grape vines have been used with success and are aesthetically pleasing also. Nontoxic tropical plants (e.g. Ficus, Fatsia, Coccoloba,) are added for perching, animal security and browse. Plenty of plants will allow for an area for the female to hide from the male if necessary. Nontoxic plants are essential as the iguanas will browse on the leaves, so the plants may need to be replaced often. Enclosures are misted thrice weekly with tepid water to allow the animals to drink off the leaves and branches. Although bowls of clean water are provided at all times, they should not be relied upon to keep the animals hydrated. Sphagnum moss covers the cage bottoms to hold moisture and raise humidity to aid in the shedding process. Due to the large amount of water used, cage bottoms should either be made of hardware cloth or provided with sufficient drainage. Proper air circulation throughout the cage is essential to prevent any bacterial infections, particularly of the skin. The most important element in the captive care of these iguanas is access to natural sunlight. All cages should be portable, on wheels, or built in such a way that they can be placed in the sun during fair weather. A few hours a day or at least several times a week seems to be adequate. No combination of commercially available lights is sufficient for the long-term management of Fiji iguanas. Depressed appetite, poor color, hypocalcemia, and eventually death may occur if the animals are not allowed to bask naturally. Access to shaded areas and proper amounts of screening are important to

keep animals from overheating, and to allow natural thermoregulation. During inclement weather, the following lighting system can be used. Again it should be stressed that this is not a permanent or long-term option. A Sylvania™ BL 350 black light bulb is used in combination with full spectrum Dura-test™ bulb. Indoor temperatures are maintained between 72° and 80° F at night and 80° to 88° F daily. 250 watt infrared heat lamps are used to provide basking sites indoors. The photo period is 12 hour days and 12 hour nights year round. No artificial cooling period is used, only the natural San Diego climate. Male iguanas are highly territorial and should never be housed together. Visual barriers, such as curtains should be used between cages to prevent males from viewing one another. If males are allowed to become over stimulated, they could attack and injure their cage mate females causing serious bite wounds or even death. However, a closely monitored viewing schedule between males will help to stimulate breeding. Placing the cages so the males can see each other for fifteen minutes and then replacing the cages to the normal position is usually adequate. All animals should be watched for a while after such encounters. Females may also be territorial, so they should be housed alone or with a single male. It is best to house pairs of animals together year round. If a reintroduction is necessary due to medical treatment etc., monitor both animals closely afterwards. Even previously amicable pairs can become aggressive if separated and reintroduced. Obviously, separations and reintroductions should be kept to a minimum. Some biting may occur naturally as part of the introduction process, but, if serious wounds appear, the female must be removed. Some pairs may never become compatible. Fijian banded iguanas are omnivorous and should be offered the greatest variety of foods possible. Three times a week, a mixture of fruits and vegetables, chopped to a proper size for the individual, should be offered. The green base for the salad is either kale, dandelion greens, collard greens or mustard greens. Lettuce has little nutritional value and spinach contains oxalates, so these should not be fed exclusively. Other vegetables offered are: broccoli, bean sprouts, yams, and shredded carrots. Fruits may include: mango, papaya, kiwi, berries, melons, grapes and any other seasonal fruit for variety. Bananas should be avoided or fed in very small amounts due to their low calcium/high phosphorous content. Fresh browse is also used, especially Hibiscus flowers and leaves, but daisies, dandelions and mulberry can also be fed. Three or four times weekly, different insects are fed from a choice of: waxworms, crickets, kingworms and silkworms. Males should be monitored closely as they have a tendency towards obesity. Legs, tail and neck should be firm and well muscled but not puffy and fat. All food items are dusted with a 1:1 mixture of calcium carbonate and a vitamin supplement before feeding. Reproductive females can be given extra calcium in the form of pink mice or liquid calcium gluconate. Dosages should be confirmed with a veterinarian and may be given daily through an eyedropper or it may be drizzled on food items. Post ovipositional female's appetite and weight must be monitored closely. Loss of appetite can be a sign of egg binding or other problems. Without extra care a female's health may decline quickly and death can result.

Reproduction

Courtship in Fiji iguanas may include color intensification, head bobbing and biting of the neck and foreleg region. Courtship may occur many times without copulation occurring. Females should be watched closely during courtship for any signs of wounds inflicted by the male. During intense courtship, a female's appetite may become depressed and she may have to be hand fed. Iguanas may lay in their second year, but fertility is very low until the third or fourth year. Females usually lay one clutch of 3 to 7 eggs annually, with occasional double clutches spaced at 3 to 6 month intervals. In San Diego the majority of clutches are laid between April and July, but there have been clutches in every month of the year. Large nest boxes, at least 145 cm W x 45 cm H x 45 cm L are needed. Covered Tupperware™ type boxes can be used. Providing several small holes drilled in the bottom of the box for drainage, and a 10 cm x 10 cm hole in the lid as an entrance for the iguana. Most females seem to prefer the security of the lid as opposed to a bare surface. The nest box is filled within 5cm of the top with loamy, well packed potting soil. The female digs a diagonal nest about 12" deep and angled downward away from the entrance. Into the nest cavity she will deposit the eggs, then bury the cavity and tamp down the soil with her head. Laying usually takes place late in the afternoon or overnight. Care should be taken not to disturb the female while she is nesting. The nest is defended by the female for only a short time, and the nest box may be removed and the eggs taken for incubation shortly after being laid and covered up by the female. The eggs are 2 cm. x 4 cm. upon laying and weigh from 8 to 10 grams. They are incubated in a 1:1 by weight mixture of vermiculite and water. A covered air-tight Tupperware[™] type box is used for incubation, and the vermiculite/water substrate is changed every two weeks. About 5cm of air space is left between the surface of the substrate and the lid of the box to allow for gas exchange. Eggs are incubated at 82°F which has resulted in almost a 1:1 ratio of males to females. Incubation time has varied from 121 to almost 200 days. Earlier trials with different incubation temperatures resulted in deformities and poor egg viability. When the egg is slit, the egg is removed from the vermiculite and placed into another container on a clean, moist cloth. Hatchlings are removed from the vermiculite so they will not ingest it. Care must be taken not to frighten the hatchling into bursting out of its egg and tearing its umbilical tissue. The towel is changed daily and kept moist until the umbilical tissue drops off and the belly heals, usually occurring in two days. Hatchlings weigh between 8 and 14 grams and most can be sexed immediately by the distinct banding. Fijian iguana hatchlings are housed alone in 20 gallon screen sided terrariums outfitted with plants and climbing structures similar to the adult cages. Access to natural sunlight is permitted daily as hypocalcemia and other problems can develop rapidly in young animals. Young are weighed weekly until they start to eat well, and put on weight rapidly. Hatchlings are offered the same food and supplements as the adults. However, hatchlings seem to be more insectivorous than adults and should be fed insects more regularly. Normally young will begin eating within the first two weeks, but some do not. If a hatchling loses more than 10 percent of its body weight, it should be hand fed.

Hand feeding is done by carefully opening the mouth of the hatchling with a fingernail and placing the food item in its mouth. Normally the animal will bite down and chew immediately. While the animal is chewing, another item may be placed in its mouth. Another method of hand feeding is to crush different fruits in a little water and suck the mixture into an eyedropper. Place a drop of the fluid on the tip of the animal's nose. When the animal starts to lick, another drop can be placed. At three months of age, suitable pairs of animals may be placed together.





Hatchling Fijian Banded Iguana (Brachylophus bulabula)

Hatching and full term Fijian banded iguana eggs

Comments and Discussion

If certain requirements are met, the Fijian banded iguana is a hardy, long-lived animal. The lifespan of this iguana is believed to average 20 years with some specimens over 25 years in age documented. Animals in ill health show very obvious signs: poor appetite, their color will vary from black to bright chartreuse and their eyes will be sunken. Timely supportive care is necessary to keep these animals alive. Nematodes and the other typical types of intestinal parasites are occasionally found in captive iguanas, but are easily cured. Fiji banded iguanas have shown no adverse affects from most common antibiotics or antihelminthics. Ivermectin (Ivomec®, 1%, Merck & Co., Rahway, N.J.), however, should only be given orally **not** subcutaneously as extreme aggression and loss of appetite will result. These are fascinating and beautiful iguanas, and highly recommended to institutions with adequate facilities.

Bibliography

Fisher, R., Grant, T. & Harlow, P. 2012. Brachylophus bulabula. In: IUCN 2012. IUCN Red List of Threatened Species. Version 2012.2.

Ineich, I. 2011. Amphibians and reptiles. In: Bouchet P., Le Guyader H. & Pascal O. (eds), The Natural History of Santo. pp. 187-236. MNhN, Paris; Ird, Marseille; PNI, Paris. 572 pp. (Patrimoines naturels; 70).

INEICH, Ivan 2009. The terrestrial herpetofauna of Torres and Banks Groups (northern Vanuatu), with report of a new species for Vanuatu. Zootaxa 2198: 1-15

Keogh JS, Edwards DL, Fisher RN, Harlow PS. 2008. Molecular and morphological analysis of the critically endangered Fijian iguanas reveals cryptic diversity and a complex biogeographic history. Philos Trans R Soc Lond B Biol Sci. 363(1508): 3413-26

Robert N. Fisher, Niukula J, Watling D, Harlow PS. 2017. A new species of iguana *Brachylophus* Cuvier 1829 (Sauria: Iguania: Iguanidae) from Gau Island, Fiji Islands. Zootaxa 4273 (3): 407-422

Column Name Description

StudBook ID: Unique studbook number assigned when a specimen is entered into the studbook.

Sex: M = Male F = Female U = Unknown

Hatch Date/Hatch Date Estimate: Date of hatch (day/month/year). Hatch dates are actual, estimated, or unknown. Estimates can be accurate to the day, month, year or a range.

Sire/Dam: Studbook number of the parents. WILD if parents were imported from the wild; UNK if captive hatched iguanas are of unknown parentage.

Event: Type of event: capture, hatch, transfer, or death.

Location: Specimen location listed from earliest to most recent. If wild caught, location of capture site is reported.

Local ID: Accession or identification number assigned to the specimen by the institution.

Date/Date Est: Date of arrival (day/month/year) at institution. If the arrival date is unknown an estimated date is used.

Living Population by Institution

| Studbook | Hatch | Hatch Date | | | | | | | Local | | Date | | |
|---------------|-------------------|----------------|------|-----|------|--------------|----------|-----------|--------|------------|------|--|--|
| ID | Date | Est. | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Est. | | |
| ATLANTA - Z | oo Atlanta, At | lanta, GA, USA | | | | | | | | | | | |
| | | | | | | Not | | | | | | | |
| 183 | 3/27/2003 | None | 60 | 89 | Male | Contracepted | Hatch | SANDIEGOZ | 903034 | 3/27/2003 | None | | |
| | | | | | | | Transfer | LOWRY | 303581 | 11/12/2013 | None | | |
| | | | | | | | Transfer | ATLANTA | 15R001 | 1/20/2016 | None | | |
| Totals: 1.0.0 | Totals: 1.0.0 (1) | | | | | | | | | | | | |

| Studbook ID | Hatch Date | Hatch Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Date Est. | |
|----------------|-------------------|--------------------|------|-----|------|---------------------|----------|----------|----------|-----------|-----------|--|
| BUFFALO – B | Buffalo Zoo, B | uffalo, NY, USA | | | | | | | | | | |
| 268 | 7/9/2018 | None | 216 | 224 | Male | Not Contracepted | Hatch | LOWRY | 303793 | 3/27/2003 | None | |
| | | | | | | | Transfer | BUFFALO | R21000 | 4/28/2021 | None | |
| Totals: 1.0.0 | Totals: 1.0.0 (1) | | | | | | | | | | | |

| Studbook | Hatch | Hatch Date | | | | | | | Local | | Date | | |
|---------------|------------------|--------------------|---------|----------|--------|--------------|----------|-----------|--------|-----------|------|--|--|
| ID | Date | Est. | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Est. | | |
| CHICAGOBR | - Chicago Zoo | logical Society, E | Brookfi | eld, IL, | USA | | | | | | | | |
| | | | | | | Not | | | | | | | |
| 235 | 7/12/2013 | None | 225 | 227 | Male | Contracepted | Hatch | SANDIEGOZ | 913258 | 7/12/2013 | None | | |
| | | | | | | | Transfer | CHICAGOBR | 6086 | 6/9/2015 | None | | |
| | | | | | | | | | | | | | |
| 256 | 2/16/2018 | None | 216 | 224 | Female | Not | Hatch | LOWRY | 303735 | 2/16/2018 | None | | |
| | | | | | | Contracepted | | | | | | | |
| | | | | | | | Transfer | CHICAGO | 9669 | 1/14/2021 | None | | |
| Totals: 1.1.0 | otals: 1.1.0 (2) | | | | | | | | | | | | |

| Studbook ID | Hatch Date | Hatch Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Date Est. | |
|-----------------|------------------|--------------------|------|-----|------|--------------|----------|-----------|----------|-----------|-----------|--|
| | | roparks Zoo, Cl | | - | | p. oudoure | | | 2000.12 | 2 4 6 6 | 20.00 200 | |
| | | | | | | Not | | | | | | |
| 156 | 1/14/2000 | None | 60 | 89 | Male | Contracepted | Hatch | SANDIEGOZ | 900004 | 1/14/2000 | None | |
| | | | | | | | Transfer | SHEDD AQ | 205069 | 3/17/2006 | None | |
| | | | | | | | Transfer | CLEVELAND | M80904 | 9/17/2008 | None | |
| Totals: 1.0.0 (| otals: 1.0.0 (1) | | | | | | | | | | | |

| Studbook ID | Hatch Date | Hatch Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Date Est. |
|----------------|------------------|--------------------|------|-----|--------|---------------------|-------|----------|----------|-----------|--------------|
| DALLAS - Da | llas Zoo, Dallas | , TX, USA | | | | • | • | - | | | |
| 285 | 6/13/2020 | None | 213 | 234 | Male | Not Contracepted | Hatch | DALLAS | 20C247 | 6/13/2020 | None |
| 286 | 6/22/2020 | None | 213 | 234 | Female | Not Contracepted | Hatch | DALLAS | 20C251 | 6/22/2020 | None |
| Totals: 1.1.0 | (2) | | | | | | | | | | |

| Studbook ID | Hatch Date | Hatch Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Date Est. | |
|----------------|------------------|--------------------|------|-----|------|---------------------|----------|----------|-------------|-----------|--------------|--|
| DENVER - De | enver Zoo, De | nver, CO, USA | | | | | | | | | | |
| 262 | 2/18/2018 | None | 216 | 224 | Male | Not Contracepted | Hatch | LOWRY | 303739 | 2/18/2018 | None | |
| | | | | | | | Transfer | DENVER | A20048 | 7/8/2020 | None | |
| Totals: 1.0.0 | otals: 1.0.0 (1) | | | | | | | | | | | |

| Studbook | Hatch | Hatch Date | | | | | | | Local | | Date | |
|---------------|------------------|------------------|--------|-----|------|--------------|----------|-----------|--------|------------|------|--|
| ID | Date | Est. | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Est. | |
| EVANSVLLE - | - Mesker Park | Zoo, Evansville, | IN, US | A | | | | | | | | |
| | | | | | | Not | | | | | | |
| 161 | 2/16/2018 | None | 60 | 89 | Male | Contracepted | Hatch | SANDIEGOZ | 901017 | 2/16/2001 | None | |
| | | | | | | | Transfer | NORFOLK | 204073 | 10/12/2004 | None | |
| | | | | | | | Transfer | EVANSVLLE | 313010 | 5/18/2017 | None | |
| Totals: 1.0.0 | otals: 1.0.0 (1) | | | | | | | | | | | |

| Studbook | Hatch | Hatch Date | | | | | | | Local | | Date |
|---------------|-----------------|------------------|--------|----------|---------|--------------|----------|-----------|--------|------------|------|
| ID | Date | Est. | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Est. |
| FORTWORT | TH – Fort Worth | Zoological Park, | Fort V | Vorth, 1 | ΓX, USA | | | | | | |
| | | | | | | Not | | | | | |
| 216 | 12/29/2008 | None | 83 | 162 | Male | Contracepted | Hatch | SANDIEGOZ | 908560 | 12/29/2008 | None |
| | | | | | | | Transfer | LOWRY | 303631 | 4/22/2015 | None |
| | | | | | | | Transfer | FORTWORTH | 211912 | 1/14/2020 | None |
| 224 | 12/2/2010 | None | 186 | 185 | Female | Not | Hatch | SANDIEGOZ | 910590 | 12/2/2010 | None |
| | | | | | | Contracepted | | | | | |
| | | | | | | | Transfer | LOWRY | 303582 | 11/12/2013 | None |
| | | | · | | | | Transfer | FORTWORTH | UNK | 1/16/2020 | None |
| Totals: 1.1.0 | 0 (2) | | | | • | | | • | • | | • |

| Studbook | Hatch | Hatch Date | | | | | | | | | Date |
|---------------|----------------|------------------|---------|--------|---------|---------------------|----------|-----------|----------|------------|------|
| ID | Date | Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Est. |
| FRESNO - Cha | affee Zoologic | al Gardens of Fr | esno, F | resno, | CA, USA | | | | | | |
| | | | | | | Not | | | | | |
| 182 | 3/27/2003 | None | 60 | 89 | Male | Contracepted | Hatch | SANDIEGOZ | 903033 | 3/27/2003 | None |
| | | | | | | | Transfer | FRESNO | 290056 | 4/11/2009 | None |
| 245 | 4/25/2015 | None | 221 | 212 | Female | Not Contracepted | Hatch | NZP-WASH | 307533 | 4/25/2015 | None |
| | | | | | | | Transfer | FRESNO | 320092 | 10/20/2021 | None |
| Totals: 1.1.0 | (2) | | | | | | | | | | |

| Studbook | | Hatch Date | | | | | | | Local | | Date | | |
|---------------|------------------|----------------|--------|-----|--------|--------------|----------|-----------|--------|------------|------|--|--|
| ID | Hatch Date | Est. | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Est. | | |
| HOUSTON - | Houston Zoo, | Inc., Houston, | TX, US | A | | | | | | | | | |
| | | | | | | Not | | SAN | | | | | |
| 104 | 10/21/1994 | None | 27 | 42 | Male | Contracepted | Hatch | ANTON | 941028 | 10/21/1994 | None | | |
| | | | | | | | Transfer | HOUSTON | 15518 | 11/28/1994 | None | | |
| | | | | | | Not | | | | | | | |
| 199 | 2/11/2005 | None | 60 | 89 | Female | Contracepted | Hatch | SANDIEGOZ | 905012 | 2/11/2005 | None | | |
| | | | | | | | Transfer | HOUSTON | 22910 | 4/12/2007 | None | | |
| | | | | | | Not | | | | | | | |
| 209 | 5/7/2008 | None | 186 | 185 | Male | Contracepted | Hatch | SANDIEGOZ | 908138 | 5/7/2008 | None | | |
| | | | | | | | Transfer | HOUSTON | 28420 | 9/26/2013 | None | | |
| Totals: 2.1.0 | otals: 2.1.0 (3) | | | | | | | | | | | | |

| Studbook | Hatch | Hatch Date | Ciro | Dam | Cov | Donradustiva | Fuent | Location | Local | Data | Date | |
|---------------|-----------------------|---------------------------|--------|-----|------|--------------|----------|-----------|--------|-----------|------|--|
| ID | Date - Knowillo 70 | Est. oo, Knoxville, TI | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Est. | |
| KINOXVILLE | - KIIOXVIIIE ZO | o, Kiloxville, II | v, USA | | | | | | | | | |
| | | | | | | Not | | | | | | |
| 267 | 7/9/2018 | None | 216 | 224 | Male | Contracepted | Hatch | LOWRY | 303792 | 7/9/2018 | None | |
| | | | | | | | Transfer | KNOXVILLE | 5903 | 3/18/2021 | None | |
| Totals: 1.0.0 | Totals: 1.0.0 (1) | | | | | | | | | | | |

| Studbook ID | Hatch Date | Hatch Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Date Est. |
|----------------|----------------|--------------------|---------|-----|--------|---------------------|-------|----------|-------------|-----------|--------------|
| LOWRY - Tam | npa's Lowry Pa | irk Zoo, Tampa | , FL, U | SA | | | | | | | |
| 257 | 2/18/2018 | None | 216 | 224 | | Not Contracepted | Hatch | LOWRY | 303738 | 2/18/2018 | None |
| 258 | 2/18/2018 | None | 216 | 224 | Female | Not Contracepted | Hatch | LOWRY | 303737 | 2/18/2018 | None |

| 261 | 2/16/2018 | None | 216 | 224 | Male | Not Contracepted | Hatch | LOWRY | 303734 | 2/16/2018 | None |
|-----|-----------|------|-----|-----|--------|---------------------|-------|-------|--------|-----------|------|
| 263 | 7/5/2018 | None | 216 | 224 | Female | Not Contracepted | Hatch | LOWRY | 303788 | 7/5/2018 | None |
| 264 | 7/9/2018 | None | 216 | 224 | Female | Not Contracepted | Hatch | LOWRY | 303789 | 7/9/2018 | None |
| 265 | 7/9/2018 | None | 216 | 224 | Male | Not Contracepted | Hatch | LOWRY | 303790 | 7/9/2018 | None |
| 269 | 2/18/2018 | None | 216 | 224 | Male | Not Contracepted | Hatch | LOWRY | 303738 | 2/18/2018 | None |

Totals: 4.3.0 (7)

| Studbook | | Hatch Date | | | | | | | Local | | | |
|---------------|-------------------|-----------------|---------|--------|------|--------------|----------|-----------|---------|------------|-----------|--|
| ID | Hatch Date | Est. | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Date Est. | |
| NORFOLK - V | /irginia Zoolog | gical Park, Nor | folk, V | A, USA | | | | | | | | |
| | | | | | | Not | | | | | | |
| 222 | 10/15/2001 | None | 84 | 180 | Male | Contracepted | Hatch | SANDIEGOZ | 9010032 | 2/23/2010 | None | |
| | | | | | | | Transfer | EVANSVLLE | 313010 | 10/17/2013 | None | |
| | | | | | | | Transfer | NORFOLK | 217198 | 7/11/2017 | None | |
| Totals: 1.0.0 | Totals: 1.0.0 (1) | | | | | | | | | | | |

| Studbook | | Hatch Date | | | | | | | Local | | Date |
|-------------------|-----------------|----------------|---------|---------|-----------|--------------|----------|-----------|--------|------------|------|
| ID | Hatch Date | Est. | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Est. |
| NZP-WASH | - Smithsonian I | National Zoolo | gical P | ark, Wa | ashington | , DC, USA | | | | | |
| | | | | | | Not | | | | | |
| 212 | 12/13/2008 | None | 83 | 162 | Female | Contracepted | Hatch | SANDIEGOZ | 908521 | 12/13/2008 | None |
| | | | | | | | Transfer | NZP-WASH | 307298 | 7/27/2010 | None |
| | | | | | | Not | | | | | |
| 221 | 2/18/2010 | None | 84 | 180 | Male | Contracepted | Hatch | SANDIEGOZ | 910031 | 2/18/2010 | None |
| Totals: 1.1.0 (2) | | | | | | | | | | | |

| Studbook ID | Hatch Date | Hatch Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Date Est. |
|----------------|--------------|--------------------|---------|--------|------------|---------------------|----------|----------|-------------|-----------|-----------|
| OKLAHOMA | – Oklahoma (| City Zoologica | l Park, | Oklaho | oma, CA, l | JSA | | | | | |
| 266 | 7/9/2018 | None | 216 | 224 | Male | Not Contracepted | Hatch | LOWRY | 303791 | 7/9/2018 | None |
| | | | | | | | Transfer | OKLAHOMA | 752401 | 7/21/2020 | None |
| Totals: 1.0.0 | (1) | | | | | | | | | | |

| Studbook ID | Hatch Date | Hatch Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Date Est. | |
|----------------|-------------------|--------------------|--------|-----|------------|---------------------|----------|-----------|-------------|-----------|-----------|--|
| SAN ANTON | l - San Antonio | Zoological G | ardens | & | ; Aquar, S | an Antonio, TX, US | Ā | | | | | |
| 260 | 2/16/2018 | None | 216 | 224 | Male | Not Contracepted | Hatch | LOWRY | 303736 | 2/16/2018 | None | |
| | | | | | | | Transfer | SAN ANTON | B20008 | 10/7/2020 | None | |
| Totals: 1.0.0 | Totals: 1.0.0 (1) | | | | | | | | | | | |

| Studbook ID | Hatch Date | Hatch Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Date Est. |
|----------------|----------------|--------------------|------|------|--------|---------------------|----------|-----------|-------------|-----------|--------------|
| SANDIEGOZ | - San Diego Zo | | | 4 | | | | | | | |
| 180 | 3/7/2003 | None | 84 | 59 | Female | Not Contracepted | Hatch | SANDIEGOZ | 903031 | 3/7/2003 | None |
| 225 | 7/1/2005 | Year | WILD | WILD | Male | Not Contracepted | Hatch | FIJI | UNK | 7/1/2005 | None |
| | | | | | | | Transfer | USFWS | UNK | 5/11/2007 | None |
| | | | | | | | Transfer | SANDIEGOZ | 907105 | 10/4/2011 | None |
| | | | | | | | Transfer | SANDIEGOZ | 907105 | 5/11/2007 | None |
| | | | | | | | | | | | |
| 227 | 7/1/2005 | Year | WILD | WILD | Female | Not Contracepted | Hatch | FIJI | UNK | 7/1/2005 | Year |

| | | | | | | | T | LICENAC | 1.18117 | E /4.4 /2.2.2 | NI. |
|-----|------------|------|------|-----|--------|---------------------|----------|-----------|---------|---------------|------|
| | | | | | | | Transfer | USFWS | UNK | 5/11/2007 | None |
| | | | | | | | Transfer | SANDIEGOZ | 907107 | 5/11/2007 | None |
| 230 | 12/22/2007 | None | WILD | 226 | Female | Not Contracepted | Hatch | SANDIEGOZ | 907581 | 12/22/2007 | None |
| 232 | 1/11/2011 | None | 208 | 215 | Female | Not Contracepted | Hatch | SANDIEGOZ | 911032 | 1/11/2011 | None |
| 236 | 7/18/2013 | None | 225 | 227 | Male | Not Contracepted | Hatch | SANDIEGOZ | 913268 | 7/18/2013 | None |
| 237 | 7/22/2013 | None | 225 | 227 | Male | Not Contracepted | Hatch | SANDIEGOZ | 913270 | 7/22/2013 | None |
| 239 | 12/30/2013 | None | 225 | 227 | Female | Not Contracepted | Hatch | SANDIEGOZ | 913464 | 12/30/2013 | None |
| 240 | 12/30/2013 | None | 225 | 227 | Female | Not Contracepted | Hatch | SANDIEGOZ | 913465 | 12/30/2013 | None |
| 241 | 6/15/2015 | None | 225 | 227 | Female | Not Contracepted | Hatch | SANDIEGOZ | 915092 | 6/15/2015 | None |
| 242 | 6/15/2015 | None | 225 | 227 | Male | Not Contracepted | Hatch | SANDIEGOZ | 915093 | 6/15/2015 | None |
| 243 | 6/15/2015 | None | 225 | 227 | Male | Not Contracepted | Hatch | SANDIEGOZ | 915094 | 6/15/2015 | None |
| 246 | 1/8/2016 | None | 221 | 212 | Male | Not Contracepted | Hatch | NZP-WASH | 307587 | 1/8/2016 | None |
| | | | | | | · | Transfer | SANDIEGOZ | 916380 | 5/23/2019 | None |
| 247 | 1/7/2016 | None | 221 | 212 | Male | Not Contracepted | Hatch | NZP-WASH | 307589 | 1/7/2016 | None |
| | | | | | | · | Transfer | SANDIEGOZ | 916382 | 5/23/2019 | None |
| 249 | 6/1/2016 | None | 216 | 224 | Female | Not Contracepted | Hatch | LOWRY | 303660 | 6/1/2016 | None |
| | | | | | | | Transfer | SANDIEGOZ | 916098 | | None |
| 250 | 6/1/2016 | None | 216 | 224 | Female | Not Contracepted | Hatch | LOWRY | 303661 | 6/1/2016 | None |
| | | | | | | | Transfer | SANDIEGOZ | 916099 | 10/30/2018 | None |
| - | | | | | • | | • | | | | |

| 251 | 6/11/2016 | None | 216 | 224 | Male | Not Contracepted | Hatch | LOWRY | 303663 | 6/1/2016 | None |
|-----|--------------|------|------|------|--------|---------------------|----------------------------|-----------|---------|------------|----------------|
| | | | | | | | Transfer | SANDIEGOZ | 916097 | 10/30/2018 | None |
| 252 | 1/28/2016 | None | 221 | 212 | Male | Not Contracepted | Hatch | NZP-WASH | 307590 | 1/28/2016 | None |
| | | | | | | | Transfer | SANDIEGOZ | 916383 | 5/23/2019 | None |
| 273 | 1/14/2019 | None | | | Female | Not Contracepted | Hatch | | 1000031 | 1/14/2019 | None |
| 274 | 5/4/2019 | None | | | Male | Not Contracepted | Hatch | | 1000366 | 5/4/2019 | None |
| 275 | 1/1/2015 +/- | None | WILD | WILD | Male | Not Contracepted | Hatch | FIJI | - | 1/1/2015 | +/- 6 month |
| | | | | | | | Transfer (Wild Capture) | FIJI | - | 1/1/2017 | +/- 6 month |
| | | | | | | | Transfer | BUENOSAR | R1200 | 1/17/2018 | None |
| | | | | | | | Transfer | SANDIEGOZ | 918030 | 6/6/2018 | None |
| 276 | | None | | | Male | Not Contracepted | Hatch | SANDIEGOZ | 1001350 | 12/4/2019 | None |
| 277 | | None | | | Male | Not Contracepted | Hatch | SANDIEGOZ | 1001424 | 1/2/2020 | None |
| 278 | | None | | | Female | Not Contracepted | Hatch | SANDIEGOZ | 1001427 | 1/4/2020 | None |
| 279 | | None | | | Male | Not Contracepted | Hatch | SANDIEGOZ | 1001426 | 1/4/2020 | None |
| 280 | | None | | | Female | Not Contracepted | Hatch | SANDIEGOZ | 1001506 | 1/23/2020 | None |
| 281 | | None | | | Male | Not Contracepted | Hatch | SANDIEGOZ | 1001736 | 3/29/2020 | None |
| 282 | | None | | | Female | Not Contracepted | Hatch | SANDIEGOZ | 1001739 | 3/31/2020 | None |
| 283 | | None | | | Male | Not Contracepted | Hatch | SANDIEGOZ | 1001800 | 4/22/2020 | None |
| 284 | | None | | | Male | Not Contracepted | Hatch | SANDIEGOZ | 1001910 | 1/2/2020 | |

| 288 | None | Female | Not | Hatch | SANDIEGOZ | 1001881 | 5/18/2021 | |
|-----------------|--------|--------|--------------|-------|-----------|---------|-----------|--|
| | | | Contracepted | | | | | |
| 289 | None | Female | Not | Hatch | SANDIEGOZ | 1001896 | 5/27/2021 | |
| | | | Contracepted | | | | | |
| 290 | None | Male | Not | Hatch | SANDIEGOZ | 1001873 | 5/15/2020 | |
| | | | Contracepted | | | | | |
| Totals: 19.14.0 | 0 (33) | | | | | | | |

| Studbook | | Hatch Date | | | | | | | Local | | Date | |
|---------------|-------------------|----------------|---------|---------|------|--------------|----------|-----------|--------|-----------|------|--|
| ID | Hatch Date | Est. | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Est. | |
| TOLEDO - To | oledo Zoologic | al Gardens, To | ledo, (| OH, USA | A | | | | | | | |
| | | | | | | Not | | | | | | |
| 208 | 5/5/2008 | None | 186 | 185 | Male | Contracepted | Hatch | SANDIEGOZ | 908137 | 5/5/2008 | None | |
| | | | | | | | Transfer | TOLEDO | 7795 | 4/26/2012 | None | |
| Totals: 1.0.0 | Totals: 1.0.0 (1) | | | | | | | | | | | |

| Studbook ID | Hatch Date | Hatch Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date | Date Est. | |
|----------------|-------------------|--------------------|------|-----|------|--------------|----------|----------|-------------|------------|--------------|--|
| TORONTO - | Toronto Zoo, | Toronto, ON, l | JSA | | | - | • | | | | | |
| | | | | | | Not | | | | | | |
| 291 | 9/2/2014 | None | UND | UND | Male | Contracepted | Hatch | KOLN | R714 | 9/2/2019 | None | |
| | | | | | | | Transfer | TORONTO | 50589 | 10/18/2018 | None | |
| | | | | | | Not | | | | | | |
| 292 | 9/8/2013 | None | UND | UND | Male | Contracepted | Hatch | ZURICH | B30506 | 9/8/2013 | None | |
| | | | | | | | Transfer | TORONTO | 51681 | 9/15/2021 | None | |
| Totals: 1.1.0 | Totals: 1.1.0 (2) | | | | | | | | | | | |

| Studbook | | Hatch | | | | | | | Local | | Date |
|-------------|-----------------|-------------|----------|--------|-----|--------------|-------|----------|-------|------|------|
| ID | Hatch Date | Date Est. | Sire | Dam | Sex | Reproductive | Event | Location | ID | Date | Est. |
| TULSA - Tul | sa Zoo & Living | g Museum, T | ulsa, Ok | (, USA | | | | | | | |

| 219 | 12/30/2009 | None | 84 | 180 | Male | Not Contracepted | Hatch | SANDIEGOZ | 909562 | 12/30/2009 | None |
|---------------|-------------------|------|----|-----|------|---------------------|----------|-----------|--------|------------|------|
| | | | | | | | Transfer | TULSA | 16554 | 7/12/2012 | None |
| Totals: 1.0.0 | Totals: 1.0.0 (2) | | | | | | | | | | |

TOTALS: 42.24.0 (66)

Historical Population by Studbook Number

| Studbook | | | | | | | | | |
|----------|-------------|------|------|--------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 1 | 01/Jan/1975 | | | | | | | | 01/Jan/1975 +/- |
| 1 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1975 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 236 | 27/Jul/1976 |
| | | | | | | Death | SANDIEGOZ | 236 | 07/Jan/1986 |
| 2 | 01/Jun/1972 | | | | | | | | 01/Jun/1972 +/- |
| 2 | +/- 6 month | WILD | WILD | Male | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1972 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1973 +/- |
| | | | | | | Transfer | SACRAMNTO | 300171 | 15 day |
| | | | | | | Transfer | SANDIEGOZ | 1191 | 20/Jul/1977 |
| | | | | | | Death | SANDIEGOZ | 1191 | 14/Jan/1986 |
| 3 | 05/Nov/1981 | 68 | 64 | Male | - | Birth/Hatch | SANDIEGOZ | 381224 | 05/Nov/1981 |
| | | | | | | Death | SANDIEGOZ | 381224 | 01/Jun/1999 |
| 4 | 16/May/1982 | 2 | 1 | Male | - | Birth/Hatch | SANDIEGOZ | 382060 | 16/May/1982 |
| | | | | | | Transfer | FORTWORTH | 895001 | 24/May/1989 |
| | | | | | | Transfer | SANDIEGOZ | 382060 | 20/May/1991 |
| | | | | | | Death | SANDIEGOZ | 382060 | 11/Apr/2001 |
| _ | 01/Jun/1986 | | | | | | | | 01/Jun/1986 +/- |
| 5 | +/- 15 day | WILD | WILD | Male | - | Birth/Hatch | ORCHIDISL | UNK | 15 day |
| | | | | | | | | | 01/Jun/1986 +/- |
| | | | | | | Transfer | ORCHIDISL | UNK | 15 day |
| | | | | | | Transfer | SANDIEGOZ | 187307 | 16/Sep/1987 |
| | | | | | | Death | SANDIEGOZ | 187307 | 12/Sep/2002 |
| | 01/Oct/1985 | | | | | | | | 01/Oct/1985 +/- |
| 6 | +/- 1 day | WILD | WILD | Female | - | Birth/Hatch | ORCHIDISL | UNK | 1 day |
| | | | | | | Transfer | SANDIEGOZ | 187308 | 16/Sep/1987 |
| | | | | | | Death | SANDIEGOZ | 187308 | 13/Apr/1993 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|--------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 7 | 01/Jul/1986 | | | | | | | | 01/Jul/1986 +/- |
| / | +/- 15 day | WILD | WILD | Female | - | Birth/Hatch | ORCHIDISL | UNK | 15 day |
| | | | | | | Transfer | SANDIEGOZ | 187309 | 16/Sep/1987 |
| | | | | | | Death | SANDIEGOZ | 187309 | 20/Nov/1992 |
| | 01/Oct/1985 | | | | | | | | 01/Oct/1985 +/- |
| 8 | +/- 1 day | WILD | WILD | Female | - | Birth/Hatch | ORCHIDISL | UNK | 1 day |
| | | | | | | Transfer | SANDIEGOZ | 187310 | 16/Sep/1987 |
| | | | | | | Death | SANDIEGOZ | 187310 | 20/May/1996 |
| 0 | 01/Jan/1986 | | | | | | | | 01/Jan/1986 +/- |
| 9 | +/- 15 day | WILD | WILD | Male | - | Birth/Hatch | ORCHIDISL | UNK | 15 day |
| | | | | | | Transfer | SANDIEGOZ | 188091 | 19/May/1988 |
| | | | | | | Death | SANDIEGOZ | 188091 | 25/Aug/1998 |
| 40 | 01/Jan/1987 | | | | | | | | 01/Jan/1987 +/- |
| 10 | +/- 15 day | WILD | WILD | Male | - | Birth/Hatch | ORCHIDISL | UNK | 15 day |
| | | | | | | Transfer | SANDIEGOZ | 188092 | 19/May/1988 |
| | | | | | | Death | SANDIEGOZ | 188092 | 03/Aug/1997 |
| 11 | 01/Jan/1987 | | | | | | | | 01/Jan/1987 +/- |
| 11 | +/- 6 month | WILD | WILD | Male | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1987 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1987 +/- |
| | | | | | | Transfer | ORCHIDISL | UNK | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 188093 | 19/May/1988 |
| | | | | | | Transfer | FORTWORTH | 905001 | 17/May/1990 |
| | | | | | | Transfer | SANDIEGOZ | 188093 | 20/Mar/1991 |
| | | | | | | Transfer | TULSA | 12696 | 30/Apr/1998 |
| | | | | | | Death | TULSA | 12696 | 13/May/2013 |
| 12 | 01/Jan/1986 | | | | | | | | 01/Jan/1986 +/- |
| 12 | +/- 15 day | WILD | WILD | Female | - | Birth/Hatch | ORCHIDISL | UNK | 15 day |
| | | | | | | Transfer | SANDIEGOZ | 188095 | 19/May/1988 |
| | | | | | | Transfer | FORTWORTH | 885002 | 04/Aug/1988 |
| | | | | | | Transfer | SANDIEGOZ | 188095 | 09/May/1990 |
| | | | | | | Death | SANDIEGOZ | 188095 | 15/May/1991 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|--------|--------------|-------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 42 | 01/Jan/1986 | | | | | | | | 01/Jan/1986 +/- |
| 13 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | ORCHIDISL | UNK | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 188096 | 19/May/1988 |
| | | | | | | Death | SANDIEGOZ | 188096 | 21/Aug/1996 |
| 14 | 20/Jul/1989 | 5 | 6 | Female | - | Birth/Hatch | SANDIEGOZ | 189174 | 20/Jul/1989 |
| | | | | | | Transfer | CINCINNAT | 390055 | 03/Jul/1990 |
| | | | | | | Death | CINCINNAT | 390055 | 13/May/1995 |
| 15 | 31/Jul/1989 | 5 | 6 | Female | - | Birth/Hatch | SANDIEGOZ | 189183 | 31/Jul/1989 |
| | | | | | | Transfer | AUDUBON | R1084 | 23/Mar/1993 |
| | | | | | | | | | 25/Oct/1999 +/- |
| | | | | | | Death | AUDUBON | R1084 | 1 day |
| 16 | 08/Aug/1989 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 189190 | 08/Aug/1989 |
| | | | | | | Transfer | KNOXVILLE | 926 | 16/May/1990 |
| | | | | | | Death | KNOXVILLE | 926 | 19/Feb/1991 |
| 17 | 09/Aug/1989 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 189191 | 09/Aug/1989 |
| | | | | | | Transfer | KNOXVILLE | 927 | 16/May/1990 |
| | | | | | | Death | KNOXVILLE | 927 | 18/Nov/1991 |
| 18 | 21/Nov/1989 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 189337 | 21/Nov/1989 |
| | | | | | | Transfer | ST LOUIS | 920451 | 28/Apr/1992 |
| | | | | | | Death | ST LOUIS | 920451 | 19/Nov/2005 |
| 19 | 23/Feb/1990 | 5 | 6 | Female | - | Birth/Hatch | SANDIEGOZ | 190049 | 23/Feb/1990 |
| | | | | | | Death | SANDIEGOZ | 190049 | 29/Jan/1994 |
| 20 | 07/Mar/1990 | 5 | 6 | Female | - | Birth/Hatch | SANDIEGOZ | 190066 | 07/Mar/1990 |
| | | | | | | Death | SANDIEGOZ | 190066 | 01/Oct/1991 |
| 21 | 09/Mar/1990 | 3 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 190067 | 09/Mar/1990 |
| | | | | | | Transfer | CINCINNAT | 390054 | 03/Jul/1990 |
| | | | | | | Death | CINCINNAT | 390054 | 11/Jun/1991 |
| 22 | 09/Mar/1990 | 3 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 190068 | 09/Mar/1990 |
| | | | | | | Death | SANDIEGOZ | 190068 | 03/Oct/2003 |
| 23 | 19/Jul/1990 | 3 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 190198 | 19/Jul/1990 |
| | | | | | | Death | SANDIEGOZ | 190198 | 18/Jun/2003 |
| 24 | 21/Jul/1990 | 3 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 190199 | 21/Jul/1990 |
| | | | | | | Transfer | AUDUBON | R1083 | 23/Mar/1993 |
| | | | | | | Transfer | SANDIEGOZ | 190199 | 17/Oct/1996 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|--------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Transfer | OMAHA | 11329 | 22/Sep/1999 |
| | | | | | | Death | OMAHA | 1329 | 16/May/2012 |
| 25 | 24/Jul/1990 | 3 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 190203 | 24/Jul/1990 |
| | | | | | | Death | SANDIEGOZ | 190203 | 01/Sep/1994 |
| 26 | 25/Jul/1990 | 3 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 190204 | 25/Jul/1990 |
| | | | | | | Transfer | DALLAS | 917233 | 15/Aug/1991 |
| | | | | | | Transfer | SANDIEGOZ | 190204 | 20/Jul/1995 |
| | | | | | | Transfer | AUDUBON | R1382 | 15/Oct/1996 |
| | | | | | | Transfer | ST AUGUST | A01021 | 16/May/2001 |
| | | | | | | Transfer | CENTRALPK | C07056 | 28/May/2007 |
| | | | | | | Death | CENTRALPK | C07056 | 25/Jun/2007 |
| 27 | 29/Jul/1990 | 3 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 190240 | 29/Jul/1990 |
| | | | | | | Transfer | SAN ANTON | 930331 | 23/Mar/1993 |
| | | | | | | Death | SAN ANTON | 930331 | 01/Sep/2000 |
| 28 | 29/Jul/1990 | 3 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 190241 | 29/Jul/1990 |
| | | | | | | Death | SANDIEGOZ | 190241 | 19/Sep/1997 |
| 29 | 25/Oct/1990 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 190343 | 25/Oct/1990 |
| | | | | | | Transfer | DALLAS | 917234 | 15/Aug/1991 |
| | | | | | | Death | DALLAS | 917234 | 25/Mar/1994 |
| 30 | 27/Oct/1990 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 190344 | 27/Oct/1990 |
| | | | | | | Death | SANDIEGOZ | 190344 | 11/Feb/1992 |
| 31 | 30/Oct/1990 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 190355 | 30/Oct/1990 |
| | | | | | | Transfer | ST LOUIS | 920452 | 28/Apr/1992 |
| | | | | | | Death | ST LOUIS | 920452 | 18/Oct/1995 |
| 32 | 03/Nov/1990 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 190362 | 03/Nov/1990 |
| | | | | | | Transfer | CINCINNAT | 393126 | 05/May/1993 |
| | | | | | | Death | CINCINNAT | 393126 | 29/Jul/2004 |
| 33 | 21/Nov/1990 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 190363 | 21/Nov/1990 |
| | | | | | | Transfer | CINCINNAT | 391062 | 01/Oct/1991 |
| | | | | | | Death | CINCINNAT | 391062 | 01/Mar/2000 |
| 34 | 27/Nov/1990 | 10 | 8 | Female | - | Birth/Hatch | SANDIEGOZ | 190364 | 27/Nov/1990 |
| | | | | | | Death | SANDIEGOZ | 190364 | 10/Apr/1992 |
| 35 | 29/Nov/1990 | 10 | 8 | Female | - | Birth/Hatch | SANDIEGOZ | 190365 | 29/Nov/1990 |
| | | | | | | Transfer | DALLAS | 917232 | 15/Aug/1991 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|--------|--------------|-------------|-----------|------------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Death | DALLAS | 917232 | 12/Mar/1995 |
| 36 | 04/Dec/1990 | 10 | 8 | Male | - | Birth/Hatch | SANDIEGOZ | 190366 | 04/Dec/1990 |
| | | | | | | Death | SANDIEGOZ | 190366 | 31/Mar/2006 |
| 37 | 30/Jan/1991 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 191005 | 30/Jan/1991 |
| | | | | | | Death | SANDIEGOZ | 191005 | 18/Jul/1997 |
| 38 | 31/Jan/1991 | 10 | 8 | Male | - | Birth/Hatch | SANDIEGOZ | 191006 | 31/Jan/1991 |
| | | | | | | Transfer | CYCLURARC | UNK | 10/Mar/1992 |
| | | | | | | Transfer | SANDIEGOZ | 191006 | 18/Mar/1995 |
| | | | | | | Transfer | TOLEDO | 973150 | 03/Sep/1997 |
| | | | | | | Death | TOLEDO | 73150 | 24/Aug/2012 |
| 39 | 21/Feb/1991 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 191022 | 21/Feb/1991 |
| | | | | | | Death | SANDIEGOZ | 191022 | 20/Mar/1992 |
| 40 | 06/Apr/1991 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 191070 | 06/Apr/1991 |
| | | | | | | Transfer | CINCINNAT | 391063 | 01/Oct/1991 |
| | | | | | | Transfer | CINCINNAT | 391063 | 10/Jan/1992 |
| | | | | | | Transfer | CINCINNAT | 391063 | 01/Oct/1992 |
| | | | | | | Death | CINCINNAT | 391063 | 03/Feb/1993 |
| 41 | 03/Jul/1991 | 5 | 6 | Male | - | Birth/Hatch | SANDIEGOZ | 191150 | 03/Jul/1991 |
| | | | | | | Death | SANDIEGOZ | 191150 | 26/Apr/2013 |
| 42 | 01/Feb/1991 | 10 | 8 | Female | - | Birth/Hatch | SANDIEGOZ | 191007 | 01/Feb/1991 |
| | | | | | | Transfer | SAN ANTON | 930332 | 23/Mar/1993 |
| | | | | | | Death | SAN ANTON | 930332 | 22/Oct/2002 |
| 43 | 03/Jun/1991 | 5 | 6 | Male | - | Birth/Hatch | SANDIEGOZ | 191132 | 03/Jun/1991 |
| | | | | | | Transfer | DALLAS | 917231 | 15/Aug/1991 |
| | | | | | | Transfer | SANDIEGOZ | 191132 | 20/Jul/1995 |
| | | | | | | | | death code | |
| | | | | | | Death | SANDIEGOZ | needed | 15/Aug/2011 |
| 44 | 17/Jun/1991 | 5 | 6 | Female | - | Birth/Hatch | SANDIEGOZ | 191146 | 17/Jun/1991 |
| | | | | | | Transfer | CYCLURARC | UNK | 10/Mar/1992 |
| | | | | | | Transfer | SANDIEGOZ | 191146 | 18/Mar/1995 |
| | | | | | | Transfer | TOLEDO | 973151 | 03/Sep/1997 |
| | | | | | | Death | TOLEDO | 973151 | 16/Sep/2008 |
| 45 | 29/Dec/1991 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 191417 | 29/Dec/1991 |
| | | | | | | Transfer | TOLEDO | 933029 | 20/Apr/1993 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|---------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Transfer | DETROIT | 5767 | 08/May/1997 |
| | | | | | | Death | DETROIT | 5767 | 24/Jul/2004 |
| 46 | 13/Apr/1992 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 192097 | 13/Apr/1992 |
| | | | | | | Transfer | FRESNO | 6690 | 23/Mar/1993 |
| | | | | | | Death | FRESNO | 6690 | 28/Nov/2003 |
| 47 | 13/Apr/1992 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 192098 | 13/Apr/1992 |
| | | | | | | Transfer | DENVER | 930095 | 20/Apr/1993 |
| | | | | | | Transfer | ATLANTA | 985000 | 28/Apr/1998 |
| | | | | | | Death | ATLANTA | 985000 | 20/Apr/2001 |
| 48 | 18/Apr/1992 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 192106 | 18/Apr/1992 |
| | | | | | | Transfer | CINCINNAT | 393127 | 05/May/1993 |
| | | | | | | Death | CINCINNAT | 393127 | 10/Jul/1993 |
| 40 | | | | Undeter | | | | | |
| 49 | 03/Jan/1992 | 9 | 7 | mined | - | Birth/Hatch | SANDIEGOZ | 192005 | 03/Jan/1992 |
| | | | | | | Death | SANDIEGOZ | 192005 | 03/Jan/1992 |
| 50 | 09/Aug/1992 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 192345 | 09/Aug/1992 |
| | | | | | | Transfer | CINCINNAT | 393128 | 05/May/1993 |
| | | | | | | Death | CINCINNAT | 393128 | 02/Jan/1996 |
| 51 | 15/Aug/1992 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 192355 | 15/Aug/1992 |
| | | | | | | Transfer | TOLEDO | 933030 | 20/Apr/1993 |
| | | | | | | Transfer | DETROIT | 5768 | 08/May/1997 |
| | | | | | | Death | DETROIT | 5768 | 21/Dec/1997 |
| 52 | 24/Aug/1992 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 192362 | 24/Aug/1992 |
| | | | | | | Transfer | DENVER | 930094 | 20/Apr/1993 |
| | | | | | | Death | DENVER | 930094 | 27/Nov/1996 |
| 53 | 04/Sep/1992 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 192364 | 04/Sep/1992 |
| | | | | | | Death | SANDIEGOZ | 192364 | 16/Mar/1998 |
| 54 | 08/Sep/1992 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 192366 | 08/Sep/1992 |
| | | | | | | Transfer | FRESNO | 6691 | 23/Mar/1993 |
| | | | | | | Death | FRESNO | 6691 | 14/Apr/1998 |
| 55 | 10/Oct/1992 | 10 | 8 | Female | - | Birth/Hatch | SANDIEGOZ | 192451 | 10/Oct/1992 |
| | | | | | | Death | SANDIEGOZ | 192451 | 12/Mar/2001 |
| 56 | 16/Oct/1992 | 10 | 8 | Male | - | Birth/Hatch | SANDIEGOZ | 192452 | 16/Oct/1992 |
| | | | | | | Transfer | CRAP | UNK | 14/Nov/1995 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|---------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Death | CRAP | UNK | 15/Jan/1996 |
| 57 | 14/Nov/1992 | 11 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 192521 | 14/Nov/1992 |
| | | | | | | Transfer | HONOLULU | 930502 | 09/Dec/1993 |
| | | | | | | Death | HONOLULU | 930502 | 10/Jul/1996 |
| 58 | 17/Nov/1992 | 11 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 192522 | 17/Nov/1992 |
| | | | | | | Transfer | LOSANGELE | 990379 | 03/Apr/2001 |
| | | | | | | Death | LOSANGELE | 990379 | 15/Jul/2008 |
| 59 | 17/Nov/1992 | 11 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 192523 | 17/Nov/1992 |
| | | | | | | Transfer | CRAP | UNK | 14/Nov/1995 |
| | | | | | | Transfer | SANDIEGOZ | 192523 | 04/Jun/1996 |
| | | | | | | Death | SANDIEGOZ | 192523 | 07/May/2008 |
| 60 | 24/Nov/1992 | 11 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 192535 | 24/Nov/1992 |
| | | | | | | Death | SANDIEGOZ | 192535 | 25/Feb/2016 |
| 61 | 25/Nov/1992 | 11 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 192538 | 25/Nov/1992 |
| | | | | | | Death | SANDIEGOZ | 192538 | 19/Sep/2013 |
| 62 | 28/Nov/1992 | 11 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 192539 | 28/Nov/1992 |
| | | | | | | Death | SANDIEGOZ | 192539 | 06/Feb/2007 |
| 63 | | | | Undeter | | | | | |
| 03 | 03/Oct/1992 | 26 | 35 | mined | - | Birth/Hatch | DALLAS | 927971 | 03/Oct/1992 |
| | | | | | | Death | DALLAS | 927971 | 15/Oct/1992 |
| 64 | 01/Jan/1974 | | | | | | | | 01/Jan/1974 +/- |
| 04 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1974 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 198 | 14/Apr/1975 |
| | | | | | | Death | SANDIEGOZ | 198 | 12/Apr/1982 |
| 65 | 01/Jan/1974 | | | | | | | | 01/Jan/1974 +/- |
| 03 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1974 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 199 | 14/Apr/1975 |
| | | | | | | Death | SANDIEGOZ | 199 | 22/May/1980 |
| 66 | 01/Jan/1974 | | | | | | | | 01/Jan/1974 +/- |
| | +/- 6 month | WILD | WILD | Male | _ | Birth/Hatch | Fiji / ~ | - | 6 month |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|---------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | | | | 01/Jan/1974 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 200 | 21/Oct/1975 |
| | | | | | | Death | SANDIEGOZ | 200 | 19/Apr/1979 |
| 67 | 01/Jan/1975 | | | | | | | | 01/Jan/1975 +/- |
| 67 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1975 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 237 | 27/Jul/1976 |
| | | | | | | Death | SANDIEGOZ | 237 | 23/Jul/1981 |
| 60 | 01/Jan/1975 | | | | | | | | 01/Jan/1975 +/- |
| 68 | +/- 6 month | WILD | WILD | Male | _ | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1975 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 238 | 27/Jul/1976 |
| | | | | | | Death | SANDIEGOZ | 238 | 21/Dec/1986 |
| 60 | 01/Jan/1976 | | | | | | | | 01/Jan/1976 +/- |
| 69 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1976 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | ST LOUIS | R77033 | 03/Mar/1977 |
| | | | | | | Transfer | SANDIEGOZ | 186022 | 23/Oct/1986 |
| | | | | | | Death | SANDIEGOZ | 186022 | 25/May/1987 |
| 70 | | | | Undeter | | | | | |
| 70 | 21/Jul/1989 | 5 | 6 | mined | _ | Birth/Hatch | SANDIEGOZ | 189175 | 21/Jul/1989 |
| | | | | | | Death | SANDIEGOZ | 189175 | 26/Jul/1989 |
| 71 | 31/Jul/1989 | 5 | 6 | Male | - | Birth/Hatch | SANDIEGOZ | 189184 | 31/Jul/1989 |
| | | | | | | Death | SANDIEGOZ | 189184 | 01/Aug/1989 |
| 72 | 09/Aug/1989 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 189192 | 09/Aug/1989 |
| | | | | | | Death | SANDIEGOZ | 189192 | 09/Aug/1989 |
| 73 | 02/Dec/1989 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 189353 | 02/Dec/1989 |
| | | | | | | Death | SANDIEGOZ | 189353 | 02/Dec/1989 |
| 74 | 01/Jan/1986 | | | | | | | | 01/Jan/1986 +/- |
| 74 | +/- 15 day | WILD | WILD | Female | - | Birth/Hatch | ORCHIDISL | UNK | 15 day |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|---------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Transfer | SANDIEGOZ | 188094 | 19/May/1988 |
| | | | | | | Death | SANDIEGOZ | 188094 | 03/Jul/1989 |
| 75 | 15/Apr/1991 | 9 | 7 | Female | - | Birth/Hatch | SANDIEGOZ | 191082 | 15/Apr/1991 |
| | | | | | | Death | SANDIEGOZ | 191082 | 07/Jun/1991 |
| 76 | | | | Undeter | | | | | |
| 76 | 10/Dec/1991 | 9 | 7 | mined | - | Birth/Hatch | SANDIEGOZ | 191392 | 10/Dec/1991 |
| | | | | | | Death | SANDIEGOZ | 191392 | 11/Dec/1991 |
| 79 | 19/Dec/1992 | 10 | 8 | Male | - | Birth/Hatch | SANDIEGOZ | 192547 | 19/Dec/1992 |
| | | | | | | Transfer | DALLAS | 07H035 | 17/Feb/2007 |
| | | | | | | Death | DALLAS | 07H035 | 15/Jun/2018 |
| 80 | 25/Dec/1992 | 10 | 8 | Female | - | Birth/Hatch | SANDIEGOZ | 192548 | 25/Dec/1992 |
| | | | | | | Transfer | HONOLULU | 930501 | 09/Dec/1993 |
| | | | | | | Death | HONOLULU | 930501 | 11/Sep/1995 |
| 81 | 26/Dec/1992 | 10 | 8 | Female | - | Birth/Hatch | SANDIEGOZ | 192549 | 26/Dec/1992 |
| | | | | | | Transfer | TULSA | 12697 | 30/Apr/1998 |
| | | | | | | Death | TULSA | 12697 | 18/Sep/1998 |
| 82 | 27/Feb/1993 | 24 | 19 | Female | - | Birth/Hatch | SANDIEGOZ | 193139 | 27/Feb/1993 |
| | | | | | | Death | SANDIEGOZ | 193139 | 12/Apr/1993 |
| 83 | 16/Mar/1993 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 193178 | 16/Mar/1993 |
| | | | | | | Death | SANDIEGOZ | 93178 | 10/Jun/2015 |
| 84 | 03/Mar/1993 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 193264 | 03/Mar/1993 |
| | | | | | | Death | SANDIEGOZ | 193264 | 12/Jun/2014 |
| 85 | 03/Apr/1993 | 9 | 7 | Male | - | Birth/Hatch | SANDIEGOZ | 193265 | 03/Apr/1993 |
| | | | | | | Transfer | LOSANGELE | 990381 | 03/Apr/2001 |
| | | | | | | Death | LOSANGELE | 990381 | 28/Dec/2016 |
| 86 | 21/Sep/1993 | 4 | 22 | Male | - | Birth/Hatch | SANDIEGOZ | 193584 | 21/Sep/1993 |
| | | | | | | Death | SANDIEGOZ | 193584 | 25/Sep/1993 |
| 87 | 23/Sep/1993 | 4 | 22 | Male | - | Birth/Hatch | SANDIEGOZ | 193585 | 23/Sep/1993 |
| | | | | | | Death | SANDIEGOZ | 193585 | 24/Mar/1997 |
| 88 | 24/Sep/1993 | 4 | 22 | Male | - | Birth/Hatch | SANDIEGOZ | 193586 | 24/Sep/1993 |
| | | | | | | Death | SANDIEGOZ | 93586 | 01/Feb/2011 |
| 89 | 24/Sep/1993 | 4 | 22 | Female | - | Birth/Hatch | SANDIEGOZ | 193587 | 24/Sep/1993 |
| | | | | | | Death | SANDIEGOZ | 193587 | 27/Mar/2007 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|--------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 90 | 01/Jan/1972 | | | | | | | | 01/Jan/1972 +/- |
| 90 | +/- 6 month | WILD | WILD | Male | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1972 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | ST LOUIS | R74106 | 31/Oct/1974 |
| | | | | | | Death | ST LOUIS | R74106 | 08/Sep/1976 |
| 0.1 | 01/Jan/1972 | | | | | | | | 01/Jan/1972 +/- |
| 91 | +/- 6 month | WILD | WILD | Male | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1972 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1974 +/- |
| | | | | | | Transfer | ST LOUIS | R74001 | 15 day |
| | | | | | | | | | 30/Apr/1985 +/- |
| | | | | | | Death | ST LOUIS | R74001 | 15 day |
| | 01/Jan/1972 | | | | | | | | 01/Jan/1972 +/- |
| 92 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1972 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1974 +/- |
| | | | | | | Transfer | ST LOUIS | R74002 | 15 day |
| | | | | | | Death | ST LOUIS | R74002 | 31/Jul/1974 |
| | 01/Jan/1970 | | | | | | | | 01/Jan/1970 +/- |
| 93 | +/- 6 month | WILD | WILD | Male | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1973 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | · | | | 01/Jan/1973 +/- |
| | | | | | | Transfer | JENKINTOW | UNK | 6 month |
| | | | | | | Transfer | NZP-WASH | 300760 | 19/Oct/1973 |
| | | | | | | Death | NZP-WASH | 300760 | 05/Jan/1974 |
| | 01/Jun/1972 | | 1 | | | | | | 01/Jun/1972 +/- |
| 94 | +/- 6 month | WILD | WILD | Male | _ | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | , | 1. | | 01/Jun/1972 +/- |
| | | | | | | Wild Capture | Fiji / ~ | _ | 6 month |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|---------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | | | | 01/Jun/1973 +/- |
| | | | | | | Transfer | SACRAMNTO | 30A171 | 15 day |
| | | | | | | | | | 31/Jan/1976 +/- |
| | | | | | | Death | SACRAMNTO | 30A171 | 15 day |
| 95 | 01/Jun/1972 | | | | | | | | 01/Jun/1972 +/- |
| <i></i> | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1972 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1973 +/- |
| | | | | | | Transfer | SACRAMNTO | 30B171 | 15 day |
| | | | | | | | | | 31/Jan/1976 +/- |
| | | | | | | Death | SACRAMNTO | 30B171 | 15 day |
| 96 | 01/Jun/1972 | | | | | | | | 01/Jun/1972 +/- |
| | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1972 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1973 +/- |
| | | | | | | Transfer | SACRAMNTO | UNK | 15 day |
| | | | | | | | | | 22/May/1976 |
| | | | | | | Death | SACRAMNTO | UNK | +/- 15 day |
| 97 | 01/Jun/1972 | | | | | | | | 01/Jun/1972 +/- |
| | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1972 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1973 +/- |
| | | | | | | Transfer | SACRAMNTO | 30D171 | 15 day |
| | | | | | | Death | SACRAMNTO | 30D171 | 05/Oct/1975 |
| 98 | | | | Undeter | | | | | |
| | 29/Oct/1974 | 2 | 97 | mined | - | Birth/Hatch | SACRAMNTO | 30F171 | 29/Oct/1974 |
| | | | | | | Death | SACRAMNTO | 30F171 | 27/Apr/1976 |
| 99 | 01/Nov/1974 | | | Undeter | | | | | 01/Nov/1974 +/- |
| | +/- 1 day | 2 | 96 | mined | - | Birth/Hatch | SACRAMNTO | 30G171 | 1 day |
| | <u> </u> | | | | | Death | SACRAMNTO | 30G171 | 05/May/1976 |
| 100 | 23/Sep/1994 | 4 | 22 | Female | - | Birth/Hatch | SANDIEGOZ | 194193 | 23/Sep/1994 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|---------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Transfer | LOSANGELE | 990380 | 03/Apr/2001 |
| | | | | | | Death | LOSANGELE | 990380 | 04/May/2004 |
| 101 | 08/Oct/1994 | 4 | 22 | Male | - | Birth/Hatch | SANDIEGOZ | 194221 | 08/Oct/1994 |
| | | | | | | Death | SANDIEGOZ | 194221 | 20/Sep/2013 |
| 102 | 17/Oct/1994 | 27 | 42 | Male | - | Birth/Hatch | SAN ANTON | 941013 | 17/Oct/1994 |
| | | | | | | Death | SAN ANTON | | 30/Apr/2012 |
| 103 | 18/Oct/1994 | 27 | 42 | Female | - | Birth/Hatch | SAN ANTON | 941014 | 18/Oct/1994 |
| | | | | | | Transfer | HOUSTON | 15520 | 29/Nov/1994 |
| | | | | | | Death | HOUSTON | 15520 | 26/Sep/1998 |
| 104 | 21/Oct/1994 | 27 | 42 | Male | - | Birth/Hatch | SAN ANTON | 941028 | 21/Oct/1994 |
| | | | | | | Transfer | HOUSTON | 15518 | 28/Nov/1994 |
| 105 | 21/Oct/1994 | 27 | 42 | Male | - | Birth/Hatch | SAN ANTON | 941029 | 21/Oct/1994 |
| | | | | | | Transfer | HOUSTON | 15519 | 28/Nov/1994 |
| | | | | | | Death | HOUSTON | 15519 | 24/Aug/2012 |
| 106 | 01/Dec/1994 | 41 | 81 | Male | - | Birth/Hatch | SANDIEGOZ | 194273 | 01/Dec/1994 |
| | | | | | | Transfer | DENVER | 980170 | 06/May/1998 |
| | | | | | | Transfer | SANDIEGOZ | 194273 | 08/Oct/2003 |
| | | | | | | Death | SANDIEGOZ | 194273 | 18/Oct/2010 |
| 107 | 08/Dec/1994 | 41 | 81 | Female | - | Birth/Hatch | SANDIEGOZ | 194274 | 08/Dec/1994 |
| | | | | | | Death | SANDIEGOZ | 194274 | 11/Jul/1999 |
| 108 | | | | Undeter | | | | | |
| 108 | 28/Jan/1994 | 32 | 14 | mined | - | Birth/Hatch | CINCINNAT | 394001 | 28/Jan/1994 |
| | | | | | | Death | CINCINNAT | 394001 | 26/Mar/1997 |
| 109 | 28/Jan/1994 | 32 | 14 | Male | - | Birth/Hatch | CINCINNAT | 394002 | 28/Jan/1994 |
| | | | | | | Death | CINCINNAT | 394002 | 14/Mar/2000 |
| 110 | 01/Feb/1994 | 32 | 14 | Male | - | Birth/Hatch | CINCINNAT | 394200 | 01/Feb/1994 |
| | | | | | | Death | CINCINNAT | 394200 | 16/Jul/2002 |
| 111 | 05/Feb/1994 | 32 | 14 | Female | - | Birth/Hatch | CINCINNAT | 394201 | 05/Feb/1994 |
| | | | | | | Death | CINCINNAT | 394201 | 04/Jul/1997 |
| 112 | 02/Jan/1995 | 58 | 55 | Male | - | Birth/Hatch | SANDIEGOZ | 195001 | 02/Jan/1995 |
| | | | | | | Death | SANDIEGOZ | 195001 | 16/May/2018 |
| 113 | 03/Jan/1995 | 58 | 55 | Female | - | Birth/Hatch | SANDIEGOZ | 195002 | 03/Jan/1995 |
| | | | | | | Transfer | DENVER | 980169 | 06/May/1998 |
| | | | | | | Death | DENVER | 980169 | 09/Jan/2002 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|--------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 114 | 12/Jan/1995 | 58 | 55 | Male | - | Birth/Hatch | SANDIEGOZ | 195013 | 12/Jan/1995 |
| | | | | | | Transfer | COLUMBIA | 2152 | 12/May/1998 |
| | | | | | | Death | COLUMBIA | 2152 | 25/Apr/2001 |
| 115 | 22/Feb/1995 | 4 | 22 | Female | - | Birth/Hatch | SANDIEGOZ | 195031 | 22/Feb/1995 |
| | | | | | | Transfer | COLUMBIA | 2153 | 12/May/1998 |
| | | | | | | Death | COLUMBIA | 2153 | 12/Sep/2002 |
| 116 | 01/Oct/1995 | 41 | 81 | Female | - | Birth/Hatch | SANDIEGOZ | 195265 | 01/Oct/1995 |
| | | | | | | Death | SANDIEGOZ | 195265 | 22/May/2001 |
| 117 | 03/Oct/1995 | 41 | 81 | Male | - | Birth/Hatch | SANDIEGOZ | 195266 | 03/Oct/1995 |
| | | | | | | Transfer | DETROIT | 11143 | 25/Aug/2003 |
| | | | | | | Death | DETROIT | 11143 | 21/Nov/2005 |
| 118 | 19/Oct/1995 | 11 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 195277 | 19/Oct/1995 |
| | | | | | | Death | SANDIEGOZ | 195277 | 17/Feb/2009 |
| 119 | 24/Oct/1995 | 11 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 195280 | 24/Oct/1995 |
| | | | | | | Death | SANDIEGOZ | 195280 | 29/Jun/1997 |
| 120 | 24/Oct/1995 | 11 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 195281 | 24/Oct/1995 |
| | | | | | | Death | SANDIEGOZ | 195281 | 29/Oct/1995 |
| 121 | 24/Oct/1995 | 11 | 13 | Male | - | Birth/Hatch | SANDIEGOZ | 195282 | 24/Oct/1995 |
| | | | | | | Death | SANDIEGOZ | 195282 | 26/Sep/2013 |
| 122 | 24/Oct/1995 | 11 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 195283 | 24/Oct/1995 |
| | | | | | | Death | SANDIEGOZ | 195283 | 27/Oct/1995 |
| 123 | 24/Oct/1995 | 11 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 195284 | 24/Oct/1995 |
| | | | | | | Death | SANDIEGOZ | 195284 | 09/Mar/2002 |
| 124 | 19/Jan/1996 | 58 | 55 | Female | - | Birth/Hatch | SANDIEGOZ | 196017 | 19/Jan/1996 |
| | | | | | | Death | SANDIEGOZ | 196017 | 09/Jun/2005 |
| 125 | 22/Jan/1996 | 58 | 55 | Female | - | Birth/Hatch | SANDIEGOZ | 196018 | 22/Jan/1996 |
| | | | | | | Death | SANDIEGOZ | 196018 | 02/Jul/2004 |
| 126 | 28/Nov/1996 | 11 | 13 | Female | - | Birth/Hatch | SANDIEGOZ | 196231 | 28/Nov/1996 |
| | | | | | | Death | SANDIEGOZ | 196231 | 17/Jul/2006 |
| 127 | 22/Dec/1996 | 114 | 115 | Male | - | Birth/Hatch | SANDIEGOZ | 196253 | 22/Dec/1996 |
| | | | | | | Death | SANDIEGOZ | 196253 | 10/Oct/2014 |
| 128 | 11/Feb/1997 | 10 | 59 | Male | - | Birth/Hatch | SANDIEGOZ | 197086 | 11/Feb/1997 |
| | | | | | | Transfer | FRESNO | 280233 | 20/Jul/2008 |
| | | | | | | Death | FRESNO | 280233 | 29/Oct/2008 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|--------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 129 | 15/Feb/1997 | 10 | 59 | Female | - | Birth/Hatch | SANDIEGOZ | 197087 | 15/Feb/1997 |
| | | | | | | Death | SANDIEGOZ | 197087 | 10/Jul/2005 |
| 130 | 03/May/1990 | 170 | 169 | Male | - | Birth/Hatch | MELBOURNE | 900278 | 03/May/1990 |
| | | | | | | Transfer | TORONTO | 31109 | 11/Oct/1995 |
| | | | | | | Death | TORONTO | 31109 | 24/Jun/2001 |
| 121 | 01/Jan/1973 | | | | | | | | 01/Jan/1973 +/- |
| 131 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1973 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Mar/1974 |
| | | | | | | Transfer | WESTERN | UNK | +/- 15 day |
| | | | | | | Transfer | JACKSONVL | 474047 | 20/May/1974 |
| | | | | | | Death | JACKSONVL | 474047 | 13/Oct/1974 |
| 132 | 01/Jan/1973 | | | | | | | | 01/Jan/1973 +/- |
| 132 | +/- 6 month | WILD | WILD | Male | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1974 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Mar/1974 |
| | | | | | | Transfer | WESTERN | UNK | +/- 15 day |
| | | | | | | Transfer | JACKSONVL | 474070 | 02/Aug/1974 |
| | | | | | | Death | JACKSONVL | 474070 | 10/Aug/1974 |
| 133 | 28/Aug/1997 | 4 | 22 | Female | - | Birth/Hatch | SANDIEGOZ | 197421 | 28/Aug/1997 |
| | | | | | | Transfer | AUDUBON | 100258 | 12/Jun/2001 |
| | | | | | | Death | AUDUBON | 100258 | 20/Sep/2003 |
| 134 | 28/Aug/1997 | 4 | 22 | Female | - | Birth/Hatch | SANDIEGOZ | 197422 | 28/Aug/1997 |
| | | | | | | Transfer | TULSA | 13321 | 22/Sep/1999 |
| | | | | | | Death | TULSA | 13321 | 08/Apr/2001 |
| 135 | 27/Feb/1995 | 4 | 22 | Male | - | Birth/Hatch | SANDIEGOZ | 195032 | 27/Feb/1995 |
| | | | | | | Death | SANDIEGOZ | 195032 | 04/Mar/1995 |
| 136 | 19/Jan/1996 | 58 | 55 | Male | - | Birth/Hatch | SANDIEGOZ | 196016 | 19/Jan/1996 |
| | | | | | | Death | SANDIEGOZ | 196016 | 02/Feb/1996 |
| 137 | 22/Jan/1998 | 43 | 124 | Male | - | Birth/Hatch | SANDIEGOZ | 198030 | 22/Jan/1998 |
| | | | | | | Transfer | AUDUBON | 100257 | 12/Jun/2001 |
| | | | | | | Death | AUDUBON | 100257 | 21/May/2015 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|--------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 138 | 07/Sep/1995 | 47 | 52 | Female | Hormonal | Birth/Hatch | DENVER | 950393 | 07/Sep/1995 |
| | | | | | | Transfer | SANDIEGOZ | 198127 | 24/Apr/1998 |
| | | | | | | Transfer | LOSANGELE | 990382 | 03/Apr/2001 |
| | | | | | | Death | LOSANGELE | 990382 | 28/Jul/2004 |
| 139 | 11/Nov/1995 | 47 | 52 | Female | - | Birth/Hatch | DENVER | 950466 | 11/Nov/1995 |
| | | | | | | Transfer | DENVER | 950466 | 12/Nov/1995 |
| | | | | | | Transfer | SANDIEGOZ | 198128 | 24/Apr/1998 |
| | | | | | | Death | SANDIEGOZ | 198128 | 27/Jul/2002 |
| 140 | 01/Nov/1997 | 10 | 59 | Female | - | Birth/Hatch | SANDIEGOZ | 197483 | 01/Nov/1997 |
| | | | | | | Transfer | SAN ANTON | | 06/Aug/2009 |
| | | | | | | Death | SAN ANTON | | 10/Nov/2012 |
| 141 | 23/Feb/1997 | 10 | 59 | Male | - | Birth/Hatch | SANDIEGOZ | 197162 | 23/Feb/1997 |
| | | | | | | Transfer | ST LOUIS | 105900 | 27/Jun/2007 |
| | | | | | | Death | ST LOUIS | 5900 | 26/Sep/2013 |
| 142 | 23/Nov/1997 | 10 | 59 | Female | - | Birth/Hatch | SANDIEGOZ | 197481 | 23/Nov/1997 |
| | | | | | | Transfer | OMAHA | 11330 | 22/Sep/1999 |
| | | | | | | Death | ОМАНА | 11330 | 23/Nov/2004 |
| 145 | 27/Sep/1998 | 58 | 100 | Female | - | Birth/Hatch | SANDIEGOZ | 198234 | 27/Sep/1998 |
| | | | | | | Death | SANDIEGOZ | 198234 | 21/Jan/1999 |
| 146 | 29/Oct/1998 | 43 | 118 | Male | - | Birth/Hatch | SANDIEGOZ | 198274 | 29/Oct/1998 |
| | | | | | | Death | SANDIEGOZ | 198274 | 19/Jan/1999 |
| 147 | 29/Oct/1998 | 43 | 118 | Female | - | Birth/Hatch | SANDIEGOZ | 198275 | 29/Oct/1998 |
| | | | | | | Death | SANDIEGOZ | 198275 | 26/Mar/1999 |
| 148 | 05/Nov/1998 | 43 | 118 | Male | - | Birth/Hatch | SANDIEGOZ | 198287 | 05/Nov/1998 |
| | | | | | | Death | SANDIEGOZ | 198287 | 12/Jul/2018 |
| 149 | 03/May/1999 | 27 | 42 | Male | - | Birth/Hatch | SAN ANTON | 990507 | 03/May/1999 |
| | | | | | | Transfer | SANDIEGOZ | 199069 | 03/Aug/1999 |
| | | | | | | Transfer | SANDIEGOZ | 199069 | 07/Oct/1999 |
| | | | | | | Transfer | DETROIT | 12321 | 20/May/2009 |
| | | | | | | Death | DETROIT | 2321 | 21/Feb/2014 |
| 150 | 04/May/1999 | 27 | 42 | Male | - | Birth/Hatch | SAN ANTON | 990510 | 04/May/1999 |
| | | | | | | Transfer | SANDIEGOZ | 199070 | 07/Oct/1999 |
| | | | | | | Death | SANDIEGOZ | 199070 | 02/Mar/2002 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|---------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 151 | | | | Undeter | | | | | |
| 131 | 16/Nov/1995 | 47 | 52 | mined | - | Birth/Hatch | DENVER | 950501 | 16/Nov/1995 |
| | | | | | | Death | DENVER | 950501 | 03/Dec/1995 |
| 152 | 21/Oct/1999 | 58 | 100 | Male | - | Birth/Hatch | SANDIEGOZ | 199191 | 21/Oct/1999 |
| | | | | | | Transfer | FORTWORTH | 203626 | 13/Oct/2004 |
| | | | | | | Death | FORTWORTH | 203626 | 11/Aug/2017 |
| 153 | 21/Oct/1999 | 58 | 100 | Female | - | Birth/Hatch | SANDIEGOZ | 199192 | 21/Oct/1999 |
| | | | | | | Death | SANDIEGOZ | 199192 | 11/Jul/2011 |
| 154 | 21/Oct/1999 | 58 | 100 | Female | - | Birth/Hatch | SANDIEGOZ | 199193 | 21/Oct/1999 |
| | | | | | | Death | SANDIEGOZ | 199193 | 01/Oct/2001 |
| 155 | 23/Oct/1999 | 58 | 100 | Female | - | Birth/Hatch | SANDIEGOZ | 199194 | 23/Oct/1999 |
| | | | | | | Transfer | SHEDD AQ | 205068 | 17/Mar/2006 |
| | | | | | | Death | SHEDD AQ | 205068 | 20/Feb/2008 |
| 156 | 14/Jan/2000 | 60 | 89 | Male | - | Birth/Hatch | SANDIEGOZ | 900004 | 14/Jan/2000 |
| | | | | | | Transfer | SHEDD AQ | 205069 | 17/Mar/2006 |
| | | | | | | Transfer | CLEVELAND | M80904 | 17/Sep/2008 |
| 157 | 04/Feb/2000 | 60 | 89 | Female | - | Birth/Hatch | SANDIEGOZ | 900029 | 04/Feb/2000 |
| | | | | | | Death | SANDIEGOZ | 900029 | 04/Aug/2008 |
| 158 | 04/Feb/2000 | 60 | 89 | Female | - | Birth/Hatch | SANDIEGOZ | 900030 | 04/Feb/2000 |
| | | | | | | Transfer | CLEVELAND | M90703 | 15/Jul/2009 |
| | | | | | | Death | CLEVELAND | M90703 | 26/Jan/2012 |
| 159 | 01/May/2001 | 112 | 140 | Female | - | Birth/Hatch | SANDIEGOZ | 900118 | 01/May/2001 |
| | | | | | | Transfer | NORFOLK | 204074 | 12/Oct/2004 |
| | | | | | | Transfer | AUDUBON | 102956 | 11/Nov/2009 |
| | | | | | | Death | AUDUBON | 102956 | 04/Apr/2013 |
| 160 | 20/May/2001 | 112 | 140 | Female | - | Birth/Hatch | SANDIEGOZ | 900137 | 20/May/2001 |
| | | | | | | Transfer | FORTWORTH | 203627 | 13/Oct/2004 |
| | | | | | | Death | FORTWORTH | | 13/Feb/2010 |
| 161 | 16/Feb/2001 | 60 | 89 | Male | - | Birth/Hatch | SANDIEGOZ | 901017 | 16/Feb/2001 |
| | | | | | | Transfer | NORFOLK | 204073 | 12/Oct/2004 |
| | | | | | | Transfer | EVANSVLLE | 317001 | 18/May/2017 |
| 162 | 16/Feb/2001 | 60 | 89 | Female | - | Birth/Hatch | SANDIEGOZ | 901018 | 16/Feb/2001 |
| | | | | | | Death | SANDIEGOZ | 901018 | 11/Sep/2008 |
| 163 | 16/Feb/2001 | 60 | 89 | Male | - | Birth/Hatch | SANDIEGOZ | 901019 | 16/Feb/2001 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|--------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Transfer | DENVER | A13244 | 10/Oct/2013 |
| | | | | | | Death | DENVER | A13244 | 06/Jun/2016 |
| 164 | 21/Feb/2001 | 60 | 89 | Female | - | Birth/Hatch | SANDIEGOZ | 901020 | 21/Feb/2001 |
| | | | | | | Transfer | DETROIT | 11144 | 25/Aug/2003 |
| | | | | | | Death | DETROIT | | 01/Nov/2010 |
| 165 | 15/Oct/2001 | 60 | 89 | Female | - | Birth/Hatch | SANDIEGOZ | 901172 | 15/Oct/2001 |
| | | | | | | Transfer | AUDUBON | 102157 | 29/Mar/2007 |
| | | | | | | Transfer | NORFOLK | 209131 | 28/Oct/2009 |
| | | | | | | Death | SANDIEGOZ | 209131 | 02/Apr/2019 |
| 166 | 08/Dec/2001 | 117 | 123 | Female | - | Birth/Hatch | SANDIEGOZ | 901246 | 08/Dec/2001 |
| | | | | | | Death | SANDIEGOZ | 901246 | 11/Mar/2005 |
| 167 | 08/Dec/2001 | 117 | 123 | Female | - | Birth/Hatch | SANDIEGOZ | 901247 | 08/Dec/2001 |
| | | | | | | Death | SANDIEGOZ | 901247 | 01/Nov/2018 |
| 168 | 08/Dec/2001 | 117 | 123 | Female | - | Birth/Hatch | SANDIEGOZ | 901248 | 08/Dec/2001 |
| | | | | | | Transfer | HOUSTON | 20873 | 20/Nov/2003 |
| | | | | | | Death | HOUSTON | 20873 | 20/Dec/2004 |
| 169 | 09/Apr/1986 | 179 | 178 | Female | - | Birth/Hatch | SYDNEY | 860354 | 09/Apr/1986 |
| | | | | | | Transfer | MELBOURNE | 870117 | 04/Nov/1987 |
| | | | | | | Death | MELBOURNE | 870117 | 18/Jun/2000 |
| 170 | 18/May/1987 | 179 | 178 | Male | - | Birth/Hatch | SYDNEY | 870444 | 18/May/1987 |
| | | | | | | Transfer | MELBOURNE | 870118 | 04/Nov/1987 |
| | | | | | | Death | MELBOURNE | 870118 | 24/Jun/1995 |
| 171 | 20/Aug/2002 | 127 | 153 | Male | - | Birth/Hatch | SANDIEGOZ | 902099 | 20/Aug/2002 |
| | | | | | | Death | SANDIEGOZ | 902099 | 05/Sep/2002 |
| 172 | 20/Aug/2002 | 127 | 153 | Female | - | Birth/Hatch | SANDIEGOZ | 902100 | 20/Aug/2002 |
| | | | | | | Death | SANDIEGOZ | 902100 | 24/Aug/2008 |
| 173 | 20/Aug/2002 | 127 | 153 | Female | - | Birth/Hatch | SANDIEGOZ | 902101 | 20/Aug/2002 |
| | | | | | | Transfer | ST LOUIS | 104494 | 20/Oct/2005 |
| | | | | | | Death | ST LOUIS | 104494 | 22/Sep/2007 |
| 174 | 31/Aug/2002 | 24 | 142 | Female | - | Birth/Hatch | OMAHA | 12978 | 31/Aug/2002 |
| | | | | | | Death | OMAHA | 12978 | 13/Jan/2008 |
| 175 | 31/Aug/2002 | 24 | 142 | Male | - | Birth/Hatch | OMAHA | 12979 | 31/Aug/2002 |
| | | | | | | Death | OMAHA | 12979 | 02/Jul/2008 |
| 176 | 29/Dec/2002 | 137 | 133 | Male | - | Birth/Hatch | AUDUBON | 100782 | 29/Dec/2002 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|--------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Transfer | DALLAS | 04F013 | 18/Feb/2004 |
| | | | | | | Death | DALLAS | 04F013 | 03/Oct/2012 |
| 177 | 22/Dec/2002 | 137 | 133 | Female | - | Birth/Hatch | AUDUBON | 100781 | 22/Dec/2002 |
| | | | | | | Transfer | DALLAS | 04F014 | 18/Feb/2004 |
| | | | | | | Death | DALLAS | 04F014 | 07/Jul/2007 |
| 470 | 01/Jan/1978 | | | | | | | | 01/Jan/1978 +/- |
| 178 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1982 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1982 +/- |
| | | | | | | Transfer | AUSTR MUS | UNK | 6 month |
| | | | | | | Transfer | SYDNEY | 840197 | 18/Jan/1984 |
| | | | | | | Death | SYDNEY | 840197 | 07/Mar/1990 |
| 179 | 01/Jan/1980 | | | | | | | | 01/Jan/1980 +/- |
| 179 | +/- 6 month | WILD | WILD | Male | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1982 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1982 +/- |
| | | | | | | Transfer | AUSTR MUS | UNK | 6 month |
| | | | | | | Transfer | SYDNEY | 840196 | 18/Jan/1984 |
| | | | | | | Death | SYDNEY | 840196 | 17/May/2004 |
| 180 | 07/Mar/2003 | 84 | 59 | Female | - | Birth/Hatch | SANDIEGOZ | 903031 | 07/Mar/2003 |
| 181 | 27/Mar/2003 | 60 | 89 | Male | - | Birth/Hatch | SANDIEGOZ | 903032 | 27/Mar/2003 |
| | | | | | | Transfer | BL HILLS | UNK | 24/Sep/2008 |
| | | | | | | Death | SANDIEGOZ | NONE | 11/Dec/2019 |
| 182 | 27/Mar/2003 | 60 | 89 | Male | - | Birth/Hatch | SANDIEGOZ | 903033 | 27/Mar/2003 |
| | | | | | | Transfer | FRESNO | 290056 | 11/Apr/2009 |
| 183 | 27/Mar/2003 | 60 | 89 | Male | - | Birth/Hatch | SANDIEGOZ | 903034 | 27/Mar/2003 |
| | | | | | | Transfer | LOWRY | 303581 | 12/Nov/2013 |
| | | | | | | Transfer | ATLANTA | 15R001 | 16/Jan/2015 |
| | | | | | | Transfer | ATLANTA | 15R001 | 20/Jan/2016 |
| 184 | 30/Mar/2003 | 60 | 89 | Male | - | Birth/Hatch | SANDIEGOZ | 903035 | 30/Mar/2003 |
| | | | | | | Death | SANDIEGOZ | 903035 | 02/Apr/2003 |
| 185 | 02/Apr/2003 | 60 | 89 | Female | - | Birth/Hatch | SANDIEGOZ | 903036 | 02/Apr/2003 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|---------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Transfer | SACRAMNTO | 301530 | 07/Feb/2013 |
| | | | | | | Death | SANDIEGOZ | 301530 | 13/May/2020 |
| 186 | 03/Oct/2003 | 127 | 153 | Male | - | Birth/Hatch | SANDIEGOZ | 903227 | 03/Oct/2003 |
| | | | | | | Death | SANDIEGOZ | 903227 | 21/May/2013 |
| 187 | 12/Oct/2003 | 127 | 153 | Male | - | Birth/Hatch | SANDIEGOZ | 903228 | 12/Oct/2003 |
| | | | | | | Transfer | SAN ANTON | Y14066 | 20/May/2014 |
| | | | | | | Death | SAN ANTON | Y14066 | 10/Jan/2020 |
| 188 | 15/Oct/2003 | 127 | 153 | Female | - | Birth/Hatch | SANDIEGOZ | 903229 | 15/Oct/2003 |
| | | | | | | Transfer | AUDUBON | 101387 | 05/Aug/2004 |
| | | | | | | Death | AUDUBON | 101387 | 10/Feb/2006 |
| 189 | 22/Jan/2004 | 112 | 140 | Male | - | Birth/Hatch | SANDIEGOZ | 904001 | 22/Jan/2004 |
| | | | | | | Transfer | LOSANGELE | 992596 | 17/Jan/2012 |
| | | | | | | Death | LOSANGELE | 92596 | 08/Sep/2013 |
| 190 | 22/Jan/2004 | 112 | 140 | Female | - | Birth/Hatch | SANDIEGOZ | 904002 | 22/Jan/2004 |
| | | | | | | Transfer | FRESNO | 282034 | 20/Jul/2008 |
| | | | | | | Death | FRESNO | | 25/Jul/2009 |
| 404 | 01/Jan/1963 | | | Undeter | | | | | 01/Jan/1963 +/- |
| 191 | +/- 6 month | WILD | WILD | mined | - | Birth/Hatch | Tonga / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1963 +/- |
| | | | | | | Wild Capture | Tonga / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 193014 | 28/Mar/1965 |
| | | | | | | | | | 01/Jan/1968 +/- |
| | | | | | | Death | SANDIEGOZ | 193014 | 15 day |
| 192 | 01/Jan/1963 | | | Undeter | | | | | 01/Jan/1963 +/- |
| 192 | +/- 6 month | WILD | WILD | mined | - | Birth/Hatch | Tonga / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1963 +/- |
| | | | | | | Wild Capture | Tonga / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 193015 | 28/Mar/1965 |
| | | | | | | | | | 01/Jan/1968 +/- |
| | | | | | | Death | SANDIEGOZ | 193015 | 15 day |
| 193 | 01/Jan/1963 | | | Undeter | | | | | 01/Jan/1963 +/- |
| 193 | +/- 6 month | WILD | WILD | mined | - | Birth/Hatch | Tonga / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1963 +/- |
| ı | | | | | | Wild Capture | Tonga / ~ | - | 6 month |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|---------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Transfer | SANDIEGOZ | 193016 | 28/Mar/1965 |
| | | | | | | Death | SANDIEGOZ | 193016 | 01/Jan/1968 |
| 104 | 01/Jan/1963 | | | Undeter | | | | | 01/Jan/1963 +/- |
| 194 | +/- 6 month | WILD | WILD | mined | - | Birth/Hatch | Tonga / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1963 +/- |
| | | | | | | Wild Capture | Tonga / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 193017 | 28/Mar/1965 |
| | | | | | | | | | 01/Jan/1968 +/- |
| | | | | | | Death | SANDIEGOZ | 193017 | 15 day |
| 195 | 01/Jan/1963 | | | Undeter | | | | | 01/Jan/1963 +/- |
| 195 | +/- 6 month | WILD | WILD | mined | - | Birth/Hatch | Tonga / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1963 +/- |
| | | | | | | Wild Capture | Tonga / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 193018 | 28/Mar/1965 |
| | | | | | | | | | 01/Jan/1968 +/- |
| | | | | | | Death | SANDIEGOZ | 193018 | 15 day |
| 196 | 01/Jan/1963 | | | Undeter | | | | | 01/Jan/1963 +/- |
| 190 | +/- 6 month | WILD | WILD | mined | - | Birth/Hatch | Tonga / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/1963 +/- |
| | | | | | | Wild Capture | Tonga / ~ | - | 6 month |
| | | | | | | Transfer | SANDIEGOZ | 193019 | 28/Mar/1965 |
| | | | | | | | | | 01/Jan/1968 +/- |
| | | | | | | Death | SANDIEGOZ | 193019 | 15 day |
| 197 | | | | Undeter | | | | | |
| 137 | 10/Sep/2002 | 24 | 142 | mined | - | Birth/Hatch | ОМАНА | 12986 | 10/Sep/2002 |
| | | | | | | Death | ОМАНА | 12986 | 10/Sep/2002 |
| 198 | 08/Jan/2003 | 137 | 133 | Male | - | Birth/Hatch | AUDUBON | 100784 | 08/Jan/2003 |
| | | | | | | Death | AUDUBON | 100784 | 08/Jan/2003 |
| 199 | 11/Feb/2005 | 60 | 89 | Female | - | Birth/Hatch | SANDIEGOZ | 905012 | 11/Feb/2005 |
| | | | | | | Transfer | HOUSTON | 22910 | 12/Apr/2007 |
| 200 | 11/Feb/2005 | 60 | 89 | Female | - | Birth/Hatch | SANDIEGOZ | 905013 | 11/Feb/2005 |
| | | | | | | Death | SANDIEGOZ | 5013 | 09/Jul/2015 |
| 201 | 20/Nov/2006 | 149 | 158 | Female | - | Birth/Hatch | SANDIEGOZ | 906709 | 20/Nov/2006 |
| | | | | | | Transfer | ST LOUIS | 1077464 | 08/Jul/2009 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|---------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Death | ST LOUIS | 107464 | 17/Sep/2015 |
| 202 | 27/Nov/2006 | 149 | 158 | Female | - | Birth/Hatch | SANDIEGOZ | 906714 | 27/Nov/2006 |
| | | | | | | Transfer | FORTWORTH | UNK | 08/Jul/2009 |
| | | | | | | Death | FORTWORTH | UNK | 22/Feb/2014 |
| 203 | | | | Undeter | | | | | |
| 203 | 18/Feb/2007 | 84 | 180 | mined | - | Birth/Hatch | SANDIEGOZ | 907027 | 18/Feb/2007 |
| | | | | | | Death | SANDIEGOZ | 907027 | 18/Feb/2007 |
| 204 | 25/May/2007 | 84 | 180 | Male | - | Birth/Hatch | SANDIEGOZ | 907119 | 25/May/2007 |
| | | | | | | Death | SANDIEGOZ | 907119 | 27/May/2007 |
| 205 | 01/Jun/2007 | 84 | 180 | Male | - | Birth/Hatch | SANDIEGOZ | 907124 | 01/Jun/2007 |
| | | | | | | Death | SANDIEGOZ | 907124 | 11/Jul/2007 |
| 206 | 23/Dec/2007 | 149 | 158 | Male | - | Birth/Hatch | SANDIEGOZ | 907590 | 23/Dec/2007 |
| | | | | | | Transfer | SACRAMNTO | 301529 | 07/Feb/2013 |
| | | | | | | Death | SACRAMNTO | 1529 | 04/Oct/2017 |
| 207 | 27/Dec/2007 | 149 | 158 | Female | - | Birth/Hatch | SANDIEGOZ | 907591 | 27/Dec/2007 |
| | | | | | | Transfer | SAN ANTON | Y14067 | 20/May/2014 |
| | | | | | | Death | SAN ANTON | Y14067 | 19/Mar/2019 |
| 208 | 05/May/2008 | 186 | 185 | Male | - | Birth/Hatch | SANDIEGOZ | 908137 | 05/May/2008 |
| | | | | | | Transfer | TOLEDO | 7795 | 26/Apr/2012 |
| 209 | 07/May/2008 | 186 | 185 | Male | - | Birth/Hatch | SANDIEGOZ | 908138 | 07/May/2008 |
| | | | | | | Transfer | HOUSTON | 28420 | 26/Sep/2013 |
| 210 | 09/May/2008 | 186 | 185 | Female | - | Birth/Hatch | SANDIEGOZ | 908139 | 09/May/2008 |
| | | | | | | Transfer | DALLAS | 14P126 | 28/May/2014 |
| | | | | | | Death | DALLAS | 14P126 | 12/Sep/2014 |
| 211 | 09/May/2008 | 186 | 185 | Female | - | Birth/Hatch | SANDIEGOZ | 908140 | 09/May/2008 |
| | | | | | | Death | SANDIEGOZ | 908140 | 29/Sep/2012 |
| 212 | 13/Dec/2008 | 83 | 162 | Female | - | Birth/Hatch | SANDIEGOZ | 908521 | 13/Dec/2008 |
| | | | | | | Transfer | NZP-WASH | 307298 | 27/Jul/2010 |
| 213 | 20/Dec/2008 | 83 | 162 | Male | - | Birth/Hatch | SANDIEGOZ | 908530 | 20/Dec/2008 |
| | | | | | | Transfer | NZP-WASH | 307297 | 27/Jul/2010 |
| | | | | | | Transfer | DALLAS | 14P119 | 21/May/2014 |
| | | | | | | Death | SANDIEGOZ | 14P119 | 30/May/2021 |
| 214 | 22/Dec/2008 | 83 | 162 | Female | - | Birth/Hatch | SANDIEGOZ | 908532 | 22/Dec/2008 |
| | | | | | | Transfer | LOSANGELE | 992597 | 17/Jan/2012 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|--------|--------------|--------------|-----------|------------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Death | LOSANGELE | 992597 | 29/Sep/2016 |
| 215 | 25/Dec/2008 | 83 | 162 | Female | - | Birth/Hatch | SANDIEGOZ | 908536 | 25/Dec/2008 |
| | | | | | | Transfer | TOLEDO | 7796 | 26/Apr/2012 |
| | | | | | | Death | TOLEDO | 7796 | 20/Dec/2018 |
| 216 | 29/Dec/2008 | 83 | 162 | Male | - | Birth/Hatch | SANDIEGOZ | 908560 | 29/Dec/2008 |
| | | | | | | Transfer | LOWRY | 303631 | 22/Apr/2015 |
| | | | | | | Transfer | FORTWORTH | 211912 | 14/Jan/2020 |
| 217 | 15/Jan/2009 | 189 | 202 | Female | - | Birth/Hatch | SANDIEGOZ | 909020 | 15/Jan/2009 |
| | | | | | | Death | SANDIEGOZ | 909020 | 25/Jan/2009 |
| 218 | 23/Dec/2009 | 84 | 180 | Male | - | Birth/Hatch | SANDIEGOZ | 909560 | 23/Dec/2009 |
| | | | | | | Death | SANDIEGOZ | 909560 | 15/Feb/2021 |
| 219 | 30/Dec/2009 | 84 | 180 | Male | - | Birth/Hatch | SANDIEGOZ | 909562 | 30/Dec/2009 |
| | | | | | | Transfer | TULSA | 16554 | 12/Jul/2012 |
| 220 | 08/Jan/2010 | 84 | 180 | Female | - | Birth/Hatch | SANDIEGOZ | 910003 | 08/Jan/2010 |
| | | | | | | Death | SANDIEGOZ | 10003 | 16/Apr/2019 |
| 221 | 18/Feb/2010 | 84 | 180 | Male | - | Birth/Hatch | SANDIEGOZ | 910031 | 18/Feb/2010 |
| | | | | | | Transfer | NZP-WASH | 307492 | 28/May/2014 |
| 222 | 23/Feb/2010 | 84 | 180 | Male | - | Birth/Hatch | SANDIEGOZ | 910032 | 23/Feb/2010 |
| | | | | | | Transfer | EVANSVLLE | 313010 | 17/Oct/2013 |
| | | | | | | Transfer | NORFOLK | 217198 | 11/Jul/2017 |
| 223 | 27/Nov/2010 | 186 | 185 | Female | - | Birth/Hatch | SANDIEGOZ | 910586 | 27/Nov/2010 |
| | | | | | | Transfer | TULSA | 16555 | 12/Jul/2012 |
| | | | | | | Death | TULSA | 6555 | 04/Apr/2016 |
| 224 | 02/Dec/2010 | 186 | 185 | Female | - | Birth/Hatch | SANDIEGOZ | 910590 | 02/Dec/2010 |
| | | | | | | Transfer | LOWRY | 303582 | 12/Nov/2013 |
| | | | | | | | | UNDETERMIN | |
| | | | | | | Transfer | FORTWORTH | ED | 16/Jun/2020 |
| 225 | 01/Jul/2005 | | | | | | | | 01/Jul/2005 +/- |
| 223 | +/- 6 month | WILD | WILD | Male | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jul/2005 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | USFWS | UNK | 11/May/2007 |
| | | | | | | Transfer | SANDIEGOZ | 907105 | 11/May/2007 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|--------|--------------|--------------|-----------|-----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 226 | 01/Jul/2005 | | | | | | | | 01/Jul/2005 +/- |
| 226 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jul/2005 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | USFWS | UNK | 11/May/2007 |
| | | | | | | Transfer | SANDIEGOZ | 907106 | 11/May/2007 |
| | | | | | | Death | SANDIEGOZ | 907106 | 04/Oct/2011 |
| 227 | 01/Jul/2005 | | | | | | | | 01/Jul/2005 +/- |
| 227 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jul/2005 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | USFWS | UNK | 11/May/2007 |
| | | | | | | Transfer | SANDIEGOZ | 907107 | 11/May/2007 |
| 228 | 01/Jul/2005 | | | | | | | | 01/Jul/2005 +/- |
| 228 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jul/2005 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | USFWS | UNK | 11/May/2007 |
| | | | | | | Transfer | SANDIEGOZ | 907108 | 11/May/2007 |
| | | | | | | Death | SANDIEGOZ | 907108 | 12/May/2007 |
| 229 | 08/Dec/2007 | WILD | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 907529 | 08/Dec/2007 |
| | | | | | | Death | SANDIEGOZ | 907529 | 10/Jun/2020 |
| 230 | 22/Dec/2007 | WILD | 226 | Female | - | Birth/Hatch | SANDIEGOZ | 907581 | 22/Dec/2007 |
| 231 | 06/Jan/2011 | 208 | 215 | Male | - | Birth/Hatch | SANDIEGOZ | 911031 | 06/Jan/2011 |
| | | | | | | Death | SANDIEGOZ | 911031 | 15/May/2012 |
| 232 | 11/Jan/2011 | 208 | 215 | Female | - | Birth/Hatch | SANDIEGOZ | 911032 | 11/Jan/2011 |
| 233 | 01/Jun/1972 | | | | | | | | 01/Jun/1972 +/- |
| 233 | +/- 6 month | WILD | WILD | Female | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1972 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jun/1973 +/- |
| | | | | | | Transfer | SACRAMNTO | 3.00E+172 | 15 day |
| | | | | | | Death | SACRAMNTO | 3.00E+172 | 28/Dec/1976 |
| 234 | 11/Jul/2013 | 225 | 227 | Female | - | Birth/Hatch | SANDIEGOZ | 913257 | 11/Jul/2013 |

| Studbook | | | | | | | | | |
|----------|-------------|------|-----|--------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Transfer | DALLAS | 15Q468 | 15/Sep/2015 |
| | | | | | | Death | DALLAS | 15Q468 | 03/Oct/2021 |
| 235 | 12/Jul/2013 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 913258 | 12/Jul/2013 |
| | | | | | | Transfer | CHICAGOBR | 6086 | 09/Jun/2015 |
| 236 | 18/Jul/2013 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 913268 | 18/Jul/2013 |
| 237 | 22/Jul/2013 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 913270 | 22/Jul/2013 |
| 238 | 30/Dec/2013 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 913463 | 30/Dec/2013 |
| | | | | | | Death | SANDIEGOZ | 913463 | 14/Sep/2019 |
| 239 | 30/Dec/2013 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 913464 | 30/Dec/2013 |
| 240 | 30/Dec/2013 | 225 | 227 | Female | - | Birth/Hatch | SANDIEGOZ | 913465 | 30/Dec/2013 |
| 241 | 15/Jun/2015 | 225 | 227 | Female | - | Birth/Hatch | SANDIEGOZ | 915092 | 15/Jun/2015 |
| 242 | 15/Jun/2015 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 915093 | 15/Jun/2015 |
| 243 | 15/Jun/2015 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 915094 | 15/Jun/2015 |
| 244 | 25/Apr/2015 | 221 | 212 | Male | - | Birth/Hatch | NZP-WASH | 307532 | 25/Apr/2015 |
| | | | | | | Transfer | SANDIEGOZ | 915406 | 23/May/2019 |
| | | | | | | Death | SANDIEGOZ | 915406 | 04/Feb/2022 |
| 245 | 25/Apr/2015 | 221 | 212 | Female | - | Birth/Hatch | NZP-WASH | 307533 | 25/Apr/2015 |
| | | | | | | Transfer | FRESNO | 320092 | 20/Oct/2021 |
| 246 | 08/Jan/2016 | 221 | 212 | Male | - | Birth/Hatch | NZP-WASH | 307587 | 08/Jan/2016 |
| | | | | | | Transfer | SANDIEGOZ | 916380 | 23/May/2019 |
| 247 | 07/Jan/2016 | 221 | 212 | Male | - | Birth/Hatch | NZP-WASH | 307589 | 07/Jan/2016 |
| | | | | | | Transfer | SANDIEGOZ | 916382 | 23/May/2019 |
| 248 | 10/Jan/2016 | 221 | 212 | Male | - | Birth/Hatch | NZP-WASH | 307588 | 10/Jan/2016 |
| | | | | | | Death | NZP-WASH | 307588 | 29/Jan/2016 |
| 249 | 01/Jun/2016 | 216 | 224 | Female | - | Birth/Hatch | LOWRY | 303660 | 01/Jun/2016 |
| | | | | | | Transfer | SANDIEGOZ | 916098 | 30/Oct/2018 |
| 250 | 04/Jun/2016 | 216 | 224 | Female | - | Birth/Hatch | LOWRY | 303661 | 04/Jun/2016 |
| | | | | | | Transfer | SANDIEGOZ | 916099 | 04/Jun/2016 |
| | | | | | | Transfer | SANDIEGOZ | 916099 | 30/Oct/2018 |
| 251 | 11/Jun/2016 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303663 | 11/Jun/2016 |
| | | | | | | Transfer | SANDIEGOZ | 916097 | 30/Oct/2018 |
| 252 | 28/Jan/2016 | 221 | 212 | Male | - | Birth/Hatch | NZP-WASH | 307590 | 28/Jan/2016 |
| | | | | | | Transfer | SANDIEGOZ | 916383 | 23/May/2019 |
| 253 | 10/Jan/2016 | 225 | 227 | Female | - | Birth/Hatch | SANDIEGOZ | 916184 | 10/Jan/2016 |

| Studbook | | | | | | | | | |
|------------|-------------|----------|-----|---------|--------------|-------------|-----------|----------|-------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| | | | | | | Death | SANDIEGOZ | 916184 | 12/May/2018 |
| 254 | 14/May/2017 | 221 | 212 | Female | - | Birth/Hatch | NZP-WASH | 307657 | 14/May/2017 |
| | | | | | | Transfer | SANDIEGOZ | 917619 | 23/May/2019 |
| | | | | | | Death | SANDIEGOZ | 917619 | 13/Aug/2019 |
| 255 | 20/Feb/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303740 | 20/Feb/2018 |
| | | | | | | Death | LOWRY | 303740 | 17/May/2018 |
| 256 | 16/Feb/2018 | 216 | 224 | Female | - | Birth/Hatch | LOWRY | 303735 | 16/Feb/2018 |
| | | | | | | Transfer | CHICAGOBR | 9669 | 14/Jan/2021 |
| 257 | 18/Feb/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303738 | 18/Feb/2018 |
| 258 | 18/Feb/2018 | 216 | 224 | Female | - | Birth/Hatch | LOWRY | 303737 | 18/Feb/2018 |
| 259 | 21/Feb/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303741 | 21/Feb/2018 |
| | | | | | | Death | LOWRY | 3741 | 22/Feb/2018 |
| 260 | 16/Feb/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303736 | 16/Feb/2018 |
| | | | | | | Transfer | SAN ANTON | B20008 | 07/Oct/2020 |
| 261 | 16/Feb/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303734 | 16/Feb/2018 |
| 262 | 18/Feb/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303739 | 18/Feb/2018 |
| | | | | | | Transfer | DENVER | A20048 | 08/Jul/2020 |
| 263 | 05/Jul/2018 | 216 | 224 | Female | - | Birth/Hatch | LOWRY | 303788 | 05/Jul/2018 |
| 264 | 09/Jul/2018 | 216 | 224 | Female | - | Birth/Hatch | LOWRY | 303789 | 09/Jul/2018 |
| 265 | 09/Jul/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303790 | 09/Jul/2018 |
| 266 | 09/Jul/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303791 | 09/Jul/2018 |
| | | | | | | Transfer | OKLAHOMA | 752401 | 21/Jul/2020 |
| 267 | 09/Jul/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303792 | 09/Jul/2018 |
| | | | | | | Transfer | KNOXVILLE | 5903 | 18/Mar/2021 |
| 268 | 09/Jul/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303793 | 09/Jul/2018 |
| | | | | | | Transfer | BUFFALO | R21000 | 28/Apr/2021 |
| 269 | 10/Nov/2018 | 216 | 224 | Male | - | Birth/Hatch | LOWRY | 303811 | 10/Nov/2018 |
| 270 | | | | Undeter | | | | | |
| | 13/Nov/2018 | 216 | 224 | mined | - | Birth/Hatch | LOWRY | 303807 | 13/Nov/2018 |
| | | | | | | Death | LOWRY | 303807 | 13/Nov/2018 |
| 271 | | | | Undeter | | | | | |
| 2/1 | 16/Nov/2018 | 216 | 224 | mined | - | Birth/Hatch | LOWRY | 303809 | 16/Nov/2018 |
| | | <u> </u> | | | | Death | LOWRY | 303809 | 16/Nov/2018 |

| Studbook | | | | | | | | | |
|----------|-------------|------|------|---------|--------------|--------------|-----------|----------|-----------------|
| ID | Hatch Date | Sire | Dam | Sex | Reproductive | Event | Location | Local ID | Date |
| 272 | | | | Undeter | | | | | |
| 272 | 29/Nov/2018 | 216 | 224 | mined | _ | Birth/Hatch | LOWRY | 303810 | 29/Nov/2018 |
| | | | | | | Death | LOWRY | 303810 | 29/Nov/2018 |
| 273 | 14/Jan/2019 | 225 | 227 | Female | - | Birth/Hatch | SANDIEGOZ | 1000031 | 14/Jan/2019 |
| 274 | 04/May/2019 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 1000366 | 04/May/2019 |
| 275 | 01/Jan/2015 | | | | | | | | 01/Jan/2015 +/- |
| 2/3 | +/- 6 month | WILD | WILD | Male | - | Birth/Hatch | Fiji / ~ | - | 6 month |
| | | | | | | | | | 01/Jan/2017 +/- |
| | | | | | | Wild Capture | Fiji / ~ | - | 6 month |
| | | | | | | Transfer | BUENOSAIR | R1200 | 17/Jan/2018 |
| | | | | | | Transfer | SANDIEGOZ | 918030 | 06/Jun/2018 |
| 276 | 04/Dec/2019 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 1001350 | 04/Dec/2019 |
| 277 | 02/Jan/2020 | 251 | 240 | Male | - | Birth/Hatch | SANDIEGOZ | 1001424 | 02/Jan/2020 |
| 278 | 04/Jan/2020 | 251 | 240 | Female | - | Birth/Hatch | SANDIEGOZ | 1001427 | 04/Jan/2020 |
| 279 | 04/Jan/2020 | 251 | 240 | Male | - | Birth/Hatch | SANDIEGOZ | 1001426 | 04/Jan/2020 |
| 280 | 23/Jan/2020 | 251 | 240 | Female | - | Birth/Hatch | SANDIEGOZ | 1001506 | 23/Jan/2020 |
| 281 | 29/Mar/2020 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 1001736 | 29/Mar/2020 |
| 282 | 31/Mar/2020 | 225 | 227 | Female | - | Birth/Hatch | SANDIEGOZ | 1001739 | 31/Mar/2020 |
| 283 | 22/Apr/2020 | 225 | 227 | Male | - | Birth/Hatch | SANDIEGOZ | 1001800 | 22/Apr/2020 |
| 284 | 02/Jun/2020 | 251 | 240 | Male | - | Birth/Hatch | SANDIEGOZ | 1001910 | 02/Jun/2020 |
| 285 | 13/Jun/2020 | 213 | 234 | Male | - | Birth/Hatch | DALLAS | 20C247 | 13/Jun/2020 |
| 286 | 22/Jun/2020 | 213 | 234 | Female | - | Birth/Hatch | DALLAS | 20C251 | 22/Jun/2020 |
| 287 | 11/Dec/2007 | WILD | 226 | Female | - | Birth/Hatch | SANDIEGOZ | 907540 | 11/Dec/2007 |
| | | | | | | Death | SANDIEGOZ | 907540 | 03/Jan/2011 |
| 288 | 18/May/2021 | 236 | 230 | Female | - | Birth/Hatch | SANDIEGOZ | 1001881 | 18/May/2021 |
| 289 | 27/May/2021 | 236 | 230 | Female | - | Birth/Hatch | SANDIEGOZ | 1001896 | 27/May/2021 |
| 290 | 15/May/2020 | 236 | 230 | Male | - | Birth/Hatch | SANDIEGOZ | 1001873 | 15/May/2020 |
| 291 | 02/Sep/2014 | UND | UND | Male | - | Birth/Hatch | KOLN | R714 | 02/Sep/2014 |
| | | | | | - | Transfer | TORONTO | 50589 | 18/Oct/2018 |
| 292 | 08/Sep/2013 | UND | UND | Female | - | Birth/Hatch | ZURICH | B30506 | 08/Sep/2013 |
| | | | | | - | Transfer | TORONTO | 51681 | 15/Sep/2021 |

Geographic scope of Regional Studbook

The Fiji Banded Iguana AZA Regional Studbook documents all Fiji Banded Iguanas that currently reside or once resided in the United States of America and Canada. This studbook only contains one species, *Brachylophus bulabula*. The historical studbook contains 288 specimens 136.133.19 at 35 institutions. The living studbook contains 66 specimens (42.24.0) currently housed in 20 institutions. This data is current through March 2022.

Conventions

The studbook contains no data entry conventions

Acknowledgements

Photos: Ken Bohn, San Diego Zoo Wildlife Alliance

Asako Navarro, Population Biologist, San Diego Zoo Wildlife Alliance

The group of Fijian iguanas at the San Diego Zoo Wildlife Alliance serves as:

- 1) a safeguard population in case of a catastrophic event in the Fiji Islands and habitat and animals need to be restored/reintroduced, and
- 2) through successful reproduction and careful management of genetics, individuals are sent to other AZA institutions to further stabilize the captive population through reproduction and/or displaying single animals while educating the public on critically endangered species and ecosystems on how to support efforts to restore and preserve them.

SDZWA works with Nature Fiji Mareqeti Vita, International Iguana Foundation, National Trust of Fiji Islands, Bird Life International, USGS and Ahura Resorts. Within these partners SDZWA has helped restore forests, set up breeding enclosures, training local people on husbandry, educating public; school children, track and monitor reintroductions of iguanas and genetic surveys and studying gut microbes. All AZA institutions that hold Fiji iguanas support these efforts with graphics and signage that tell a conservation message. They may also support either financially to one or more of the many Fijian conservation organizations. The breeding population of Fiji iguanas has been managed at SDZWA for over 3 decades and SDZWA has managed the AZA Species Survival Program since inception. The last 5 years there have been 22 successful hatchlings at the SDZWA. This new group of Fijian iguanas is unrelated to SDZWA animals and will greatly enhance genetic diversity as founder animals.

DOI: 10.1002/ece3.7373

ORIGINAL RESEARCH



Gut microbial ecology of the Critically Endangered Fijian crested iguana (*Brachylophus vitiensis*): Effects of captivity status and host reintroduction on endogenous microbiomes

Samuel J. Eliades¹ | Joseph C. Brown^{1,2} | Timothy J. Colston³ | Robert N. Fisher⁴ | Jone B. Niukula⁵ | Kim Gray⁶ | Jhabar Vadada⁵ | Sia Rasalato⁷ | Cameron D. Siler¹

Correspondence

Samuel J. Eliades, Sam Noble Oklahoma Museum of Natural History and Department of Biology, University of Oklahoma, 2401 Chautauqua Ave., Norman OK 73072-7029, USA.

Email: sjeliades@ou.edu

Funding information

University of Oklahoma; International Iguana Foundation; San Diego Zoo Global; Survivor Entertainment Group; Dutch Iguana Society; National Science Foundation, Grant/Award Number: DEB 1657648; Kula Eco Park; Taronga Conservation Society Australia; USGS Ecosystems Mission Area; Oklahoma City Zoo and Botanical Garden; Critical Ecosystems Partnership Fund

Abstract

Animals often exhibit distinct microbial communities when maintained in captivity as compared to when in the wild. Such differentiation may be significant in headstart and reintroduction programs where individuals spend some time in captivity before release into native habitats. Using 16S rRNA gene sequencing, we (i) assessed differences in gut microbial communities between captive and wild Fijian crested iguanas (Brachylophus vitiensis) and (ii) resampled gut microbiota in captive iguanas released onto a native island to monitor microbiome restructuring in the wild. We used both cloacal swabs and fecal samples to further increase our understanding of gut microbial ecology in this IUCN Critically Endangered species. We found significant differentiation in gut microbial community composition and structure between captive and wild iguanas in both sampling schemes. Approximately two months postrelease, microbial communities in cloacal samples from formerly captive iguanas closely resembled wild counterparts. Interestingly, microbial communities in fecal samples from these individuals remained significantly distinct from wild conspecifics. Our results indicate that captive upbringings can lead to differences in microbial assemblages in headstart iguanas as compared to wild individuals even after host reintroduction into native conditions. This investigation highlights the necessity of continuous monitoring of reintroduced animals in the wild to ensure successful acclimatization and release.

KEYWORDS

conservation, headstart, husbandry, microbial restructuring, reptiles, wildlife management

This is an open access article under the terms of the Creative Commons Attribution License, which permits use, distribution and reproduction in any medium, provided the original work is properly cited.

¹Sam Noble Oklahoma Museum of Natural History and Department of Biology, University of Oklahoma, Norman, Oklahoma, USA

²Hope Zoo Preservation Foundation, Kingston, Jamaica

³Department of Biology, University of Florida, Gainesville, Florida, USA

⁴Western Ecological Research Center, U.S. Geological Survey, San Diego, California, USA

⁵National Trust of Fiji Islands, Suva, Fiji

⁶San Diego Zoo Wildlife Alliance, San Diego, California, USA

⁷Ahura Resorts, Suva, Fiji

^{© 2021} The Authors. Ecology and Evolution published by John Wiley & Sons Ltd.

1 | INTRODUCTION

Gastrointestinal microbial communities are critical to host health, contributing to an array of functions that impact host fitness and reproductive success such as nutrient acquisition based on digestive efficiency, hormone balance, and immune response (Cho & Blaser, 2012; Colston & Jackson, 2016; Fraune & Bosch, 2010; Ley et al., 2008). Given that gut microbiota serve essential roles in maintaining host well-being, the study of these communities is a novel tool for wildlife conservation initiatives, particularly in programs involving ex situ animal care (Bahrndorff et al., 2016; Jiménez & Sommer, 2017; Redford et al., 2012; West et al., 2019). With few exceptions, a variety of species housed in captivity show disparate gut microbiomes compared with wild counterparts which may be caused by dietary differences, antibiotic treatments, exposure to other species in captivity, or various other potential drivers that alter microbial compositions (Alfano et al., 2015; Cheng et al., 2015; Clayton et al., 2016; Eigeland et al., 2012; McKenzie et al., 2017; West et al., 2019; Zhu et al., 2011). Such differences may be signs of dysbiosis, or perturbations of microbial communities that hinder system function and are often associated with negative health outcomes in hosts (Gilbert et al., 2016; West et al., 2019). For example, captivity has been linked to increases in potential pathogens within gastrointestinal microbial communities in mammals (Amato et al., 2016; Cheng et al., 2015; Wan et al., 2016; Wasimuddin et al., 2017), birds (Xie et al., 2016), and reptiles (Jiang et al., 2017; Kohl et al., 2017). Distinct gut microbiota between captive and wild hosts is especially significant in headstart and reintroduction conservation programs, as altered microbial communities or introduced pathogens in captive animals slated for release could hinder reintroduction success and survivorship in the wild due to reduced dietary efficiency or compromised immune response affecting survivorship (Bahrndorff et al., 2016; Jiménez & Sommer, 2017; Redford et al., 2012; West et al., 2019).

Headstart programs have become increasingly common management strategies to supplement declining wildlife populations at risk of extinction (McGowan et al., 2017; Redford et al., 2011; Tear et al., 1993). In these programs, young animals are reared in captivity past their most vulnerable life stages before being released to reinforce wild populations (Alberts, 2007; Ferguson et al., 1982). Historically, however, effective reintroduction of captive animals into the wild has been rare, with as few as 13% of such projects being deemed successful (Fischer & Lindenmayer, 2000; Mathews et al., 2005). Multiple factors have been linked to animal headstart and reintroduction difficulties including individual animal behavior (Alberts, 2007; Mathews et al., 2005) and ill-suited release sites (Pérez-Buitrago et al., 2008). More recently, microbial incompatibilities also have been suggested as possible impediments to reintroduction success (Bahrndorff et al., 2016; Jiménez & Sommer, 2017; Redford et al., 2012; West et al., 2019). However, no studies to date have examined gut microbiota in reintroduced species both preand postrelease to analyze microbial composition and acclimation of these communities to native habitats. Improved understanding of host natural microbiomes and microbial shifts associated with captivity and headstart animal release could help management practitioners to better prepare animals for reintroduction and increase headstart success of imperiled species.

The Fijian crested iguana (Brachylophus vitiensis) is an herbivorous lizard species endemic to dry and littoral forests in western Fiji (Fisher et al., 2019; Harlow, Fisher, & Grant, 2012). Since the species' discovery in 1981, it has experienced sharp population declines throughout most of its limited range due to habitat loss and introduced predators (Fisher et al., 2019; Gibbons, 1981; Harlow et al., 2007). The Fijian crested iguana is listed on CITES Appendix S1 and as Critically Endangered by the IUCN Red List (Fisher et al., 2019; Harlow et al., 2012). To ensure the long-term viability of this species in Fiji, a captive breeding and headstart program was established in 2010 with a specific focus on animals from the uninhabited island of Monuriki (Chand et al., 2016; Fisher et al., 2019). Monuriki Island crested iguanas are genetically distinct from all other crested iguana populations (Keogh et al., 2008), and the 2008 Iguana Species Recovery Plan prioritized Monuriki as the single most important site for immediate conservation action for this taxon (Fisher et al., 2019; Harlow et al., 2008). From 2010 to 2012, 20 adult iguanas were caught in the wild from Monuriki Island and transported to Kula Eco Park on the large island of Viti Levu to develop a captive breeding colony (Chand et al., 2016). Over the next six years, these 20 wildcaught individuals were successfully bred in managed care at Kula Eco Park with the intention of headstarting and returning the offspring to their source island of Monuriki (Chand et al., 2016; Fisher et al., 2019). In mid-May 2015, 32 captive-bred crested iguanas were released onto Monuriki Island, with an additional 32 captive-bred iguanas and 16 of the original adult wild founder iguanas released onto Monuriki in February 2017.

In 2017, we completed extensive sampling of gut microbial communities from Fijian crested iguanas in captivity at Kula Eco Park, wild iguanas on Monuriki Island, and previously captive iguanas released onto Monuriki to better understand how endogenous microbiomes are influenced by both human care and host reintroduction. In this study, we not only compare gut microbiomes in captive and wild lizards of a Critically Endangered species, but also assess the restructuring of microbiota in headstart animals reintroduced into native habitats. Additionally, by inventorying gut microbiota in Fijian crested iguanas using two sampling techniques, cloacal swabs and fecal samples, we address how sampling regime influences microbial data recovered and subsequent downstream analyses. While gut microbial diversity reported from cloacal and fecal sampling is often similar, significant discrepancies in relative abundances of microbial taxa between sampling types are well noted (Colston et al., 2015; Kohl et al., 2017; Stanley et al., 2015). We used both techniques to maximize our understanding of gut microbial ecology in B. vitiensis and to mitigate potential shortcomings associated with employment of a single sampling technique (Colston et al., 2015; Ren et al., 2016). The Fijian crested iguana headstart initiative represents a unique opportunity to address two important research questions: (i) How does captivity status effect the diversity and structure of

gut microbiomes? and (ii) How do such communities respond to host reintroduction into native habitats? The results of this study have direct implications for the management and conservation of this Critically Endangered reptile species and for headstart and reintroduction programs globally.

MATERIALS AND METHODS

2.1 | Animal maintenance and sample collection

Located 45 km northwest of the main Fijian island of Vitu Levu, Monuriki Island (17°37'S, 177°02'E) is a small (45 ha, 216 m ele.), uninhabited island belonging to the Mamanuca Island group in western Fiji (Figure 1). From 2010 to 2012, 10 male and 10 female adult Monuriki Island crested iguanas were harvested from the wild and brought to Kula Eco Park on Viti Levu to initiate a captive breeding headstart program. These 20 wild-caught crested iguanas were maintained at Kula Eco Park in a private facility specifically built for captive breeding of Monuriki crested iguanas. Iguana cages were made from galvanized steel and mesh, measuring 92 cm tall and 92 cm wide, with wood branches for arboreal perching. Iguanas were maintained on a daily diet of fresh salad made from local mixed greens and fruits. Adult iguanas were housed in pairs, while all captive-bred offspring were kept in small groups of two to four individuals per cage. Nest boxes were placed in cages for gravid females. Once eggs were deposited by a female, they were immediately removed and placed in a separate incubator until hatching.



FIGURE 1 Adult Fijian crested iguana (B. vitiensis) perched in native habitat on Monuriki Island (Photograph by J.C.B.)

Hatchlings were fed in the same manner as adults and juveniles, but salads were cut into smaller pieces. We implanted unique passive integrated transponder (PIT) tags subcutaneously into all iguanas for identification in the wild.

We collected samples from crested iguanas of four distinct life history groups: The original wild-caught adult founder iguanas from Monuriki brought to Kula Eco Park for captive breeding (wildcaught founders; WCF) from 2010 to 2012, captive-born individuals released onto Monuriki in 2015 (CB2015), captive-born individuals released onto Monuriki in 2017 (CB2017), and wild individuals on Monuriki (Wild). Further, we sampled microbiota in WCF and CB2017 individuals while in captivity and approximately 2 months after relocation onto Monuriki Island.

From 22 to 24 February 2017, we inventoried gut microbiota in WCF and CB2017 Fijian crested iguanas at Kula Eco Park using two sampling techniques, cloacal swabs and fecal samples. To collect cloacal samples, sterile, rayon-tipped swabs were inserted approximately 3 cm into the cloacal opening of each animal and rotated 10 times. For fecal sample collection, iguanas were placed in individual prewashed pillowcases overnight and feces were retrieved opportunistically within 4-8 hr. Pillowcases were washed subsequent to each use. For efficient preservation of DNA in both sample types, swabs and fecal samples were placed into individual screw-cap 1.5 ml cryovials with 750 µl XpeditionTM Lysis/Stabilization Solution. These vials were subsequently inserted into a custom 3D-printed plastic sleeve to hold the vials, bolted to a reciprocating saw attachment, inserted into a Milwaukee M12 Hackzall battery-operated reciprocating saw, and shaken vigorously for 5 min to act as a mechanical homogenization device. Samples were stored at ambient temperature while in the field before transportation to the Sam Noble Oklahoma Museum of Natural History for curation and storage.

On 24 February 2017, we transported 16 WCF and 32 CB2017 (aged 12-28 months) iguanas from Kula Eco Park to Monuriki Island for assimilation into their source population. From the time of release to mid-July 2017, we conducted standard night surveys for Brachylophus (Harlow et al., 2007) on Monuriki Island to monitor iguanas and sample gut microbial communities in the wild. Once iguanas were captured, the presence of a PIT tag allowed us to determine whether the individual was a WCF, CB2017, or CB2015 iguana, while all iguanas lacking PIT tags were classified as Wild individuals. Gut microbial samples were collected using the same methodologies as for iguanas in captivity at Kula Eco Park.

2.2 | Microbial inventories

We extracted total DNA from 94 samples (52 cloacal and 42 fecal) from 39 host lizards using Zymo Quick-DNA Fecal/Soil Microbe Kits. Both cloacal swabs and fecal samples were incubated at 65°C for 15 min on a dry heating block and then vortexed for 15 min on an Eppendorf ThermoMixer® at 23°C and maximum speed (2000 rpm) immediately prior to beginning Zymo's recommended protocol. We amplified the V4 region of the 16S rRNA gene using WILEY_Ecology and Evolution

the index primers and PCR protocols of Kozich et al., (2013). PCR products were cleaned, normalized, and pooled using a SequelPrep Normalization Plate Kit (Invitrogen). Pooled libraries were purified using Agencourt® AMPure® magnetic bead capture and sent to the University of Oklahoma's Consolidated Core Lab (CCL) for sequencing using 515F and 806R primers targeting 2x300bp reads on an Illumina MiSeq sequencing platform (Caporaso et al., 2012).

Raw sequences were first paired and trimmed using AdapterRemoval2 v2.2.2 with default parameters (Lindgreen, 2012; Schubert et al., 2016). Cleaned sequences were clustered de novo into operational taxonomic units (OTUs) using UPARSE in USEARCH v11.0.667 at a minimum sequence identity of 97% and a minimum abundance of four (Edgar, 2013). Remaining sample curation and analysis were carried out in QIIME v1.9.1 (Caporaso et al., 2010). Taxonomies were assigned to OTUs using GreenGenes v13.8 (DeSantis et al., 2006). Archaea, chloroplast, mitochondria, PhiX, and other nonbacterial sequences were removed from processed OTU tables to ensure only bacterial sequences were included in downstream analyses. All 16S rRNA sequences have been deposited in the Sequence Read Archive (SRA) under accession no. PRJNA702127.

Among all samples (n = 94), a number were either duplicates (i.e., multiple subsamples of a single fecal deposit or cloacal swabs collected from the same host consecutively) or failed to generate sufficient sequencing coverage to produce meaningful microbial assessments. In instances where duplicate samples existed (n = 9), we retained only the sample with the greater sequencing depth. Of the remaining samples, those with fewer than 500 sequences (n = 2) were also removed to maximize sample inclusion against OTU coverage. The finalized dataset used for all subsequent analyses consisted of 83 samples (46 cloacal and 37 fecal) from 38 Fijian crested iguanas (Appendix S1). Within these datasets, five Fijian crested iguana hosts had complete time-series sets (pre- and postrelease sampling) via cloacal swabbing and five had them through fecal sampling. Three individuals occurred in both groups and had complete sampling sets from the two methodologies (Appendix S1).

Rarefaction depths varied by comparison based on Good's coverage estimates (Good, 1953) and rarefaction curves to maximize sample inclusion against OTU coverage (Figure S1). For analyses inclusive of all samples and of cloacal samples exclusively, we rarefied to 500 reads per sample (Good's estimate all samples = 0.92 ± 0.03 , range: 0.86-0.99; cloacal samples = 0.94 ± 0.03 , range: 0.87-0.98). In analyses involving fecal samples exclusively, we rarefied to 3,350 sequences per sample (Good's estimate fecal samples = 0.98 ± 0.005 , range: 0.97-0.99).

We compared a variety of community membership metrics across samples from Fijian crested iguana hosts. For all comparisons, we first calculated alpha-diversity measurements including number of observed OTUs, the Shannon index (Shannon, 1948), and Faith's phylogenetic diversity (Faith's PD; Faith, 1992). Alpha-diversity measurements were compared using analysis of variance (ANOVA) tests in R v3.6.2 (R Core Team, 2013) with the Tukey test used for post hoc analyses. The Kruskal-Wallis tests with Bonferroni's corrections

were used in QIIME to compare relative abundances of bacterial taxa between treatment groups. In examining specific OTUs, BLAST (Altschul et al., 1990) was used to compare novel sequences against those available in the National Center for Biotechnology Information's (NCBI) nucleotide database.

Community diversity and structure were compared using principal coordinates analysis (PCoA) on beta-diversity metrics including weighted and unweighted UniFrac distances (Lozupone & Knight, 2005) and the binary Jaccard index (Jaccard, 1901). Betadiversity matrices and PCoA plots were generated from the same rarefied datasets used to measure alpha-diversity metrics. The adonis function in the vegan v2.3_4 package (Oksanen et al., 2016) of R v3.3.1 (R Core Team, 2013) was used on beta-diversity distance matrices with 999 permutations to compare community composition between groups statistically.

Sample comparisons

We first analyzed bacterial composition across all 83 samples (Appendix S1) and then split the dataset into cloacal and fecal subsets to examine general patterns between sample types. Following broad overviews of the data, we tested the effects of captivity status on gut bacterial communities in crested iguana hosts and examined for microbial restructuring in reintroduced lizards postrelease.

To determine the influences of captivity status on gut microbial communities, we used snapshot analyses of cloacal and fecal samples taken from WCF, CB2017, CB2015, and Wild lizards. For cloacal comparisons, we included 35 samples collected between 22 February and 2 March 2017 (Appendix S1). This subset included 10 WCF, 13 CB2017, three CB2015, and nine Wild individuals. In our subsequent fecal analyses, we included 26 fecal samples collected between 22 February and 1 March 2017 (Appendix S1). This dataset encompassed fecal samples from nine WCF, nine CB2017, two CB2015, and six Wild iguanas. In addition to comparing microbial communities across four treatments, we also ran all analyses between just two conditions, captive (WCF and CB2017 grouped) and noncaptive (CB2015 and Wild grouped) (Ren et al., 2016).

We sought to assess the effects of release on lizard microbiota using both cloacal and fecal samples collected roughly 2 months after host reintroduction to Monuriki. We collected cloacal samples from five recently released lizards, one WCF and four CB2017, between 24 April and 11 May 2017 (Appendix S1). We compared microbial communities from these samples against those in the initial 23 captive animal cloacal samples (10 WCF, 13 CB2017) and the initial 12 noncaptive samples (nine Wild, three CB2015). We also compared six novel fecal samples (one WCF, five CB2017) collected between 2 and 17 May (Appendix S1) against the 18 initial captive fecal samples (nine WCF, nine CB2017) and eight noncaptive fecal samples (two CB2015, six Wild). In both instances, we sought to determine whether gut microbiomes were more similar to captive communities or noncaptive communities two months after host reintroduction.

3.1 | General patterns in Fijian crested iguana microbiota

Our curated dataset of 83 samples generated 898,625 reads with a minimum read depth of 540, a maximum of 30,503, and a median of 9,883 reads per sample. Among the 46 cloacal samples only, 410,545 reads were recovered with a minimum read depth of 540 sequences per sample, maximum of 25,304, and median read depth of 8,521.5. The 37 fecal samples produced 488,080 reads with a minimum, maximum, and median read depth of 3,378, 30,503, and 12,558 reads per sample, respectively.

Fijian crested iguana microbiome samples averaged 85 unique OTUs per 500 reads, the Shannon index varied from 0.93 to 6.32 (mean = 4.77 ± 1.28), and Faith's PD varied from 2.76 to 14.33 (mean = 9.34 ± 2.87). The average Jaccard distance between pairs of samples was 0.83 suggesting that any two samples shared ~17% of their OTUs on average. Across rarefied sequences, six OTUs were found in $\geq 70\%$ of all samples, one *Oscillospira* sp., one *Phascolarctobacterium* sp., two unidentified taxa in the family Enterobacteriaceae, and two unidentified taxa in the families Clostridiaceae and Lachnospiraceae. At a rarefied depth of 500 reads per sample, most sequences (91.8%) belonged to four phyla: Firmicutes (48.3%), Proteobacteria (18.4%), Actinobacteria (13.9%), and Bacteroidetes (11.1%).

The average number of OTUs per cloacal sample was 68 (sequence depth = 500 rarified reads/sample), the Shannon index varied from 0.81 to 6.07 (mean = 4.09 ± 1.32), and Faith's PD varied from 2.8 to 12.66 (mean 7.88 ± 3.04). Jaccard distances averaged 0.86 across pairs of cloacal samples, a slight increase when compared to that among all samples. Just four OTUs were identified in $\geq 70\%$ rarefied cloacal sequences, one *Corynebacterium* sp., an unidentified microbe in Clostridiaceae, and two unidentified taxa in Enterobacteriaceae. The majority of cloacal reads (95.1%) belonged to the same four dominant phyla as in all samples: Firmicutes (37.2%), Proteobacteria (27.7%), Actinobacteria (24.3%), and Bacteroidetes (5.9%).

Within fecal samples and at a sequencing depth of 3,350 quality-controlled reads, the average number of OTUs found was 224, the Shannon index varied from 5.14 to 6.63 (mean = 5.90 ± 0.37), and Faith's PD varied from 11.94 to 21.69 (mean = 17.13 ± 2.05). The average Jaccard distance between any pair of fecal samples was 0.65, suggesting more similarity among fecal samples compared with among cloacal samples. Across all fecal samples, 90 OTUs were found in $\geq 70\%$ of samples and seven OTUs were found in 100% of fecal samples. These included three *Bacteroides* spp., one *Parabacteroides* sp., an unidentified taxon in Lachnospiraceae, one in Enterobacteriaceae, and a third in Ruminococcaceae. Most rarefied reads (86.6%) belonged to just three phyla: Firmicutes (61.5%), Bacteroidetes (18.1%), and Proteobacteria (7.0%), while Actinobacteria comprised only 0.8% of rarified fecal reads.

3.2 | Comparison of microbiota in captive and noncaptive iguanas via cloacal samples

Comparisons of cloacal samples from Fijian crested iguanas of treatment groups WCF, CB2017, CB2015, and Wild yielded no significant differences in measured alpha-diversity metrics (Figure S2). This lack of differentiation remained even when samples were grouped as captive (WCF and CB2017 grouped) and noncaptive (CB2015 and Wild grouped) treatments (Figure S2). PCoA plots of beta-diversity metrics showed limited clustering when grouping both by four treatments and by captive and noncaptive lizards (Figure 2a). Among all four treatments, adonis tests determined significant differentiation in unweighted UniFrac distances ($R^2 = 0.1412$, p = 0.004) and Jaccard distances ($R^2 = 0.1445$, p = 0.001), while weighted UniFrac distances $(R^2 = 0.1448, p = 0.075)$ were not significantly distinct. Grouping by captive and noncaptive types produced similar, yet weaker, results in unweighted UniFrac distances ($R^2 = 0.0641$, p = 0.007), Jaccard distances ($R^2 = 0.0646$, p = 0.002), and weighted UniFrac distances ($R^2 = 0.0460$, p = 0.174). The average Jaccard distance between pairs of cloacal samples in this subset was 0.85 and remained similar within treatment groups (WCF = 0.81, CB2017 = 0.82, CB2015 = 0.75, Wild = 0.88; captive = 0.83, noncaptive = 0.86).

Rarefied cloacal samples across all groups in this subset were dominated by Firmicutes (37.7%), Proteobacteria (26.2%), Actinobacteria (24.9%), and Bacteroidetes (6.5%) with some differentiation among treatments (Figure S3). At 500 sequences per sample, the Kruskal-Wallis tests identified two OTUs that varied significantly in relative abundance between all four treatments following Bonferroni's corrections. These included one Cupriavidus sp. (WCF mean reads = 0, CB2017 = 0, CB2015 = 0.7, Wild = 0) and an unidentified taxon in Coriobacteriaceae (WCF mean reads = 0, CB2017 = 0, CB2015 = 2.0, Wild = 0). Both of these differentiations are likely due to limited sampling in the CB2015 category (n = 3). When comparing captive and noncaptive samples, one OTU, an unidentified taxon in Micrococcaceae, was found to differ between treatment groups (mean captive reads = 19.1, noncaptive = 0). BLAST queries of this specific sequence returned a 99.6% match to Nesterenkonia sp. strain MadaFrogSkinBac.DB-0.3605. While not significantly distinct between treatments, a number of OTUs were present in rarefied captive samples that were absent in noncaptive ones (Appendix S2). Notably, these included another Nesterenkonia sp. (captive mean reads = 37.7), one Brevibacterium sp. (captive mean reads = 12.5), and one Brachybacterium sp. (captive mean reads = 11.2).

3.3 | Comparison of microbiota in captive and noncaptive iguanas via fecal samples

We found significant differences in the number of OTUs (p=0.005; WCF = 223, CB2017 = 233, CB2015 = 181.5, Wild = 190) and in Faith's PD (p=0.001; WCF = 17.0, CB2017 = 17.8, CB2015 = 14.1,

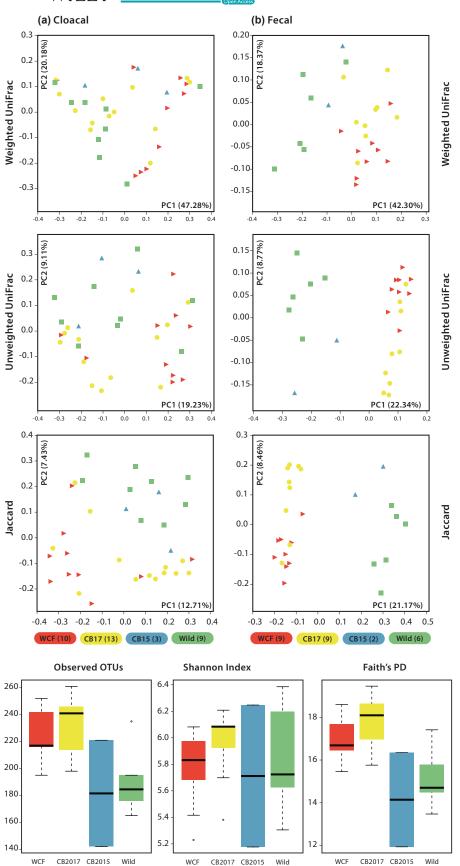


FIGURE 2 Principal coordinates analysis plots of initial (2017) (a) cloacal swabs and (b) fecal samples across four Fijian crested iguana treatment groups. Treatment groups include wild-caught founders (WCF) in captivity and captiveborn headstart individuals (CB2017) in captivity at Kula Eco Park on Viti Levu, Fiji, as well as captive-born individuals released onto Monuriki Island in 2015 (CB2015) and fully wild individuals on Monuriki Island (Wild). The number of individual samples per treatment group is indicated in parentheses

FIGURE 3 Alpha-diversity metrics of initial (2017) fecal samples across four treatment groups. Treatments included wild-caught founder (WCF) iguanas in captivity, captive-born headstart individuals (CB2017) in captivity, captive-born individuals released onto Monuriki in 2015 (CB2015), and fully wild individuals on Monuriki Island (Wild). Paired symbols denote significantly distinct treatment groups

Wild = 15.1) but not in the Shannon index when comparing fecal samples across all four treatments (Figure 3). Post hoc analyses of observed OTUs found significant differentiation between CB2017

and Wild samples (p=0.012), while remaining comparisons were insignificant. Post hoc analyses of Faith's PD results revealed significant differentiation between CB2017 and CB2015 (p=0.011)

and CB2017 and Wild (p = 0.005) treatments. Remaining pairwise comparisons were insignificant. Grouping by captive and noncaptive statuses again resulted in significant differences in the number observed OTUs (p < 0.001; captive mean = 229, noncaptive mean = 188) and in Faith's PD (p < 0.001, captive mean = 17.4, noncaptive mean = 14.9) but not in the Shannon index (Figure S4). PCoA plots showed evident clustering among all four treatments and when grouped as captive and noncaptive samples (Figure 2b). Adonis analyses showed significant differences between the four conditions in weighted UniFrac distances ($R^2 = 0.4297$, p = 0.001), unweighted UniFrac distances ($R^2 = 0.3302$, p = 0.001), and Jaccard distances $(R^2 = 0.3142, p = 0.001)$. Captive and noncaptive comparisons showed similarly significant yet slightly weaker results in weighted UniFrac ($R^2 = 0.3162$, p = 0.001), unweighted UniFrac ($R^2 = 0.2122$, p = 0.001), and Jaccard distances ($R^2 = 0.2036$, p = 0.001). Pairs of fecal samples averaged a Jaccard distance of 0.65 with some deviation within treatment groups (WCF = 0.57, CB2017 = 0.55, CB2015 = 0.57, Wild = 0.63; captive = 0.57, noncaptive = 0.64).

The most prevalent phyla among rarefied fecal reads included Firmicutes (66.5%), Bacteroidetes (16.1%), and Proteobacteria (6.5%) contributing to 89.2% of sequences. Synergistetes (2.4%), Planctomycetes (2.3%), Tenericutes (2.0%), and Verrucomicrobia (1.9%) also contributed to general relative diversity present while Actinobacteria accounted for just 0.7% of rarefied reads (Figure S5). The Kruskal-Wallis tests identified one OTU that varied in abundance across all four groups, an unidentified Clostridiales (WCF mean reads = 0, CB2017 = 0, CB2015 = 1.5, Wild = 0) though significance of this difference is likely due to limited sampling of CB2015 individuals (n = 2) in this subset. Comparisons of captive and noncaptive microbial communities from crested iguana fecal samples identified seven OTUs that varied significantly between treatments. Three of these OTUs, one Coprococcus sp. (captive mean = 0.3, noncaptive = 26.5), an unidentified Coriobacteriaceae (captive mean = 0, noncaptive = 3.9), and an unidentified Mogibacteriaceae (captive mean = 0, noncaptive = 4.3), were more prevalent in noncaptive animals than in captive ones (Appendix S2). The remaining four OTUs were common in rarefied captive animal communities but absent from noncaptive counterparts. These OTUs included one Ruminococcus sp. (captive mean = 95.3, noncaptive = 0), an Acetobacterium sp. (captive mean = 82, noncaptive = 0), an unidentified Christensenellaceae (captive mean = 53.4, noncaptive = 0), and one Bacteroides sp. (captive mean = 25.3, noncaptive = 0; Appendix S2). References of the unidentified Christensenellaceae sequence against published data in BLAST returned hits only to uncultured bacterial clones. A litany of additional OTUs were present in rarefied captive fecal samples that were not recovered in noncaptive ones (Appendix S2). Among these included an unidentified taxon in Synergistaceae (captive mean = 116.9), two unidentified Christensenellaceae (captive means = 58.6, 38.9), one Akkermansia sp. (captive mean = 29.3), another Ruminococcus sp. (captive mean = 18.7), an unidentified Clostridiales (captive mean = 15.1), and one Coprococcus sp. (captive mean = 11.0). BLAST searches of the unidentified taxon in Synergistaceae returned a 100% match

to Cloacibacillus porcorum strain CL-84, while the two unidentified Christensenellaceae and the Clostridiales paired only to uncultured bacterium.

3.4 | Temporal variation of cloacal microbiota in captive crested iguanas postrelease

Comparisons of microbial communities from five cloacal samples taken shortly after host reintroduction against both captive and noncaptive microbial communities revealed no significant variation in alpha-diversity metrics (Figure S6). Comparisons of reintroduced individuals with complete time-series sampling yielded no significant difference in alpha-diversity metrics pre- and postrelease. PCoA plots revealed limited clustering across all three conditions in weighted and unweighted UniFrac metrics though some grouping between reintroduced and noncaptive samples was apparent in Jaccard plots (Figure 4a). Plots of only individuals with complete time-series sampling also showed inconsistent groupings (Figure S7). Adonis tests between reintroduced, captive, and noncaptive samples found significant differentiation in unweighted UniFrac ($R^2 = 0.0883$, p = 0.006) and Jaccard distances ($R^2 = 0.0907$, p = 0.001). Further pairwise comparisons between reintroduced samples and noncaptive samples uncovered no distinction in any beta metrics. Reintroduced samples were, however, significantly distinct from captive ones in the Jaccard metric ($R^2 = 0.0601$, p = 0.006). The average Jaccard distance among pairs of samples from reintroduced lizards was 0.83.

Microbial communities sourced from cloacal swabs in this subset were largely dominated by three phyla: Firmicutes, Proteobacteria, and Actinobacteria in all treatment groups. However, proportions of these taxa shifted between reintroduced, captive, and noncaptive conditions (Figure S8). We identified a single OTU that varied statistically between all three groups based on the Kruskal-Wallis tests, the unidentified taxon in Micrococcaceae matching Nesterenkonia sp. strain MadaFrogSkinBac.DB-0.3605 (reintroduced mean reads = 0, captive = 19.1, noncaptive = 0). Interestingly, a number of OTUs that were commonly found in cloacal samples from captive animals including the additional strain of Nesterenkonia, the Brevibacterium sp., and the Brachybacterium sp. were nearly or entirely absent in rarefied reads of samples from reintroduced hosts (reintroduced mean reads = 0, 0.2, 0.2, respectively; Appendix S2).

3.5 | Temporal variation of fecal microbiota in captive crested iguanas postrelease

We compared microbial communities in six fecal samples from reintroduced iguanas against those from captive and noncaptive samples and found significant differences in the number of observed OTUs (p < 0.001; reintroduced mean reads = 252, captive = 229, noncaptive = 188) and in Faith's PD (p < 0.001, reintroduced mean reads = 18.9, captive = 17.4, noncaptive = 14.9; Figure 5). Post hoc

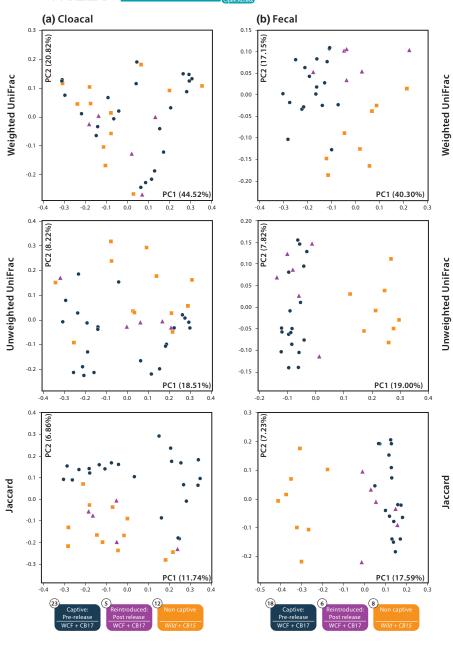


FIGURE 4 Principal coordinates analysis of reintroduced and initial (2017) (a) cloacal swabs and (b) fecal samples across three Fijian crested iguana treatment groups. Captive prerelease samples include wild-caught founders (WCF) in captivity and captive-born headstart individuals (CB2017) in captivity at Kula Eco Park collected February 2017. Noncaptive individuals consist of captiveborn individuals released onto Monuriki Island in 2015 (CB2015) and fully wild individuals on Monuriki Island (Wild). Postrelease treatments include formerly captive WCF and CB2017 individuals sampled in late April 2017, 2 months after release onto Monuriki Island

analyses of observed OTUs found significance only between reintroduced and noncaptive communities (p = 0.001). Faith's PD posthoc tests found significance between reintroduced and noncaptive communities (p = 0.003) as well as between captive and noncaptive communities (p = 0.003). Comparisons of reintroduced individuals with complete time-series sampling yielded no significant difference in alpha-diversity metrics pre- and postrelease. Plotted beta-diversity metrics showed some clustering between treatment groups with reintroduced animals associating most closely with captive samples (Figure 4b). Significant differences in adonis tests were recorded in weighted UniFrac distances ($R^2 = 0.3417$, p = 0.001), unweighted UniFrac distances ($R^2 = 0.2291$, p = 0.001), and Jaccard distances ($R^2 = 0.2197$, p = 0.001) between reintroduced, captive, and noncaptive samples. Pairwise comparisons between reintroduced and captive samples were significantly distinct for all three metrics: weighted UniFrac ($R^2 = 0.2493$, p = 0.001),

unweighted UniFrac ($R^2=0.0899, p=0.001$), and Jaccard distances ($R^2=0.0915, p=0.001$). Comparisons between reintroduced and noncaptive samples also produced significant differentiation in weighted UniFrac distances ($R^2=0.3992, p=0.006$), unweighted UniFrac distances ($R^2=0.3862, p=0.002$), and Jaccard distances ($R^2=0.3747, p=0.001$). PCoA plots of individuals with complete time-series sampling exclusively showed clustering with some overlap between groups (Figure S9). The average Jaccard distance among pairs of samples after release was 0.61.

Microbial communities found in fecal samples from reintroduced, captive, and noncaptive samples were primarily dominated by three phyla: Firmicutes, Bacteroidetes, and Proteobacteria. Relative abundances of these phyla varied between conditions (Figure S10). In comparing OTU relative abundances, Kruskal-Wallis tests retrieved nine OTUs that differed between all three treatments (Appendix S2). These included one *Acetobacterium* sp.

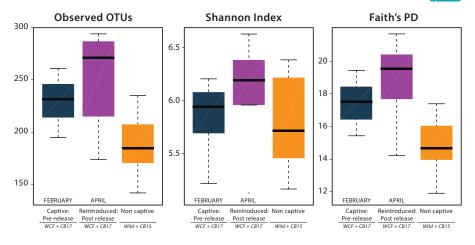


FIGURE 5 Alpha-diversity metrics of fecal samples from reintroduced Fijian crested iguana hosts compared against initial samples. Captive prerelease samples include wild-caught founders (WCF) in captivity and captive-born headstart individuals (CB2017) in captivity at Kula Eco Park. Noncaptive individuals consist of captive-born individuals released onto Monuriki Island in 2015 (CB2015) and fully wild individuals on Monuriki Island (Wild). Initial sample collection occurred in February 2017. Postrelease treatments include formerly captive WCF and CB2017 individuals sampled 2 months after release onto Monuriki Island in April 2017. Paired symbols denote significantly distinct treatment groups

(reintroduced = 3.2, captive = 82, noncaptive = 0), one Akkermansiasp. (reintroduced = 164.8, captive = 29.3, noncaptive = 0), one Butyricimonas sp. (reintroduced = 1.7, captive = 0, noncaptive = 0.3), one Coprococcus sp. (reintroduced = 2.5, captive = 0.3, noncaptive = 26.5), one Ruminococcus sp. (reintroduced = 7.7, captive = 95.3, noncaptive = 0), an unidentified Christensenellaceae (reintroduced = 121.7, captive = 53.4, noncaptive = 0), an unidentified Coriobacteriaceae (reintroduced mean reads = 0, captive = 0, noncaptive = 3.9), an unidentified Lachnospiraceae (reintroduced = 0.3, captive = 7.7, noncaptive = 0), and an unidentified Mogibacteriaceae (reintroduced = 0.5, captive = 0, noncaptive = 4.3). Scrutiny of additional taxa found in captive lizards yet absent from noncaptive ones yielded mixed results with some bacterial strains becoming more prevalent in reintroduced hosts and others becoming less prevalent (Appendix S2). The unknown Synergistaceae matching C. porcorum, for example, increased in mean relative abundance between conditions (reintroduced mean reads = 122.5, captive = 116.9) as did the noted Bacteroides sp. (reintroduced = 134.7, captive = 25.3). Meanwhile the second Ruminococcus sp. (reintroduced = 0.8, captive mean = 18.7), Coprococcus sp. (reintroduced = 0.7, captive mean = 11.0), and unidentified Clostridiales (reintroduced = 0.2, captive mean = 15.1) all decreased in relative abundances in reintroduced hosts (Appendix S2).

DISCUSSION

Our findings show that captive and noncaptive Fijian crested iguanas harbor distinct microbial communities regardless of sampling regime (cloacal versus fecal). These results expand on a growing body of evidence that suggests animals housed in captivity have distinct microbiomes when compared to wild conspecifics (Alfano et al., 2015; Cheng et al., 2015; Clayton et al., 2016; Eigeland et al., 2012; Jiang

et al., 2017; Kohl et al., 2017; McKenzie et al., 2017; Ren et al., 2016; West et al., 2019; Zhu et al., 2011). In both cloacal and fecal sampling, captive (WCF and CB2017 grouped) and noncaptive (CB2017 and Wild grouped) iguanas harbored significantly different microbial communities in at least two beta-diversity metrics (Figure 4). Further, Jaccard distances were consistently lower within captive treatments, suggesting a greater degree of shared OTU breadth and potentially homogenization among captive individuals. These findings are consistent with those seen in Anolis sagrei where alphadiversity measures were generally higher in captive animals compared with wild conspecific hosts, yet gut communities were more homogenous, and beta-diversity metrics separated wild and captive hosts (Ren et al., 2016). In addition to harboring distinct microbial communities, a number of specific OTUs, particularly potential pathogens, were seen in greater abundances in captive over noncaptive Critically Endangered Fijian crested iguanas.

The introduction of potentially pathogenic bacteria has been documented previously in wild reptiles brought into temporary captivity (Jiang et al., 2017; Kohl et al., 2017) but not in a conservation initiative specifically designed to release captive animals into the wild. In cloacal samples from captive Fijian crested iguanas, one Brachybacterium sp., one Brevibacterium sp., and two Nesterenkonia spp. were present in rarefied reads while absent from noncaptive counterparts (Appendix S2). All three of these genera have species implicated as potential pathogens at least in humans (Gruner et al., 1993; Nakayama et al., 2009; Tamai et al., 2018). Fecal samples produced similar results where strains from multiple genera, including Bacteroides, Cloacibacillus, and Ruminococcus were found commonly in captive samples but absent in rarefied, noncaptive reads (Appendix S2). These three genera are also potentially pathogenic strains in humans (Domingo et al., 2015; Titécat et al., 2014; Wexler, 2007). Although determining the exact pathogenic capacities of particular microbes is outside the realm of this investigation,

20457758, 2021, 9, Downloaded from https://onlinelbary.wiley.com/doi/10.1002/eces.37373 by San Diego Zoo Wildlife Alliance, Wiley Online Library on [06/062023]. See the Terms and Conditions (https://onlinelbary.wiley.com/terms-and-conditions) on Wiley Online Library for rules of use; OA article star e governed by the applicable Creative Common

high abundances of potential pathogens in animals under human care support the possibility that headstart animals can harbor disease-causing bacteria at significantly higher rates than animals living in the wild (Redford et al., 2012). Although microbial communities in hosts can shift rapidly on the scale of days to even hours in some cases (Costello et al., 2010; Ren et al., 2016), the impacts of releasing animals with elevated levels of what could be pathogenic microbiota have received little attention to date (Redford et al., 2012).

Reintroduction of captive Fijian crested iguanas into native habitats promoted restructuring of gut microbiomes toward noncaptive communities. After 2 months on Monuriki Island, cloacal samples from reintroduced iguanas appeared to harbor gut microbial communities more similar to noncaptive than to captive compositions (Figure 4 and S6). Additionally, noted potential pathogens in captive individuals were either absent or diminished in reintroduced hosts. Microbial assemblages generated from fecal samples, however, did not produce similar results. Instead, microbiota from fecal samples of reintroduced lizards seemingly resembled captive hosts more closely rather than noncaptive hosts (Figures 4 and 5). Potential pathogens also displayed differing trends with Ruminococcus spp. becoming less abundant in host iguanas two months after release and Bacteroides sp. and Cloacibacillus sp. becoming more abundant in samples taken from individuals after reintroduction. Such findings support previously proposed hypotheses that pathogens associated with human care may continue to impact headstart or reintroduced animals even after release (Bahrndorff et al., 2016; Redford et al., 2012; West et al., 2019). Despite fecal samples from reintroduced iguanas being significantly distinct from noncaptive samples, this differentiation does appear to be temporary. Released animals relocated onto Monuriki Island in 2015 (CB2015) contained gut microbial assemblages more closely associated with true wild iguanas rather than captive ones in both cloacal and fecal samples, suggesting that reacclimation of wild-type microbiomes can occur after prolonged survival in native habitats (i.e., two years; Figure 2).

Although both cloacal and fecal sampling techniques recovered significant differentiation in gut microbial communities between captive and noncaptive Fijian crested iguanas (Figures 2 and 4), specific OTUs that varied between treatments were inconsistent. Further, differences were apparent in comparing assemblages from reintroduced lizards to those in captive and noncaptive hosts based on sampling regime (Figure 4). Cloacal samples from reptiles generally encapsulate the breadth of gut microbial diversity but vary significantly in abundances compared directly to hindgut samples while fecal samples tend to better represent gut diversity and abundances (Colston et al., 2015; Kohl et al., 2017). When assessing microbial communities in captive lizards for potential disease-causing microbes, or in evaluating the restructuring of host microbiomes post-release, multiple nonlethal gut microbial sampling techniques may be necessary to fully elucidate trends of interest.

Gut microbial communities in captive Fijian crested iguanas are distinct from those in noncaptive iguanas and this differentiation prevails for some time postrelease. However, the duration in which a host's microbial composition shifts to closely resemble true wild counterparts remains unclear. A continued need exists to monitor microbial communities in headstart animals postrelease to track animal well-being (Bahrndorff et al., 2016; Jiménez & Sommer, 2017; Redford et al., 2012; West et al., 2019). Such studies could determine the influences of potential disease-causing bacteria associated with captive upbringings on host survival, growth, and reproduction in the wild. Further, wild conspecifics in populations with introduced animals should be monitored closely for introduction of novel pathogens brought on from interaction with animals sourced from headstart programs (West et al., 2019). Such scenarios may justify the use of soft releases or probiotics prior to animal release to acclimatize gut microbiota in headstart individuals to natural conditions and eliminate possible disease-causing agents before complete reintroduction to the wild (Redford et al., 2012; West et al., 2019). Along with increased monitoring of animal health, additional scrutiny of specific OTUs seen in differential abundances between headstart and wild animals that may be pathogenic is necessary to determine the virulence of such bacterial strains. Should these OTUs be minimally pathogenic, then no additional action may be necessary to mitigate their increased abundances while animals are in captive settings. Ultimately, consistent monitoring of hosts postrelease and further examination of possible pathogens are the next step toward improving our understanding of gut microbial ecology in endangered species with conservation significance.

ACKNOWLEDGMENTS

This study was carried out under the permission of the Ministry of Education, National Heritage, Culture & Arts Fiji (Reference RA24/13). All methods were carried out in accordance with protocol R17-005 of the Institutional Animal Care and Use Committee of the University of Oklahoma and protocol 12-003 of the Institutional Animal Care and Use Committee of San Diego Zoo Wildlife Alliance (Zoological Society of San Diego). Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government. We thank the Matagali Vunaivi for their support and assistance throughout this project. The project was jointly funded by the International Iguana Foundation, Dutch Iguana Society, San Diego Zoo Global, Survivor Entertainment Group, Critical Ecosystems Partnership Fund, Kula Eco Park, Taronga Conservation Society Australia, the University of Oklahoma, and the USGS Ecosystems Mission Area to J.C.B, R.N.F, and C.K.L., the Oklahoma City Zoo and Botanical Garden to S.J.E., and NSF grant DEB 1657648 to C.D.S. We thank R. Chand and P. Harlow for all of their work to have successful breeding in captivity at Kula Eco Park. We thank C. Rochester, S. Pasachnik, S. Hathaway, E. Matatia, N. Thomas, S. Antsey, M. Glaser, B. Thaman, R. Ursua, K. Laqere-Beitaki, and Likuliku Resorts for assistance in the field, K. Sankaranarayanan for invaluable assistance in data analysis, and members of the Siler Lab for critical reviews of early drafts of the manuscript. Lastly, we thank anonymous reviewers for their critical evaluations of this manuscript.

CONFLICT OF INTEREST

The authors declare no conflict of interest.

AUTHOR CONTRIBUTIONS

Samuel Joseph Eliades: Formal analysis (equal); Funding acquisition (equal); Methodology (equal); Writing-original draft (equal). Joseph C. Brown: Conceptualization (equal); Data curation; Funding acquisition; Methodology; Project administration (equal); Writing-review & editing (equal). Tim Colston: Conceptualization (equal); Data curation; Formal analysis; Methodology; Writing-review & editing (equal). Robert N Fisher: Conceptualization; Funding acquisition; Writing-review & editing (equal). Jone Niukula: Data curation; Writing-review & editing (equal). Kim Gray: Funding acquisition; Writing-review & editing. Jhabar Vadada: Data curation; Writing-review & editing (equal). Sia Rasalato: Data curation; Writing-review & editing. Cameron Siler: Conceptualization (equal); Data curation (equal); Funding acquisition (equal); Project administration (equal); Writing-review & editing (equal).

DATA AVAILABILITY STATEMENT

All 16S rRNA sequences have been deposited in the Sequence Read Archive (SRA) under accession no. PRJNA702127.

ORCID

Samuel J. Eliades https://orcid.org/0000-0002-6753-5881

Joseph C. Brown https://orcid.org/0000-0002-9823-9022

Timothy J. Colston https://orcid.org/0000-0002-1127-1207

Robert N. Fisher https://orcid.org/0000-0002-2956-3240

Cameron D. Siler https://orcid.org/0000-0002-7573-096X

REFERENCES

- Alberts, A. C. (2007). Behavioral considerations of headstarting as a conservation strategy for endangered Caribbean rock iguanas. *Applied Animal Behaviour Science*, 102, 380–391. https://doi.org/10.1016/j.applanim.2006.05.037
- Alfano, N., Courtiol, A., Vielgrader, H., Timms, P., Roca, A. L., & Greenwood, A. D. (2015). Variation in koala microbiomes within and between individuals: Effect of body region and captivity status. Scientific Reports, 5, 10189. https://doi.org/10.1038/srep10189
- Altschul, S. F., Gish, W., Miller, W., Myers, E. W., & Lipman, D. J. (1990).

 Basic local alignment search tool. *Journal of Molecular Biology*, 215, 403–410. https://doi.org/10.1016/S0022-2836(05)80360-2
- Amato, K. R., Metcalf, J. L., Song, S. J., Hale, V. L., Clayton, J., Ackermann, G., Humphrey, G., Niu, K., Cui, D., Zhao, H., Schrenzel, M. D., Tan, C. L., Knight, R., & Braun, J. (2016). Using the gut microbiota as a novel tool for examining colobine primate Gl health. Global Ecology and Conservation, 7, 225–237. https://doi.org/10.1016/j.gecco.2016.06.004
- Bahrndorff, S., Alemu, T., Alemneh, T., & Lund Nielsen, J. (2016). The microbiome of animals: Implications for conservation biology. *International Journal of Genomics*, 2016, 5304028. https://doi.org/10.1155/2016/5304028
- Caporaso, J. G., Kuczynski, J., Stombaugh, J., Bittinger, K., Bushman, F. D., Costello, E. K., Fierer, N., Peña, A. G., Goodrich, J. K., Gordon, J. I., Huttley, G. A., Kelley, S. T., Knights, D., Koenig, J. E., Ley, R. E., Lozupone, C. A., McDonald, D., Muegge, B. D., Pirrung, M., ... Knight, R. (2010). QIIME allows analysis of high-throughput community

- sequencing data. *Nature Methods*, 7, 335. https://doi.org/10.1038/nmeth.f.303
- Caporaso, J. G., Lauber, C. L., Walters, W. A., Berg-Lyons, D., Huntley, J., Fierer, N., Owens, S. M., Betley, J., Fraser, L., Bauer, M., Gormley, N., Gilbert, J. A., Smith, G., & Knight, R. (2012). Ultra-high-throughput microbial community analysis on the Illumina HiSeq and MiSeq platforms. *The ISME Journal*, 6, 1621–1624. https://doi.org/10.1038/ismej.2012.8
- Chand, R., Niukula, J., Vadada, J., Fisher, R. N., Lovich, K., Pasachnik, S., Rasalato, S., Thaman, B., Seniloli, E., Tuamoto, T., & Harlow, P. (2016). Captive breeding and re-introduction of the Monuriki island crested Iguana in Fiji. In P. S. Soorae (Ed.), Global re-introduction perspectives: 2016 (pp. 76–81). IUCN SSC Re-introduction Specialist Group and Environment Agency-Abu Dhabi.
- Cheng, Y., Fox, S., Pemberton, D., Hogg, C., Papenfuss, A. T., & Belov, K. (2015). The Tasmanian devil microbiome—implications for conservation and management. *Microbiome*, 3, 76. https://doi.org/10.1186/s40168-015-0143-0
- Cho, I., & Blaser, M. J. (2012). The human microbiome: At the interface of health and disease. *Nature Reviews Genetics*, 13, 260–270. https://doi.org/10.1038/nrg3182
- Clayton, J. B., Vangay, P., Huang, H. U., Ward, T., Hillmann, B. M., Al-Ghalith, G. A., Travis, D. A., Long, H. T., Tuan, B. V., Minh, V. V., Cabana, F., Nadler, T., Toddes, B., Murphy, T., Glander, K. E., Johnson, T. J., & Knights, D. (2016). Captivity humanizes the primate microbiome. *Proceedings of the National Academy of Sciences*, 113, 10376–10381. https://doi.org/10.1073/pnas.1521835113
- Colston, T. J. & Jackson, C. R. (2016). Microbiome evolution along divergent branches of the vertebrate tree of life: What is known and unknown. *Molecular Ecology*, 25, 3776–3800. https://doi.org/10.1111/mec.13730
- Colston, T. J., Noonan, B. P., & Jackson, C. R. (2015). Phylogenetic analysis of bacterial communities in different regions of the gastrointestinal tract of *Agkistrodon piscivorus*, the cottonmouth snake. *PLoS One*, 10, e0128793. https://doi.org/10.1371/journal.pone.0128793
- Costello, E. K., Gordon, J. I., Secor, S. M., & Knight, R. (2010). Postprandial remodeling of the gut microbiota in Burmese pythons. *The ISME Journal*, 4, 1375–1385. https://doi.org/10.1038/ismej.2010.71
- DeSantis, T. Z., Hugenholtz, P., Larsen, N., Rojas, M., Brodie, E. L., Keller, K., Huber, T., Dalevi, D., Hu, P., & Andersen, G. L. (2006). Greengenes, a chimera-checked 16S rRNA gene database and workbench compatible with ARB. Applied and Environmental Microbiology, 72, 5069–5072. https://doi.org/10.1128/AEM.03006-05
- Domingo, M. C., Yansouni, C., Gaudreau, C., Lamothe, F., Lévesque, S., Tremblay, C., & Garceau, R. (2015). Cloacibacillus sp, a potential human pathogen associated with bacteremia in Quebec and New Brunswick. Journal of Clinical Microbiology, 53, 3380–3383. https://doi.org/10.1128/JCM.01137-15
- Edgar, R. C. (2013). UPARSE: Highly accurate OTU sequences from microbial amplicon reads. *Nature Methods*, 10, 996. https://doi. org/10.1038/nmeth.2604
- Eigeland, K. A., Lanyon, J. M., Trott, D. J., Ouwerkerk, D., Blanshard, W., Milinovich, G. J., Gulino, L. M., Martinez, E. D., Merson, S. D., & Klieve, A. V. (2012). Bacterial community structure in the hindgut of wild and captive dugongs (*Dugong dugon*). Aquatic Mammals, 38, 402–411. https://doi.org/10.1578/AM.38.4.2012.402
- Faith, D. P. (1992). Conservation evaluation and phylogenetic diversity. *Biological Conservation*, 61, 1–10. https://doi.org/10.1016/0006-3207(92)91201-3
- Ferguson, G. W., Brown, K. L., & DeMarco, V. G. (1982). Selective basis for the evolution of variable egg and hatchling size in some iguanid lizards. *Herpetologica*, 38, 178–188.
- Fischer, J. & Lindenmayer, D. B. (2000). An assessment of the published results of animal relocations. *Biological Conservation*, *96*, 1–11. https://doi.org/10.1016/S0006-3207(00)00048-3

- Fisher, R. N., Niukula, J., Harlow, P. S., Rasalato, S., Chand, R., Thaman, B., Seniloli, E., Vadada, J., Cranwell, S., Brown, J. J., Lovich, K., & Thomas-Moko, N. (2019). Community-based conservation and recovery of native species on Monuriki Island, Fiji. In C. R. Veitch, M. N. Clout, A. R. Martin, J. C. Russell & C. J. West (Eds.), Island invasives: Scaling up to meet the challenge (vol. 62, pp. 552–557). Gland, Switzerland: IUCN Species Survival Commission. https://doi.org/10.2305/IUCN. CH.2019.SSC-OP.62.en
- Fraune, S. & Bosch, T. C. (2010). Why bacteria matter in animal development and evolution. *BioEssays*, 32, 571–580. https://doi.org/10.1002/bies.200900192
- Gibbons, J. R. (1981). The biogeography of *Brachylophus* (Iguanidae) including the description of a new species, *B. vitiensis*, from Fiji. *Journal of Herpetology*, 15, 255–273. https://doi.org/10.2307/1563429
- Gilbert, J. A., Quinn, R. A., Debelius, J., Xu, Z. Z., Morton, J., Garg, N., Jansson, J. K., Dorrestein, P. C., & Knight, R. (2016). Microbiomewide association studies link dynamic microbial consortia to disease. Nature, 535, 94-103. https://doi.org/10.1038/nature18850
- Good, I. J. (1953). The population frequencies of species and the estimation of population parameters. *Biometrika*, 40, 237–264. https://doi.org/10.2307/2333344
- Gruner, E., Pfyffer, G. E., & von Graevenitz, A. (1993). Characterization of *Brevibacterium* spp. from clinical specimens. *Journal of Clinical Microbiology*, 31, 1408–1412. https://doi.org/10.1128/JCM.31.6.1408-1412.1993
- Harlow, P. S., Fisher, M., Tuiwawa, M., Biciloa, P. N., Palmeirim, J. M., Mersai, C., Naidu, S., Naikatini, A., Thaman, B., Niukula, J., & Strand, E. (2007). The decline of the endemic Fijian crested iguana *Brachylophus vitiensis* in the Yasawa and Mamanuca archipelagos, western Fiji. Oryx, 41, 44–50. https://doi.org/10.1017/S003060530 7001639
- Harlow, P. S., Fisher, R. N., & Grant, T. (2012). Brachylophus vitiensis. The IUCN red list of threatened species 2012, eT2965A2791620. https://doi.org/10.2305/IUCN.UK.2012.RLTS.T2965A2791620.en
- Harlow, P. S., Hudson, R., & Alberts, A. (2008). Fijian crested Iguana Brachylophus vitiensis species recovery plan 2008–2012. IUCN Species Survival Commission, Iguana Specialist Group.
- Jaccard, P. (1901). Étude comparative de la distribution florale dans une portion des Alpes et des Jura. Bulletin De La Societe Vaudoise Des Sciences Naturelles, 37, 547–579. https://doi.org/10.5169/seals -266450
- Jiang, H.-Y., Ma, J.-E., Li, J., Zhang, X.-J., Li, L.-M., He, N., Liu, H.-Y., Luo, S.-Y., Wu, Z.-J., Han, R.-C., & Chen, J.-P. (2017). Diets alter the gut microbiome of crocodile lizards. Frontiers in Microbiology, 8, e2073. https://doi.org/10.3389/fmicb.2017.02073
- Jiménez, R. R. & Sommer, S. (2017). The amphibian microbiome: Natural range of variation, pathogenic dysbiosis, and role in conservation. *Biodiversity and Conservation*, 26, 763–786. https://doi.org/10.1007/ s10531-016-1272-x
- Keogh, J. S., Edwards, D. L., Fisher, R. N., & Harlow, P. S. (2008). Molecular and morphological analysis of the critically endangered Fijian iguanas reveals cryptic diversity and a complex biogeographic history. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 363, 3413–3426. https://doi.org/10.1098/rstb.2008.0120
- Kohl, K. D., Brun, A., Magallanes, M., Brinkerhoff, J., Laspiur, A., Acosta, J. C., Caviedes-Vidal, E., & Bordenstein, S. R. (2017). Gut microbial ecology of lizards: Insights into diversity in the wild, effects of captivity, variation across gut regions and transmission. *Molecular Ecology*, 26, 1175–1189. https://doi.org/10.1111/mec.13921
- Kozich, J. J., Westcott, S. L., Baxter, N. T., Highlander, S. K., & Schloss, P. D. (2013). Development of a dual-index sequencing strategy and curation pipeline for analyzing amplicon sequence data on the MiSeq Illumina sequencing platform. Applied and Environmental Microbiology, 79, 5112–5120. https://doi.org/10.1128/AEM.01043-13

- Ley, R. E., Hamady, M., Lozupone, C., Turnbaugh, P. J., Ramey, R. R., Bircher, J. S., Schlegel, M. I, Tucker, T. A, Schrenzel, M. D, Knight, R., & Gordon, J. I. (2008). Evolution of mammals and their gut microbes. *Science*, 320, 1647–1651. https://doi.org/10.1126/science.1155725
- Lindgreen, S. (2012). AdapterRemoval: Easy cleaning of next-generation sequencing reads. BMC Research Notes, 5, 337. https://doi. org/10.1186/1756-0500-5-337
- Lozupone, C. & Knight, R. (2005). UniFrac: A new phylogenetic method for comparing microbial communities. *Applied and Environmental Microbiology*, 71, 8228–8235. https://doi.org/10.1128/AEM.71.12.8228-8235.2005
- Mathews, F., Orros, M., McLaren, G., Gelling, M., & Foster, R. (2005). Keeping fit on the ark: Assessing the suitability of captive-bred animals for release. *Biological Conservation*, 121, 569–577. https://doi.org/10.1016/j.biocon.2004.06.007
- McGowan, P. J., Traylor-Holzer, K., & Leus, K. (2017). IUCN guidelines for determining when and how ex situ management should be used in species conservation. *Conservation Letters*, 10, 361–366. https://doi.org/10.1111/conl.12285
- McKenzie, V. J., Song, S. J., Delsuc, F., Prest, T. L., Oliverio, A. M., Korpita, T. M., Alexiev, A., Amato, K. R., Metcalf, J. L., Kowalewski, M., Avenant, N. L., Link, A., Di Fiore, A., Seguin-Orlando, A., Feh, C., Orlando, L., Mendelson, J. R., Sanders, J., & Knight, R. (2017). The effects of captivity on the mammalian gut microbiome. *Integrative and Comparative Biology*, 57, 690–704. https://doi.org/10.1093/icb/icx090
- Nakayama, T., Ohkusu, K., & Tateda, K. (2009). The novel human pathogen *Nesterenkonia* sp causes persistent asymptomatic bacteremia in an immunocompetent host. *Infectious Diseases Society of America* 2009 Annual Meeting.
- Oksanen, J., Blanchet, F. G., Kindt, R., Legendre, P., Minchin, P. R., O'hara, R. B., Simpson, G. L., Solymos, P., Stevens, H., & Wagner, H. (2016). Vegan: Community Ecology Package. R Package Version v2.3_4. URL. https://CRAN.R-project.org/package=vegan
- Pérez-Buitrago, N., García, M. A., Sabat, A., Delgado, J., Álvarez, A., McMillan, O., & Funk, S. M. (2008). Do headstart programs work? Survival and body condition in headstarted Mona Island iguanas *Cyclura cornuta stejnegeri. Endangered Species Research*, 6, 55-65. https://doi.org/10.3354/esr00130
- R Core Team. (2013). R: A language and environment for statistical computing R Foundation for Statistical Computing. Austria. https://wwwR-projectorg/
- Redford, K. H., Amato, G., Baillie, J., Beldomenico, P., Bennett, E. L., Clum, N., Cook, R., Fonseca, G., Hedges, S., Launay, F., Lieberman, S., Mace, G. M., Murayama, A., Putnam, A., Robinson, J. G., Rosenbaum, H., Sanderson, E. W., Stuart, S. N., Thomas, P., & Thorbjarnarson, J. (2011). What does it mean to successfully conserve a (vertebrate) species? *BioScience*, 61, 39–48. https://doi.org/10.1525/bio.2011.61.1.9
- Redford, K. H., Segre, J. A., Salafsky, N., del Rio, C. M., & McAloose, D. (2012). Conservation and the microbiome. *Conservation Biology*, 26, 195–197. https://doi.org/10.1111/j.1523-1739.2012.01829.x
- Ren, T., Kahrl, A. F., Wu, M., & Cox, R. M. (2016). Does adaptive radiation of a host lineage promote ecological diversity of its bacterial communities? A test using gut microbiota of *Anolis* lizards. *Molecular Ecology*, 25, 4793–4804. https://doi.org/10.1111/mec.13796
- Schubert, M., Lindgreen, S., & Orlando, L. (2016). AdapterRemoval v2: Rapid adapter trimming, identification, and read merging. *BMC Research Notes*, 9, 88. https://doi.org/10.1186/s13104-016-1900-2
- Shannon, C. E. (1948). A mathematical theory of communication. *Bell System Technical Journal*, 27, 379–423. https://doi.org/10.1002/j.1538-7305.1948.tb01338.x
- Stanley, D., Geier, M. S., Chen, H., Hughes, R. J., & Moore, R. J. (2015). Comparison of fecal and cecal microbiotas reveals qualitative similarities but quantitative differences. *BMC Microbiology*, 15, 51. https://doi.org/10.1186/s12866-015-0388-6

- Tamai, K., Akashi, Y., Yoshimoto, Y., Yaguchi, Y., Takeuchi, Y., Shiigai, M., Igarashi, J., Hirose, Y., Suzuki, H., & Ohkusu, K. (2018). First case of a bloodstream infection caused by the genus Brachybacterium. Journal of Infection and Chemotherapy, 24, 998-1003. https://doi. org/10.1016/j.jiac.2018.06.005
- Tear, T. H., Scott, J. M., Hayward, P. H., & Griffith, B. (1993). Status and prospects for success of the endangered species act: A look at recovery plans. Science, 262, 976-978. https://doi.org/10.1126/scien ce.262.5136.976
- Titécat, M., Wallet, F., Vieillard, M. H., Courcol, R. J., & Lo, C. (2014). Ruminococcus gnavus: An unusual pathogen in septic arthritis. Anaerobe, 30, 159-160. https://doi.org/10.1016/j.anaer obe.2014.10.001
- Wan, X., Ruan, R., McLaughlin, R. W., Hao, Y., Zheng, J., & Wang, D. (2016). Fecal bacterial composition of the endangered Yangtze finless porpoises living under captive and semi-natural conditions. Current Microbiology, 72, 306-314. https://doi.org/10.1007/s0028 4-015-0954-z
- Wasimuddin, XX., Menke, S., Melzheimer, J., Thalwitzer, , Heinrich, S., Wachter, B., & Sommer, S. (2017). Gut microbiomes of free-ranging and captive Namibian cheetahs: Diversity, putative functions and occurrence of potential pathogens. Molecular Ecology, 26, 5515-5527. https://doi.org/10.1111/mec.14278
- West, A. G., Waite, D. W., Deines, P., Bourne, D. G., Digby, A., McKenzie, V. J., & Taylor, M. W. (2019). The microbiome in threatened species conservation. Biological Conservation, 229, 85-98. https://doi. org/10.1016/j.biocon.2018.11.016

- Wexler, H. M. (2007). Bacteroides: The good, the bad, and the nitty-gritty. Clinical Microbiology Reviews, 20, 593-621. https://doi.org/10.1128/ CMR.00008-07
- Xie, Y., Xia, P. U., Wang, H., Yu, H., Giesy, J. P., Zhang, Y., Mora, M. A., & Zhang, X. (2016). Effects of captivity and artificial breeding on microbiota in feces of the red-crowned crane (Grus japonensis). Scientific Reports, 6, 33350. https://doi.org/10.1038/srep33350
- Zhu, L., Wu, Q., Dai, J., Zhang, S., & Wei, F. (2011). Evidence of cellulose metabolism by the giant panda gut microbiome. Proceedings of the National Academy of Sciences, 108, 17714-17719. https://doi. org/10.1073/pnas.1017956108

SUPPORTING INFORMATION

Additional supporting information may be found online in the Supporting Information section.

How to cite this article: Eliades SJ, Brown JC, Colston TJ, et al. Gut microbial ecology of the Critically Endangered Fijian crested iguana (Brachylophus vitiensis): Effects of captivity status and host reintroduction on endogenous microbiomes. Ecol Evol. 2021;11:4731-4743. https://doi.org/10.1002/ ece3.7373

Managed Care Facilities for Iguanas; Review of Various Facilities with Specific Examples for Conservation of Critically Endangered Fijian Iguanas (*Brachylophus spp.*)

¹Kim Gray (previously Lovich), ²Steve Anstey ¹San Diego Zoo Wildlife Alliance, San Diego, USA ² Ahura Resorts, Fiji

Iguana species are kept throughout the world for various reasons, from pets in people's homes to specific in situ head start facilities, to the gardens of resorts. The Fijian Banded and Crested Iguanas are similarly maintained by various stakeholders within Fiji. Here we will review the various facilities that exist where captive iguanas are kept in managed care. We will review the focus of these facilities and discuss other stakeholders' vested interest in displaying this species as well as the need for standardized husbandry and care guidelines. This discussion is intended to provide the audience with background information for further review as part of our planned break out session where we will have the opportunity to work together on the Brachylophus recovery plan for the region.



Global Re-introduction Perspectives: 2016

Case-studies from around the globe Edited by Pritpal S. Soorae













Global Re-introduction Perspectives: 2016

Case-studies from around the globe

Edited by Pritpal S. Soorae



The designation of geographical entities in this book, and the presentation of the material, do not imply the expression of any opinion whatsoever on the part of IUCN or any of the funding organizations concerning the legal status of any country, territory, or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

The views expressed in this publication do not necessarily reflect those of IUCN.

Published by: IUCN/SSC Re-introduction Specialist Group & Environment Agency-ABU

DHABI

Copyright: © 2016 International Union for the Conservation of Nature and Natural

Resources

Reproduction of this publication for educational or other non-commercial purposes is authorized without prior written permission from the copyright

holder provided the source is fully acknowledged.

Reproduction of this publication for resale or other commercial purposes is

prohibited without prior written permission of the copyright holder.

Citation: Soorae, P. S. (ed.) (2016). Global Re-introduction Perspectives: 2016.

Case-studies from around the globe. Gland, Switzerland: IUCN/SSC Reintroduction Specialist Group and Abu Dhabi, UAE: Environment Agency-

Abu Dhabi. xiv + 276 pp.

ISBN: 978-2-8317-1761-6

Cover photo: Clockwise starting from top-left:

i. Bolson's tortoise, USA @ Turner Endangered Species Fund

ii. Wetapunga, New Zealand @ Richard Gibson

iii. Morelos minnow, Mexico @ Topiltzin Contreras-MacBeath

iv. Silene cambessedesii, Spain @ Emilio Laguna

v. Tasmanian Devil, Maria Island, Tasmania @Simon DeSalis

vi. Agile frog, Jersey @ States of Jersey Department of the Environment

Cover design

& layout by: Pritpal S. Soorae, IUCN/SSC Re-introduction Specialist Group

Produced by: IUCN/SSC Re-introduction Specialist Group & Environment Agency-ABU

DHABI

Download at: www.iucnsscrsg.org

IUCN Species Survival Commission (SSC)

The SSC is a science-based network of close to 8,000 volunteer experts from almost every country of the world, all working together towards achieving the vision of, "A world that values and conserves present levels of biodiversity."

Environment Agency - ABU DHABI (EAD)

The EAD was established in 1996 to preserve Abu Dhabi's natural heritage, protect our future, and raise awareness about environmental issues. EAD is Abu Dhabi's environmental regulator and advises the government on environmental policy. It works to create sustainable communities, and protect and conserve wildlife and natural resources. EAD also works to ensure integrated and sustainable water resources management, and to ensure clean air and minimize climate change and its impacts.

Turner Endangered Species Fund (TESF)

The TESF was established in 1997 to conserve biological diversity by ensuring the persistence of imperiled species and their habitats with an emphasis on private land. Our activities range from single species conservation actions to restoration of ecological communities and functional ecosystems. We are unique in our efforts to bring the role of private lands to the forefront of ecological conservation. We aim to use the best science to effectively conserve biodiversity and disseminate reliable scientific and policy information. We are determined to establish a new level of effectiveness for private-public efforts to redress the extinction crisis.

Calgary Zoo (CZ)

The Calgary Zoo's vision is to be Canada's leader in wildlife conservation. In close alignment with IUCN, this vision is pursued through a mix of Canadian and global conservation initiatives regarding two strategic pillars: 1) Conservation Translocations, such as re-introductions, to avert species extinction and strengthen ecosystem function; and 2) Community Conservation to bring mutual and sustainable benefits for local livelihoods and biodiversity. The Calgary Zoo engages in collaborative partnerships around the world to develop the innovation and application of science-based solutions to achieve long-term benefits for conservation.

Denver Zoological Foundation (DZF)

The DZF is a non-profit organization whose mission is to "secure a better world for animals through human understanding." DZF oversees Denver Zoo and conducts conservation education and biological conservation programs at the zoo, in the greater Denver area, and worldwide. Over 3,800 animals representing more than 650 species call Denver Zoo home. A member of the World Association of Zoos and Aquariums (WAZA), Denver Zoo's accreditation from the Association of Zoos and Aquariums (AZA) assures the highest standards of animal care. A leader in environmental action, Denver Zoo was the first U.S. zoo to receive ISO 14001 sustainability certification for its entire facility and operations and in 2011 was voted the greenest zoo in the country. The ISO 14001 international certification ensures the zoo attains the highest environmental standards. Since 1994, Denver Zoo has participated in well over 550 conservation projects in 55 countries. In 2011 alone, Denver Zoo participated in 70 projects in 20 countries and spent well over US\$ 1 million to support of wildlife conservation in the field.

Re-introduction Specialist Group (RSG)

The RSG is a network of specialists whose aim is to combat the ongoing and massive loss of biodiversity by using re-introductions as a responsible tool for the management and restoration of biodiversity. It does this by actively developing and promoting sound interdisciplinary scientific information, policy, and practice to establish viable wild populations in their natural habitats.

CONTENTS

| Foreword from Shaikha Al Dhaheri, EAD | |
|---|--------|
| Foreword from Axel Moehrenschlager, RSG | . viii |
| Foreword from Mike Philips, TESF | |
| Foreword from Richard Reading, University of Denver | . X |
| Foreword from Simon Stuart, SSC | . xi |
| Overview and analysis of re-introduction case-studies | . xii |
| Invertebrates | . 1 |
| Re-introduction of Arcopora corals, India | . 1 |
| Restoration of short-haired bumblebee to UK | . 5 |
| Restoration of Kumamoto oyster in China | . 10 |
| Establishing the wetapunga in New Zealand | . 14 |
| Fish | . 20 |
| Re-introduction of kokopu in two small streams, New Zealand | 20 |
| Re-introduction of the Morelos minnow, Mexico | 25 |
| Re-introduction of kokopu to Nukumea stream, New Zealand | . 30 |
| Amphibians | . 35 |
| Re-introduction of the northern corroboree frog in Australia | 35 |
| Re-introduction of the agile frog on Jersey, Channel Islands | 40 |
| Re-introduction of the northern leopard frog in Canada | 45 |
| Reptiles | . 51 |
| Conservation introduction of the Philippine crocodile | . 51 |
| Restoration of the Bolson tortoise in the SW USA | . 56 |
| Reinforcement of the European pond turtle in Italy | . 62 |
| Re-introduction of the tuatara within its historic range in New Zealand | 67 |
| Head-starting hawksbill turtles in Japan | . 72 |
| Re-introduction of the crested iguana in Fiji | . 76 |
| Birds | . 82 |
| Re-introduction of the black-winged starling in Indonesia | . 82 |
| Andean conservation program in Argentina | |
| California condor program in Arizona and Utah, USA | 92 |
| Re-introduction of the common crane in the UK | |
| Re-introduction of the oriental pied hornbill in Singapore | . 102 |

| Re-introduction of the vinaceous-breasted amazon in Brazil | 106 |
|--|-----|
| Translocating the Nihoa millerbird in Hawaii | 111 |
| Release protocols for releasing the bush stone-curlew in Australia | 117 |
| Re-introducing aplomado falcons in New Mexico, USA | 123 |
| Re-introduction of the cirl bunting in the UK | 127 |
| Restoring red-cockaded woodpeckers in Florida, USA | 132 |
| Releases of the regent honeyeater in Victoria, Australia | 137 |
| Re-introduction of the Cocos buff-banded rail on the Cocos | |
| Islands, Australia | 142 |
| Mammals | 147 |
| Trial release of Eurasian beaver in Scotland, UK | 147 |
| Re-introduction of African lions in Zambia and Zimbabwe | |
| Swift fox re-introduction in South Dakota, USA | 157 |
| Antillean manatee release in Brazil | 162 |
| Conservation introduction of Tasmanian devils | 166 |
| Re-introduction of eastern bettong in Australia | 172 |
| Supplementation of swamp deer in Assam, India | 178 |
| Red-squirrel re-introduction techniques in Europe | 182 |
| Re-introduction of the Mexican wolf in Arizona and New Mexico, USA | 190 |
| Re-introduction of the Columbia Basin pygmy rabbit, USA | 195 |
| Re-introduction of the Persian fallow deer in Israel | 200 |
| Re-introduction of the giant anteater in Argentina | 205 |
| Eurasian beaver re-introduction in Hungary | 211 |
| Releasing confiscated macaques in Morocco | 216 |
| Re-introduction of pampas deer in Argentina | 221 |
| Trial re-introduction of western quoll in South Australia | 228 |
| Plants | 233 |
| Re-introduction of mangroves in the UAE | 233 |
| Re-introduction of four leaf clover in Italy | 238 |
| Moris pink re-introduction in Italy | 242 |
| Reinforcement of chalky wattle in South Australia | 246 |
| Translocation of Narcissus cavanillesii in Portugal | 252 |
| Setting up neopopulations of sea lavender in Spain | 257 |
| Creating new populations of Silene cambessedesii in Spain | 262 |
| Translocation of the Cartagena rockrose in Spain | 267 |
| Re-introduction of a rare North American lily | 272 |

Captive breeding and re-introduction of the Monuriki Island Crested Iguana in Fiji

Ramesh Chand¹, Jone Niukula², Joeli Vadada³, Robert Fisher⁴, Kim Lovich⁵, Stesha Pasachnik⁶, Sia Rasalato⁷, Baravi Thaman⁸, Elenoa Seniloli⁹, Tuverea Tuamoto¹⁰, Tui Yanuya¹¹ & Peter Harlow¹²

- ¹ Director and Endangered Species Breeding Manager, Kula Eco Park, P.O. Box 823, Sigatoka Fiji kulapark@fijiwild.com.
- ² National Trust of Fiji Islands, 3 Ma'afu St, Suva, Fiji <u>iniukula@nationaltrust.org.fj</u>
 ³ National Trust of Fiji Islands, 3 Ma'afu St, Suva, Fiji
 - ⁴ U.S. Geological Survey, Western Ecological Research Center, 4165 Spruance Road, San Diego, CA, USA rfisher@usgs.gov
 - ⁵ San Diego Zoo Global, P.O. Box 120551, San Diego, CA, USA klovich@sandiegozoo.org
- ⁶ Institute for Conservation Research, San Diego Zoo, 15600 San Pasqual Valley Rd., Escondido, 92027, USA <u>sapasachnik@gmail.com</u>
 - ⁷ Birdlife Pacific, 10 MacGregor Road, Suva, Fiji <u>sialesi.rasalato@birdlife.org</u>

 ⁸ National Trust of Fiji Islands, 3 Ma'afu St, Suva, Fiji <u>baravi5@yahoo.com</u>
 - 9 Birdlife Pacific, 10 MacGregor Road, Suva, Fiji seniloli@birdlifepacific.org.fj
 10 Hamilton Beattie Street, Suva, Fiji tuamoto@naturefiji.org
 - ¹¹ National Trust of Fiji Islands, 3 Ma'afu St, Suva, Fiji
 - ¹² Manager, Herpetofauna Division, Taronga Zoo, P.O. Box 20, Mosman, NSW, 2088, Australia pharlow@zoo.nsw.gov.au

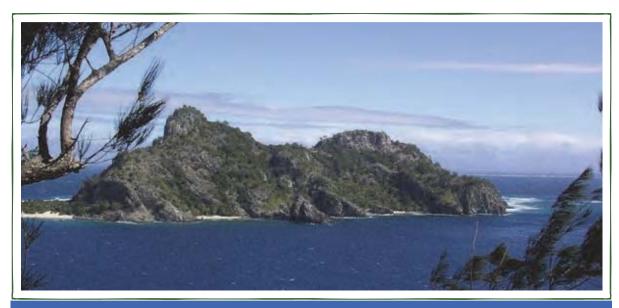
Introduction

The Fijian crested iguana (*Brachylophus vitiensis*) is an arboreal, herbivorous lizard found on only a small number of islands with native dry or littoral forest in western Fiji. Its population is secure only on the sanctuary island of Yadua Taba, where >12,000 individuals exist; this equates to over 200 individuals/ha in the best forest habitat. All other island populations appear to be low and declining (mostly <100 individuals), and survive on communally owned land which is mostly outside the control of central government legislation (Harlow *et al.*, 2007). The forest habitat that is essential for its survival continues to be burnt and cleared for



Monuriki Island crested iguana © Peter Harlow

gardens, coconut plantations and grasslands for goat grazing. In addition, exotic predators, especially mongoose (Herpestes fuscus and H. auropunctatus) and feral cats continue to spread across the Fijian



Monuriki Island release site © Peter Harlow

archipelego, with devastating effects on ground nesting birds and many reptile species. The Fijian crested iguana is listed as Critically Endangered by the IUCN (2014), is on CITES Appendix I, is listed by the U.S. Fish and Wildlife Service as endangered and is protected in Fiji under the Endangered and Protected Species Act (2002).

Goals

- Goal 1: Halt the potential extirpation of the Monuriki Island crested iguana in Fiji.
- Goal 2: Successfully negotiate with the land owning clan of Monuriki Island to remove goats and/or capture and move the remaining iguanas into a captivebreeding facility.
- Goal 3: Capture, hold and breed a minimum of 10 pairs of Monuriki iguanas to maximize maintenance of genetic diversity.
- <u>Goal 4</u>: After goat removal, monitor vegetation recovery prior to releasing captive-bred iguanas.
- Goal 5: Replace the land owning clan's lost income from goats with funding from "Fijian iguana encounter" ranger-led, tourist visits to the island. Monuriki has the only wild Fijian iguana population that can be visited on a day trip from both a popular tourist region and a major Fijian city (Nadi).

Success Indicators

- <u>Indicator 1</u>: Obtaining approval from land owning clan to remove goats and/or capture and move remaining iguanas into captive-breeding.
- <u>Indicator 2</u>: Successful capture, captive husbandry and breeding of Monuriki crested iguanas to ensure maintenance of genetic diversity.
- Indicator 3: Successful removal of all goats from Monuriki.
- <u>Indicator 4</u>: Sufficient natural vegetation recovery on Monuriki after goat removal to eventually sustain a population of >1,000 crested iguanas.

Reptiles

 <u>Indicator 5</u>: Survival and growth of captive bred iguanas for 3 months postrelease.

Project Summary

Feasibility: The crested iguana population on the small and uninhabited Fijian island of Monuriki (40.4 ha, 216 m a.s.l.) has been low and declining for years. In the 1980s there was still 'a high density of iguanas' on Monuriki (Gibbons, 1984), however less than 20 years later a survey suggested a total population of less than 100 iguanas remained (Harlow & Biciloa, 2001). Monuriki has no exotic predators, but had been used for goat grazing since at least the 1960s, and forest fires were a common event over the subsequent decades. Monuriki is a rugged and beautiful island, and has been utilized previously for filming movies such as "Castaway" starring Tom Hanks, and today is a very popular tourist destination with several boats and many people visiting everyday. Before the removal of goats there was a total absence of both ground vegetation and tree seedlings, and the remaining vegetation was dominated by just a few tree species, most of which were inedible to iguanas (Harlow & Biciloa, 2001). Monuriki Island crested iguanas are genetically distinct from all other crested iguana populations (Keogh et al., 2008), and the 2008 Species Recovery Plan (Harlow et al., 2008) prioritized Monuriki as the single most important site for immediate conservation action.



Iguana habitat on Monuriki Island

© Peter Harlow

In April 2010 a Memorandum of Understanding was agreed to and signed by 1) leaders of the Monuriki Island land-owning clan, the Mataqali Vunaivi, 2) The National Trust of Fiji Islands and 3) Kula Eco Park, Korotoga, Fiji, to remove goats from Monuriki and capture and remove the remaining iguanas for captive-breeding. Monuriki iguanas are on loan to Kula Eco Park, and the agreement is to return them and all their offspring when the vegetation had recovered after goat removal.

Implementation: Between April 2010 and February 2012, 21 crested iguanas were captured on Monuriki Island during nine field trips by National Trust of Fiji staff, and transported to newly established quarantine and captive breeding facilities at Kula Eco Park. Six additional iguanas were seen on these trips, but could not be captured. At Kula Eco Park iguanas

are normally kept singually, however they were paired for 3 - 4 months annually (~December to March) for breeding purposes. Eighteen of these iguanas have now bred, and the total captive pre-release population was 17 wild caught adults, 50 captive bred offspring and 22 fertile eggs. In late 2011 goats and Pacific rats (Rattus exulans) were eradicated from the island by Birdlife International -Fiji Program. Pacific rats are not known to be a predator of Fijian iguanas,



Yanuya school boy and Ramesh Chand release a Monuriki iguana © Nick Felstead

and co-exist on all islands where both occur, and were eradicated from Monuriki because of its importance as a seabird nesting island.

Four wet seasons after goat removal the vegetation of Monuriki has significantly recovered. In mid-May 2015, 32 captive-bred crested iguanas, all implanted with unique PIT tags, were released into four different areas on Monuriki Island. Twenty-six, 2 to 5 year-old iguanas (Snout Vent Length 158 - 210 mm, mass 105 - 350 g) were fitted with small radio transmitters (Holohil BD 2, 1.8 g) prior to release for monitoring purposes.

Post-release monitoring: At 56 days post-release 18 telemetered iguanas were re-sighted - 9 or captured - 9, the captured individuals were measured and weighed, and the transmitters were removed before release. All transmitters are expected to drop off at the next skin shedding event, and indeed we found six transmitters had already been shed by day 56. The recovered transmitters showed no signs of trauma, which might indicate a mortality event. The nine recaptured iguanas had grown slightly in SVL length since release (mean 4.5 mm, range 1 - 11 mm: mean % increase in SVL = 2.4%, range 0 - 6.0%), however they had lost a small amount of body weight (mean 11.4% body weight, range 3.2 - 29.4%).

At release these iguanas looked a little 'fat', probably from their excellent captive diet, but by day 56 post-release they looked more like sleek, healthy wild iguanas and their new Body Mass Index matched closely to the five wild iguanas also captured during the post release monitoring. The observation of five wild sub-adult iguanas in one night of survey also serves as an indicator that the population that remained on the island is now recovering, as capture rates during the "harvest" period were less than one iguana per night. Based on GPS data,

Reptiles

these 18 iguanas had moved an average of 41.2 m since release (range 5.1 - 182 m).

Major difficulties faced

- Obtaining sufficient funding for all components of this 5 year project (landowner negotiation, iguana capture, building and staffing a captive breeding center, eradicating goats, vegetation surveys and biosecurity training for landowners).
- Lack of an overall planning team, and poor communications among disparate groups involved in the different aspects of this project.
- Low reproductive output of this iguana species (females lay 3 5 eggs every 2 years).
- No vegetation survey of edible plant species (for iguanas) abundance was undertaken prior to re-introduction.
- No long-term monitoring of the iguana population is planned due to limited resources.

Major lessons learned

- Fully involve landowners in all discussions and throughout the implementation of the project.
- Ensure that there is regular contact between the landowners and representatives of the project team to ensure that any grievances/misgivings can be allayed/addressed before they become a serious impediment to the future success of the project.
- Develop a detailed workplan, identifying the persons responsible for, and a time period required to deliver, each of the individual activities.
- Identify the project manager who has overall responsibility for delivering the project outcome - and has the authority to require individuals to deliver their components, and is responsible for keeping all records, including financial records, which must be available for audit and public scrutiny.
- Flexibility to identify and acquire additional partners and funding as the project progresses.

Success of project

| Highly Successful | Successful | Partially Successful | Failure | |
|-------------------|------------|----------------------|---------|--|
| | $\sqrt{}$ | | | |

Reason(s) for success/failure:

- Landowner support and involvement at all levels made this project a success.
- · Absence of exotic predators on Monuriki.
- Rapid vegetation recovery after goat removal.
- Successful captive-breeding and good record keeping by Kula Eco Park.
- The original goal to replace the land owning clan's lost income after goat removal with village-run, iguana based guided tours of Monuriki has not eventuated. This is a failure, but may still happen in the future.

Reptiles

Acknowledgements

We thank the Mataqali Vunaivi for their support and assistance throughout this project. The many facets of this project were supported by a Critical Ecosystems Partnership Fund grant to the National Trust of Fiji Islands (land owner negotiations, collecting iguanas and constructing captive-breeding facilities) Kula Eco Park (iguana husbandry and breeding), The International Iguana Foundation, the Dutch Iguana Foundation, Durrell Zoo, San Diego Zoo and Taronga Conservation Society Australia (assistance with captive husbandry and re-introduction) and a David and Lucile Packard Foundation grant to Birdlife International - Fiji Program (for goat and rat eradication).

References

Gibbons, J. (1984) Iguanas of the South Pacific. Oryx 18 (2):82-91.

Harlow, P.S. & Biciloa, P.N. (2001) Abundance of the Fijian crested iguana (*Brachylophus vitiensis*) on two islands. Biological Conservation. 98: 223-231.

Harlow, P.S, Fisher, M., Tuiwawa, M., Biciloa, P.N., Palmeirim, J., Mersai, C., Naidu, S., Naikatini, A., Thaman, B., Niukula, J. & Strand, E. (2007) The decline of the endemic Fijian crested iguana *Brachylophus vitiensis* in the Yasawa and Mamanuca archipelagos, western Fiji. Oryx, 41(1): 44-50.

Harlow, P.S., Hudson, R. & Alberts, A. (2008) Fijian Crested Iguana *Brachylophus vitiensis* Species Recovery Plan 2008-2012. IUCN Species Survival Commission, Iguana Specialist Group. Pp 26. http://www.iucn-isg.org/publications/actions-plans/

Keogh, J. S., Edwards, D. L., Fisher, R. N. & Harlow, P.S. (2008) Molecular and morphological analysis of the critically endangered Fijian iguanas reveals cryptic diversity and a complex biogeographic history. Philosophical Transactions of the Royal Society, Series B. Vol. 363 (1508): 3413-3426.



INTERNATIONAL UNION FOR CONSERVATION OF NATURE

WORLD HEADQUARTERS Rue Mauverney 28 1196 Gland, Switzerland Tel +41 22 999 0000 Fax +41 22 999 0002 www.iucn.org









San Diego Zoo Global Aids Critically Endangered Jamaican Iguana

September 01, 2016

Twenty Years of Headstarting Program Boosts Survival of Species in the Wild

The population of the critically endangered Jamaican iguana is on the rise, thanks in part to the efforts of San Diego Zoo Global and the Fort Worth Zoo. Earlier this year, Tandora Grant, a scientist at the San Diego Zoo Institute for Conservation Research, co-led the health checks of Jamaican iguanas that were headstarted in managed care at the Hope Zoo in Kingston, Jamaica. The health checks determined that 37 of the 232 Jamaican iguanas at the Hope Zoo were healthy and large enough to be released back into their native habitat in the Hellshire Hills, on the south central coast of the island. This year's health screen and release was assisted by returning volunteers from the Audubon Zoo.

The release, which took place in March 2016—20 years after the first release—marks a milestone for the Jamaican Iguana Recovery Group, as the number of animals returned to their native habitat has passed the benchmark of 300 and now totals 315. The Recovery Group is a coalition of local and international collaborators, currently led by the Jamaican government's National Environment and Planning Agency, and includes the field component leads from the University of the West Indies.

The Jamaican iguana population experienced a drastic decline in the past century, due to habitat destruction and predation by free-ranging non-native cats, dogs, pigs and particularly mongooses. The mongooses and cats attack nearly all hatchling and juvenile iguanas, and there are ongoing efforts to trap these predators to protect the now-recovering Jamaican iguana population.

The headstarting program collects iguana hatchlings from the wild as they emerge from their nests, and cares for the animals until they are large enough to defend themselves from most of the introduced predators in their native habitat. Typically, the iguanas released are between 5 and 8 years old. The population is now increasing—measured by the number of annual hatchlings counted and an eightfold increase in the number of nesting female Jamaican iguanas observed, compared to the first survey of the species in 1991. Before the

Jamaican iguana's rediscovery in 1990, it was thought to have been extinct, since the last confirmed observation had been in the mid-1940s.

An off-island breeding population of Jamaican iguanas is cooperatively managed by members of the Association of Zoos and Aquariums' (AZA) Species Survival Plan program, as an assurance against a catastrophe in the iguana's home. Member zoos contribute essential funds, staff hours and expertise for the recovery program, as well as raising awareness for the iguana, its unique and threatened habitat, and the role it plays in the health of the forest. AZA zoos and wildlife conservation organizations have directly contributed more than \$1 million toward the recovery efforts in Jamaica since the iguana's rediscovery.

The first hatching of a Jamaican iguana at the San Diego Zoo Institute for Conservation Research occurred Aug. 30, 2013 at the Kenneth and Anne Griffin Reptile Conservation Center, an off-display breeding facility at the San Diego Zoo Safari Park. The female, named Fay, is a second-generation captive-bred animal. His parents hatched in the first successful breeding of the species at the Indianapolis Zoo, in 2006.

In 2008, our Caribbean rock iguana breeding program moved to the newly constructed Griffin Reptile Conservation Center at the San Diego Zoo Safari Park. The \$600,000, 3,500-square foot facility was funded by a matching donation from Kenneth C. and Anne D. Griffin. This gift enabled construction of a dedicated center for propagation and research of rock iguanas, considered the world's most endangered lizards. It holds 20 adults and up to 20 hatchlings and juveniles of four iguana species, including the Grand Cayman blue iguana, Jamaican iguana, Anegada iguana, and Cuban iguana. The facility is equipped with heated enclosures that maintain high humidity, and skylights and windows constructed of ultraviolet light-transmitting materials. Enclosures are joined via sliding doors for separating and pairing animals, with separate outdoor enclosures. Each indoor/outdoor enclosure is planted with native Caribbean plants and filled with three feet of soil for burrow construction and nesting. Since its construction, it has become the first facility to reproduce the three most endangered lizards in the world. We have completed projects on egg incubation, hormone-behavior interactions, and stable isotope diet studies. Additional research on nesting behavior, salivary hormones, and sperm cryopreservation and artificial insemination are planned.

IIF Funding Report Template

Sections 1-11 are required for the IIF grant report. Sections 1-8 and 12 (optional) will be posted on the IIF Website (marked WEB) and should total 1,500 words max. Word limits per section are suggestions and may differ as long as the total is less than 1,500. Sections 9-11 (marked IIF Board) will only be shared with the IIF board and not the general public.

Section 13 is a great opportunity to discuss additional details from your work and will be included in the Taxon Reports for the ISG Newsletter.

- 1) WEB: Fijian Iguana conservation through development of a new ranger program for Macuata Island and cross training of rangers on Monuriki and Yadua Taba Islands
- 2) WEB: Kim Lovich, Robert Fisher, Jone Niukula, Nunia Thomas
- 3) *WEB*: **January 2016 February 2017**
- 4) WEB: **Photos** Include 4-8 full resolution photos: *a minimum of* 2 photos of species and 2 of researchers in action. (Some will be included in the report, others in the Web Gallery). Include photographer credit and a short caption for each photo. Do not merge photos together as a collage.



Cross training of Rangers on the downloading and processing of photos taken by the remote cameras that are deployed on the islands to determine amounts and types of trespass. Photo by Robert Fisher.



Cross training of Rangers on the use and attachment of the remote cameras that are deployed on the islands to determine amounts and types of trespass. Photo by Kim Lovich.



In situ iguana on Macuata Island from March 2016 with chew marks on the crest from rats. Removal of rats from Macuata Island is a priority and the Ranger will be heavily involved in this project. Photo credited to Robert Fisher



Fire in August 2015 on Macuata Island started at the beach facing the mainland by villagers having picnic lunch, it burned uncontrolled. Edge of forest and dead trees are obvious at edge of burn. Photo by Nunia Thomas.



Striking pattern of a Macuata Iguana from March 2016. This iguana was detected during our post-cyclone surveys. Photo by Robert Fisher.

5) WEB: Overview and Objectives of Project — Provide a brief overview of the project, its objectives/project components (200 words max).

Fijian iguanas (*Brachylophus sp.*) remain in fragmented forest patches with often isolation on remote islands. This relict distribution with little or no protected land can lead to continued habitat loss and degradation in addition to invasive species spread and illegal collecting. This project is to create a community of Rangers within Fiji that are tasked with protecting the endemic iguanas. Since the 1980's there has been a Ranger program on Yadua Taba Island protecting that species of iguana, and this program has been successfully run by the National Trust of Fiji. With funding from Disney Conservation Fund and the IIF, in 2016 we are expanding that program to include both Monuriki and Macuata Islands. All three Rangers would receive the same training and tools for conducting their work. This would include deploying remote triggered camera stations so that the types and amount of trespass and potential poaching can be identified and then interdiction can be optimized. They would also be involved in education outreach with school and village programs about the protection of the iguanas and the islands they occupy. As Macuata Island is privately owned, all access should be closely controlled but traditionally has not been.

6) WEB: Outcomes — Describe the outcomes by <u>numbered</u> objective/project component, including a basic description of methods pertaining to each objective (600 words).

This project is ongoing and will not be completed until early in 2017, per our agreement. Below we just update the work to date and some next steps.

- 1. The first discussion of hiring a Ranger took place in August 2015 when Nunia Thomas (NatureFiji) identified Varayame ("Abraham") Tavualevu from Navunitogoloa Village as the potential person. He had previous experience working with the University of South Pacific when they first investigated the occurrence of iguanas on the island about 10 years ago. He helped with putting out the fire started by picnickers on the island in August. Discussion then took place with the Island's owner about the possibility of having a Ranger employed that was overseeing island activities. These discussions all went well enough to submit the proposal to IIF for funding this position which was received in December of 2015.
- 2.January 2016 Fisher attended several meetings in Fiji to sort out Ranger logistics for both Monuriki (funded by Disney) and Macuata (funded by IIF). With the National Trust of Fiji and NatureFiji a supervisory infrastructure was developed to oversee the elements of these Ranger programs. In March of 2016 the team first came together for initial Education outreach training and Ranger training. This week long training with all three Rangers and several Educators within Fiji allowed everyone to develop a sense of the program and work was completed on both Monuriki and Macuata Islands on that trip. These site visits focused on the priority issues, such as ecotourism on Monuriki and illegal fires and trespassing on Macuata Island. Also during these visits we conducted post cyclone assessments, as Tropical Cyclone Winston had come through both islands in February, just 5 weeks earlier. This was the second largest cyclone to ever make landfall in the southern hemisphere, and the eye passed right over Macuata Island. These post assessments were critical to understanding how the iguanas fared after the events, and for the most part the leaves were removed from the trees during the storm and on Macuata, many of the tops of the trees were missing. We found iguanas were doing extremely well on both islands, as there was a lot of new growth when we arrived.
- 3.June 2016 we continued training and everyone received their equipment and camera infrastructure. We deployed the cameras on the three islands, and conducted training on the photo downloading and processing. We programmed a special interface for the Rangers to use for data entry and analysis on their laptops. We collected preliminary datasets and worked with them on the processing. To date this program is seeming to be very successful. When we arrive in Oct 28 to Fiji we will revisit the cameras and continue to determine how well the process is working.
- 4.No fires have taken place on Macuata since we initiated the Ranger program. Abraham was doing a great job of informing people about the rules for the place and taking his job very seriously.
- 7) *WEB*: **Impact** Describe the conservation impact by objective/projective component (300 words max).
- Initiating these Ranger programs and Education programs on Macuata and Monuriki Islands are building a lot of local excitement for iguana conservation. There is an increased buy-in by the National Trust, as their only responsibility is for Yadua Taba and taking on these additional islands puts pressure on their existing programs, but they see the short and

long term benefits of this expanded iguana conservation network. Additionally Rangers at Sigatoka Sand Dunes, and other sites are helping form the Education and training programs of work, and serve as peer groups for the new iguana Rangers. Having the Rangers named and the continued training programs gives a sense of conservation on these two islands that was lacking before, as having a responsible party that everyone looks to really makes a difference. Having the imagery where we can actually start to quantify access onto these islands is very important and once its analyzed we can really focus on the groups that are out of compliance.

8) WEB: Future — Describe any future directions for yourself or what is needed for the project (200 words max).

Unfortunately Abraham disappeared on August 31 while fishing not far from Macuata Island (http://www.fijitimes.com/story.aspx?id=372250) and we will be presenting something to his family following the IUCN ISG Meeting in Fiji. We are working on identifying another potential Ranger to continue the work and to start training on the camera program. This was quite a surprise and everyone is very upset about these circumstances. The village and the Island owner are both very excited about the Ranger program and we plan to continue it into the future and to work towards sustainability.

9) IIF Board: 10/3/2016

10) IIF Board: Describe deviations from proposal with justification/lessons learned (200 words).

We had no deviations from the proposal. We were able to identify and hire a proper Ranger for the Macuata Island program. We conducted two training programs and established our camera set up to determine levels of trespass. We have not had another fire on the island in a year. We were able to bring in additional match funding, and were able to do significant training with the Fijian partners in addition to the Rangers.

11) IIF Board: **Budget** — Use original budget form.

- Add 1 column for deviations.
- Add 1 column for funds from other sources [list by name in narrative].
- Add 1 row for remaining funding [specify if funds will be returned or propose options for how they may be applied to the project].

Work is still continuing so no budget attached. If needed we can amend and add budget spending to date. No significant deviations. Some additional match from National Trust, USGS and San Diego Zoo Global. When project completed then entire budget and deviations will be included.

12) WEB: **Optional** — Include an interesting or compelling story (personal story). Incorporate anecdotes within any of the WEB sections above.

We released 32 captive bred iguanas on Monuriki Island in May of 2015. We conducted a short term radio-telemetry project to show survivorship over 56 days (Chand et al. 2016). During this grant period we did long term survivorship surveys as part of the Ranger training in March 2016 to see if we could detect the released iguanas. We were a bit concerned because the devastating cyclone was only 5 weeks prior to our visit. We conducted two nights of field work with the Rangers for iguanas on Monuriki and we were unable to

detect and of the captive born and released iguanas. This was quite surprising and concerning. But good news was we were able to find 15 wild caught iguanas, five of which were hatchlings. This was a huge number of individuals for this island, and never previously had we detected hatchlings (1998, 2003), and it seems that this is an important response to the rat and goat eradication that took place in 2012. Overall the wild iguanas are recovering at a fast rate, and really show the success of the eradication effort. For comparison we surveyed Macuata Island the following night and although we detected 21 iguanas, none were hatchlings. Macuata Island still contains many rats and conducting an eradication is something the Ranger would help with in the future.

13) ISG only:

Optional Additional Details — If appropriate, additional detailed outcomes by numbered objective/project component (no word limit) may be included for the ISG Newsletter. Be sure to clearly specify which numbered objective from Section 6 these additional details correspond to.

- Figures, tables, and maps may be included.
- May include sensitive locality information (location details will be edited from ISG Newsletter, but shared with the IIF Board).

References:

Chand, R., Niukula, J., Vadada, J., Fisher, R., Lovich, K., Pasachnik, S., Rasalato, S., Thaman, B., Seniloli, E., Tuamoto, T., Yanuya, T., and P. Harlow. 2016. *Captive breeding and re-introduction of the Monuriki Island Crested Iguana in Fiji*. Pp. 76-81 in Global Re-introduction perspectives:2016. Case studies from around the globe, Soorae, P.S., ed. Re-introduction specialist Group and Abu Dhabi, UAE: Environment Agency-Abu Dhabi. Gland, Switzerland.

| | | | | DNY21- | 38891 | | |
|--|---|-------------------|---------------------------------------|--|---|--|--|
| Egg | | Fiji banded | iguan | a | Endangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Ph | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 30/May/2021 | From Lay | ln | - In | SANDIEGOZ | Death | Out | Out 1/Nov/2021 |
| Sex/Contraception | Undetermined / - | | | Egg Laid Type | Captive Laid | | |
| Hybrid Status | Species Hybrid | | | Birth Location | - | | |
| Enclosure | - | | | Birth Date/Age | 1/Nov/2021 / 0Y,0M,0D at the time of d | isposed | |
| <u>Rearing</u> Dam | - [GAN: DNY14-12619 SANDIEC | SOZ / 9071071 | | Death Number Old Accession N | [0067566/SANDIEGOZ] <u>lumber</u> [DNY21-38887-IA/SANDIEGOZ] | | |
| Sire | [GAN: SFQ13-00210 SANDIEG | | | | | | |
| | | | ε | 3227363 Loc | al ID: 000198 | | |
| Individual | | Fiji banded | iguan | a | Endangered (EN) | | Brachylophus bulabul |
| <u>Date in</u> | Acquisition - Vendor/Local ID | <u>Ph</u> | Ow | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 14/Apr/1975 | Trade From WESTERN/NONE | ln | ln | SANDIEGOZ / 0 | 00198 Death | Out | Out 12/Apr/1982 |
| Sex/Contraception | Female / - | | | Birth Type | Undetermined | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Unknown Location | | 6.1 |
| <u>Enclosure</u> Rearing | - Undetermined | | | Birth Date/Age Death Number | ~ from 1/Jan/1973 to 1/Jan/1975 / 8Y,3 [0017679/SANDIEGOZ] | ואו, ווט at the ti | me or death |
| <u>Dam</u> | [UNK / UNKNOWN] | | | Local ID | [000198/SANDIEGOZ] | | |
| <u>Sire</u> | [UNK / UNKNOWN] | | | Regional Studbo | ok# [64-AZA /SANDIEGOZ] | | |
| | | | 8 | 227364 Loc | al ID: 000199 | | |
| Individual | | Fiji banded | iguan | a | Endangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | <u>Ph</u> | <u>Ow</u> | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 14/Apr/1975 | Trade From WESTERN/NONE | i n | ln | SANDIEGOZ / 0 | 00199 Death | Out | Out 22/May/1980 |
| Sex/Contraception | Female / - | | | Birth Type | Undetermined | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Unknown Location | MOAD AN A | 6.1 |
| Enclosure Rearing | - Undetermined | | | Birth Date/Age Local ID | ~ from 1/Jan/1973 to 1/Jan/1975 / 6Y,4 [000199/SANDIEGOZ] | M,21D at the ti | me of death |
| <u>Dam</u> | [UNK / UNKNOWN] | | | Regional Studbo | | | |
| Sire | [UNK / UNKNOWN] | | | | | | |
| | | | 8 | 3227365 Loc | al ID: 000200 | | |
| Individual | | Fiji banded | iguan | ıa | Endangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | | | | | |
| 21/Oct/1975 | 710 quioinioni 1011 uo 1720 un 12 | <u>Ph</u> | <u>Ow</u> | n Reported By | <u>Disposition - Recipient/Local ID</u> | Phy | Own Date out |
| Z1/UCV 19/5 | Trade From WESTERN/NONE | <u>Ph</u> In | / Ow | n Reported By SANDIEGOZ / 0 | | | Own Date out Out 19/Apr/1979 |
| | | | | | | | |
| Sex/Contraception Hybrid Status | Trade From WESTERN/NONE | | | SANDIEGOZ / 00 Birth Type Birth Location | Death Undetermined Unknown Location | Out | Out 19/Apr/1979 |
| Sex/Contraception Hybrid Status Enclosure | Trade From WESTERN/NONE Male / - Not a hybrid - | | | SANDIEGOZ / 00 Birth Type Birth Location Birth Date/Age | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 | Out | Out 19/Apr/1979 |
| Sex/Contraception Hybrid Status Enclosure Rearing | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined | | | SANDIEGOZ / 00 Birth Type Birth Location | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 [000200/SANDIEGOZ] | Out | Out 19/Apr/1979 |
| 27/Oct/19/5 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Trade From WESTERN/NONE Male / - Not a hybrid - | | | SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Local ID | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 [000200/SANDIEGOZ] | Out | Out 19/Apr/1979 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] | | ln | SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 [000200/SANDIEGOZ] [66-AZA /SANDIEGOZ] | Out | Out 19/Apr/1979 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] | h | In 8 | SANDIEGOZ / 00 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 [000200/SANDIEGOZ] eck # [66-AZA /SANDIEGOZ] al ID: 000236 | Out | Out 19/Apr/1979 me of death |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] | Fiji banded | In 8 | SANDIEGOZ / 00 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 [000200/SANDIEGOZ] Dok # [66-AZA /SANDIEGOZ] al ID: 000236 Endangered (EN) | Out | Out 19/Apr/1979 me of death Brachylophus bulabul |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] | Fiji banded | ln Eiguar | SANDIEGOZ / 00 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 [000200/SANDIEGOZ] Deck # [66-AZA /SANDIEGOZ] | Out iM,18D at the ti Phy | Out 19/Apr/1979 me of death Brachylophus bulabul Own Date out |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE | Fiji banded | In 8 | SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 [000200/SANDIEGOZ] [66-AZA /SANDIEGOZ] | Out iM,18D at the ti Phy | Out 19/Apr/1979 me of death Brachylophus bulabul |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - | Fiji banded | ln Eiguar | SANDIEGOZ / 00 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 [000200/SANDIEGOZ] Deck # [66-AZA /SANDIEGOZ] | Out iM,18D at the ti Phy | Out 19/Apr/1979 me of death Brachylophus bulabul Own Date out |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - | Fiji banded | ln Eiguar | Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 227366 Loc a Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age | Death Undetermined Unknown Location ~ from 1/Jan/1973 to 1/Jan/1975 / 5Y,3 [000200/SANDIEGOZ] [66-AZA /SANDIEGOZ] Ge-AZA /SANDIEGOZ Ge-AZA /SANDIEGOZ | Out M,18D at the ti Phy Out | Out 19/Apr/1979 me of death Brachylophus bulabul Own Date out Out 7/Jan/1986 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined | Fiji banded | ln Eiguar | SANDIEGOZ/0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 227366 Loc aa n Reported By SANDIEGOZ/0 Birth Type Birth Location Birth Date/Age Death Number | Death | Out M,18D at the ti Phy Out | Out 19/Apr/1979 me of death Brachylophus bulabul Own Date out Out 7/Jan/1986 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] | Fiji banded | ln Eiguar | Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 227366 Loc a Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age | Death | Out M,18D at the ti Phy Out | Out 19/Apr/1979 me of death Brachylophus bulabul Own Date out Out 7/Jan/1986 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined | Fiji banded | ln Eiguar | Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 3227366 Loc a n Reported By SANDIEGOZ / 00 Birth Type Birth Location Birth Date/Age Death Number Local ID | Death | Out M,18D at the ti Phy Out | Out 19/Apr/1979 me of death Brachylophus bulabul Own Date out Out 7/Jan/1986 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] | Fiji banded Ph | ln E | SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 2227366 Loc a Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo | Death | Out M,18D at the ti Phy Out | Out 19/Apr/1979 me of death Brachylophus bulabul Own Date out Out 7/Jan/1986 me of death |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] | Fiji banded Ph | E E E E E E E E E E E E E E E E E E E | SANDIEGOZ/0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 8227366 Loc la n Reported By SANDIEGOZ/0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo | Death | Out M,18D at the ti Phy Out OM,6D at the ti | Out 19/Apr/1979 me of death Brachylophus bulabul Own Date out Out 7/Jan/1986 me of death Brachylophus bulabul |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] [UNK / UNKNOWN] | Fiji banded Ph | ln E | SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 8227366 Loc la n Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo 8227367 Loc | Death | Out M,18D at the ti Phy Out OM,6D at the ti | Out 19/Apr/1979 me of death Brachylophus bulabul Out 7/Jan/1986 me of death Brachylophus bulabul Out 7/Jan/1986 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] | Fiji banded Ph | E E E E E E E E E E E E E E E E E E E | SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 3227366 Loc a n Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo 3227367 Loc a n Reported By SANDIEGOZ / 0 | Death | Out M,18D at the ti Phy Out OM,6D at the ti | Out 19/Apr/1979 me of death Brachylophus bulabul Own Date out Out 7/Jan/1986 me of death Brachylophus bulabul |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in Date in Date in Date in Date in Date in Sire | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] [UNK / UNKNOWN] Trade From PUBLIC/NONE Female / - | Fiji banded Ph | ln E | SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 8227366 Loc la n Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo 8227367 Loc la n Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo 8227367 Loc la n Reported By SANDIEGOZ / 0 Birth Type | Death | Out M,18D at the ti Phy Out OM,6D at the ti | Out 19/Apr/1979 me of death Brachylophus bulabul Out 7/Jan/1986 me of death Brachylophus bulabul Out 7/Jan/1986 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Trade From PUBLIC/NONE | Fiji banded Ph | ln E | Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 2227366 Loc Birth Type Birth Location Birth Date/Age Local ID Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 2227367 Loc Birth Type Birth Location Birth Birth Location Birth Bate/Age Birth Location Birth Bate/Age Birth Local ID Birth Type Birth Location Birth Type Birth Location | Death | Phy Out OM,6D at the ti | Out 19/Apr/1979 me of death Brachylophus bulabul Out 7/Jan/1986 me of death Brachylophus bulabul Out 23/Jul/1981 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Trade From PUBLIC/NONE Female / - | Fiji banded Ph | ln E | SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 8227366 Loc la n Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo 8227367 Loc la n Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo 8227367 Loc la n Reported By SANDIEGOZ / 0 Birth Type | Death | Phy Out OM,6D at the ti | Out 19/Apr/1979 me of death Brachylophus bulabul Out 7/Jan/1986 me of death Brachylophus bulabul Out 23/Jul/1981 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 27/Jul/1976 Sex/Contraception Hybrid Status Enclosure Hybrid Status Enclosure | Trade From WESTERN/NONE Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] Acquisition - Vendor/Local ID Purchase PUBLIC/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] [UNK / UNKNOWN] Trade From PUBLIC/NONE Female / - Not a hybrid - Acquisition - Vendor/Local ID Trade From PUBLIC/NONE Female / - Not a hybrid - | Fiji banded Ph | ln E | SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Local ID Regional Studbo 2227366 Loc a n Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo 2227367 Loc a n Reported By SANDIEGOZ / 0 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbo 3227367 Loc Birth Type Birth Location Birth Type Birth Location Birth Type Birth Location Birth Type Birth Location Birth Date/Age | Death | Phy Out OM,6D at the ti | Out 19/Apr/1979 me of death Brachylophus bulabul Out 7/Jan/1986 me of death Brachylophus bulabul Out 23/Jul/1981 |

San Diego Zoo

Printed: 10/Jul/2024

Page 2 of 45

| | 8227368 Local ID: 000238 | | | | | | | | | | | |
|---|-------------------------------|------------|-----|---------------------|---|---------------|--------|-------------|--|--|--|--|
| Individual Fiji banded iguana Endangered (EN) Brachylophus bulabula | | | | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owi | n Reported By | Disposition - Recipient/Local ID | Phy | Ow | n Date out | | | | |
| 27/Jul/1976 | Purchase PUBLIC/NONE | l n | ln | SANDIEGOZ / 000238 | Death | Out | Out | 21/Dec/1986 | | | | |
| Sex/Contraception | Male / - | | | Birth Type | Undetermined | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Unknown Location | | | | | | | |
| Enclosure | - | | | Birth Date/Age | ~ from 1/Jan/1974 to 1/Jan/1976 / 11Y, | 11M,20D at th | e time | of death | | | | |
| Rearing | Undetermined | | | Death Number | [0023375/SANDIEGOZ] | | | | | | | |
| <u>Dam</u> | [UNK / UNKNOWN] | | | Local ID | [000238/SANDIEGOZ] | | | | | | | |
| <u>Sire</u> | [UNK / UNKNOWN] | | | Regional Studbook # | [68-AZA /SANDIEGOZ] | | | | | | | |
| | | | | | | | | | | | | |

| | MIG12-8227402 Local ID: 001191 | | | | | | | | | | | |
|------------------------------------|---------------------------------------|-------|------------|---------------------|---|--|--|--|--|--|--|--|
| Individual | Fiji ban | ded i | juan | a Endar | gered (EN) Brachylophus bulabula | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | <u>Disposition - Recipient/Local ID</u> <u>Phy</u> <u>Own</u> <u>Date out</u> | | | | | | | |
| ~ from 1/May/1973 to 1/Jul/1973 | Purchase | ln | ln | SACRAMNTO / 300171 | Loan Out To SANDIEGOZ/001191 Out - 20/Jul/1977 | | | | | | | |
| 20/Jul/1977 | Loan In From Vendor: SACRAMNTO/300171 | ln | - | SANDIEGOZ / 001191 | Death Out - 14/Jan/1986 | | | | | | | |
| - | - | - | - | SACRAMNTO / 300171 | Death (ownership only) - Out 14/Jan/1986 | | | | | | | |
| Sex/Contraception | Male / - | | | Birth Type | Wild Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Fiji / | | | | | | | |
| Enclosure | - | | | Birth Date/Age | ~ from 1/Jan/1975 to 1/Jan/1977 / 10Y,0M,13D at the time of death | | | | | | | |
| Rearing | Undetermined | | | Death Number | [0022329/SANDIEGOZ] | | | | | | | |
| <u>Dam</u> | [WILD / WILD] | | | Local ID | [001191/SANDIEGOZ] | | | | | | | |
| Sire | [WILD / WILD] | | | Regional Studbook # | [2-AZA /SANDIEGOZ] | | | | | | | |
| | | | | | | | | | | | | |

| | DNY19-33416 Local ID: 1000031 | | | | | | | | | |
|-------------------|---|-----|-----|---------------------|---|------------|----|------------|--|--|
| Individual | Fiji banded iguana Endangered (EN) Brachylophus bulal | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Ow | n Date out | | |
| 14/Jan/2019 | Birth/Hatch | ln | ln | SANDIEGOZ / 1000031 | Loan Out To NORFOLK/222109 | Out | - | 3/Nov/2022 | | |
| 3/Nov/2022 | Loan In From Sender: SANDIEGOZ/1000031 Vendor: SANDIEGOZ/1000031 | ln | - | NORFOLK / 222109 | - | - | - | - | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 14/Jan/2019 / 5Y,5M,26D | | | | | |
| Rearing | - | | | Local ID | [1000031/SANDIEGOZ] | | | | | |
| <u>Dam</u> | [GAN: DNY14-12619 SANDIEGOZ / 90710 | 07] | | Regional Studbook # | [273-AZA /SANDIEGOZ] | | | | | |
| Sire | [GAN: DNY14-12617 SANDIEGOZ / 90710 | 05] | | Transponder | [00-07F5-E943/[-/Hind, Left]/SANDIEGOZ] | | | | | |

| | DNY19-33983 Local ID: 1000366 | | | | | | | | | | | |
|--|---------------------------------|---------|-----|---------------------|---|-----|-----|-------------|--|--|--|--|
| Individual Fiji banded iguana Endangered (EN) Brachylophus bulabul | | | | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Own | Date out | | | | |
| 4/May/2019 | Birth/Hatch | ln | ln | SANDIEGOZ / 1000366 | Death | Out | Out | 17/Nov/2023 | | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | | |
| Enclosure | - | | | Birth Date/Age | 4/May/2019 / 4Y,6M,13D at the time of death | | | | | | | |
| Rearing | - | | | Death Number | [0071058/SANDIEGOZ] | | | | | | | |
| <u>Dam</u> | [GAN: DNY14-12619 SANDIEGOZ / | 907107] | | Local ID | [1000366/SANDIEGOZ] | | | | | | | |
| <u>Sire</u> | [GAN: DNY14-12617 SANDIEGOZ / | 907105] | | Regional Studbook # | [274-AZA /SANDIEGOZ] | | | | | | | |
| | | | | | | | | | | | | |

| | DNY19-35586 Local ID: 1001350 | | | | | | | | | | | |
|--|--|-----|-----|---|--|-------|-----|-------------|--|--|--|--|
| Individual Fiji banded iguana Endangered (EN) Brachylophus | | | | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | | | |
| 4/Dec/2019 | Birth/Hatch | ln | ln | SANDIEGOZ / 1001350 | Loan Out To DETROIT/14436 | Out | - | 12/Jul/2022 | | | | |
| 13/Jul/2022 | Loan In From Sender: SANDIEGOZ/1001350 Vendor: SANDIEGOZ/1001350 | ln | - | DETROIT / 14436 | Death | Out | - | 8/Sep/2023 | | | | |
| - | - | - | - | SANDIEGOZ / 1001350 | Death (ownership only) | - | Out | 8/Sep/2023 | | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - - [GAN: DNY14-12619 SANDIEGOZ / 9071 [GAN: DNY14-12617 SANDIEGOZ / 9071 | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 4/Dec/2019 / 3Y,9M,4D at the time of death [1001350/SANDIEGOZ] [276-AZA /SANDIEGOZ] [00-07F5-F868/[Leg/Cranial, Hind, Left]/SANDI | EGOZ] | | | | | | |

| | | | DNY | 20-35708 Lo | ocal ID: | 1001424 | | |
|---|---|------------|------|----------------------------------|----------|--|------------|-----------------------|
| Individual | Fiji ba | nded i | guan | a | Endang | gered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Own | Reported By | | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 2/Jan/2020 | Birth/Hatch | ln | ln | SANDIEGOZ / 10 | | Loan Out To BISMARCK/3572 | Out | - 19/Apr/2023 |
| 19/Apr/2023 | Loan In From Sender: SANDIEGOZ/1001424 Vendor: SANDIEGOZ/1001424 | ln | - | BISMARCK / 357 | 72 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type | | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | | San Diego Zoo | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | | 2/Jan/2020 / 4Y,6M,8D | | |
| Rearing Dam | - [GAN: DNY14-14094 SANDIEGOZ / 913 | 4651 | | Local ID | | [1001424/SANDIEGOZ] | | |
| Sire . | [GAN: BPL16-02624 SANDIEGOZ / 9160 | | | | | | | |
| | | | DNY | 20-35712 Lo | ocal ID: | 1001426 | | |
| Individual | Fiji ba | nded i | | • | | gered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | | _ | Reported By | | Disposition - Recipient/Local ID | Phy | Own Date out |
| 4/Jan/2020 | Birth/Hatch | ln | ln | SANDIEGOZ / 10 | 001426 | Loan Out To SYRACUSE/R22104 | Out | - 15/Jun/2022 |
| 15/Jun/2022 | Loan In From Sender: SANDIEGOZ/1001426 Vendor: SANDIEGOZ/1001426 | ln | - | SYRACUSE / R2 | 22104 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type Birth Location | | Captive Birth/Hatch | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid - | | | Birth Location Birth Date/Age | | San Diego Zoo 4/Jan/2020 / 4Y,6M,6D | | |
| Rearing | - | | | Local ID | | [1001426/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: DNY14-14094 SANDIEGOZ / 913 | | | Transponder | | [00-07F4-47A9/[-/Left]/SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: BPL16-02624 SANDIEGOZ / 9160 | J9/] | | | | | | |
| | | | DNY | 20-35713 Lo | ocal ID: | 1001427 | | |
| Individual | Fiji ba | nded i | guan | a | Endan | gered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | | Disposition - Recipient/Local ID | Phy | Own Date out |
| 1/Jan/2020 | Birth/Hatch | ln | ln | SANDIEGOZ / 10 | 001427 | - | - | |
| Sex/Contraception | Female / - | | | Birth Type | | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location Birth Date/Age | | San Diego Zoo | | |
| <u>Enclosure</u> Rearing | AR07100 Reptile Mesa Enclosure Group | | | Local ID | | 4/Jan/2020 / 4Y,6M,6D [1001427/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: DNY14-14094 SANDIEGOZ / 913 | 465] | | | | [100112770711212002] | | |
| Sire | [GAN: BPL16-02624 SANDIEGOZ / 9160 |)97] | | | | | | |
| | | | DNY: | 20-35827 Lo | ocal ID: | 1001506 | | |
| Individual | Fiji ba | nded i | guan | а | Endang | gered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Own Date out |
| 23/Jan/2020 | Birth/Hatch | ln | ln | SANDIEGOZ / 10 | 001506 | - | - | |
| Sex/Contraception | Female / - | | | Birth Type | | Captive Birth/Hatch | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid AR07100 Reptile Mesa Enclosure Group | | | Birth Location Birth Date/Age | | San Diego Zoo 23/Jan/2020 / 4Y,5M,17D | | |
| Rearing | - | | | Local ID | | [1001506/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: DNY14-14094 SANDIEGOZ / 913 | 465] | | | | | | |
| <u>Sire</u> | [GAN: BPL16-02624 SANDIEGOZ / 9160 |)97] | | | | | | |
| | | | DNY | 20-36502 Lo | ocal ID: | 1001736 | | |
| Individual | Fiji ba | | _ | | Endang | gered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Own Date out |
| 29/Mar/2020 | Birth/Hatch | ln | ln | SANDIEGOZ / 10 | 001736 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type | | Captive Birth/Hatch | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid AR07100 Reptile Mesa Enclosure Group | | | Birth Location Birth Date/Age | | San Diego Zoo 29/Mar/2020 / 4Y,3M,11D | | |
| Rearing | | | | Local ID | | 29/Mar/2020 / 41,3M,11D [1001736/SANDIEGOZ] | | |
| Dam | [GAN: DNY14-12619 SANDIEGOZ / 907 | - | | _ | | - · · | | |
| <u>Sire</u> | [GAN: DNY14-12617 SANDIEGOZ / 907 | 105] | | | | | | |
| | | | DNY | 20-36509 Lo | ocal ID: | 1001739 | | |
| Individual | Fiji ba | nded i | guan | a | Endang | gered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Own | Reported By | | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| | Birth/Hatch | ln | ln | SANDIEGOZ / 10 | 001739 | - | - | |
| 31/Mar/2020 | Female / - | | | Birth Type | | Captive Birth/Hatch | | |
| | remale / - | | | | | • | | |
| Sex/Contraception Hybrid Status | Not a hybrid | | | Birth Location | | San Diego Zoo | | |
| 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure | | | | Birth Date/Age | | 31/Mar/2020 / 4Y,3M,10D | | |
| Sex/Contraception Hybrid Status | Not a hybrid | | | | | • | | |

Page 3 of 45

| Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status | | | | | | | |
|---|---|-----------------------------|---------------|---|--|-----------|-----------------------|
| Date in 22/Apr/2020 Sex/Contraception Hybrid Status | | | | 11/00 00040 1 | LID 4004000 | | |
| Date in 22/Apr/2020 Sex/Contraception Hybrid Status | | | | • | ocal ID: 1001800 | | |
| 22/Apr/2020 Sex/Contraception Hybrid Status | | Fiji bande | _ | | Endangered (EN) | ъ. | Brachylophus bulabula |
| Sex/Contraception Hybrid Status | Acquisition - Vendor/Local ID | | | Own Reported By | Disposition - Recipient/Local ID | Pny | Own Date out |
| Hybrid Status | Birth/Hatch | l | n Ir | | | - | |
| | Male / - | | | Birth Type Birth Location | Captive Birth/Hatch | | |
| Enclosure | Not a hybrid AR07100 Reptile Mesa Enclosure | Group | | Birth Date/Age | San Diego Zoo 22/Apr/2020 / 4Y,2M,18D | | |
| Rearing | - | · Oloup | | Local ID | [1001800/SANDIEGOZ] | | |
| Dam | [GAN: DNY14-12619 SANDIEGO | Z / 907107 | | | [| | |
| Sire | [GAN: DNY14-12617 SANDIEGO | Z / 907105 | | | | | |
| | | | DI | NY20-36705 I | ocal ID: 1001873 | | |
| Individual | | Fiji bande | d igu | ana | Endangered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | ļ | Phy C | wn Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 15/May/2020 | Birth/Hatch | | n Ir | | | Out | |
| 24/Apr/2024 | Loan In From Sender: SANDIEGOZ/10/ Vendor: SANDIEGOZ/1001873 | - | n - | DALLAS / 24H | | - | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| Enclosure | | | | Birth Date/Age | 15/May/2020 / 4Y,1M,25D | | |
| Rearing | <u></u> | | | Local ID | [1001873/SANDIEGOZ] | | |
| <u>Dam</u> Sire | [GAN: 25215774 SANDIEGOZ / 9 [GAN: DNY14-13972 SANDIEGO | | | Transponder | [00-0806-6371/[Leg/Left]/SANDIEGOZ] | | |
| | | | DI | NY20-36715 I | ocal ID: 1001881 | | |
| Individual | | Fiji bande | d iau | ana · | Endangered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | • | _ | own Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| | | | | | | <u>y</u> | - m Date Out |
| 18/May/2020 | Birth/Hatch | | n Ir | | | - | |
| Sex/Contraception | Female / - | | | Birth Location | Captive Birth/Hatch | | |
| Hybrid Status Enclosure | Not a hybrid AR07100 Reptile Mesa Enclosure | Group | | Birth Location Birth Date/Age | San Diego Zoo 18/May/2020 / 4Y,1M,22D | | |
| Rearing | - | Group | | Local ID | [1001881/SANDIEGOZ] | | |
| Dam | - [GAN: 25215774 SANDIEGOZ / 9 | 907581] | | | [1001001/0/14012002] | | |
| Sire | [GAN: DNY14-13972 SANDIEGO | | | | | | |
| | | | DI | NY20-36740 I | ocal ID: 1001896 | | |
| Individual | ı | Fiji bande | d igu | ana | Endangered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | ļ | Phy C | Own Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 27/May/2020 | Birth/Hatch | ı | n Ir | | | Out | • |
| 24/Apr/2024 | Loan In From Sender: SANDIEGOZ/10 | 01896 I | n - | DALLAS / 24H | Death | Out | - 1/Jul/2024 |
| _ | Vendor: SANDIEGOZ/1001896 | | _ | SANDIEGOZ / | 1001896 Death (ownership only) | - | Out 1/Jul/2024 |
| Sex/Contraception | Famala / | | | Birth Type | · · · · · · · · · · · · · · · · · · · | | 040 1/04/2021 |
| Hybrid Status | Female / - Not a hybrid | | | Birth Location | Captive Birth/Hatch San Diego Zoo | | |
| Enclosure | - | | | Birth Date/Age | 27/May/2020 / 4Y,1M,4D at the time of death | | |
| Rearing | - | | | Local ID | [1001896/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: 25215774 SANDIEGOZ / 9 | 907581] | | Transponder | [00-0806-60DE/[Leg/Left]/SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: DNY14-13972 SANDIEGO | Z / 913268] | | | | | |
| | | | DI | NY20-36760 I | ocal ID: 1001910 | | |
| Individual | | Fiji bande | d igu | ana | Endangered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | ļ | Phy C | wn Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 2/Jun/2020 | Birth/Hatch | | n Ir | SANDIEGOZ/ | 1001910 - | - | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | |
| | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| | AR07100 Reptile Mesa Enclosure | Group | | Birth Date/Age | 2/Jun/2020 / 4Y,1M,8D | | |
| Hybrid Status Enclosure | Autonomous | | | Local ID | [1001910/SANDIEGOZ] | | |
| Hybrid Status Enclosure Rearing | [GAN: DNY14-14094 SANDIEGO | | | | | | |
| Hybrid Status Enclosure Rearing Dam | | ∠/976097] | | | | | |
| Hybrid Status Enclosure Rearing | [GAN: BPL16-02624 SANDIEGO | | | | IID 4000000 | | |
| Hybrid Status Enclosure Rearing Dam | | | Н | FV20-24487 L | .ocal ID: 1003309 | | |
| Hybrid Status Enclosure Rearing Dam | [GAN: BPL16-02624 SANDIEGO. | Fiji bande | | | Endangered (EN) | | Brachylophus bulabula |
| Hybrid Status Enclosure Rearing Dam Sire | [GAN: BPL16-02624 SANDIEGO. | • | d igu | | | Phy | Brachylophus bulabula |
| Hybrid Status Enclosure Rearing Dam Sire Individual Date in 13/Jun/2020 | [GAN: BPL16-02624 SANDIEGO. Acquisition - Vendor/Local ID Birth/Hatch | <u>!</u> | digu Phy C | ana Own Reported By SANDIEGOZ/ | Endangered (EN) Disposition - Recipient/Local ID 1003309 - | - | Own Date out |
| Hybrid Status Enclosure Rearing Dam Sire Individual Date in 13/Jun/2020 13/Jun/2020 | [GAN: BPL16-02624 SANDIEGO. Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/UNDE | <u>!</u> - TERMINED I | digu Phy C | ana Dwn Reported By SANDIEGOZ / DALLAS / 200 | Endangered (EN) Disposition - Recipient/Local ID 1003309 - 247 Loan Return To Owner SANDIEGOZ/1003309 | Phy - Out | Own Date out |
| Hybrid Status Enclosure Rearing Dam Sire Individual Date in 13/Jun/2020 13/Jun/2020 4/May/2022 | [GAN: BPL16-02624 SANDIEGO. Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/UNDE: Loan Return to Us Sender: DALLAS/2 | <u>!</u> - TERMINED I | digu Phy C | ana Dwn Reported By SANDIEGOZ / DALLAS / 200 SANDIEGOZ / | Endangered (EN) Disposition - Recipient/Local ID 1003309 247 Loan Return To Owner SANDIEGOZ/1003309 - | - | Own Date out |
| Hybrid Status Enclosure Rearing Dam Sire Individual Date in 13/Jun/2020 13/Jun/2020 4/May/2022 Sex/Contraception | [GAN: BPL16-02624 SANDIEGO. Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/UNDE: Loan Return to Us Sender: DALLAS/20 Male / - | <u>!</u> - TERMINED I | digu Phy C | ana Newn Reported By SANDIEGOZ / DALLAS / 200 SANDIEGOZ / Birth Type | Endangered (EN) Disposition - Recipient/Local ID 1003309 - Loan Return To Owner SANDIEGOZ/1003309 - Captive Birth/Hatch | - | Own Date out |
| Hybrid Status Enclosure Rearing Dam Sire Individual Date in 13/Jun/2020 4/May/2022 Sex/Contraception Hybrid Status | [GAN: BPL16-02624 SANDIEGO. Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/UNDE: Loan Return to Us Sender: DALLAS/20 Male / - Not a hybrid | | digu Phy C | ana Num Reported By SANDIEGOZ / DALLAS / 200 SANDIEGOZ / Birth Type Birth Location | Endangered (EN) Disposition - Recipient/Local ID 1003309 - 247 Loan Return To Owner SANDIEGOZ/1003309 1003309 - Captive Birth/Hatch Dallas Zoo | - | Own Date out |
| Hybrid Status Enclosure Rearing Dam Sire Individual Date in 13/Jun/2020 4/May/2022 Sex/Contraception Hybrid Status Enclosure | [GAN: BPL16-02624 SANDIEGO. Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/UNDE: Loan Return to Us Sender: DALLAS/20 Male / - | | digu Phy C | ana Num Reported By SANDIEGOZ / DALLAS / 200 SANDIEGOZ / Birth Type Birth Location Birth Date/Age | Endangered (EN) Disposition - Recipient/Local ID 1003309 - Loan Return To Owner SANDIEGOZ/1003309 1003309 - Captive Birth/Hatch Dallas Zoo 13/Jun/2020 / 4Y,0M,27D | - | Own Date out |
| Hybrid Status Enclosure Rearing Dam Sire Individual Date in 13/Jun/2020 4/May/2022 Sex/Contraception Hybrid Status | [GAN: BPL16-02624 SANDIEGO. Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/UNDE: Loan Return to Us Sender: DALLAS/20 Male / - Not a hybrid | E Group | digu Phy C | ana Num Reported By SANDIEGOZ / DALLAS / 200 SANDIEGOZ / Birth Type Birth Location | Endangered (EN) Disposition - Recipient/Local ID 1003309 - 247 Loan Return To Owner SANDIEGOZ/1003309 1003309 - Captive Birth/Hatch Dallas Zoo | - | Own Date out |

| 1/Jan/1950 | | | | | | 10/Jul/20 | |
|---|--|---|--|--|--|--------------------------|--------------------------------------|
| | | | DN | Y22-39673 Loc | cal ID: 1003850 | | |
| Individual | | Fiji bande | d iguar | na E | Endangered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | Phy Ow | n Reported By | Disposition - Recipient/Local II |) Phy | Own Date out |
| 25/Apr/2022 | Birth/Hatch | | ln In | SANDIEGOZ / 100 | | | Out 25/Apr/2022 |
| • | | | ,ı III | | | Out | Out 25/Apr/2022 |
| Sex/Contraception Hybrid Status | Undetermined / - | | | Birth Type | Captive Birth/Hatch | | |
| Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo 25/Apr/2022 / 0Y,0M,0D at the time o | f death | |
| Rearing | | | | Death Number | [0068229/SANDIEGOZ] | ii deatii | |
| Dam Dam | - [GAN: DNY20-36715 SANDIEG | OZ / 1001881 | 11 IGAN | Local ID | [1003850/SANDIEGOZ] | | |
| | DNY20-36740 SANDIEGOZ / 10 | | 110, | Old Accession Nu | | | |
| <u>Sire</u> | [GAN: DNY20-36705 SANDIEG | - | 3] | | | | |
| | | | יאם | Y22-40317 Lo | cal ID: 1004211 | | |
| Individual | | Fiji bande | | <u> </u> | Endangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | • | • | n Reported By | Disposition - Recipient/Local II |) Phy | Own Date out |
| | | | | | | | |
| 15/Jul/2022 30/May/2024 | Birth/Hatch Loan In From Sender: SANDIEGOZ/D | | ln In In - | SANDIEGOZ / 100 DES MOINE / 3753 | | Out | - 30/May/2024 |
| John Nayr 2024 | Vendor: SANDIEGOZ/DNY22-40+ | /11144-4U ⁺ | | DEG MONNE / 3/33 | · - | - | • |
| Sex/Contraception | | | | Rirth Type | Contino Pieth/Hatch | | |
| Hybrid Status | Male / - Not a hybrid | | | Birth Type Birth Location | Captive Birth/Hatch | | |
| Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo 15/Jul/2022 / 1V 11M 25D | | |
| <u>-nciosure</u> Rearing | | | | Local ID | 15/Jul/2022 / 1Y,11M,25D [1004211/SANDIEGOZ] | | |
| Dam_ | - [GAN: DNY19-33983 SANDIEG | OZ / 1000360 | 61 | <u>Transponder</u> | [1004211/SANDIEGO2] [00-0806-6381/[-/Caudal, Left]/SAND | IFGOZI | |
| Sire . | [GAN: DNY20-36616 SANDIEG | | - | <u> Transponder</u> | [00-0000-030 I/[-/Caudai, Leit]/3AND | iLGOZj | |
| | | | DN | Y22-40318 Lo | cal ID: 1004212 | | |
| Individual | | Fiji bande | | | Endangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | • | • | | Disposition - Recipient/Local II |) Phy | Own Date out |
| | | | | n Reported By | | <u> </u> | Own Date out |
| 5/Jul/2022 | Birth/Hatch | l | ln In | SANDIEGOZ / 100 | 04212 - | - | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| nclosure | AR07100 Reptile Mesa Enclosur | re Group | | Birth Date/Age | 15/Jul/2022 / 1Y,11M,25D | | |
| Rearing | - | - | | | rtificial [RED DOT/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: DNY19-33983 SANDIEG | OZ / 1000360 | 6] | Color Marking - N | atural [BLUE BARS/SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: DNY20-36616 SANDIEG | OZ / 1001800 | 0] | Local ID | [1004212/SANDIEGOZ] | | |
| | | | | Old Accession Nu | imber [DNY22-40304-IA/SANDIEGOZ] | | |
| | | | DN | Y22-40954 Lo | cal ID: 1004616 | | |
| Individual | | Fiji bande | d iguai | na E | Endangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Ţ | Phy Ow | n Reported By | Disposition - Recipient/Local II | <u>Phy</u> | Own Date out |
| 26/Sep/2022 | Birth/Hatch | 1 | n In | SANDIEGOZ / 100 | 04616 - | - | |
| Sex/Contraception | | | | | | | |
| Hybrid Status | Male / - | | | Birth Type | Captive Birth/Hatch | | |
| | Not a hybrid | | | Rirth Location | | | |
| Enclosure | Not a hybrid | re Group | | Birth Location Birth Date/Age | San Diego Zoo | | |
| Enclosure Rearing | Not a hybrid AR07100 Reptile Mesa Enclosui | re Group | | Birth Date/Age | 26/Sep/2022 / 1Y,9M,14D | | |
| Rearing | AR07100 Reptile Mesa Enclosur | • | ı | | • | | |
| | , | GOZ / 915092] | • | Birth Date/Age | 26/Sep/2022 / 1Y,9M,14D | | |
| Rearing Dam | AR07100 Reptile Mesa Enclosul - [GAN: DNY15-15892 SANDIEG | GOZ / 915092] | <u> </u> | Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] | | |
| Rearing Dam Bire | AR07100 Reptile Mesa Enclosul - [GAN: DNY15-15892 SANDIEG | GOZ / 915092] GOZ / 916380] | DN | Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 | | Brachylonhus hulahul |
| Rearing Dam Sire | AR07100 Reptile Mesa Enclosul - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG | 6OZ / 915092] 6OZ / 916380] Fiji bande | DN\ ed iguar | Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) | | • • |
| Rearing Dam Sire | AR07100 Reptile Mesa Enclosul - [GAN: DNY15-15892 SANDIEG | 6OZ / 915092] 6OZ / 916380] Fiji bande | DN\ ed iguar | Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 | <u>D</u> <u>Phy</u> | Brachylophus bulabul Own Date out |
| Rearing Dam Bire | AR07100 Reptile Mesa Enclosul - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG | 6OZ / 915092] 6OZ / 916380] Fiji bande | DN\ ed iguar | Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID | <u>) Phy</u> | Brachylophus bulabul Own Date out |
| Rearing Dam Sire Individual Date in | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch | 6OZ / 915092] 6OZ / 916380] Fiji bande | DN\ ed iguar Phy Ow | Birth Date/Age Local ID Y22-41131 Local ID Take the second of the se | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 04736 - | <u>) Phy</u> - | • • |
| Rearing Dam Sire Individual Date in 81/Oct/2022 Sex/Contraception | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - | 6OZ / 915092] 6OZ / 916380] Fiji bande | DN\ ed iguar Phy Ow | Firth Date/Age Local ID Y22-41131 Local In Reported By SANDIEGOZ / 100 | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 04736 - Captive Birth/Hatch |) <u>Phy</u> - | • • |
| Rearing Dam Sire Individual Date in MI/Oct/2022 Sex/Contraception Hybrid Status | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid | GOZ / 915092] GOZ / 916380] Fiji bande | DN\ ed iguar Phy Ow | Birth Date/Age Local ID Y22-41131 Loc na E n Reported By SANDIEGOZ / 100 Birth Type | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 4736 Captive Birth/Hatch San Diego Zoo |) <u>Phy</u> - | · · |
| Rearing Dam Sire Individual Date in MI/Oct/2022 Sex/Contraception Hybrid Status Enclosure | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - | GOZ / 915092] GOZ / 916380] Fiji bande | DN\ ed iguar Phy Ow | March Date/Age Local ID Y22-41131 Local In Reported By SANDIEGOZ / 100 Birth Type Birth Location | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 4736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D | <u>) Phy</u> - | · · |
| Rearing Dam Sire Individual Date in OI/Oct/2022 Sex/Contraception Hybrid Status Enclosure Rearing | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur | GOZ / 915092] GOZ / 916380] Fiji bande [] | DN\ ed iguar Phy Ow | Birth Date/Age Local ID Y22-41131 Loc na | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 4736 Captive Birth/Hatch San Diego Zoo | <u>)</u> <u>Phy</u> - | · · |
| Rearing Dam Sire Individual Date in 81/Oct/2022 | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous | Fiji bande Figure Group 60Z / 915092] | DNY ed iguar Phy Ow in in | Birth Date/Age Local ID Y22-41131 Loc na | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 4736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D | <u>) Phy</u> - | • • |
| Individual Date in In/Oct/2022 Sex/Contraception Inclosure Rearing Rearing | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG | Fiji bande Figure Group 60Z / 915092] | DN\ ed iguar Phy Ow in in | Birth Date/Age Local ID Y22-41131 Local Ina Example Reported By SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 4736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D |) <u>Phy</u> - | • • |
| Individual Date in In/Oct/2022 Sex/Contraception Hybrid Status Sinclosure Rearing Dam Sire | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG | Fiji bande Figure Group 60Z / 915092] | DNY ed iguar Phy Ow in in | Birth Date/Age Local ID Y22-41131 Loc na E Y Reported By SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 4736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D [1004736/SANDIEGOZ] | <u>)</u> <u>Phy</u> | · · |
| Individual Date in In/Oct/2022 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG [GAN: DNY14-12617 SANDIEG | Fiji bande GOZ / 915092] Fiji bande GOZ / 907107] Fiji bande | DN\ ed iguar Phy Ow in in | SANDIEGOZ / 100 Birth Date/Age Local ID Y22-41131 Local Na Reported By SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 24736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D [1004736/SANDIEGOZ] cal ID: 1004787 Endangered (EN) | - | Own Date out Brachylophus bulabu |
| Rearing Dam Sire Individual Date in H/Oct/2022 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in | AR07100 Reptile Mesa Enclosur [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG [GAN: DNY14-12617 SANDIEG | Fiji bande OZ / 915092] Fiji bande GOZ / 907107] Fiji bande | DNY ed iguar Phy Ow n in DNY ed iguar Phy Ow | Birth Date/Age Local ID Y22-41131 Loc na E YN Reported By SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local II 24736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D [1004736/SANDIEGOZ] cal ID: 1004787 Endangered (EN) Disposition - Recipient/Local II | - | Own Date out |
| Individual Date in Sire Individual Date in In/Oct/2022 Sex/Contraception Sirclosure Searing Dam Sire Individual Date in O/Nov/2022 | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG [GAN: DNY14-12617 SANDIEG | Fiji bande OZ / 915092] Fiji bande GOZ / 907107] Fiji bande | DN\ ed iguar Phy Ow in in | SANDIEGOZ / 100 Birth Date/Age Local ID Y22-41131 Local Na Reported By SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local II 24736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D [1004736/SANDIEGOZ] cal ID: 1004787 Endangered (EN) Disposition - Recipient/Local II | - | Own Date out Brachylophus bulabu |
| Rearing Dam Bire Individual Date in BI/Oct/2022 Sex/Contraception Hybrid Status Enclosure Rearing Dam Bire Individual Date in 0/Nov/2022 | AR07100 Reptile Mesa Enclosur [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG [GAN: DNY14-12617 SANDIEG | Fiji bande OZ / 915092] Fiji bande GOZ / 907107] Fiji bande | DNY ed iguar Phy Ow n in DNY ed iguar Phy Ow | Birth Date/Age Local ID Y22-41131 Loc na E YN Reported By SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age Local ID | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local II 24736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D [1004736/SANDIEGOZ] cal ID: 1004787 Endangered (EN) Disposition - Recipient/Local II | - | Own Date out Brachylophus bulabu |
| Rearing Dam Sire Individual Date in SI/Oct/2022 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in O/Nov/2022 Sex/Contraception | AR07100 Reptile Mesa Enclosur [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Male /- Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG [GAN: DNY14-12617 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch | Fiji bande OZ / 915092] Fiji bande GOZ / 907107] Fiji bande | DNY ed iguar Phy Ow n in DNY ed iguar Phy Ow | Birth Date/Age Local ID Y22-41131 Local ID Y22-41131 Local ID SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age Local ID Y22-41202 Local ID Reported By SANDIEGOZ / 100 | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local ID 24736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D [1004736/SANDIEGOZ] cal ID: 1004787 Endangered (EN) Disposition - Recipient/Local ID 24787 - | - | Own Date out Brachylophus bulabu |
| Rearing Dam Sire Individual Date in 81/Oct/2022 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 10/Nov/2022 Sex/Contraception Hybrid Status Enclosure Sex/Contraception Hybrid Status Enclosure | AR07100 Reptile Mesa Enclosur [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG [GAN: DNY14-12617 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - | Fiji bande GOZ / 915092] Fiji bande GOZ / 907107] GOZ / 907105] | DNY ed iguar Phy Ow n in DNY ed iguar Phy Ow | Birth Date/Age Local ID Y22-41131 Local Age | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local II 04736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D [1004736/SANDIEGOZ] cal ID: 1004787 Endangered (EN) Disposition - Recipient/Local II 04787 - Captive Birth/Hatch | - | Own Date out Brachylophus bulabu |
| Rearing Dam Sire Individual Date in 81/Oct/2022 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 10/Nov/2022 Sex/Contraception Hybrid Status Enclosure Rearing Rearing | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG [GAN: DNY14-12617 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid | Fiji bande GOZ / 915092] Fiji bande GOZ / 907107] GOZ / 907105] | DNY ed iguar Phy Ow n in DNY ed iguar Phy Ow | Birth Date/Age Local ID Y22-41131 Local Ana E YAN Reported By SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age Local ID Y22-41202 Local Ana E YANDIEGOZ / 100 Birth Type Birth Type Birth Type Birth Location | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local II 04736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D [1004736/SANDIEGOZ] cal ID: 1004787 Endangered (EN) Disposition - Recipient/Local II 04787 - Captive Birth/Hatch San Diego Zoo | - | Own Date out Brachylophus bulabu |
| Rearing Dam Dire Individual Date in M/Oct/2022 Sex/Contraception Hybrid Status Enclosure Rearing Dam Date in M/Ovo/2022 Sex/Contraception Hybrid Status | AR07100 Reptile Mesa Enclosur - [GAN: DNY15-15892 SANDIEG [GAN: SYC16-01173 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur Autonomous [GAN: DNY14-12619 SANDIEG [GAN: DNY14-12617 SANDIEG Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosur | Fiji bande GOZ / 915092] Fiji bande GOZ / 907107] Fiji bande | DNY ed iguar Phy Ow h In DNY ed iguar Phy Ow h In | Birth Date/Age Local ID Y22-41131 Local ID Y22-41131 Local ID SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age Local ID Y22-41202 Local ID Y22-41202 Local ID SANDIEGOZ / 100 Birth Type Birth Location Birth Date/Age | 26/Sep/2022 / 1Y,9M,14D [1004616/SANDIEGOZ] cal ID: 1004736 Endangered (EN) Disposition - Recipient/Local II 04736 - Captive Birth/Hatch San Diego Zoo 31/Oct/2022 / 1Y,8M,10D [1004736/SANDIEGOZ] cal ID: 1004787 Endangered (EN) Disposition - Recipient/Local II 04787 - Captive Birth/Hatch San Diego Zoo 10/Nov/2022 / 1Y,8M,0D | - | Own Date out Brachylophus bulabu |

| 1/Jan/1950 | | | | | | 10/Jul/202 | 24 36 |
|---|---|------------|-------------|--|--|------------------|----------------------|
| | | | ONY | 23-41650 Loc | al ID: 1005024 | | |
| Individual | Fiji ban | ded ig | uan | a E | ndangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | _ | | Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 21/Feb/2023 | Birth/Hatch | ln | ln | SANDIEGOZ / 100 | 5024 - | - | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Undetermined / - Not a hybrid AR07100 Reptile Mesa Enclosure Group - [GAN: DNY14-12619 SANDIEGOZ / 9071 [GAN: DNY14-12617 SANDIEGOZ / 9071 | | | Birth Type Birth Location Birth Date/Age Local ID | Captive Birth/Hatch San Diego Zoo 21/Feb/2023 / 1Y,4M,19D [1005024/SANDIEGOZ] | | |
| | | [| ONY | 23-41669 Loc | al ID: 1005037 | | |
| Individual | Fiji ban | ded ig | uan | a E | ndangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | <u>Ow</u> r | Reported By | Disposition - Recipient/Local ID | <u>Ph</u> y | Own Date out |
| 2/Mar/2023 | Birth/Hatch | ln | ln | SANDIEGOZ / 100 | 5037 - | - | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Undetermined / - Not a hybrid AR07100 Reptile Mesa Enclosure Group Autonomous [GAN: DNY14-12619 SANDIEGOZ / 9071 [GAN: DNY14-12617 SANDIEGOZ / 9071 | - | | Birth Type Birth Location Birth Date/Age Local ID | Captive Birth/Hatch San Diego Zoo 2/Mar/2023 / 1Y,4M,8D [1005037/SANDIEGOZ] | | |
| | | | 19 | 9978322 Loca | I ID: 186022 | | |
| Individual | Fiji ban | ded ig | uan | a E | ndangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 23/Oct/1986 | Loan In From Vendor: ST LOUIS/NONE | ln | - | SANDIEGOZ / 186 | 022 Death | Out | - 25/Apr/1987 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbool | Undetermined Unknown Location ~ from 1/Jan/1983 to 1/Jan/1985 / 3Y,3I [0023730/SANDIEGOZ] [186022/SANDIEGOZ] [69-AZA /SANDIEGOZ] | M,24D at the tii | ne of death |
| | | | 23 | 3052937 Loca | I ID: 187307 | | |
| Individual | Fiji ban | ded ig | uan | a E | ndangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 16/Sep/1987 | Donation From FIJI MINI/NONE | ln | ln | SANDIEGOZ / 187 | 307 Death | Out | Out 12/Sep/2002 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbool | Captive Birth/Hatch Fiji / ~ from 1/Dec/1985 to 1/Dec/1986 / 16Y, [0044858/SANDIEGOZ] [187307/SANDIEGOZ] [5-AZA /SANDIEGOZ] | 3M,11D at the | time of death |
| | | | 22 | 2052938 Loca | I ID: 187308 | | |

| Date in | Acquisition - vendor/Local ID | Pny | Ow | n <u>Reported By</u> | Disposition - Recipient/Local ID | Pny | Ow | n Date out | | | |
|-------------------|-------------------------------|-----|----|----------------------|---|----------|------|-------------|--|--|--|
| 16/Sep/1987 | Donation From FIJI MINI/NONE | ln | ln | SANDIEGOZ / 187307 | Death | Out | Out | 12/Sep/2002 | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Fiji / | | | | | | |
| Enclosure | - | | | Birth Date/Age | ~ from 1/Dec/1985 to 1/Dec/1986 / 16Y,3M,11 | D at the | time | of death | | | |
| Rearing | Undetermined | | | Death Number | [0044858/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [UNK / UNKNOWN] | | | Local ID | [187307/SANDIEGOZ] | | | | | | |
| Sire | [UNK / UNKNOWN] | | | Regional Studbook # | [5-AZA /SANDIEGOZ] | | | | | | |
| | | | | | | | | | | | |
| | 23052938 Local ID: 187308 | | | | | | | | | | |

| ' | | | | | | | | | | | | |
|---|---|--|---|--|--|---|--|--|--|--|--|--|
| | Fiji banded ig | guan | a Er | ndangered (EN) | | Brachylophus bulabula | | | | | | |
| Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Owr</u> | n Date out | | | | | |
| Donation From FIJI MINI/NONE | ln | ln | SANDIEGOZ / 1873 | 08 Death | Out | Out | 13/Apr/1993 | | | | | |
| Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook | [0032279/SANDIEGOZ] [187308/SANDIEGOZ] | 2D at the ti | me of | death | | | | | |
| | Donation From FJJ MINI/NONE Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] | Acquisition - Vendor/Local ID Phy Donation From FIJI MINI/NONE In Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] | Acquisition - Vendor/Local ID Phy Own Donation From FIJI MINI/NONE In In Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] | Acquisition - Vendor/Local ID Phy Own Reported By Donation From FJJI MINI/NONE In SANDIEGOZ / 1873 Female / - Birth Type Not a hybrid Birth Location - Birth Date/Age Undetermined Death Number [UNK / UNKNOWN] Local ID | Acquisition - Vendor/Local ID Phy Own Reported By Disposition - Recipient/Local ID Donation From FIJI MINI/NONE In SANDIEGOZ / 187308 Death Female / - Birth Type Captive Birth/Hatch Not a hybrid Birth Location Fiji / - Birth Date/Age ~ from 1/Jan/1984 to 1/Jan/1986 / 8Y,3M,12 Undetermined Death Number [0032279/SANDIEGOZ] [UNK / UNKNOWN] Local ID [187308/SANDIEGOZ] | Acquisition - Vendor/Local ID Phy Own Reported By Disposition - Recipient/Local ID Phy Donation From FIJI MINI/NONE In SANDIEGOZ / 187308 Death Out Female / - Birth Type Captive Birth/Hatch Not a hybrid Birth Location Fiji / - Birth Date/Age From 1/Jan/1984 to 1/Jan/1986 / 8Y,3M,12D at the tire Undetermined Death Number [0032279/SANDIEGOZ] [UNK / UNKNOWN] Local ID [187308/SANDIEGOZ] | Acquisition - Vendor/Local ID Phy Own Reported By Disposition - Recipient/Local ID Phy Own Date of the property of | | | | | |

| 23052939 Local ID: 187309 | | | | | | | | | | |
|-----------------------------|-------------------------------|---------------|------|---------------------|---|------------------|-------|----------------|-------|--|
| Individual | | Fiji banded i | guan | a End | dangered (EN) | | Bra | chylophus bula | abula | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owi | n Reported By | <u>Disposition - Recipient/Local ID</u> | Phy | Owr | Date out | | |
| 16/Sep/1987 | Donation From FIJI MINI/NONE | l n | ln | SANDIEGOZ / 18730 | 9 Death | Out | Out | 20/Nov/1992 | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Fiji / | | | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | ~ from 1/Jan/1986 to 1/Jan/1987 / 6Y,4N | /I,19D at the ti | me of | death | | |
| Rearing | Undetermined | | | Death Number | [0031643/SANDIEGOZ] | | | | | |
| <u>Dam</u> | [UNK / UNKNOWN] | | | Local ID | [187309/SANDIEGOZ] | | | | | |
| <u>Sire</u> | [UNK / UNKNOWN] | | | Regional Studbook # | [7-AZA /SANDIEGOZ] | | | | | |

| | 23052940 Local ID: 187310 | | | | | | | | | | | |
|--|---|---------------|------|--|---|---------------|-----------|--------------------|--|--|--|--|
| Individual | | Fiji banded i | guan | a Enda | ngered (EN) | | Bra | achylophus bulabul | | | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owr | Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out | | | | |
| 16/Sep/1987 | Donation From FIJI MINI/NONE | ln | ln | SANDIEGOZ / 187310 | Death | Out | Out | 20/May/1996 | | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch Fiji / ~ from 1/Jan/1984 to 1/Jan/1986 / 11Y, [0036641/SANDIEGOZ] [187310/SANDIEGOZ] [8-AZA /SANDIEGOZ] | 4M,19D at the | time | of death | | | | |

| 23052951 Local ID: 188091 | | | | | | | | | | |
|-----------------------------|-------------------------------|----------------|------|---------------------|---------------------------------------|----------------|--------|--------------------|--|--|
| Individual | | Fiji banded ig | juan | a Enda | ngered (EN) | | Bra | chylophus bulabula | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Ow | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own | Date out | | |
| 19/May/1988 | Donation From FIJI MINI/NONE | l n | ln | SANDIEGOZ / 188091 | Death | Out | Out | 25/Aug/1998 | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Fiji / | | | | | |
| Enclosure | - | | | Birth Date/Age | ~ from 1/Jan/1985 to 1/Jan/1987 / 12Y | ,7M,24D at the | time o | of death | | |
| Rearing | Undetermined | | | Death Number | [0039632/SANDIEGOZ] | | | | | |
| <u>Dam</u> | [UNK / UNKNOWN] | | | Local ID | [188091/SANDIEGOZ] | | | | | |
| Sire | [UNK / UNKNOWN] | | | Regional Studbook # | [9-AZA /SANDIEGOZI | | | | | |

| 23052952 Local ID: 188092 | | | | | | | | | | | | |
|--|---|----------------|------|--|---|-------------------|------------|--------------------|--|--|--|--|
| Individual | | Fiji banded iç | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Own | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Owr</u> | Date out | | | | |
| 19/May/1988 | Donation From FIJI MINI/NONE | ln | ln | SANDIEGOZ / 188092 | Death | Out | Out | 3/Aug/1997 | | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Undetermined [UNK / UNKNOWN] [UNK / UNKNOWN] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch Fiji / ~ from 1/Jan/1984 to 1/Jan/1986 / 12' [0038200/SANDIEGOZ] [188092/SANDIEGOZ] [10-AZA /SANDIEGOZ] [00-0280-073/SANDIEGOZ] | Y,7M,2D at the ti | me of | death | | | | |

| Individual | Fiji band | ed iç | guan | a Endar | gered (EN) | | Bra | chylophus bulabula |
|-------------------|--|-------|------|---------------------|--|--------|--------|--------------------|
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 19/May/1988 | Donation From FIJI MINI/NONE | ln | ln | SANDIEGOZ / 188093 | Loan Out To FORTWORTH/905001 | Out | - | 17/May/1990 |
| 18/May/1990 | Loan In From Vendor: SANDIEGOZ/188093 | ln | - | FORTWORTH / 905001 | Loan Return To Owner SANDIEGOZ/188093 | Out | - | 19/Mar/1991 |
| 20/May/1991 | Loan Return to Us Sender: FORTWORTH/905001 | ln | - | SANDIEGOZ / 188093 | Loan Out To TULSA/12696 | Out | - | 30/Apr/1998 |
| 1/May/1998 | Loan In From Vendor: SANDIEGOZ/188093 | ln | - | TULSA / 12696 | Death | Out | - | 13/May/2013 |
| - | - | - | - | SANDIEGOZ / 188093 | Death (ownership only) | - | Out | 13/May/2013 |
| Sex/Contraception | Male / - | | | Birth Type | Wild Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Fiji / | | | |
| Enclosure | - | | | Birth Date/Age | ~ from 1/Jan/1984 to 1/Jan/1986 / 28Y,4M,12D | at the | time c | of death |
| Rearing | Undetermined | | | Local ID | [188093/SANDIEGOZ] | | | |
| Dam | [WILD / WILD] | | | Regional Studbook # | [11-AZA /SANDIEGOZ] | | | |
| Sire | [WILD / WILD] | | | | | | | |

27311553 | Local ID: 188093

| | 23052953 Local ID: 188094 | | | | | | | | | | | |
|-------------------|-------------------------------|---------------|------|---------------------|--|-----------------|-----------|---------------------|--|--|--|--|
| Individual | | Fiji banded i | guan | a Enda | angered (EN) | | Bra | achylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Ow</u> | n Date out | | | | |
| 19/May/1988 | Donation From FIJI MINI/NONE | ln . | ln | SANDIEGOZ / 188094 | Death | Out | Out | 3/Jul/1989 | | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Fiji / | | | | | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | ~ from 1/Jan/1985 to 1/Jan/1987 / 3Y,6 | M,2D at the tim | e of | death | | | | |
| Rearing | Undetermined | | | Death Number | [0026628/SANDIEGOZ] | | | | | | | |
| <u>Dam</u> | [UNK / UNKNOWN] | | | Local ID | [188094/SANDIEGOZ] | | | | | | | |
| Sire | [UNK / UNKNOWN] | | | Regional Studbook # | [74-AZA /SANDIEGOZ] | | | | | | | |

| 4057366 Local ID: 188095 | | | | | | | | | | |
|--|--|---|---|--|--|--------------------|--|--|--|--|
| Fiji band | led i | guan | a Endar | gered (EN) | | | chylophus bulabula | | | |
| Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | <u>Owr</u> | Date out | | | |
| Donation From FIJI MINI/NONE | ln | ln | SANDIEGOZ / 188095 | Loan Out To FORTWORTH/885002 | Out | - | 5/Aug/1988 | | | |
| Loan Return to Us Sender: FORTWORTH/885002 | ! In | - | SANDIEGOZ / 188095 | Death | Out | Out | 15/May/1991 | | | |
| Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Not a hybrid | | | Birth Location | Fiji / | | | | | | |
| - | | | Birth Date/Age | ~ from 1/Jan/1985 to 1/Jan/1987 / 5Y,4M,14 | D at the tir | ne of | death | | | |
| Undetermined | | | Death Number | [0029277/SANDIEGOZ] | | | | | | |
| [UNK / UNKNOWN] | | | Local ID | [188095/SANDIEGOZ] | | | | | | |
| [UNK / UNKNOWN] | | | Regional Studbook # | [12-AZA /SANDIEGOZ] | | | | | | |
| | Acquisition - Vendor/Local ID Donation From FIJI MINI/NONE Loan Return to Us Sender: FORTWORTH/885002 Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] | Acquisition - Vendor/Local ID Donation From FIJI MINI/NONE Loan Return to Us Sender: FORTWORTH/885002 In Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] | Fiji banded iguan Acquisition - Vendor/Local ID Phy Owr Donation From FIJI MINI/NONE In In In Loan Return to Us Sender: FORTWORTH/885002 In - Female / - Not a hybrid - Undetermined [UNK / UNKNOWN] | Fiji banded iguana Endar Acquisition - Vendor/Local ID Phy Own Reported By Donation From FIJI MINI/NONE In In SANDIEGOZ / 188095 Loan Return to Us Sender: FORTWORTH/885002 In - SANDIEGOZ / 188095 Female /- SANDIEGOZ / 188095 Birth Type Sirth Location Birth Date/Age Undetermined [UNK / UNKNOWN] Local ID | Fiji banded iguana Endangered (EN) Acquisition - Vendor/Local ID Phy Own Reported By Disposition - Recipient/Local ID Donation From FIJI MINI/NONE In SANDIEGOZ / 188095 Loan Out To FORTWORTH/885002 Loan Return to Us Sender: FORTWORTH/885002 In - SANDIEGOZ / 188095 Death Female /- SANDIEGOZ / 188095 Death Female /- SANDIEGOZ / 188095 Death Fiji / Captive Birth/Hatch Fiji / Fiji / Findetermined Fiji / Sirth Date/Age From 1/Jan/1985 to 1/Jan/1987 / 5Y,4M,14 Undetermined [0029277/SANDIEGOZ] [UNK / UNKNOWN] [188095/SANDIEGOZ] | Fiji banded iguans | Fiji banded iguans Endangered (EN) Brace (EN) Acquisition - Vendor/Local ID Phy Own Reported By Disposition - Recipient/Local ID Dath Out To FORTWORTH/885002 Out To FORTWOR | | | |

| 1/Jan/1950 | le . | Taxe | on r | Report Brachylop | nus | 10/Jul/202 | | 360 |
|---------------------------|--|----------|------------|--|---|--------------|------------|----------------------------|
| | | | 23 | 3052954 Local ID: | : 188096 | | | |
| Individual | Fiji ban | ded ia | uan | a Enda | ngered (EN) | | Brac | hylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | _ | | Reported By | Disposition - Recipient/Local ID | Phy | | Date out |
| 19/May/1988 | Donation From FIJI MINI/NONE | | ln | SANDIEGOZ / 188096 | Death | | | 21/Aug/1996 |
| Sex/Contraception | | | | Birth Type | | Out | Out . | 21/Aug/1990 |
| Hybrid Status | Female / - Not a hybrid | | | Birth Location | Captive Birth/Hatch Fiji / | | | |
| Enclosure | - | | | Birth Date/Age | ~ from 1/Jan/1985 to 1/Jan/1987 / 10Y,7M,2 | 20D at the t | ime of | death |
| Rearing | Undetermined | | | Death Number | [0037024/SANDIEGOZ] | | | |
| <u>Dam</u> | [UNK / UNKNOWN] | | | Local ID | [188096/SANDIEGOZ] | | | |
| <u>Sire</u> | [UNK / UNKNOWN] | | | Regional Studbook # | [13-AZA /SANDIEGOZ] | | | |
| | | (| CWI | F10-00328 Local I | D: 189174 | | | |
| Individual | Fiji ban | _ | | | ngered (EN) | Dhu | | hylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | | | Date out |
| 20/Jul/1989 | Birth/Hatch | | ln | SANDIEGOZ / 189174 | Loan Out To CINCINNAT/390055 | Out | | 3/Jul/1990 |
| 3/Jul/1990 | Loan In From Sender: SANDIEGOZ/189174 Vendor: SANDIEGOZ/189174 | ln | - | CINCINNAT / 390055 | Death (comparable and) | Out | | 13/May/1995 |
| Sex/Contraception | Female / - | - | - | SANDIEGOZ / 189174 Birth Type | Death (ownership only) | - | Out | 13/May/1995 |
| Hybrid Status | Pemale / - Not a hybrid | | | Birth Location | Captive Birth/Hatch San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 20/Jul/1989 / 5Y,9M,23D at the time of death | h | | |
| Rearing | Hand | | | Death Number | [RP5858/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 23052938 SANDIEGOZ / 187308] | | | Local ID | [189174/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 23052937 SANDIEGOZ / 187307] | | | Regional Studbook # | [14-AZA /SANDIEGOZ] | | | |
| | | | 8 | 227548 Local ID: | 189175 | | | |
| Individual | Fiji ban | ded ig | uan | a Enda | ngered (EN) | | Brac | hylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Own</u> | Date out |
| 21/Jul/1989 | Birth/Hatch | ln | ln | SANDIEGOZ / 189175 | Death | Out | Out | 26/Jul/1989 |
| Sex/Contraception | Undetermined / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 21/Jul/1989 / 0Y,0M,5D at the time of death | | | |
| Rearing | None | | | Death Number | [0026725/SANDIEGOZ] | | | |
| <u>Dam</u> Sire | [GAN: 23052938 SANDIEGOZ / 187308] | | | Local ID Regional Studbook # | [189175/SANDIEGOZ] | | | |
| <u> </u> | [GAN: 23052937 SANDIEGOZ / 187307] | | | Regional Studbook # | [70-AZA /SANDIEGOZ] | | | |
| | | | | 2-4057375 Local | | | | |
| Individual | Fiji ban | _ | | | ngered (EN) | Di | | hylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | Owr | Reported By | Disposition - Recipient/Local ID | | | Date out |
| 31/Jul/1989 | Birth/Hatch - | ln - | In - | SANDIEGOZ / 189183 SANDIEGOZ / 189183 | Loan Out To AUDUBON/R1084 Death (ownership only) | Out - | | 23/Mar/1993 25/Oct/1999 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | - Name | | | Birth Date/Age | 31/Jul/1989 / 10Y,2M,25D at the time of dea | ith | | |
| Rearing Dam | None [GAN: 23052938 SANDIEGOZ / 187308] | | | Death Number Local ID | [RP8160/SANDIEGOZ] [189183/SANDIEGOZ] | | | |
| Sire | [GAN: 23052936 SANDIEGOZ / 187307] | | | Regional Studbook # | [15-AZA /SANDIEGOZ] | | | |
| | [6,44,20002007 6,44512002 / 107007] | | | Transponder | [00-0779-290/SANDIEGOZ] | | | |
| | | | 8 | 227549 Local ID: | 189184 | | | |
| Individual | Fiji ban | ded ig | uan | a Enda | ngered (EN) | | Brac | hylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Own</u> | Date out |
| 31/Jul/1989 | Birth/Hatch | ln | ln | SANDIEGOZ / 189184 | Death | Out | Out | 1/Aug/1989 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| nclosure | - | | | Birth Date/Age | 31/Jul/1989 / 0Y,0M,1D at the time of death | | | |
| Rearing | None | | | Death Number | [0026744/SANDIEGOZ] | | | |
| <u>Dam</u> Bire | [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] | | | Local ID Regional Studbook # | [189184/SANDIEGOZ] [71-AZA /SANDIEGOZ] | | | |
| | | N | IIG1 | 2-4057376 Local | ID: 189190 | | | |
| Individual | Fiji ban | | | • | ngered (EN) | | Brac | hylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | _ | | Reported By | Disposition - Recipient/Local ID | Phy | | Date out |
| 3/Aug/1989 | Birth/Hatch | In | In | SANDIEGOZ / 189190 | Loan Out To KNOXVILLE/926 | Out | | 16/May/1990 |
| 8/Aug/1989 17/May/1990 | Loan In From Sender: SANDIEGOZ/189190 | in In | - | KNOXVILLE / 926 | Death | Out | | 18/Feb/1991 |

KNOXVILLE / 926

Birth Type

Local ID

Birth Location

Birth Date/Age

SANDIEGOZ / 189190

Regional Studbook #

8/Aug/1989 / 1Y,6M,11D at the time of death

Death (ownership only)

Death

Captive Birth/Hatch

[189190/SANDIEGOZ] [16-AZA /SANDIEGOZ]

San Diego Zoo

Out

18/Feb/1991

Out 19/Feb/1991

Male / -

Not a hybrid

Undetermined

Loan In From Sender: SANDIEGOZ/189190 Vendor: SANDIEGOZ/189190

[GAN: 23052939 | SANDIEGOZ / 187309]

[GAN: 23052951 | SANDIEGOZ / 188091]

17/May/1990

Hybrid Status

Enclosure

Rearing

Dam Sire

Sex/Contraception

| | | - | MIG1 | 2-8227551 Loca | I ID: 189191 | | | |
|-----------------------------------|--|--------|------------|---------------------------------|---|------------|-----|-----------------------------------|
| Individual | Fiji band | ded iç | guan | a Enda | ingered (EN) | | Bra | achylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Ow | n Date out |
| 9/Aug/1989 | Birth/Hatch | ln | ln | SANDIEGOZ / 189191 | Loan Out To KNOXVILLE/LI364 | Out | - | 16/May/1990 |
| 17/May/1990 | Loan In From Sender: SANDIEGOZ/189191 Vendor: SANDIEGOZ/189191 | ln | - | KNOXVILLE / 927 | Death | Out | - | 18/Nov/1991 |
| - | - | - | - | SANDIEGOZ / 189191 | Death (ownership only) | - | Out | 18/Nov/1991 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> Rearing | - Undetermined | | | Birth Date/Age Local ID | 9/Aug/1989 / 2Y,3M,9D at the time of death [189191/SANDIEGOZ] | | | |
| Dam . | Undetermined [GAN: 23052939 SANDIEGOZ / 187309] | | | Regional Studbook # | [169191/SANDIEGOZ] | | | |
| Sire | [GAN: 23052955 SANDIEGOZ / 188091] | | | | [11-1/2/1/0/110][[002] | | | |
| | | | | | | | _ | |
| | | | 8 | 227552 Local ID: | : 189192 | | | |
| Individual | Fiji ban | ded iç | guan | a Enda | ingered (EN) | | Bra | achylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Ow | n Date out |
| 9/Aug/1989 | Birth/Hatch | ln | ln | SANDIEGOZ / 189192 | Death | Out | Out | 9/Aug/1989 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> Rearing | - None | | | Birth Date/Age Death Number | 9/Aug/1989 / 0Y,0M,0D at the time of death [0026773/SANDIEGOZ] | | | |
| <u>Rearing</u> Dam | None [GAN: 23052939 SANDIEGOZ / 187309] | | | Local ID | [189192/SANDIEGOZ] | | | |
| Sire | [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook # | [72-AZA /SANDIEGOZ] | | | |
| | | | | 0.4057004.11 | UD 40007 | | | |
| Landbard 1 1 | . | | | 2-4057381 Local | | | _ | |
| Individual | Fiji band | | - | | ingered (EN) | | | achylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | <u>Disposition - Recipient/Local ID</u> | | Owi | n Date out |
| 21/Nov/1989 | Birth/Hatch | ln | ln | SANDIEGOZ / 189337 | Loan Out To ST LOUIS/920451 | | - | 28/Apr/1992 |
| 28/Apr/1992 | Loan In From Sender: SANDIEGOZ/189337 Vendor: SANDIEGOZ/189337 | ln | - | ST LOUIS / 920451 | Death | Out | - | 19/Nov/2005 |
| - | - | - | - | SANDIEGOZ / 189337 | Death (ownership only) | - | Out | 19/Nov/2005 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 21/Nov/1989 / 15Y,11M,29D at the time of death | | | |
| <u>Rearing</u> Dam | Undetermined [GAN: 23052939 SANDIEGOZ / 187309] | | | Death Number Local ID | [RP16537/SANDIEGOZ] [189337/SANDIEGOZ] | | | |
| Sire | [GAN: 23052959 GANDIEGOZ / 187509] [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook # | [18-AZA /SANDIEGOZ] | | | |
| | | | | | | | | |
| | | | | 227555 Local ID: | | | | |
| Individual | Fiji band | • | • | | Ingered (EN) | Dhu | | achylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | | | n Date out |
| 2/Dec/1989 | Birth/Hatch | ln | ln | SANDIEGOZ / 189353 | Death | Out | Out | 2/Dec/1989 |
| Sex/Contraception | Male / - | | | Birth Type Birth Location | Captive Birth/Hatch | | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo 2/Dec/1989 / 0Y,0M,0D at the time of death | | | |
| Rearing | None | | | Death Number | [0027184/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 23052939 SANDIEGOZ / 187309] | | | Local ID | [189353/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook # | [73-AZA /SANDIEGOZ] | | | |
| | | | 8 | 227598 Local ID: | . 190049 | | | |
| Individual | Fiji ban | ded i | | • | ingered (EN) | | Br | achylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | - | - | Reported By | Disposition - Recipient/Local ID | Phv | | n Date out |
| 23/Feb/1990 | Birth/Hatch | ln | In | SANDIEGOZ / 190049 | Death | | | 29/Jan/1994 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | Jul | Jul | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 23/Feb/1990 / 3Y,11M,6D at the time of death | | | |
| Rearing | None | | | Death Number | [0033513/SANDIEGOZ] | | | |
| <u>Dam</u> Sire | [GAN: 23052938 SANDIEGOZ / 187308] | | | Local ID Regional Studbook # | [190049/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 23052937 SANDIEGOZ / 187307] | | | Regional Studbook # Transponder | [19-AZA /SANDIEGOZ] [7F-7E60-4965/[Thigh/Inner,Right]/SANDIEGOZ] | | | |
| | | | | 227606 | . 100066 | | | |
| Individual | Eiii kan | | | 227600 Local ID: | | — | | achylonhus bulshul |
| | Fiji band | - | - | | Ingered (EN) | DI | | achylophus bulabula n Data out |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | _ | _ | n Date out |
| 7/Mar/1990 | Birth/Hatch | ln | ln | SANDIEGOZ / 190066 | Death | Out | Out | 30/Sep/1991 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo | | | |
| Enclosure Rearing | - None | | | Death Number | 7/Mar/1990 / 1Y,6M,23D at the time of death [0029927/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 23052938 SANDIEGOZ / 187308] | | | Local ID | [190066/SANDIEGOZ] | | | |
| Sire | [GAN: 23052937 SANDIEGOZ / 187307] | | | Regional Studbook # | [20-AZA /SANDIEGOZ] | | | |
| | | | | | | | | |

Printed: 10/Jul/2024

| Individual | | | CW | F10-00253 Local | ID: 190067 | | | |
|---|--|---|-------------------|--|---|------------|------------|--|
| | Fiji ban | ded iç | guan | a Enda | ngered (EN) | | Bra | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 9/Mar/1990 3/Jul/1990 | Birth/Hatch Loan In From Sender: SANDIEGOZ/190067 Vendor: SANDIEGOZ/190067 | In In | ln - | SANDIEGOZ / 190067 CINCINNAT / 390054 | Loan Out To CINCINNAT/390054 Death | | - | 3/Jul/1990 11/Jun/1991 |
| | - | - | - | SANDIEGOZ / 190067 | Death (ownership only) | - | Out | 11/Jun/1991 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| <u>lybrid Status</u> Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo | | | |
| Rearing | - Hand | | | Local ID | 9/Mar/1990 / 1Y,3M,2D at the time of death [190067/SANDIEGOZ] | | | |
| Dam Bire | [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] | | | Regional Studbook # | [21-AZA /SANDIEGOZ] | | | |
| | | | 10 | 0307395 Local ID | : 190068 | | | |
| Individual | Fiji ban | ded ic | | • | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | - | n Reported By | Disposition - Recipient/Local ID | Phy | | Date out |
| 9/Mar/1990 | Birth/Hatch | In | ln | SANDIEGOZ / 190068 | Death | Out | | 3/Oct/2003 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | ī. | | | Birth Date/Age | 9/Mar/1990 / 13Y,6M,24D at the time of death | | | |
| Rearing Dam | None [GAN: 23052954 SANDIEGOZ / 188096] | | | Death Number Local ID | [0046044/SANDIEGOZ] [190068/SANDIEGOZ] | | | |
| Sire | [GAN: 8230656 SANDIEGOZ / 186090] | | | Regional Studbook # | [22-AZA /SANDIEGOZ] | | | |
| | | | | Transponder | [00-0027-025/SANDIEGOZ] | | | |
| | | | 9 | 044110 Local ID: | 190198 | | | |
| Individual | Fiji ban | ded iç | guan | a Enda | ngered (EN) | | Bra | chylophus bulabu |
| oate in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owi | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Owr</u> | Date out |
| 9/Jul/1990 | Birth/Hatch | ln | ln | SANDIEGOZ / 190198 | Death | Out | Out | 18/Jun/2003 |
| ex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo | | | |
| Rearing | - None | | | Death Number | 19/Jul/1990 / 12Y,10M,30D at the time of death [0045714/SANDIEGOZ] | | | |
| Dam_ | [GAN: 23052954 SANDIEGOZ / 188096] | | | Local ID | [190198/SANDIEGOZ] | | | |
| <u> Sire</u> | [GAN: 8230656 SANDIEGOZ / 381224] | | | Regional Studbook # | [23-AZA /SANDIEGOZ] | | | |
| | | | | Transponder | [00-0782-64/SANDIEGOZ] | | | |
| | | | | 2-29901939 Loca | | | | |
| Individual | Fiji ban | _ | - | | ngered (EN) | | | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | | Owr | Date out |
| | Birth/Hatch Loan In From Vendor: SANDIEGOZ/190199 | In In | ln - | SANDIEGOZ / 190199 AUDUBON / R1083 | Loan Out To AUDUBON/R1083 Loan Return To Owner SANDIEGOZ/190199 | Out Out | - | 23/Mar/1993 16/Oct/1996 |
| | Loan Return to Us Sender: AUDUBON/R1083 | ln | - | SANDIEGOZ / 190199 | Loan Out To OMAHA/11329 | Out | - | 22/Sep/1999 |
| 24/Mar/1993 | | | - | SANDIEGOZ / 190199 | Death (ownership only) | _ | Out | 16/May/2012 |
| 21/Jul/1990 24/Mar/1993 17/Oct/1996 | - | - | | | | | | |
| 24/Mar/1993 7/Oct/1996 | - Male / - | - | | Birth Type | Captive Birth/Hatch | | | |
| 4/Mar/1993 7/Oct/1996 Sex/Contraception Hybrid Status | - | - | | Birth Location | San Diego Zoo | | | |
| 24/Mar/1993 17/Oct/1996 Sex/Contraception Hybrid Status Enclosure | - Male / - Not a hybrid - | - | | Birth Location Birth Date/Age | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death | | | |
| A/Mar/1993 7/Oct/1996 Ex/Contraception Bybrid Status Enclosure Bearing | - Male / - Not a hybrid - None | - | | Birth Location | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] | | | |
| 24/Mar/1993 17/Oct/1996 Sex/Contraception Hybrid Status | - Male / - Not a hybrid - | - | | Birth Location Birth Date/Age Death Number | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death | | | |
| 24/Mar/1993 17/Oct/1996 Sex/Contraception Hybrid Status Enclosure Rearing | - Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] | - | | Birth Location Birth Date/Age Death Number Local ID | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] [190199/SANDIEGOZ] | | | |
| 24/Mar/1993 7/Oct/1996 Sex/Contraception dybrid Status Enclosure Rearing Dam | - Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] | | 8 | Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] [190199/SANDIEGOZ] [24-AZA /SANDIEGOZ] [00-0062-519/SANDIEGOZ] | | | |
| 24/Mar/1993 7/Oct/1996 Sex/Contraception dybrid Status Enclosure Rearing Dam | - Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] | - - - - - - - - - - - - - - - - - - - | | Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] [190199/SANDIEGOZ] [24-AZA /SANDIEGOZ] [00-0062-519/SANDIEGOZ] | | Bra | chylophus bulabu |
| A/Mar/1993 7/Oct/1996 Sex/Contraception Allybrid Status Enclosure Rearing Dam Sire Individual | - Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] | | guan | Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] [190199/SANDIEGOZ] [24-AZA /SANDIEGOZ] [00-0062-519/SANDIEGOZ] | Phy | | ichylophus bulabu 1 <u>Date out</u> |
| 24/Mar/1993 7/Oct/1996 Sex/Contraception dybrid Status Enclosure Rearing Dam Sire | - Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] | | guan | Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 227724 Local ID: a Enda | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] [190199/SANDIEGOZ] [24-AZA/SANDIEGOZ] [00-0062-519/SANDIEGOZ] 190203 Ingered (EN) | | <u>Owr</u> | |
| A/Mar/1993 7/Oct/1996 Sex/Contraception Alphyrid Status Enclosure Etearing Dam Sire Individual Date in A/Jul/1990 Sex/Contraception | - Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji band Acquisition - Vendor/Local ID Birth/Hatch Female / - | Phy | guan <u>Ow</u> | Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 227724 Local ID: a Enda n Reported By SANDIEGOZ / 190203 Birth Type | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] [190199/SANDIEGOZ] [24-AZA /SANDIEGOZ] [00-0062-519/SANDIEGOZ] 190203 ngered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch | | <u>Owr</u> | Date out |
| 4/Mar/1993 7/Oct/1996 Sex/Contraception Lybrid Status Sinclosure Learing Learing Line Individual Loate in Lybrid Status Learing Lybrid Status Lybrid Status Lybrid Status Lybrid Status Lybrid Status Lybrid Status | - Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji bane Acquisition - Vendor/Local ID Birth/Hatch | Phy | guan <u>Ow</u> | Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 227724 Local ID: a Enda Reported By SANDIEGOZ / 190203 Birth Type Birth Location | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] [190199/SANDIEGOZ] [24-AZA /SANDIEGOZ] [00-0062-519/SANDIEGOZ] 190203 ngered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo | | <u>Owr</u> | Date out |
| 4/Mar/1993 7/Oct/1996 Ex/Contraception Dybrid Status Inclosure Examinating Individual Date in 4/Jul/1990 Ex/Contraception Dybrid Status Inclosure | - Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji bane Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - | Phy | guan <u>Ow</u> | Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 227724 Local ID: a Enda Reported By SANDIEGOZ / 190203 Birth Type Birth Location Birth Date/Age | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] [190199/SANDIEGOZ] [24-AZA /SANDIEGOZ] [00-0062-519/SANDIEGOZ] 190203 ngered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 24/Jul/1990 / 4Y,1M,8D at the time of death | | <u>Owr</u> | Date out |
| 4/Mar/1993 7/Oct/1996 ex/Contraception lybrid Status ncclosure learing lam ire Individual late in 4/Jul/1990 lex/Contraception lybrid Status | - Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji band Acquisition - Vendor/Local ID Birth/Hatch Female / - | Phy | guan <u>Ow</u> | Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 227724 Local ID: a Enda Reported By SANDIEGOZ / 190203 Birth Type Birth Location | San Diego Zoo 21/Jul/1990 / 21Y,9M,25D at the time of death [RP20695/SANDIEGOZ] [190199/SANDIEGOZ] [24-AZA /SANDIEGOZ] [00-0062-519/SANDIEGOZ] 190203 ngered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo | | <u>Owr</u> | Date out |

| | | М | IG1 | 2-29901941 Loca | al ID: 190204 | | | |
|--|--|---|--------------------------------|---|--|---------------------------|---------------------------------|---|
| Individual | Fiji ban | ded ig | uan | a Enda | angered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Own | Date out |
| 25/Jul/1990 | Birth/Hatch | ln | ln | SANDIEGOZ / 190204 | Loan Out To DALLAS/917232 | Out | - | 15/Aug/1991 |
| 16/Aug/1991 | Loan In From Sender: SANDIEGOZ/190365 | ln | - | DALLAS / 917232 | Loan Return To Owner SANDIEGOZ/190204 | Out | - | 19/Jul/1995 |
| 20/Jul/1995 | Vendor: SANDIEGOZ/190204 Loan Return to Us Sender: DALLAS/917232 | ln | | SANDIEGOZ / 190204 | Loan Out To AUDUBON/R1382 | Out | | 14/Oct/1996 |
| 6/Oct/1996 | Loan In From Vendor: SANDIEGOZ/190204 | | - | AUDUBON / R1382 | Loan Transfer To ST AUGUST/A01021 | Out | | 16/May/2001 |
| 10,000 | - | | - | SANDIEGOZ / 190204 | Loan out to (change in reported holder) ST | - | - | 16/May/2001 |
| | | | | | AUGUST/A01021 | | | |
| | - | - | - | SANDIEGOZ / 190204 | Loan out to (change in reported holder) CENTRALPK/C07056 | - | - | 24/May/2007 |
| 4/May/2007 | Loan In From Vendor: SANDIEGOZ/190204 | İn | - | CENTRALPK / C07056 | Death | Out | - | 19/Jun/2007 |
| | - | | - | SANDIEGOZ / 190204 | Death (ownership only) | - | Out | 19/Jun/2007 |
| ex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| nclosure | - | | | Birth Date/Age | 25/Jul/1990 / 16Y,10M,25D at the time of death | | | |
| learing Dam | Undetermined | | | Death Number Local ID | [RP13495/SANDIEGOZ] | | | |
| ire | [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] | | | Regional Studbook # | [190204/SANDIEGOZ] [26-AZA /SANDIEGOZ] | | | |
| <u>.</u> | [OAN. 0230000 OANDIEGO2 / 301224] | | | | [ZO-AZA/OANDILOOZ] | | | |
| | | N | /IIG1 | 2-6713024 Loca | I ID: 190240 | | | |
| Individual | Fiji ban | ded ig | Juan | a Enda | angered (EN) | | | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | | | Date out |
| 9/Jul/1990 4/Mar/1993 | Birth/Hatch | ln In | ln | SANDIEGOZ / 190240 | Loan Out To SAN ANTON/930331 | Out | - | 23/Mar/1993 1/Sep/2000 |
| 4/Mar/1993 | Loan In From Sender: SANDIEGOZ/190240 Vendor: SANDIEGOZ/190240 | ln | - | SAN ANTON / 930331 | Death | Out | - | 1/Sep/2000 |
| | - | - | - | SANDIEGOZ / 190240 | Death (ownership only) | - | Out | 1/Sep/2000 |
| ex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| ybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| nclosure | - | | | Birth Date/Age | 29/Jul/1990 / 10Y,1M,3D at the time of death | | | |
| earing | Undetermined | | | Death Number | [RP8370/SANDIEGOZ] | | | |
| <u>am</u> | [GAN: 23052954 SANDIEGOZ / 188096] | | | Local ID | [190240/SANDIEGOZ] | | | |
| <u>ire</u> | [GAN: 8230656 SANDIEGOZ / 381224] | | | Regional Studbook # Transponder | [27-AZA /SANDIEGOZ] [00-0067-346/SANDIEGOZ] | | | |
| | | | | | [00 0007 0 10/0/11/12/202] | | | |
| | | | | | | | | |
| | | | 8 | 227747 Local ID: | : 190241 | | | |
| Individual | Fiji ban | ded ig | | | : 190241 angered (EN) | | Bra | chylophus bulabu |
| | Fiji ban <u>Acquisition - Vendor/Local ID</u> | _ | juan | | | Phy | | chylophus bulabu <u>Date out</u> |
| Date in | | _ | juan | a Enda | angered (EN) | Phy Out | Own | |
| Date in 9/Jul/1990 | Acquisition - Vendor/Local ID Birth/Hatch | Phy | uan <u>Owr</u> | Enda Reported By SANDIEGOZ / 190241 | angered (EN) <u>Disposition - Recipient/Local ID</u> Death | | Own | Date out |
| Date in 9/Jul/1990 Sex/Contraception | Acquisition - Vendor/Local ID | Phy | uan <u>Owr</u> | a Enda | angered (EN) <u>Disposition - Recipient/Local ID</u> | | Own | Date out |
| Date in 19/Jul/1990 Sex/Contraception Hybrid Status Enclosure | Acquisition - Vendor/Local ID Birth/Hatch Male / - | Phy | uan <u>Owr</u> | a Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age | angered (EN) <u>Disposition - Recipient/Local ID</u> Death Captive Birth/Hatch | | Own | Date out |
| Oate in 29/Jul/1990 Sex/Contraception Hybrid Status Enclosure Rearing | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None | Phy | uan <u>Owr</u> | a Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] | | Own | Date out |
| Date in 29/Jul/1990 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] | Phy | uan <u>Owr</u> | Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] | | Own | Date out |
| Date in 9/Jul/1990 sex/Contraception lybrid Status inclosure learing lam | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None | Phy | uan <u>Owr</u> | a Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA/SANDIEGOZ] | Out | Owr Out | Date out |
| Pate in 9/Jul/1990 ex/Contraception lybrid Status nclosure earing am | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] | Phy In | juan <u>Owr</u> In | a Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SA | Out | Owr Out | Date out |
| Pate in 9/Jul/1990 ex/Contraception ybrid Status nclosure earing am ire | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] | Phy In | Owr In | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SA | Out | Owr Out | Date out 19/Sep/1997 |
| Pate in 9/Jul/1990 ex/Contraception ybrid Status nclosure earing am ire | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban | Phy n | Owr h | a Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Local | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI | Out | Out Oz] | Date out 19/Sep/1997 chylophus bulabu |
| Pate in 9/Jul/1990 ex/Contraception lybrid Status nclosure learing lam ire Individual late in | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID | Phy In M ded ig | Owr In Owr | Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Local Reported By | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI | Out NDIEG | Owr Out OZ] Bra Owr | Date out 19/Sep/1997 chylophus bulabu |
| Pate in 9/Jul/1990 iex/Contraception lybrid Status inclosure learing lam iire Individual Date in 5/Oct/1990 | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch | Phy In Mided ig Phy In | Owr h | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Location Reported By SANDIEGOZ / 190343 | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI II D: 190343 angered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 | Out NDIEG Phy Out | Out Out OZ] Bra Owr | chylophus bulabu Date out 15/Aug/1991 |
| Pate in 9/Jul/1990 iex/Contraception lybrid Status inclosure learing lam iire Individual Date in 5/Oct/1990 | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID | Phy In M ded ig | Owr In Owr | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Local A Reported By SANDIEGOZ / 190343 DALLAS / 917233 | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI ID: 190343 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death | Out NDIEG | Owr Out | chylophus bulabu Date out 19/Sep/1997 chylophus bulabu Date out 15/Aug/1991 25/Mar/1994 |
| Individual Date in 29/Jul/1990 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 25/Oct/1990 6/Aug/1991 | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 | Phy In Mided ig Phy In | Owr In Owr | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Location A Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI AI ID: 190343 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) | Out NDIEG Phy Out | Owr Out | Date out 19/Sep/1997 chylophus bulabu Date out 15/Aug/1991 |
| Pate in 9/Jul/1990 ex/Contraception lybrid Status inclosure learing lam lire Individual Date in 5/Oct/1990 6/Aug/1991 | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - | Phy In Mided ig Phy In | Owr In Owr | A Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Loca Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI ID: 190343 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch | Out NDIEG Phy Out | Owr Out | chylophus bulabu 15/Aug/1991 25/Mar/1994 |
| Pate in 9/Jul/1990 ex/Contraception plybrid Status inclosure learing lam life Individual Date in 5/Oct/1990 6/Aug/1991 ex/Contraception plybrid Status | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 | Phy In Mided ig Phy In | Owr In Owr | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Location A Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI AI ID: 190343 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) | Out NDIEG Phy Out | Owr Out | chylophus bulabu 15/Aug/1991 25/Mar/1994 |
| Pate in 9/Jul/1990 ex/Contraception lybrid Status nclosure earing lam ire Individual Date in 5/Oct/1990 6/Aug/1991 ex/Contraception lybrid Status nclosure | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - | Phy In Mided ig Phy In | Owr In Owr | a Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Local Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type Birth Location Birth Date/Age Local ID | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI AI ID: 190343 angered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] | Out NDIEG Phy Out | Owr Out | chylophus bulabu 15/Aug/1991 25/Mar/1994 |
| ate in 9/Jul/1990 ex/Contraception yybrid Status nclosure earing am ire Individual late in 5/Oct/1990 6/Aug/1991 ex/Contraception yybrid Status nclosure earing am | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] | Phy In Mided ig Phy In | Owr In | a Enda A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Location Birth Date/Age Local ID Physical characteristic | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI AI ID: 190343 angered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] | Out NDIEG Phy Out | Owr Out | chylophus bulabu 15/Aug/1991 25/Mar/1994 |
| Date in 9/Jul/1990 Sex/Contraception Dybrid Status Sinclosure Status S | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined | Phy In Mided ig Phy In | Owr In | a Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Local Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type Birth Location Birth Date/Age Local ID | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI AI ID: 190343 angered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] | Out NDIEG Phy Out | Owr Out | chylophus bulabu Date out 19/Sep/1997 chylophus bulabu Date out 15/Aug/1991 25/Mar/1994 |
| Pate in 9/Jul/1990 ex/Contraception lybrid Status nclosure learing lam lire Individual Pate in 5/Oct/1990 6/Aug/1991 ex/Contraception lybrid Status nclosure learing lam learing learing learing lam learing lam learing lam | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] | Phy In Mided ig Phy In | UIG1: | a Enda A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Location Birth Date/Age Local ID Physical characteristic | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI IID: 190343 angered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] [Imperfection/[Tail/-]/SANDIEGOZ] [29-AZA/SANDIEGOZ] | Out NDIEG Phy Out | Owr Out | chylophus bulabu 15/Aug/1991 25/Mar/1994 |
| Pate in 9/Jul/1990 ex/Contraception lybrid Status nclosure learing lam lire Individual Pate in 5/Oct/1990 6/Aug/1991 ex/Contraception lybrid Status nclosure learing lam lire earing lam lire | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] | M ded ig Phy h | Juan Owr In Owr In | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Doath Number Local ID Regional Studbook # Transponder 2-13055972 Loca A Enda Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type Birth Location Birth Date/Age Local ID Physical characteristic Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI IID: 190343 angered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] [Imperfection/[Tail/-]/SANDIEGOZ] [29-AZA/SANDIEGOZ] | Out NDIEG Phy Out | Owr Out | chylophus bulabu 19/Sep/1997 chylophus bulabu 10 Date out 15/Aug/1991 25/Mar/1994 25/Mar/1994 |
| ate in 9/Jul/1990 ex/Contraception yybrid Status nclosure earing am ire Individual late in 5/Oct/1990 6/Aug/1991 ex/Contraception yybrid Status nclosure earing am ire | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | M ded ig Phy In | IIG1: Iuan Owr In 19 | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Doath Number Local ID Regional Studbook # Transponder 2-13055972 Loca A Enda Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type Birth Location Birth Date/Age Local ID Physical characteristic Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI ID: 190343 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] [Imperfection/[Tail/-]/SANDIEGOZ] [29-AZA /SANDIEGOZ] | Out NDIEG Phy Out Out - | Owr Out OZ] Bra Owr - Out | Date out 19/Sep/1997 chylophus bulabu Date out 15/Aug/1991 25/Mar/1994 25/Mar/1994 |
| ate in 9/Jul/1990 ex/Contraception yybrid Status nclosure earing am ire Individual eate in 6/Oct/1990 6/Aug/1991 ex/Contraception yybrid Status nclosure earing am ire | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | M ded ig Phy In | IIG1: Iuan Owr In 19 | Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Local Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type Birth Location Birth Date/Age Local ID Physical characteristic Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI ID: 190343 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] [Imperfection/[Tail/-]/SANDIEGOZ] [29-AZA /SANDIEGOZ] 1: 190344 Ingered (EN) | Out NDIEG Phy Out - | Owr Out Bra Out Bra Owr | chylophus bulabu Date out 19/Sep/1997 chylophus bulabu Date out 15/Aug/1991 25/Mar/1994 chylophus bulabu chylophus bulabu |
| Pate in 9/Jul/1990 ex/Contraception lybrid Status nclosure learing lam lire Individual Pate in 5/Oct/1990 6/Aug/1991 ex/Contraception lybrid Status nclosure learing lam lire Individual ex/Contraception lybrid Status nclosure learing lam lire Individual Pate in 7/Oct/1990 | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] Fiji ban Acquisition - Vendor/Local ID | Phy In M ded ig Phy In | UIG1: | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Local A Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type Birth Location Birth Date/Age Local ID Physical characteristic Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI ID: 190343 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] [Imperfection/[Tail/-]/SANDIEGOZ] [29-AZA /SANDIEGOZ] 1: 190344 Ingered (EN) Disposition - Recipient/Local ID | Out NDIEG Phy Out - | Owr Out Bra Out Bra Owr | chylophus bulabu Date out 19/Sep/1997 chylophus bulabu Date out 15/Aug/1991 25/Mar/1994 25/Mar/1994 |
| Pate in 9/Jul/1990 ex/Contraception lybrid Status nclosure learing lam ire Individual Pate in 5/Oct/1990 6/Aug/1991 ex/Contraception lybrid Status nclosure learing lam ire Individual ex/Contraception lybrid Status nclosure learing lam ire Individual ex/Contraception lybrid Status nclosure learing lam ire Individual ex/Contraception ex/Contraception | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch | Phy In M ded ig Phy In | UIG1: | a Enda Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Local a Enda Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type Birth Location Birth Date/Age Local ID Physical characteristic Regional Studbook # 0978396 Local ID a Enda Reported By SANDIEGOZ / 190344 | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI AI ID: 190343 angered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] [29-AZA/SANDIEGOZ] [29-AZA/SANDIEGOZ] [29-AZA/SANDIEGOZ] D: 190344 Engered (EN) Disposition - Recipient/Local ID Death | Out NDIEG Phy Out - | Owr Out Bra Out Bra Owr | chylophus bulabu Date out 19/Sep/1997 chylophus bulabu Date out 15/Aug/1991 25/Mar/1994 25/Mar/1994 |
| Date in 9/Jul/1990 ex/Contraception lybrid Status inclosure learing lea | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052931 SANDIEGOZ / 188091] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Female / - | Phy In M ded ig Phy In | UIG1: | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder 2-13055972 Local A Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type Birth Location Birth Date/Age Local ID Physical characteristic Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [00-1025-789/SAI ID: 190343 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] [29-AZA /SANDIEGOZ] [29-AZA /SANDIEGOZ] 1: 190344 Ingered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch | Out NDIEG Phy Out - | Owr Out Bra Out Bra Owr | chylophus bulabu Date out 19/Sep/1997 chylophus bulabu Date out 15/Aug/1991 25/Mar/1994 25/Mar/1994 |
| Date in 19/Jul/1990 iex/Contraception lybrid Status inclosure tearing Dam bire Individual Date in 15/Oct/1990 | Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 8230656 SANDIEGOZ / 381224] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190343 Vendor: SANDIEGOZ/190343 - Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052931 SANDIEGOZ / 188091] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Female / - | Phy In M ded ig Phy In | UIG1: | A Reported By SANDIEGOZ / 190241 Birth Type Birth Location Birth Date/Age Doath Number Local ID Regional Studbook # Transponder 2-13055972 Loca A Enda Reported By SANDIEGOZ / 190343 DALLAS / 917233 SANDIEGOZ / 190343 Birth Type Birth Location Birth Date/Age Local ID Physical characteristic Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 29/Jul/1990 / 7Y,1M,21D at the time of death [0038344/SANDIEGOZ] [190241/SANDIEGOZ] [28-AZA /SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [7F-7E60-4344/SANDIEGOZ] [100-1025-789/SAI ID: 190343 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DALLAS/917233 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 25/Oct/1990 / 3Y,5M,0D at the time of death [190343/SANDIEGOZ] Imperfection/[Tail/-]/SANDIEGOZ] I: 190344 Ingered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo | Out NDIEG Phy Out - | Owr Out Bra Out Bra Owr | chylophus bulabu 19/Sep/1997 chylophus bulabu 1 Date out 15/Aug/1991 25/Mar/1994 25/Mar/1994 |

Copyright, Species360, 2024. All rights reserved.

| 1/Jan/1950 | | . ux | · · · · · | Teport Brachylop | | 10/Jul/20 | | 360 |
|--|---|-----------------|------------------|--|---|-------------------|-----|--|
| | | | MIG1 | 2-4057391 Local | ID: 190355 | | | |
| Individual | Fiji ban | ded i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owr | n Date out |
| 30/Oct/1990 28/Apr/1992 | Birth/Hatch Loan In From Sender: SANDIEGOZ/190355 Vendor: SANDIEGOZ/190355 | In In | In - | SANDIEGOZ / 190355 ST LOUIS / 920452 | Loan Out To ST LOUIS/920452 Death | Out Out | | 28/Apr/1992 18/Oct/1995 |
| - | - | - | - | SANDIEGOZ / 190355 | Death (ownership only) | - | Out | 18/Oct/1995 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 30/Oct/1990 / 4Y,11M,18D at the time of dea [190355/SANDIEGOZ] [31-AZA /SANDIEGOZ] | th | | |
| | | | CWI | F10-00325 Local | ID: 190362 | | | |
| Individual | Fiji ban | ded i | quan | a Enda | ngered (EN) | | Bra | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | • | _ | n Reported By | Disposition - Recipient/Local ID | Phv | | n Date out |
| 3/Nov/1990 | Birth/Hatch | ln | ln | SANDIEGOZ / 190362 | Loan Out To CINCINNAT/393126 | Out | | 4/May/1993 |
| 5/May/1993 | Loan In From Sender: SANDIEGOZ/190362 Vendor: SANDIEGOZ/190362 | ln | - | CINCINNAT / 393126 | Death | Out | | 29/Jul/2004 |
| - Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | - Male / - Not a hybrid - Hand [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | SANDIEGOZ / 190362 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Death (ownership only) Captive Birth/Hatch San Diego Zoo 3/Nov/1990 / 13Y,8M,26D at the time of deat [RP11250/SANDIEGOZ] [190362/SANDIEGOZ] [32-AZA /SANDIEGOZ] [7F-7E60-470D/SANDIEGOZ] | h | Jul | 29/Jul/2004 |
| | | | CWI | F10-00327 Local | ID: 190363 | | | |
| Individual | Fiji ban | • | _ | | ngered (EN) | | | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | | n Reported By | Disposition - Recipient/Local ID | | | n Date out |
| 21/Nov/1990 1/Oct/1991 | Birth/Hatch Loan In From Sender: SANDIEGOZ/190363 Vendor: SANDIEGOZ/190363 | In In | In - | SANDIEGOZ / 190363 CINCINNAT / 391062 SANDIEGOZ / 190363 | Loan Out To CINCINNAT/391062 Death Death (ownership only) | Out Out | - | 1/Oct/1991 1/Mar/2000 1/Mar/2000 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Hand [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | _ | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 21/Nov/1990 / 9Y,3M,9D at the time of death [RP15440/SANDIEGOZ] [190363/SANDIEGOZ] [33-AZA /SANDIEGOZ] | | Out | //wa/2000 |
| | | | 8 | 227834 Local ID: | 190364 | | | |
| Individual | Fiji ban | ded i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | n Reported By | Disposition - Recipient/Local ID | <u>Ph</u> y | Owr | n Date out |
| 27/Nov/1990 | Birth/Hatch | ln | ln | SANDIEGOZ / 190364 | Death | Out | Out | 10/Apr/1992 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam | Female / - Not a hybrid - None [GAN: 23052940 SANDIEGOZ / 187310] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID | Captive Birth/Hatch San Diego Zoo 27/Nov/1990 / 1Y,4M,14D at the time of deat [0030671/SANDIEGOZ] [190364/SANDIEGOZ] | h | | |
| <u>Sire</u> | [GAN: 23052952 SANDIEGOZ / 188092] | | | Regional Studbook # | [34-AZA /SANDIEGOZ] | | | |
| In all of decay | | | | 2-8321742 Local | | | | ahulank |
| Individual | Fiji ban | • | _ | | ngered (EN) | . | | ichylophus bulabula |
| Date in 29/Nov/1990 16/Aug/1991 | Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/190365 | Phy In In | <u>Owr</u> In | SANDIEGOZ / 190365 | Disposition - Recipient/Local ID Loan Out To DALLAS/917234 Death | Phy Out Out | - | 1 Date out 15/Aug/1991 12/Mar/1995 |
| 16/Aug/1991 | Vendor: SANDIEGOZ/190365 | - | | DALLAS / 917234 SANDIEGOZ / 190365 | Death (ownership only) | - Out | | 12/Mar/1995 |

SANDIEGOZ / 190365

Birth Type

Local ID

Birth Location

Birth Date/Age

Death Number

Regional Studbook #

Death (ownership only)

29/Nov/1990 / 4Y,3M,12D at the time of death

Captive Birth/Hatch

[RP5550/SANDIEGOZ]

[190365/SANDIEGOZ]

[35-AZA /SANDIEGOZ]

San Diego Zoo

Out 12/Mar/1995

Copyright, Species360, 2024. All rights reserved.

Female / -

Not a hybrid

Undetermined

[GAN: 23052940 | SANDIEGOZ / 187310] [GAN: 23052952 | SANDIEGOZ / 188092]

Sex/Contraception

Hybrid Status

Enclosure

Rearing

Dam

Sire

| | | | 19 | 9978399 Local ID | : 190366 | | | |
|--|---|-------|------|--|--|-----|-----|--------------------|
| Individual | Fiji band | ded i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 4/Dec/1990 | Birth/Hatch | ln | ln | SANDIEGOZ / 190366 | Death | Out | Out | 31/Mar/2006 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 23052940 SANDIEGOZ / 187310] [GAN: 23052952 SANDIEGOZ / 188092] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 4/Dec/1990 / 15Y,3M,27D at the time of death [0048816/SANDIEGOZ] [190366/SANDIEGOZ] [36-AZA /SANDIEGOZ] | | | |
| | | | 8 | 3227841 Local ID: | 191005 | | | |
| Individual | Fiji band | ded i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 30/Jan/1991 | Birth/Hatch | ln | ln | SANDIEGOZ / 191005 | Death | Out | Out | 18/Jul/1997 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 30/Jan/1991 / 6Y,5M,18D at the time of death [0038134/SANDIEGOZ] [191005/SANDIEGOZ] [37-AZA /SANDIEGOZ] [7F-7E60-4246/SANDIEGOZ] | | | |

| 6713031 Local ID: 191006 | | | | | | | | | |
|--|---|--------|------|---|--|------------|-----------------------|-------------|--|
| Individual | Fiji band | led iç | guan | a Endar | ngered (EN) | | Brachylophus bulabula | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owi | n Date out | |
| 31/Jan/1991 | Birth/Hatch | ln | ln | SANDIEGOZ / 191006 | Loan Out To CYCLURARC/NONE | Out | - | 1/Oct/1992 | |
| 7/Mar/1995 | Loan Return to Us Sender: CYCLURARC/NONE | ln | - | SANDIEGOZ / 191006 | Loan Out To TOLEDO/973150 | Out | - | 3/Sep/1997 | |
| 4/Sep/1997 | Loan In From Sender: SANDIEGOZ/191006 Vendor: SANDIEGOZ/191006 | ln | - | TOLEDO / 973150 | Death | Out | - | 24/Aug/2012 | |
| - | - | - | - | SANDIEGOZ / 191006 | Death (ownership only) | - | Out | 24/Aug/2012 | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Undetermined [GAN: 23052940 SANDIEGOZ / 187310] [GAN: 23052952 SANDIEGOZ / 188092] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 31/Jan/1991 / 21Y,6M,24D at the time of death [191006/SANDIEGOZ] [38-AZA /SANDIEGOZ] | | | | |

| MIG12-6713032 Local ID: 191007 | | | | | | | | | |
|--|--|-----|-----|--|---|-----|-----|---------------------|--|
| Individual | Fiji banded iguana Endangered (EN) B | | | | | | | achylophus bulabula | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owi | n Date out | |
| 1/Feb/1991 | Birth/Hatch | ln | ln | SANDIEGOZ / 191007 | Loan Out To SAN ANTON/930332 | Out | - | 23/Mar/1993 | |
| 24/Mar/1993 | Loan In From Sender: SANDIEGOZ/191007 Vendor: SANDIEGOZ/191007 | ln | - | SAN ANTON / 930332 | Death | Out | - | 22/Oct/2002 | |
| - | - | - | - | SANDIEGOZ / 191007 | Death (ownership only) | - | Out | 22/Oct/2002 | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - Parent [GAN: 23052940 SANDIEGOZ / 187310] [GAN: 23052952 SANDIEGOZ / 188092] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 1/Feb/1991 / 11Y,8M,21D at the time of death [RP9724/SANDIEGOZ] [191007/SANDIEGOZ] [42-AZA /SANDIEGOZ] [7F-7E60-491D/SANDIEGOZ] | | | | |

| | 8227853 Local ID: 191022 | | | | | | | | | | |
|--|--------------------------------------|-----|-----|-------------------|--|------------|-----|-------------|--|--|--|
| Individual Fiji banded iguana Endangered (EN) Brachylophus | | | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own | Date out | | | |
| 21/Feb/1991 | Birth/Hatch | ln | ln | SANDIEGOZ / 19102 | Death | Out | Out | 20/Mar/1992 | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 21/Feb/1991 / 1Y,0M,28D at the time of death | | | | | | |
| Rearing | None | | | Death Number | [0030571/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 23052939 SANDIEGOZ / 187309] | | | Local ID | [191022/SANDIEGOZ] | | | | | | |
| Sire | [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook | # [39-AZA /SANDIEGOZ] | | | | | | |

Copyright, Species360, 2024. All rights reserved.

| | | | CW | F10-00326 Loc | al ID: 191070 | | | |
|--|--|---------------------------|-----------------------------|---|--|------------------------|---------------------------|--|
| Individual | Fiii hon | 404; | | • | | | Due | ahulanhua hulahul |
| Individual Date in | Fiji ban Acquisition - Vendor/Local ID | | _ | na En n <u>Reported By</u> | dangered (EN) Disposition - Recipient/Local ID | Phy | | achylophus bulabul n Date out |
| 6/Apr/1991 | Birth/Hatch | In | In | SANDIEGOZ / 19107 | | | - | 10/Jan/1992 |
| 1/Oct/1991 | Loan In From Vendor: SANDIEGOZ/191070 | ln | - | CINCINNAT / 391063 | | Out | - | 3/Feb/1993 |
| | - | - | - | SANDIEGOZ / 19107 | | - | Out | 3/Feb/1993 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| nclosure | - | | | Birth Date/Age | 6/Apr/1991 / 1Y,9M,28D at the time of death | | | |
| Rearing | Hand | | | Death Number | [RP5222 /SANDIEGOZ] | | | |
| <u>Dam</u> Bire | [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Local ID Regional Studbook | [191070/SANDIEGOZ] <u></u> [40-AZA /SANDIEGOZ] | | | |
| | [OAN. 20002901 OANDIECOZ7 100091] | | | | - [HUNZA /OANDIEGOZ] | | | |
| | | | 8 | 227909 Local I | D: 191082 | | | |
| Individual | Fiji ban | ded i | guan | ia En | dangered (EN) | | Bra | achylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Ow | n Date out |
| 15/Apr/1991 | Birth/Hatch | ln | ln | SANDIEGOZ / 19108 | 2 Death | Out | Out | 7/Jun/1991 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| nclosure | - | | | Birth Date/Age | 15/Apr/1991 / 0Y,1M,23D at the time of death | | | |
| Rearing | None | | | Death Number | [0029426/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 23052939 SANDIEGOZ / 187309] | | | Local ID | [191082/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook | £ [75-AZA /SANDIEGOZ] | | | |
| | | | 6 | 713034 Local I | D: 191132 | | | |
| Individual | Fiji ban | ded i | guan | a En | dangered (EN) | | Bra | achylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | Phy | Owi | n Date out |
| /Jun/1991 | Birth/Hatch | ln | ln | SANDIEGOZ / 19113 | | Out | | 15/Aug/1991 |
| 6/Aug/1991 | Loan In From Sender: SANDIEGOZ/191132 | ln | - | DALLAS / 917231 | Loan Return To Owner SANDIEGOZ/191132 | Out | | 19/Jul/1995 |
| | Vendor: SANDIEGOZ/191132 | | | | | | | |
| :0/Jul/1995 | Loan Return to Us Sender: DALLAS/917231 | ln | - | SANDIEGOZ / 19113 | 2 Death | Out | Out | 15/Aug/2011 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> Rearing | - Undetermined | | | Birth Date/Age Death Number | 3/Jun/1991 / 20Y,2M,12D at the time of death | | | |
| \earing | | | | Local ID | [0054395/SANDIEGOZ] [191132/SANDIEGOZ] | | | |
| Dam | [GAN: 23052938 SANDIEGOZ / 187308] | | | | [101102/0/11002] | | | |
| Dam Bire | [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] | | | Regional Studbook | [43-AZA /SANDIEGOZ] | | | |
| | [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] | | | | | | | |
| Sire | [GAN: 23052937 SANDIEGOZ / 187307] | | | 12-6713035 Loc | eal ID: 191146 | | Brs | achylonhus hulahu |
| Individual | [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban | ded i | guan | 12-6713035 Loc | cal ID: 191146 | Dhu | | • • |
| Individual Date in | [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban Acquisition - Vendor/Local ID | ded i | guan <u>Ow</u> | 12-6713035 Loc a En n <u>Reported By</u> | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID | | | n Date out |
| Individual Date in 7/Jun/1991 | [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch | ded i Phy | guan <u>Ow</u> | 12-6713035 Loc na En n Reported By SANDIEGOZ / 19114 | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE | Out | Owi | n <u>Date out</u> 1/Oct/1992 |
| Individual Date in 7/Jun/1991 //Mar/1995 | [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE | ded i Phy In In | guan <u>Ow</u> | I2-6713035 Loc la En n Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID Loan Out To CYCLURARC/NONE Loan Out To TOLEDO/973151 | Out Out | | 1/Oct/1992 3/Sep/1997 |
| Individual Date in 7/Jun/1991 //Mar/1995 | [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch | ded i Phy | guan <u>Ow</u> | 12-6713035 Loc na En n Reported By SANDIEGOZ / 19114 | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE | Out Out | <u>Owi</u> - - | n <u>Date out</u> 1/Oct/1992 |
| Individual Date in 7/Jun/1991 //Mar/1995 | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 | ded i Phy In In | guan <u>Ow</u> | I2-6713035 Loc la En n Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death | Out Out | <u>Owi</u> - - - | 1/Oct/1992 3/Sep/1997 |
| Individual Date in 7/Jun/1991 //Mar/1995 //Sep/1997 | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 | ded i Phy In In | guan Owi In - | 12-6713035 Loc na En n Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death | Out Out | <u>Owi</u> - - - | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 |
| Individual Date in 7/Jun/1991 7/Mar/1995 6/Sep/1997 | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 | ded i Phy In In | guan Owi In - | 12-6713035 Loc na En n Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) | Out Out | <u>Owi</u> - - - | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 |
| Individual Date in 17/Jun/1991 7/Mar/1995 4/Sep/1997 Sex/Contraception dybrid Status Enclosure | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - | ded i Phy In In | guan Owi In - | I2-6713035 Loc Ia En Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat | Out Out Out | <u>Owi</u> - - - | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 |
| Individual Date in 17/Jun/1991 17/Jun/1995 4/Sep/1997 Sex/Contraception 4/brid Status Enclosure Rearing | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined | ded i Phy In In | guan Owi In - | I2-6713035 Loc Ia En Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age Death Number | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] | Out Out Out | <u>Owi</u> - - - | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 |
| Individual Date in 17/Jun/1991 7/Mar/1995 4/Sep/1997 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] | ded i Phy In In | guan Owi In - | I2-6713035 Loc Ia En Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age Death Number Local ID | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID Loan Out To CYCLURARC/NONE Loan Out To TOLEDO/973151 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] | Out Out Out | <u>Owi</u> - - - | 1/Oct/1992 3/Sep/1997 16/Sep/2008 |
| Individual Date in 17/Jun/1991 17/Jun/1995 4/Sep/1997 Sex/Contraception 4/brid Status Enclosure Rearing | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined | ded i Phy In In | guan Owi In - | I2-6713035 Loc Ia En Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age Death Number | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID Loan Out To CYCLURARC/NONE Loan Out To TOLEDO/973151 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] | Out Out Out | <u>Owi</u> - - - | Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 |
| Individual Date in 17/Jun/1991 17/Mar/1995 1/Sep/1997 Sex/Contraception 14/brid Status Enclosure Rearing Dam | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] | ded i Phy In In | guan Owi | I2-6713035 Loc Ia En Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age Death Number Local ID | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] [44-AZA /SANDIEGOZ] | Out Out Out | <u>Owi</u> - - - | Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 |
| Individual Date in 7/Jun/1991 7/Jun/1995 Jun/1997 Sex/Contraception Hybrid Status Enclosure Rearing Dam Bire Individual | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] | ded i Phy In In In In | guan Own In - - | I2-6713035 Local I | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] £ [44-AZA /SANDIEGOZ] D: 191150 dangered (EN) | Out Out Out - | Own | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 16/Sep/2008 |
| Individual Date in 7/Jun/1991 //Mar/1995 //Sep/1997 Sex/Contraception hybrid Status finclosure learing learing learing line Individual | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] | ded i Phy In In In In | guan Own In - - | I 2-6713035 Local I | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] £ [44-AZA /SANDIEGOZ] D: 191150 | Out Out Out - | Own | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 |
| Individual Date in 7/Jun/1991 //Mar/1995 //Sep/1997 Sex/Contraception Bybrid Status Enclosure Bearing Dam Bire Individual Date in | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] | ded i Phy In In In In | guan Own In - - | I2-6713035 Local I | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 16 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] [44-AZA /SANDIEGOZ] D: 191150 dangered (EN) Disposition - Recipient/Local ID | Out Out Out | Own | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 16/Sep/2008 |
| Individual Date in 17/Jun/1991 17/Mar/1995 1/Sep/1997 Sex/Contraception 14/brid Status Enclosure Rearing Dam | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban Acquisition - Vendor/Local ID | ded i Phy In In In In Phy | guan Own In guan Own | I2-6713035 Local ID Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook in S227973 Local ID In Reported By | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] [44-AZA /SANDIEGOZ] D: 191150 dangered (EN) Disposition - Recipient/Local ID 10 Death | Out Out Out | Own | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 16/Sep/2008 |
| Individual Date in 7/Jun/1991 //Mar/1995 //Sep/1997 Sex/Contraception hybrid Status finclosure learing learing learing learing Jun/1991 Sex/Contraception Mydidual Date in Mydi/1991 Sex/Contraception | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch | ded i Phy In In In In Phy | guan Own In guan Own | I2-6713035 Localina En Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook (227973 Local I) Reported By SANDIEGOZ / 19115 | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 16 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] [44-AZA /SANDIEGOZ] D: 191150 dangered (EN) Disposition - Recipient/Local ID | Out Out Out | Own | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 16/Sep/2008 |
| Individual Date in 7/Jun/1991 //Mar/1995 //Sep/1997 Sex/Contraception Hybrid Status Inclosure Rearing Date Jun Jun/1991 Jun/ | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Male / - | ded i Phy In In In In Phy | guan Own In guan Own | I2-6713035 Local II Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook 6 I227973 Local II | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 16 Loan Out To TOLEDO/973151 Death 16 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] [44-AZA /SANDIEGOZ] D: 191150 dangered (EN) Disposition - Recipient/Local ID 10 Death Captive Birth/Hatch | Out Out Out | Own | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 16/Sep/2008 |
| Individual Date in 7/Jun/1991 //Mar/1995 //Sep/1997 Sex/Contraception dybrid Status Enclosure Rearing Dam Sire Individual Date in //Jun/1991 Sex/Contraception dybrid Status Enclosure Rearing Dam Sire | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Male / - | ded i Phy In In In In Phy | guan Own In guan Own | I2-6713035 Loc Ia En In Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook / Ia En In Reported By SANDIEGOZ / 19115 Birth Type Birth Location Birth Date/Age Death Number In Reported By SANDIEGOZ / 19115 Birth Type Birth Type Birth Location Birth Date/Age Death Number | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] [44-AZA /SANDIEGOZ] D: 191150 dangered (EN) Disposition - Recipient/Local ID 10 Death Captive Birth/Hatch San Diego Zoo | Out Out Out | Own | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 16/Sep/2008 |
| Individual Date in 7/Jun/1991 //Mar/1995 //Sep/1997 Sex/Contraception Mybrid Status Inclosure Rearing Dam Sitre Individual Date in //Jul/1991 Sex/Contraception Mybrid Status Sitre Individual Date in MyJul/1991 Sex/Contraception Mybrid Status Sitrolosure | Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Loan Return to Us Sender: CYCLURARC/NONE Loan In From Sender: SANDIEGOZ/191146 Vendor: SANDIEGOZ/191146 - Female / - Not a hybrid - Undetermined [GAN: 23052938 SANDIEGOZ / 187308] [GAN: 23052937 SANDIEGOZ / 187307] Fiji ban Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - | ded i Phy In In In In Phy | guan Own In guan Own | I2-6713035 Loc Ia En Reported By SANDIEGOZ / 19114 SANDIEGOZ / 19114 TOLEDO / 973151 SANDIEGOZ / 19114 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook (1) Ia En Reported By SANDIEGOZ / 19115 Birth Type Birth Local I Ia En Reported By SANDIEGOZ / 19115 Birth Type Birth Location Birth Date/Age | cal ID: 191146 dangered (EN) Disposition - Recipient/Local ID 6 Loan Out To CYCLURARC/NONE 6 Loan Out To TOLEDO/973151 Death 6 Death (ownership only) Captive Birth/Hatch San Diego Zoo 17/Jun/1991 / 17Y,2M,30D at the time of deat [RP15150/SANDIEGOZ] [191146/SANDIEGOZ] [44-AZA /SANDIEGOZ] D: 191150 dangered (EN) Disposition - Recipient/Local ID Captive Birth/Hatch San Diego Zoo 3/Jul/1991 / 21Y,9M,23D at the time of death [0056101/SANDIEGOZ] [191150/SANDIEGOZ] | Out Out Out | Own | n Date out 1/Oct/1992 3/Sep/1997 16/Sep/2008 16/Sep/2008 |

| | 8228188 Local ID: 191392 | | | | | | | | | | |
|-------------------|--------------------------------------|-------|------|---------------------|---|-----|-----|--------------------|--|--|--|
| Individual | Fiji band | ded i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | | |
| 10/Dec/1991 | Birth/Hatch | ln | ln | SANDIEGOZ / 191392 | Death | Out | Out | 11/Dec/1991 | | | |
| Sex/Contraception | Undetermined / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| Enclosure | - | | | Birth Date/Age | 10/Dec/1991 / 0Y,0M,1D at the time of death | | | | | | |
| Rearing | None | | | Death Number | [0030224/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 23052939 SANDIEGOZ / 187309] | | | Local ID | [191392/SANDIEGOZ] | | | | | | |
| Sire | [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook # | [76-AZA /SANDIEGOZ] | | | | | | |
| | | | | | | | | | | | |

| | | N | IIG1 | 2-29851934 Loca | I ID: 191417 | | | |
|--|---|--------|---------------------------|--|---|-----|-----|--------------------|
| Individual | Fiji band | led iç | ed iguana Endangered (EN) | | | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 29/Dec/1991 | Birth/Hatch | ln | ln | SANDIEGOZ / 191417 | Loan Out To TOLEDO/933029 | Out | - | 20/Apr/1993 |
| 22/Apr/1993 | Loan In From Sender: SANDIEGOZ/191417 Vendor: SANDIEGOZ/191417 | ln | - | TOLEDO / 933029 | Loan Transfer To DETROIT/5767 | Out | - | 7/May/1997 |
| - | - | - | - | SANDIEGOZ / 191417 | Loan out to (change in reported holder) DETROIT/5767 | - | - | 8/May/1997 |
| 8/May/1997 | Loan In From Sender: TOLEDO/933029 Vendor: SANDIEGOZ/191417 | ln | - | DETROIT / 5767 | Death | Out | - | 24/Jul/2004 |
| - | - | - | - | SANDIEGOZ / 191417 | Death (ownership only) | - | Out | 24/Jul/2004 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 29/Dec/1991 / 12Y,6M,25D at the time of death [RP11256/SANDIEGOZ] [191417/SANDIEGOZ] [45-AZA /SANDIEGOZ] [7F-7E60-495E/SANDIEGOZ] | | | |

| 8228216 Local ID: 192005 | | | | | | | | | | | |
|--|--|--------|------|--|--|-----|-----|--------------------|--|--|--|
| Individual | Fiji band | ded ig | guan | a Endar | ngered (EN) | | Bra | chylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | | |
| 3/Jan/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192005 | Death | Out | Out | 3/Jan/1992 | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Undetermined / - Not a hybrid - None [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 3/Jan/1992 / 0Y,0M,0D at the time of death [0030289/SANDIEGOZ] [192005/SANDIEGOZ] [49-AZA /SANDIEGOZ] | | | | | | |

| MIG12-4057426 Local ID: 192097 | | | | | | | | | |
|--|---|-------|------|---|--|------------|-----|---------------------|--|
| Individual | Fiji band | ded i | guan | a Enda | ngered (EN) | | Bra | achylophus bulabula | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Ow | n Date out | |
| 13/Apr/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192097 | Loan Out To FRESNO/6690 | Out | - | 23/Mar/1993 | |
| 24/Mar/1993 | Loan In From Sender: SANDIEGOZ/192097 Vendor: SANDIEGOZ/192097 | ln | - | FRESNO / 6690 | Death | Out | - | 28/Nov/2003 | |
| - | - | - | - | SANDIEGOZ / 192097 | Death (ownership only) | - | Out | 28/Nov/2003 | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 13/Apr/1992 / 11Y,7M,15D at the time of death [192097/SANDIEGOZ] [46-AZA /SANDIEGOZ] [7F-7E60-451D/SANDIEGOZ] | | | | |

| MIG12-28546900 Local ID: 192098 | | | | | | | | | | |
|--|--|----------------------------|-----|--|--|-----|-----|--------------------|--|--|
| Individual | Fiji band | ded iguana Endangered (EN) | | | | | Bra | chylophus bulabula | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owr | <u>Date out</u> | | |
| 13/Apr/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192098 | Loan Out To DENVER/930095 | Out | - | 20/Apr/1993 | | |
| 21/Apr/1993 | Loan In From Vendor: SANDIEGOZ/192098 | ln | - | DENVER / 930095 | Loan Transfer To ATLANTA/985000 | Out | - | 23/Apr/1998 | | |
| _ ' | - | - | - | SANDIEGOZ / 192098 | Loan out to (change in reported holder) ATLANTA/985000 | - | - | 23/Apr/1998 | | |
| 24/Apr/1998 | Loan In From Vendor: SANDIEGOZ/192098 | ln | - | ATLANTA / 985000 | Death | Out | - | 20/Apr/2000 | | |
| - | - | - | - | SANDIEGOZ / 192098 | Death (ownership only) | - | Out | 20/Apr/2000 | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 13/Apr/1992 / 8Y,0M,7D at the time of death [RP8264/SANDIEGOZ] [192098/SANDIEGOZ] [47-AZA /SANDIEGOZ] [7F-7E60-4778/SANDIEGOZ] | | | | | |

| | CWF10-00324 Local ID: 192106 | | | | | | | | | | |
|--|---|-------------|----|--|--|-----|-----|-------------|--|--|--|
| Individual | Fiji band | ngered (EN) | | Bra | chylophus bulabula | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | | |
| 18/Apr/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192106 | Loan Out To CINCINNAT/393127 | Out | - | 4/May/1993 | | | |
| 5/May/1993 | Loan In From Sender: SANDIEGOZ/192106 Vendor: SANDIEGOZ/192106 | ln | - | CINCINNAT / 393127 | Death | Out | - | 10/Jul/1993 | | | |
| - | - | - | - | SANDIEGOZ / 192106 | Death (ownership only) | - | Out | 10/Jul/1993 | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - Hand [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 18/Apr/1992 / 1Y,2M,22D at the time of death [RP5223 /SANDIEGOZ] [192106/SANDIEGOZ] [48-AZA /SANDIEGOZ] [7F-7E60-3430/SANDIEGOZ] | | | | | | |

| CWF10-00323 Local ID: 192345 | | | | | | | | | |
|--|---|-------|------|--|--|-----|-----|--------------------|--|
| Individual | Fiji band | ded i | guan | a Endar | ngered (EN) | | Bra | chylophus bulabula | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owi | n Date out | |
| 9/Aug/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192345 | Loan Out To CINCINNAT/393128 | Out | - | 4/May/1993 | |
| 5/May/1993 | Loan In From Sender: SANDIEGOZ/192345 Vendor: SANDIEGOZ/192345 | ln | - | CINCINNAT / 393128 | Death | Out | - | 2/Jan/1996 | |
| - | - | - | - | SANDIEGOZ / 192345 | Death (ownership only) | - | Out | 2/Jan/1996 | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - Hand [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 9/Aug/1992 / 3Y,4M,24D at the time of death [RP6031/SANDIEGOZ] [192345/SANDIEGOZ] [50-AZA /SANDIEGOZ] [7F-7E60-440A/SANDIEGOZ] | | | | |

| | MIG12-29851933 Local ID: 192355 | | | | | | | | | | | |
|-------------------|---|-------|------|---------------------|--|-----|-----|---------------------|--|--|--|--|
| Individual | Fiji ban | ded i | guan | a Enda | Endangered (EN) | | Bra | achylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Ow | n Date out | | | | |
| 15/Aug/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192355 | Loan Out To TOLEDO/933030 | Out | - | 20/Apr/1993 | | | | |
| 22/Apr/1993 | Loan In From Sender: SANDIEGOZ/192355 Vendor: SANDIEGOZ/192355 | ln | - | TOLEDO / 933030 | Loan Transfer To DETROIT/5768 | Out | - | 7/May/1997 | | | | |
| - | - | - | - | SANDIEGOZ / 192355 | Loan out to (change in reported holder) DETROIT/5768 | - | - | 8/May/1997 | | | | |
| 8/May/1997 | Loan In From Sender: TOLEDO/933030 Vendor: SANDIEGOZ/192355 | ln | - | DETROIT / 5768 | Death | Out | - | 21/Dec/1997 | | | | |
| - | - | - | - | SANDIEGOZ / 192355 | Death (ownership only) | - | Out | 21/Dec/1997 | | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | | |
| Enclosure | - | | | Birth Date/Age | 15/Aug/1992 / 5Y,4M,6D at the time of death | | | | | | | |
| Rearing | None | | | Death Number | [RP7804/SANDIEGOZ] | | | | | | | |
| <u>Dam</u> | [GAN: 23052939 SANDIEGOZ / 187309] | | | Local ID | [192355/SANDIEGOZ] | | | | | | | |
| Sire | [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook # | [51-AZA /SANDIEGOZ] | | | | | | | |
| | | | | Transponder | [7F-7E60-4371/SANDIEGOZ] | | | | | | | |

| Individual | Fiji band | ded i | ed iguana | | ngered (EN) | | Bra | ichylophus bulabula |
|-------------------|---------------------------------------|-------|-----------|---------------------|---|-----|------------|---------------------|
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | <u>Owr</u> | n Date out |
| 24/Aug/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192362 | Loan Out To DENVER/930094 | Out | - | 20/Apr/1993 |
| 21/Apr/1993 | Loan In From Vendor: SANDIEGOZ/192362 | ln | - | DENVER / 930094 | Death | Out | - | 27/Nov/1996 |
| - | - | - | - | SANDIEGOZ / 192362 | Death (ownership only) | - | Out | 27/Nov/1996 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 24/Aug/1992 / 4Y,3M,3D at the time of death | | | |
| Rearing | None | | | Death Number | [RP6234/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 23052939 SANDIEGOZ / 187309] | | | Local ID | [192362/SANDIEGOZ] | | | |
| Sire | [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook # | [52-AZA /SANDIEGOZ] | | | |
| | | | | Transponder | [7F-7E60-4720/SANDIEGOZ] | | | |

| 8228557 LOCALID: 192364 | | | | | | | | | | |
|--|---|-------|-----------|--|---|------------|--------|------------------|--|--|
| Individual | Fiji ban | ded i | guar | na Enda | ngered (EN) | | Brach | ylophus bulabula | | |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Ow</u> | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own D | ate out | | |
| 4/Sep/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192364 | Death | Out | Out 15 | 5/Mar/1998 | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 4/Sep/1992 / 5Y,6M,11D at the time of death [0038894/SANDIEGOZ] [192364/SANDIEGOZ] [53-AZA /SANDIEGOZ] [7F-7E60-3B44/SANDIEGOZ] | | | | | |

| 1/Jan/1950 | | | | | |)/Jul/20: | | |
|--|---|------------|------------|--|---|------------|----------|--|
| | | | | 2-4057433 Local | | | _ | |
| Individual <u>Date in</u> | Fiji ban <u>Acquisition - Vendor/Local ID</u> | | | a Enda <u>Reported By</u> | ngered (EN) <u>Disposition - Recipient/Local ID</u> | Phy | | ichylophus bulabu <u>n Date out</u> |
| 8/Sep/1992 24/Mar/1993 | Birth/Hatch Loan In From Sender: SANDIEGOZ/192366 Vendor: SANDIEGOZ/192366 | ln In | ln - | SANDIEGOZ / 192366 FRESNO / 6691 | Loan Out To FRESNO/6691 Death | Out Out | - | 23/Mar/1993 14/Apr/1998 |
| - | - | - | - | SANDIEGOZ / 192366 | Death (ownership only) | - | Out | 14/Apr/1998 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - Undetermined [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 8/Sep/1992 / 5Y,7M,6D at the time of death [RP7221/SANDIEGOZ] [192366/SANDIEGOZ] [54-AZA /SANDIEGOZ] [7F-7E60-4416/SANDIEGOZ] | | | |
| | | | 8 | 228640 Local ID: | 192451 | | | |
| Individual | Fiji ban | ded ig | juan | a Enda | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Owi | Date out |
| 10/Oct/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192451 | Death | Out | Out | 12/Mar/2001 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - None [GAN: 23052940 SANDIEGOZ / 187310] [GAN: 23052952 SANDIEGOZ / 188092] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 10/Oct/1992 / 8Y,5M,2D at the time of death [0042740/SANDIEGOZ] [192451/SANDIEGOZ] [55-AZA /SANDIEGOZ] | | | |
| | | ı | /IIG1 | 2-8228641 Local | ID: 192452 | | | |
| Individual | Fiji ban | ded ig | juan | a Enda | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own | n Date out |
| 16/Oct/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192452 SANDIEGOZ / 192452 | Loan Out To C R A P/NONE Death (ownership only) | Out | - Out | 14/Nov/1995 15/Jan/1996 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 23052940 SANDIEGOZ / 187310] [GAN: 23052952 SANDIEGOZ / 188092] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 16/Oct/1992 / 3Y,2M,30D at the time of death [192452/SANDIEGOZ] [56-AZA /SANDIEGOZ] | | | |
| | | ı | /IIG1 | 2-4057435 Local | ID: 192521 | | | |
| Individual | Fiji ban | | | | ngered (EN) | | | ichylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | <u>Disposition - Recipient/Local ID</u> | | | n Date out |
| 14/Nov/1992 9/Dec/1993 | Birth/Hatch Loan In From Sender: SANDIEGOZ/192521 Vendor: SANDIEGOZ/192521 | ln In | ln - | SANDIEGOZ / 192521 HONOLULU / 930501 | Loan Out To HONOLULU/930501 Death | Out Out | - | 9/Dec/1993 3/Jul/1996 |
| - | - | - | - | SANDIEGOZ / 192521 | Death (ownership only) | - | Out | 10/Jul/1996 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Hand [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 27311553 SANDIEGOZ / 188093] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 14/Nov/1992 / 3Y,7M,26D at the time of death [RP6118/SANDIEGOZ] [192521/SANDIEGOZ] [57-AZA /SANDIEGOZ] | | | |
| | | | 6 | 713043 Local ID: | 192522 | | | |
| Individual | Fiji ban | ded ig | juan | a Enda | ngered (EN) | | Bra | ıchylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owi | n Date out |
| 17/Nov/1992 3/Apr/2001 | Birth/Hatch Loan In From Sender: SANDIEGOZ/192522 Vendor: SANDIEGOZ/192522 | ln In | ln - | SANDIEGOZ / 192522 LOSANGELE / 990379 | Loan Out To LOSANGELE/990379 Death | Out Out | - | 3/Apr/2001 15/Jul/2008 |
| - | - | - | - | SANDIEGOZ / 192522 | Death (ownership only) | - | Out | 15/Jul/2008 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Undetermined [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 27311553 SANDIEGOZ / 188093] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 17/Nov/1992 / 15Y,7M,28D at the time of death [192522/SANDIEGOZ] [58-AZA /SANDIEGOZ] [00-0605-7F34/[Leg/Left,Hind]/SANDIEGOZ] | ı | | |

| 1/Jan/1950 | | | | | 1070 | Jui/202 | | |
|------------------------------------|--|------------|------|---|--|------------|-----------|---------------------|
| | | | 2 | 5215131 Local ID: | : 192523 | | | |
| Individual | Fiji ban | dod ic | | • | ngered (EN) | | | rachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | _ | - | Reported By | Disposition - Recipient/Local ID | Phv | | wn Date out |
| 17/Nov/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192523 | Loan Out To C R A P/NONE | Out | - | 14/Nov/1995 |
| 4/Jun/1996 | Loan Return to Us Sender: C R A P/NONE | ln | - | SANDIEGOZ / 192523 | Death | Out | Ou | it 7/May/2008 |
| Sex/Contraception Hybrid Status | Female / - Not a hybrid | | | Birth Type Birth Location | Captive Birth/Hatch San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 17/Nov/1992 / 15Y,5M,20D at the time of death | | | |
| Rearing Dam | None [GAN: 23052954 SANDIEGOZ / 188096] | | | Death Number Local ID | [0051034/SANDIEGOZ] [192523/SANDIEGOZ] | | | |
| Sire | [GAN: 27311553 SANDIEGOZ / 188093] | | | Regional Studbook # | [59-AZA /SANDIEGOZ] | | | |
| | | | 8 | 228719 Local ID: | 192535 | | | |
| Individual | Fiji ban | ded ic | | • | ngered (EN) | | Bı | rachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | _ | - | Reported By | Disposition - Recipient/Local ID | Phy | | wn Date out |
| 24/Nov/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192535 | Death | | | t 25/Feb/2016 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure Rearing | - None | | | Birth Date/Age Death Number | 24/Nov/1992 / 23Y,3M,1D at the time of death [0059180/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 23052954 SANDIEGOZ / 188096] | | | Local ID | [192535/SANDIEGOZ] | | | |
| Sire | [GAN: 27311553 SANDIEGOZ / 188093] | | | Regional Studbook # | [60-AZA /SANDIEGOZ] | | | |
| | | | 8 | 228722 Local ID: | 192538 | | | |
| Individual | Fiji ban | ded iç | guan | a Enda | ngered (EN) | | Bı | rachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owi | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Ov</u> | wn Date out |
| 25/Nov/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192538 | Death | Out | Ou | it 19/Sep/2013 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status Enclosure | Not a hybrid - | | | Birth Location Birth Date/Age | San Diego Zoo 25/Nov/1992 / 20Y,9M,25D at the time of death | | | |
| Rearing | None | | | Death Number | [0056510/SANDIEGOZ] | | | |
| Dam Sire | [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 27311553 SANDIEGOZ / 188093] | | | Local ID Regional Studbook # | [192538/SANDIEGOZ] | | | |
| <u>one</u> | [GAN. 27311333 SANDIEGOZ / 100093] | | | Regional Studbook # | [61-AZA /SANDIEGOZ] | | | |
| | | | 19 | 9978460 Local ID: | : 192539 | | | |
| Individual | Fiji ban | ded iç | guan | a Enda | ngered (EN) | | | rachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | | | wn Date out |
| 28/Nov/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192539 | Death | Out | Ou | t 6/Feb/2007 |
| Sex/Contraception Hybrid Status | Male / - Not a hybrid | | | Birth Type Birth Location | Captive Birth/Hatch San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 28/Nov/1992 / 14Y,2M,9D at the time of death | | | |
| Rearing | None | | | Death Number | [0049803/SANDIEGOZ] | | | |
| Dam Sire | [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 27311553 SANDIEGOZ / 188093] | | | <u>Local ID</u> <u>Regional Studbook #</u> | [192539/SANDIEGOZ] [62-AZA /SANDIEGOZ] | | | |
| | | | - 10 | 0079464 Lecol ID | · · · · · · · · · · · · · · · · · · · | | | |
| Individual | Fiji ban | ded ic | | 9978461 Local ID: a Enda | ngered (EN) | | Bı | rachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | • | • | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | | wn Date out |
| 19/Dec/1992 | Birth/Hatch | ln | ln | SANDIEGOZ / 192547 | Loan Out To DALLAS/07H035 | Out | | 22/Feb/2007 |
| 23/Feb/2007 | Loan In From Sender: SANDIEGOZ/192547 Vendor: SANDIEGOZ/192547 | ln | - | DALLAS / 07H035 | Death | Out | - | 15/Jun/2018 |
| - | - | - | - | SANDIEGOZ / 192547 | Death (ownership only) | - | Ou | it 15/Jun/2018 |
| Sex/Contraception Hybrid Status | Male / - | | | Birth Type Birth Location | Captive Birth/Hatch | | | |
| Enclosure | Not a hybrid - | | | Birth Date/Age | San Diego Zoo 19/Dec/1992 / 25Y,5M,27D at the time of death | | | |
| Rearing | Undetermined | | | Local ID | [192547/SANDIEGOZ] | | | |
| Dam Sire | [GAN: 23052940 SANDIEGOZ / 187310] [GAN: 23052952 SANDIEGOZ / 188092] | | | Regional Studbook # | [79-AZA /SANDIEGOZ] | | | |
| | | | MIC4 | 2-4057426 | ID: 102549 | | | |
| Individual | Fiji ban | | | 2-4057436 Local | ID: 192548 ngered (EN) | | | rachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | _ | - | n Reported By | Disposition - Recipient/Local ID | Phv | | vn Date out |
| 25/Dec/1992 | Birth/Hatch | In | In . | SANDIEGOZ / 192548 | Loan Out To HONOLULU/930502 | Out | | 9/Dec/1993 |
| 9/Dec/1993 | Loan In From Sender: SANDIEGOZ/192548 | ln | - | HONOLULU / 930502 | Death | | | 11/Sep/1995 |
| | Vendor: SANDIEGOZ/192548 | | _ | SANDIEGOZ / 192548 | Death (ownership only) | - | Ou | it 11/Sep/1995 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | Ju | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 25/Dec/1992 / 2Y,8M,17D at the time of death | | | |
| Rearing Dam | Hand [GAN: 23052940 SANDIEGOZ / 187310] | | | Death Number Local ID | [RP5761/SANDIEGOZ] [192548/SANDIEGOZ] | | | |
| Sire | [GAN: 23052940 SANDIEGOZ / 187310] [GAN: 23052952 SANDIEGOZ / 188092] | | | Regional Studbook # | [192548/SANDIEGOZ] [80-AZA /SANDIEGOZ] | | | |
| | | | | | • | | | |

| | | | | | | | | 10/Jul/20 | Z- 1 |
|--|---|-----------|--|------------------------------------|---|-------------------------------|--|--|--|
| | | | N | /IIG1 | 2-6713044 | Local I | D: 192549 | | |
| Individual | | Fiji band | ed ig | juan | a | Endan | gered (EN) | | Brachylophus bulal |
| Date in | Acquisition - Vendor/Local ID | | Phy | Owr | Reported By | | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 26/Dec/1992 /May/1998 | Birth/Hatch Loan In From Sender: SANDIEGOZ/1 Vendor: SANDIEGOZ/192549 | 92549 | In In | In - | SANDIEGOZ / 1 TULSA / 12697 | 192549 | Loan Out To TULSA/12697 Death | Out Out | - 30/Apr/1998 - 18/Sep/1998 |
| | - | | - | - | SANDIEGOZ / 1 | 192549 | Death (ownership only) | - | Out 18/Sep/1998 |
| Sex/Contraception Hybrid Status | Female / - | | | | Birth Type Birth Location | | Captive Birth/Hatch San Diego Zoo | | |
| inclosure | Not a hybrid - | | | | Birth Date/Age | | 26/Dec/1992 / 5Y,8M,23D at the time | of death | |
| learing | Undetermined | | | | Death Number | | [RP7222/SANDIEGOZ] | o. 4544. | |
| am | [GAN: 23052940 SANDIEGOZ / | | | | Local ID | | [192549/SANDIEGOZ] | | |
| <u>iire</u> | [GAN: 23052952 SANDIEGOZ / | 188092] | | | Regional Studb | 00K # | [81-AZA /SANDIEGOZ] | | |
| | | | | 26 | 6753106 Lo | | | | |
| Individual | | Fiji band | ed ig | juan | a | Endan | gered (EN) | | Brachylophus bulal |
| Date in | Acquisition - Vendor/Local ID | | Phy | <u>Owr</u> | Reported By | | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 8/Mar/1965 | Donation From TONGA DOF/NONE | | ln | ln | SANDIEGOZ / 1 | 193014 | Death | Out | Out 1/Jan/1968 |
| Sex/Contraception | Undetermined / - | | | | Birth Type | | Wild Birth/Hatch | | |
| <u>lybrid Status</u> Enclosure | Not a hybrid | | | | Birth Location Birth Date/Age | | Tonga /from 1/lon/1063 to 1/lon/1064 / EV | ' OM OD at the time | as of dooth |
| :nciosure Rearing | - Undetermined | | | | Local ID | | ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193014/SANDIEGOZ] | ,טועו,טט at the tim | ie oi death |
| <u>Dam</u> | [WILD / WILD] | | | | | | [| | |
| <u>Sire</u> | [WILD / WILD] | | | | | | | | |
| | | | | 26 | 6753107 Lo | cal ID: | 193015 | | |
| Individual | | Fiji band | ed ig | juan | a | Endan | gered (EN) | | Brachylophus bulal |
| Date in | Acquisition - Vendor/Local ID | | <u>Phy</u> | <u>Owr</u> | Reported By | | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 8/Mar/1965 | Donation From TONGA DOF/NONE | | ln | ln | SANDIEGOZ / 1 | 193015 | Death | Out | Out 1/Jan/1968 |
| ex/Contraception | Undetermined / - | | | | Birth Type | | Wild Birth/Hatch | | |
| lybrid Status | Not a hybrid | | | | Birth Location | | Tonga / | | |
| Enclosure Rearing | - Undetermined | | | | Birth Date/Age Local ID | | ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193015/SANDIEGOZ] | ,0M,0D at the tim | ne of death |
| Dam_ | [WILD / WILD] | | | | <u>Local ID</u> | | [193013/3ANDIEGOZ] | | |
| <u>Sire</u> | [WILD / WILD] | | | | | | | | |
| | | | | 8 | 228746 Loc | cal ID: 1 | 93016 | | |
| | | | | | | | | | |
| | Acquisition - Vendor/Local ID | Fiji band | • | • | | Endan | gered (EN) Disposition - Recipient/Local ID |) Phy | Brachylophus bulal |
| Date in | Acquisition - Vendor/Local ID | Fiji band | Phy | Owr | Reported By | | Disposition - Recipient/Local ID | | Own Date out |
| Date in 18/Mar/1965 | Donation From TONGA DOF/NONE | Fiji band | • | • | Reported By SANDIEGOZ / 1 | 193016 | Disposition - Recipient/Local ID Death | | , , |
| Date in 8/Mar/1965 Sex/Contraception | Donation From TONGA DOF/NONE Undetermined / - | Fiji band | Phy | Owr | Reported By | 193016 | Disposition - Recipient/Local ID Death Wild Birth/Hatch | | Own Date out |
| Date in 28/Mar/1965 Sex/Contraception Hybrid Status | Donation From TONGA DOF/NONE | Fiji band | Phy | Owr | Reported By SANDIEGOZ / 1 Birth Type | 193016 | Disposition - Recipient/Local ID Death | Out | Own Date out Out 1/Jan/1968 |
| Date in 8/Mar/1965 ex/Contraception lybrid Status cnclosure learing | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined | Fiji band | Phy | Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location | 193016 | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / | Out | Own Date out Out 1/Jan/1968 |
| Date in 18/Mar/1965 Sex/Contraception 18/brid Status Inclosure 18earing 18earing 18earing | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] | Fiji band | Phy | Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age | 193016 | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y | Out | Own Date out Out 1/Jan/1968 |
| Nate in 8/Mar/1965 ex/Contraception lybrid Status inclosure learing lam | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined | Fiji band | Phy | Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age | 193016 | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y | Out | Own Date out Out 1/Jan/1968 |
| Nate in 8/Mar/1965 ex/Contraception lybrid Status inclosure learing lam | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] | Fiji band | Phy | Owr In | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age | 193016 | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] | Out | Own Date out Out 1/Jan/1968 |
| Pate in 8/Mar/1965 sex/Contraception lybrid Status inclosure learing lam iire | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] | Fiji band | Phy In | Owr in 8 | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID | 193016 cal ID: 1 | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) | Out | Own Date out Out 1/Jan/1968 ne of death Brachylophus bulal |
| Date in 28/Mar/1965 Sex/Contraception dybrid Status Enclosure Rearing Dam Sire Individual Date in | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID | , | Phy In | Owr In 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Local a Reported By | 193016 cal ID: 1 Endanç | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID | Out 7,0M,0D at the tim | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out |
| Date in 28/Mar/1965 Sex/Contraception dybrid Status Enclosure Rearing Dam Bire Individual Date in 28/Mar/1965 | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] | , | Phy In | Owr in 8 | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID | 193016 cal ID: 1 Endanç | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) | Out 7,0M,0D at the tim | Own Date out Out 1/Jan/1968 ne of death Brachylophus bulal |
| Date in 18/Mar/1965 Sex/Contraception Responding Status Sinclosure Rearing Dam Sire Individual Date in 18/Mar/1965 Sex/Contraception | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - | , | Phy In | Owr In 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Local Reported By SANDIEGOZ / 1 Birth Type | 193016 cal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch | Out 7,0M,0D at the tim | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out |
| Date in 18/Mar/1965 Sex/Contraception Algorithms Sinclosure Searing Dam Sire Individual Date in 18/Mar/1965 Sex/Contraception Algorithms Algorithms Algorithms Both | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE | , | Phy In | Owr In 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Local Reported By SANDIEGOZ / 1 Birth Type Birth Location | 193016 cal ID: 1 Endanç | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / | Out 7,0M,0D at the tim Phy Out | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out Out 1/Jan/1968 |
| Date in 18/Mar/1965 Sex/Contraception 18/Mar/1965 Sinclosure Setaring Dam Sire Individual Date in 18/Mar/1965 Sex/Contraception 18/morit Status Sinclosure | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - | , | Phy In | Owr In 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Local Reported By SANDIEGOZ / 1 Birth Type | 193016 cal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y | Out 7,0M,0D at the tim Phy Out | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out Out 1/Jan/1968 |
| Asset in 8/Mar/1965 Sex/Contraception Dybrid Status Inclosure Searing Sam Sire Individual Date in 8/Mar/1965 Sex/Contraception Dybrid Status Inclosure Sex/Contraception Sybrid Status Inclosure Searing | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - | , | Phy In | Owr In 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Local a Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age | 193016 cal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / | Out 7,0M,0D at the tim Phy Out | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out Out 1/Jan/1968 |
| Individual Date in 28/Mar/1965 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 28/Mar/1965 Sex/Contraception Hybrid Status Enclosure Rearing Date in 28/Mar/1965 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined | , | Phy In | Owr In 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Local a Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age | 193016 cal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y | Out 7,0M,0D at the tim Phy Out | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out Out 1/Jan/1968 |
| Date in 28/Mar/1965 Sex/Contraception dybrid Status Enclosure Bearing Dam Sire Individual Date in 28/Mar/1965 Sex/Contraception dybrid Status Enclosure Rearing Date in Reference of the sex of the | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] | , | Phy In | Owr In | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Local a Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age | cal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193017/SANDIEGOZ] | Out 7,0M,0D at the tim Phy Out | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out Out 1/Jan/1968 |
| Pate in 8/Mar/1965 8ex/Contraception Approximate status Inclosure Bearing Bam Bire Individual Pate in 8/Mar/1965 Bex/Contraception Bybrid Status Inclosure Bearing Bam Berry Bam Berry Ber | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] | , | Phy h | Owr In 8 Juan Owr In 8 | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Loca a Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID | eal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193017/SANDIEGOZ] | Out 7,0M,0D at the tim Phy Out | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out Out 1/Jan/1968 |
| Date in 18/Mar/1965 Sex/Contraception Sybrid Status Sinclosure Staring Dam Sire Individual Date in 18/Mar/1965 Sex/Contraception Sybrid Status Sinclosure Stearing Dam Sybrid Status Sinclosure Stearing Dam Sire Staring Dam Sire | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] | Fiji band | Phy h | Owr In 8 Juan Owr In 8 | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Loca a Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID | eal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193017/SANDIEGOZ] | Out 7,0M,0D at the tim Phy Out 7,0M,0D at the tim | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out Out 1/Jan/1968 The of death |
| Date in 18/Mar/1965 Sex/Contraception Bybrid Status Sinclosure Bearing Dam Bire 18/Mar/1965 Sex/Contraception Bybrid Status Sinclosure Bearing Date in British Sinclosure Bearing Dam Bire Bire Individual Date in British Status Bire Bire Individual Date in British Status Bire Bire Individual Date in | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] | Fiji band | Phy h | Owr In 8 Juan Owr In 8 | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Loca a Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID | eal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193017/SANDIEGOZ] 93018 gered (EN) | Out 7,0M,0D at the tim 9 Phy Out 7,0M,0D at the tim | Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Own Date out Out 1/Jan/1968 The of death Brachylophus bulat Out 1/Jan/1968 |
| Date in 28/Mar/1965 Sex/Contraception dybrid Status Enclosure Rearing Dam Sire Individual Date in 28/Mar/1965 Sex/Contraception dybrid Status Enclosure Rearing Dam Sire Individual Date in 28/Mar/1965 Sex/Contraception Sire | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID | Fiji band | Phy h | 8 Juan 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Loca a Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID | cal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193017/SANDIEGOZ] 93018 gered (EN) Disposition - Recipient/Local ID | Out 7,0M,0D at the tim 9 Phy Out 7,0M,0D at the tim | Own Date out Out 1/Jan/1968 Define of death Brachylophus bulat Own Date out Out 1/Jan/1968 Define of death Brachylophus bulat Out 1/Jan/1968 Define of death |
| Pate in 8/Mar/1965 8ex/Contraception Bybrid Status Inclosure Bearing Bam Bire Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE | Fiji band | Phy h | 8 Juan 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Loca and Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228748 Local ID 228748 Local ID 3 Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID | eal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193017/SANDIEGOZ] 93018 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / 93018 Gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / | Out 7,0M,0D at the tim Phy Out 7,0M,0D at the tim 9 Phy Out Out | Own Date out Out 1/Jan/1968 Define of death Brachylophus bulat Own Date out Out 1/Jan/1968 Define of death Brachylophus bulat Out 1/Jan/1968 Define of death Define out Out 1/Jan/1968 |
| Date in 18/Mar/1965 Sex/Contraception Regime Rearing Date in 18/Mar/1965 Sex/Contraception Regime Individual Date in Regime Rearing Dam Sirie Individual Date in Regime Rearing Dam Sirie Individual Date in Regime Rearing Dam Sirie Individual Date in Regime | Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined [WILD / WILD] Undetermined / - Not a hybrid - Undetermined / - Not a hybrid - | Fiji band | Phy h | 8 Juan 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Local a Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228748 Local ID 228748 Local ID 3 Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID | eal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193017/SANDIEGOZ] 93018 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y | Out 7,0M,0D at the tim Phy Out 7,0M,0D at the tim 9 Phy Out Out | Own Date out Out 1/Jan/1968 Define of death Brachylophus bulat Own Date out Out 1/Jan/1968 Define of death Brachylophus bulat Out 1/Jan/1968 Define of death Define out Out 1/Jan/1968 |
| Pate in 8/Mar/1965 8ex/Contraception Bybrid Status Inclosure Bearing Bam Bire Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined / - Not a hybrid - Undetermined [WILD / WILD] [WILD / WILD] Acquisition - Vendor/Local ID Donation From TONGA DOF/NONE Undetermined [WILD / WILD] Undetermined / - Undetermined / - Undetermined / - | Fiji band | Phy h | 8 Juan 8 Juan Owr | Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228747 Loca and Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID 228748 Local ID 228748 Local ID 3 Reported By SANDIEGOZ / 1 Birth Type Birth Location Birth Date/Age Local ID | eal ID: 1 Endang | Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193016/SANDIEGOZ] 93017 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y [193017/SANDIEGOZ] 93018 gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / 93018 Gered (EN) Disposition - Recipient/Local ID Death Wild Birth/Hatch Tonga / | Out 7,0M,0D at the tim Phy Out 7,0M,0D at the tim 9 Phy Out Out | Own Date out Out 1/Jan/1968 Define of death Brachylophus bulat Own Date out Out 1/Jan/1968 Define of death Brachylophus bulat Out 1/Jan/1968 Define of death Define out Out 1/Jan/1968 |

| | | | 8 | 228749 Local II | D: 193019 | | | |
|--|--|------------|------|---|---|------------|---------|------------------|
| Individual | Fiji ban | ded i | guan | a End | dangered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 28/Mar/1965 | Donation From TONGA DOF/NONE | ln | ln | SANDIEGOZ / 193019 | 9 Death | Out | Out | 1/Jan/1968 |
| Sex/Contraception Hybrid Status Enclosure Rearing | Undetermined / - Not a hybrid - Undetermined | | | Birth Type Birth Location Birth Date/Age Local ID | Wild Birth/Hatch Tonga / ~ from 1/Jan/1962 to 1/Jan/1964 / 5Y,0M,0D [193019/SANDIEGOZ] | at the tin | ne of c | leath |
| Dam Bire | [WILD / WILD] [WILD / WILD] | | | | | | | |
| | | | 8 | 228853 Local II | D: 193139 | | | |
| Individual | Fiji ban | ded i | guan | a End | dangered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | <u>Disposition - Recipient/Local ID</u> | Phy | Owr | Date out |
| 27/Feb/1993 | Birth/Hatch | ln | ln | SANDIEGOZ / 193139 | 9 Death | Out | Out | 13/Apr/1993 |
| Sex/Contraception Hybrid Status Enclosure | Female / - Not a hybrid - | | | Birth Type Birth Location Birth Date/Age | Captive Birth/Hatch San Diego Zoo 27/Feb/1993 / 0Y,1M,17D at the time of death | 1 | | |
| Rearing | None | | | Death Number | [0032281/SANDIEGOZ] | | | |
| Dam Sire | [GAN: 8227598 SANDIEGOZ / 190049] [GAN: MIG12-29901939 SANDIEGOZ / 1 | 90199] | | Local ID Regional Studbook # | [193139/SANDIEGOZ] [82-AZA /SANDIEGOZ] | | | |
| | | | 25 | 5215134 Local I | D: 193178 | | | |
| Individual | Fiji ban | ded i | guan | a End | dangered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owr | Date out |
| 16/Mar/1993 | Birth/Hatch | ln | ln | SANDIEGOZ / 193178 | B Death | Out | Out | 10/Jun/2015 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo | u_ | | |
| Rearing | - None | | | Death Number | 16/Mar/1993 / 22Y,2M,25D at the time of dea [0058341/SANDIEGOZ] | ın | | |
| Dam | [GAN: 23052939 SANDIEGOZ / 187309] | | | Local ID | [193178/SANDIEGOZ] | | | |
| Sire | [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook # | | | | |
| | | | 8 | 228910 Local II | D: 193264 | | | |
| Individual | Fiji ban | ded i | guan | a End | dangered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 3/Apr/1993 | Birth/Hatch | ln | ln | SANDIEGOZ / 193264 | 4 Death | Out | Out | 12/Jun/2014 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | Ī. | | | Birth Date/Age | 3/Apr/1993 / 21Y,2M,9D at the time of death | | | |
| <u>Rearing</u> Dam | None [GAN: 23052939 SANDIEGOZ / 187309] | | | Death Number Local ID | [0057145/SANDIEGOZ] [193264/SANDIEGOZ] | | | |
| Sire | [GAN: 23052939 SANDIEGOZ / 187309] [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook # | | | | |
| | [5, 4, 20002001 5/14/21/2002 / 100031] | | | | [0.7427,0714012002] | | | |

| | | | 6 | 713053 Local ID: | 193265 | | | | | | |
|-------------------|---|-------|------|---------------------|--|-----|-----|---------------------|--|--|--|
| Individual | Fiji ban | ded i | guan | a Enda | ngered (EN) | | Bra | achylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Ow | n Date out | | | |
| 3/Apr/1993 | Birth/Hatch | ln | ln | SANDIEGOZ / 193265 | Loan Out To LOSANGELE/990381 | Out | - | 3/Apr/2001 | | | |
| 3/Apr/2001 | Loan In From Sender: SANDIEGOZ/193265 Vendor: SANDIEGOZ/193265 | ln | - | LOSANGELE / 990381 | Death | Out | - | 28/Dec/2016 | | | |
| - | - | - | - | SANDIEGOZ / 193265 | Death (ownership only) | - | Out | 28/Dec/2016 | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| Enclosure | - | | | Birth Date/Age | 3/Apr/1993 / 23Y,8M,25D at the time of death | | | | | | |
| Rearing | Undetermined | | | Death Number | [RP25891/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 23052939 SANDIEGOZ / 187309] | | | Local ID | [193265/SANDIEGOZ] | | | | | | |
| Sire | [GAN: 23052951 SANDIEGOZ / 188091] | | | Regional Studbook # | [85-AZA /SANDIEGOZ] | | | | | | |
| | | | | Transpander | 100 000E 0004/EL/L -# LU: L1/04NDIE 0071 | | | | | | |

| | | | | Transponder | [00-0605-6284/[Leg/Left,Hind]/SANDIEGOZ] | | | |
|-------------------|-------------------------------|---------------|------|---------------------|---|-----|-----------|---------------------|
| | | | 8 | 3229153 Local ID: | 193584 | | | |
| Individual | | Fiji banded i | guan | na Enda | ngered (EN) | | Br | achylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out |
| 21/Sep/1993 | Birth/Hatch | ln . | ln | SANDIEGOZ / 193584 | Death | Out | Out | 25/Sep/1993 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | _ | | | Birth Date/Age | 21/San/1003 / OV OM AD at the time of death | | | |

Rearing None [GAN: 10307395 | SANDIEGOZ / 190068] [GAN: 6713193 | SANDIEGOZ / 382060] Dam Sire

21/Sep/1993 / 0Y,0M,4D at the time of death [0033055/SANDIEGOZ] Death Number

[193584/SANDIEGOZ] [86-AZA /SANDIEGOZ] Local ID Regional Studbook #

| | 8229154 Local ID: 193585 | | | | | | | | | | |
|----------------------------|--------------------------------------|-------|------|---------------------|---|-----|-----------|--------------------|--|--|--|
| Individual | Fiji ban | ded i | guan | a Enda | angered (EN) | | Bra | achylophus bulabul | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out | | | |
| 23/Sep/1993 | Birth/Hatch | ln | ln | SANDIEGOZ / 193585 | Death | Out | Out | 24/Mar/1997 | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| Enclosure | - | | | Birth Date/Age | 23/Sep/1993 / 3Y,6M,1D at the time of death | | | | | | |
| Rearing | None | | | Death Number | [0037643/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 10307395 SANDIEGOZ / 190068] | | | Local ID | [193585/SANDIEGOZ] | | | | | | |
| Sire | [GAN: 6713193 SANDIEGOZ / 382060] | | | Regional Studbook # | [87-AZA /SANDIEGOZ] | | | | | | |
| 8229155 Local ID: 193586 | | | | | | | | | | | |

| 8229155 LOCAI ID: 193586 | | | | | | | | | | |
|----------------------------|--------------------------------------|-----|-----|-------------------|--|-----|-----|--------------------|--|--|
| Individual | Fiji banded iguana | | | | Endangered (EN) | | | chylophus bulabula | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | |
| 24/Sep/1993 | Birth/Hatch | ln | ln | SANDIEGOZ / 19358 | 86 Death | Out | Out | 1/Feb/2011 | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | |
| Enclosure | - | | | Birth Date/Age | 24/Sep/1993 / 17Y,4M,8D at the time of death | | | | | |
| Rearing | None | | | Death Number | [0053817/SANDIEGOZ] | | | | | |
| <u>Dam</u> | [GAN: 10307395 SANDIEGOZ / 190068] | | | Local ID | [193586/SANDIEGOZ] | | | | | |
| Sire | [GAN: 6713193 SANDIEGOZ / 382060] | | | Regional Studbook | # [88-AZA /SANDIEGOZ] | | | | | |

| 19978485 Local ID: 193587 | | | | | | | | | | |
|---|---|-----|-----|--|--|------------|-----|-------------|--|--|
| Individual Fiji banded iguana Endangered (EN) Brachylophus bulabula | | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owr | Date out | | |
| 24/Sep/1993 | Birth/Hatch | ln | ln | SANDIEGOZ / 193587 | Death | Out | Out | 27/Mar/2007 | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - None [GAN: 10307395 SANDIEGOZ / 190068] [GAN: 6713193 SANDIEGOZ / 382060] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 24/Sep/1993 / 13Y,6M,3D at the time of death [0049920/SANDIEGOZ] [193587/SANDIEGOZ] [89-AZA /SANDIEGOZ] | | | | | |

| | MIG12-6713077 Local ID: 194193 | | | | | | | | | | | |
|-------------------|---|-------|------|---------------------|--|-----|-----------------------|------------|--|--|--|--|
| Individual | Fiji band | ded i | guan | a Endar | ngered (EN) | | Brachylophus bulabula | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Own | Date out | | | | |
| 23/Sep/1994 | Birth/Hatch | ln | ln | SANDIEGOZ / 194193 | Loan Out To LOSANGELE/990380 | Out | - | 3/Apr/2001 | | | | |
| 3/Apr/2001 | Loan In From Sender: SANDIEGOZ/194193 Vendor: SANDIEGOZ/194193 | ln | - | LOSANGELE / 990380 | Death | Out | - | 3/May/2004 | | | | |
| - | - | - | - | SANDIEGOZ / 194193 | Death (ownership only) | - | Out | 4/May/2004 | | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 23/Sep/1994 / 9Y,7M,11D at the time of death | | | | | | | |
| Rearing | Undetermined | | | Death Number | [RP11202/SANDIEGOZ] | | | | | | | |
| <u>Dam</u> | [GAN: 10307395 SANDIEGOZ / 190068] | | | Local ID | [194193/SANDIEGOZ] | | | | | | | |
| Sire | [GAN: 6713193 SANDIEGOZ / 382060] | | | Regional Studbook # | [100-AZA /SANDIEGOZ] | | | | | | | |
| | | | | Transponder | [00-0605-572F/[Leg/Left,Hind]/SANDIEGOZ] | | | | | | | |
| | | | | | | | | | | | | |

| | 8229479 Local ID: 194221 | | | | | | | | | | | |
|-------------------|--------------------------------------|----------------------------|-----|-------------------|---|------------|------------|--------------------|--|--|--|--|
| Individual | Fiji band | ded iguana Endangered (EN) | | | | | Bra | chylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Owr</u> | Date out | | | | |
| 8/Oct/1994 | Birth/Hatch | ln | ln | SANDIEGOZ / 194 | 221 Death | Out | Out | 20/Sep/2013 | | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | | |
| Enclosure | - | | | Birth Date/Age | 8/Oct/1994 / 18Y,11M,12D at the time of death | | | | | | | |
| Rearing | None | | | Death Number | [0056514/SANDIEGOZ] | | | | | | | |
| <u>Dam</u> | [GAN: 10307395 SANDIEGOZ / 190068] | | | Local ID | [194221/SANDIEGOZ] | | | | | | | |
| Sire | [GAN: 6713193 SANDIEGOZ / 382060] | | | Regional Studbool | k# [101-AZA /SANDIEGOZ] | | | | | | | |

| | 4057557 Local ID: 194273 | | | | | | | | | | | |
|-------------------|---|-------|------|---------------------|---|-----|-----|-----------------------|--|--|--|--|
| Individual | Fiji band | ded i | guan | a Endar | gered (EN) | | Bra | Brachylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | Reported By | Disposition - Recipient/Local ID | Phy | Own | Date out | | | | |
| 1/Dec/1994 | Birth/Hatch | ln | ln | SANDIEGOZ / 194273 | Loan Out To DENVER/980170 | Out | - | 6/May/1998 | | | | |
| 6/May/1998 | Loan In From Vendor: SANDIEGOZ/194273 | ln | - | DENVER / 980170 | Loan Return To Owner SANDIEGOZ/194273 | Out | - | 8/Oct/2003 | | | | |
| 8/Oct/2003 | Loan Return to Us Sender: DENVER/980170 | ln | - | SANDIEGOZ / 194273 | Death | Out | Out | 18/Oct/2010 | | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | | |
| Enclosure | - | | | Birth Date/Age | 1/Dec/1994 / 15Y,10M,17D at the time of death | | | | | | | |
| Rearing | None | | | Death Number | [0053548/SANDIEGOZ] | | | | | | | |
| Dam | [GAN: MIG12-6713044 SANDIEGOZ / 192 | 5491 | | Local ID | [194273/SANDIEGOZ] | | | | | | | |
| Sire | [GAN: 8227973 SANDIEGOZ / 191150] | | | Regional Studbook # | [106-AZA /SANDIEGOZ] | | | | | | | |

| | 8229526 Local ID: 194274 | | | | | | | | | | | |
|--|-----------------------------------|------------|-----------|---------------------|--|-----|-----------|-------------|--|--|--|--|
| Individual Fiji banded iguana Endangered (EN) Brachylophus bulat | | | | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | <u>Ow</u> | n Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out | | | | |
| 8/Dec/1994 | Birth/Hatch | ln | ln | SANDIEGOZ / 194274 | Death | Out | Out | 10/Jul/1999 | | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | | |
| Enclosure | - | | | Birth Date/Age | 8/Dec/1994 / 4Y,7M,2D at the time of death | | | | | | | |
| Rearing | None | | | Death Number | [0040694/SANDIEGOZ] | | | | | | | |
| Dam | [GAN: MIG12-6713044 SANDIEGOZ | / 192549] | | Local ID | [194274/SANDIEGOZ] | | | | | | | |
| Sire | [GAN: 8227973 SANDIEGOZ / 19115 | - | | Regional Studbook # | [107-AZA /SANDIEGOZ] | | | | | | | |
| | | | | 3843274 Local IF | . 405004 | | | | | | | |

| | 13043274 LOCALID. 193001 | | | | | | | | | | | |
|-------------------|-------------------------------------|-------|----------------------------|---------------------|--|-----|-----|--------------------|--|--|--|--|
| Individual | Fiji ban | ded i | led iguana Endangered (EN) | | | | | chylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | | | |
| 2/Jan/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195001 | Death | Out | Out | 16/May/2018 | | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 2/Jan/1995 / 23Y,4M,14D at the time of death | | | | | | | |
| Rearing | None | | | Death Number | [0061572/SANDIEGOZ] | | | | | | | |
| <u>Dam</u> | [GAN: 8228640 SANDIEGOZ / 192451] | | | Local ID | [195001/SANDIEGOZ] | | | | | | | |
| Sire | [GAN: 6713043 SANDIEGOZ / 192522] | | | Regional Studbook # | [112-AZA /SANDIEGOZ] | | | | | | | |

| | MIG12-6713083 Local ID: 195002 | | | | | | | | | | | |
|-------------------|---------------------------------------|-----|-----|---------------------|--|------------|-----|-------------|--|--|--|--|
| Individual | Brachylophus bulabula | | | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owr | Date out | | | | |
| 3/Jan/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195002 | Loan Out To DENVER/980169 | Out | - | 6/May/1998 | | | | |
| 6/May/1998 | Loan In From Vendor: SANDIEGOZ/195002 | ln | - | DENVER / 980169 | Death | Out | - | 10/Jan/2002 | | | | |
| - | - | - | - | SANDIEGOZ / 195002 | Death (ownership only) | - | Out | 9/Jan/2002 | | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | | |
| Enclosure | - | | | Birth Date/Age | 3/Jan/1995 / 7Y,0M,7D at the time of death | | | | | | | |
| Rearing | None | | | Death Number | [RP9780/SANDIEGOZ] [RP9326 /SANDIEGOZ] | | | | | | | |
| Dam | [GAN: 8228640 SANDIEGOZ / 192451] | | | Local ID | [195002/SANDIEGOZ] | | | | | | | |
| Sire | [GAN: 6713043 SANDIEGOZ / 192522] | | | Regional Studbook # | [113-AZA /SANDIEGOZ] | | | | | | | |

| Individual | Fiji ba | Fiji banded iguana | | | Endangered (EN) | | | chylophus bulabula |
|--|---|--------------------|----|---|--|-----|-----|--------------------|
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 12/Jan/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195013 | Loan Out To COLUMBIA/2152 | Out | - | 12/May/1998 |
| 14/May/1998 | Loan In From Sender: SANDIEGOZ/195013 Vendor: SANDIEGOZ/195013 | ln | - | COLUMBIA / 2152 | Death | Out | - | 18/Mar/2001 |
| - | - | - | - | SANDIEGOZ / 195013 | Death (ownership only) | - | Out | 25/Apr/2001 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Hand [GAN: 8228640 SANDIEGOZ / 192451] [GAN: 6713043 SANDIEGOZ / 192522] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 12/Jan/1995 / 6Y,3M,13D at the time of death [195013/SANDIEGOZ] [114-AZA /SANDIEGOZ] | | | |

MIG12-6713084 | Local ID: 195013

| | MIG12-6713085 Local ID: 195031 | | | | | | | | | | | |
|---|--|-------|------|---|--|-----|-----------------------|-------------|--|--|--|--|
| Individual | Fiji ban | ded i | guan | a Enda | ngered (EN) | | Brachylophus bulabula | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | | | |
| 22/Feb/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195031 | Loan Out To COLUMBIA/2153 | Out | - | 12/May/1998 | | | | |
| 14/May/1998 | Loan In From Sender: SANDIEGOZ/195031 Vendor: SANDIEGOZ/195031 | ln | - | COLUMBIA / 2153 | Death | Out | - | 12/Sep/2002 | | | | |
| - | - | - | - | SANDIEGOZ / 195031 | Death (ownership only) | - | Out | 12/Sep/2002 | | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - Hand [GAN: 10307395 SANDIEGOZ / 190068] [GAN: 6713193 SANDIEGOZ / 382060] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 22/Feb/1995 / 7Y,6M,21D at the time of death [195031/SANDIEGOZ] [115-AZA /SANDIEGOZ] | | | | | | | |

| | 8229578 Local ID: 195032 | | | | | | | | | | | | |
|--|--|----------------------------|-----|--|--|-----|-----|--------------------|--|--|--|--|--|
| Individual | Fiji ban | ded iguana Endangered (EN) | | | | | | chylophus bulabula | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | | | | |
| 27/Feb/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195032 | Death | Out | Out | 4/Mar/1995 | | | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 10307395 SANDIEGOZ / 190068] [GAN: 6713193 SANDIEGOZ / 382060] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID | Captive Birth/Hatch San Diego Zoo 27/Feb/1995 / 0Y,0M,5D at the time of death [0034995/SANDIEGOZ] [195032/SANDIEGOZ] | | | | | | | | |

| 1/Jan/1950 | | | | | 10. | /Jul/202 | 24 |
|------------------------------------|--|--------------------|------|---------------------------------|---|------------|--------------------------------------|
| | | | 8 | 229751 Local ID: | 195265 | | |
| Individual Date in | Fiji b | anded i | _ | a Enda | ingered (EN) Disposition - Recipient/Local ID | Dhy | Brachylophus bulabul Own Date out |
| 1/Oct/1995 | Birth/Hatch | <u>i iiy</u> In | In | SANDIEGOZ / 195265 | Death | | Out 22/May/2001 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | Out | Out 22/11/2/2001 |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| Enclosure | - | | | Birth Date/Age | 1/Oct/1995 / 5Y,7M,21D at the time of death | | |
| Rearing | None | | | Death Number | [0043053/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: MIG12-6713044 SANDIEGOZ / | - | | Local ID | [195265/SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: 8227973 SANDIEGOZ / 191150 |] | | Regional Studbook # | [116-AZA /SANDIEGOZ] | | |
| | | | MIG1 | 2-8229752 Local | I ID: 195266 | | |
| Individual | Fiji b | anded i | guan | a Enda | ingered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 3/Oct/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195266 | Loan Out To DETROIT/11143 | Out | |
| 26/Aug/2003 | Loan In From Sender: SANDIEGOZ/195266 | ln | - | DETROIT / 11143 | Death | Out | - 21/Nov/2005 |
| | Vendor: SANDIEGOZ/195266 | _ | _ | SANDIEGOZ / 195266 | Death (ownership only) | | Out 21/Nov/2005 |
| | | - | - | | | - | Out 21/1404/2003 |
| Sex/Contraception Hybrid Status | Male / - | | | Birth Type Birth Location | Captive Birth/Hatch | | |
| Enclosure | Not a hybrid | | | Birth Date/Age | San Diego Zoo 3/Oct/1995 / 10Y,1M,18D at the time of death | | |
| Rearing | - None | | | Death Number | [RP11872/SANDIEGOZ] | | |
| Dam | [GAN: MIG12-6713044 SANDIEGOZ / | 1925491 | | Local ID | [195266/SANDIEGOZ] | | |
| Sire | [GAN: 8227973 SANDIEGOZ / 191150 | | | Regional Studbook # | [117-AZA /SANDIEGOZ] | | |
| | | | 2 | \$752104 L cool ID | . 105277 | | |
| Individual | Eiii b | andad i | | 6753194 Local ID | | | Brochylenhus hulshul |
| | | anded i | - | | ingered (EN) | DI | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Pny | Owi | Reported By | Disposition - Recipient/Local ID | Pny | Own Date out |
| 19/Oct/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195277 | Death | Out | Out 17/Feb/2009 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 19/Oct/1995 / 13Y,3M,29D at the time of death | | |
| Rearing - | None | | | Death Number | [0051764/SANDIEGOZ] | | |
| <u>Dam</u> Sire | [GAN: 23052954 SANDIEGOZ / 18809 [GAN: 27311553 SANDIEGOZ / 18809 | - | | Local ID Regional Studbook # | [195277/SANDIEGOZ] [118-AZA /SANDIEGOZ] | | |
| | [0,44,27011000] 0,445120027 10000 | ~ <u></u> | | | [11072170711012002] | | |
| | | | | 229754 Local ID: | | | |
| Individual | • | anded i | - | | ingered (EN) | ъ. | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Pny | OWI | Reported By | Disposition - Recipient/Local ID | | Own Date out |
| 24/Oct/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195280 | Death | Out | Out 28/Jun/1997 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 24/Oct/1995 / 1Y,8M,4D at the time of death | | |
| Rearing D | None | | | Death Number | [0038064/SANDIEGOZ] | | |
| <u>Dam</u> Sire | [GAN: 23052954 SANDIEGOZ / 18809 | - | | Local ID Regional Studbook # | [195280/SANDIEGOZ] | | |
| <u> </u> | [GAN: 27311553 SANDIEGOZ / 18809 | 3] | | Regional Studbook # | [119-AZA /SANDIEGOZ] | | |
| | | | 8 | 229755 Local ID: | 195281 | | |
| Individual | Fiji b | anded i | guan | a Enda | ingered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owi | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 24/Oct/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195281 | Death | Out | Out 29/Oct/1995 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| Enclosure | - | | | Birth Date/Age | 24/Oct/1995 / 0Y,0M,5D at the time of death | | |
| Rearing | None | | | Death Number | [0035966/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: 23052954 SANDIEGOZ / 18809 | 6] | | Local ID | [195281/SANDIEGOZ] | | |
| Sire | [GAN: 27311553 SANDIEGOZ / 18809 | - | | Regional Studbook # | [120-AZA /SANDIEGOZ] | | |
| | | | 2! | 5215170 Local ID | : 195282 | | |
| Individual | Fiii b | anded i | | <u> </u> | ingered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | - | Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| | | | | | | | |
| 24/Oct/1995 | Birth/Hatch | ln | ln | SANDIEGOZ / 195282 | Death | Out | Out 26/Sep/2013 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| Enclosure Posting | - Nana | | | Birth Date/Age | 24/Oct/1995 / 17Y,11M,2D at the time of death | | |
| <u>Rearing</u> Dam | None [CAN: 23052954 SANDIEGOZ / 18809 | 61 | | Death Number Local ID | [0056536/SANDIEGOZ] | | |
| Sire | [GAN: 23052954 SANDIEGOZ / 18809 [GAN: 27311553 SANDIEGOZ / 18809 | | | Regional Studbook # | [195282/SANDIEGOZ] [121-AZA /SANDIEGOZ] | | |
| <u></u> | [OAN. 21011000 OANDIEGOZ / 10008 | ~J | | g.cai Glaabook # | [121-DEN/ONNUILGOZ] | | |

| | | | 8229757 Local ID | : 195283 | | |
|---|--|-----------|---------------------------------|---|------------|-----------------------|
| Individual | Fiji ban | ded iguai | na Enda | angered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | _ | n Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 24/Oct/1995 | Birth/Hatch | ln In | SANDIEGOZ / 195283 | Death | Out | Out 27/Oct/1995 |
| Sex/Contraception | Female / - | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | Birth Location | San Diego Zoo | | |
| <u>Enclosure</u> Rearing | - None | | Birth Date/Age Death Number | 24/Oct/1995 / 0Y,0M,3D at the time of death [0035956/SANDIEGOZ] | | |
| Dam_ | None [GAN: 23052954 SANDIEGOZ / 188096] | | Local ID | [195283/SANDIEGOZ] | | |
| Sire | [GAN: 27311553 SANDIEGOZ / 188093] | | Regional Studbook # | [122-AZA /SANDIEGOZ] | | |
| | | 1 | 8229758 Local ID | : 195284 | | |
| Individual | Fiji ban | ded igua | na Enda | angered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 24/Oct/1995 | Birth/Hatch | in In | SANDIEGOZ / 195284 | Death | Out | Out 11/Mar/2002 |
| Sex/Contraception | Female / - | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | Birth Location | San Diego Zoo | | |
| <u>Enclosure</u> | ī., | | Birth Date/Age | 24/Oct/1995 / 6Y,4M,15D at the time of death | | |
| <u>Rearing</u> Dam_ | None | | <u>Death Number</u> Local ID | [0044129/SANDIEGOZ] | | |
| Sire | [GAN: 23052954 SANDIEGOZ / 188096] [GAN: 27311553 SANDIEGOZ / 188093] | | Regional Studbook # | [195284/SANDIEGOZ] [123-AZA /SANDIEGOZ] | | |
| | [GAN. 27311333 GANDIEGO27 100093] | | <u>g.oa. o.uusoon n</u> | [120-AZA/OANDIEGOZ] | | |
| | | | 8229845 Local ID | | | |
| Individual | • | ded iguai | | angered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy Ow | n Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | |
| 19/Jan/1996 | Birth/Hatch | ln In | SANDIEGOZ / 196016 | Death | Out | Out 2/Feb/1996 |
| Sex/Contraception | Male / - | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | Birth Location | San Diego Zoo | | |
| <u>Enclosure</u> Rearing | - Nana | | Birth Date/Age Death Number | 19/Jan/1996 / 0Y,0M,14D at the time of death | | |
| Dam | None [GAN: 8228640 SANDIEGOZ / 192451] | | Local ID | [0036286/SANDIEGOZ] [196016/SANDIEGOZ] | | |
| Sire | [GAN: 6713043 SANDIEGOZ / 192522] | | Regional Studbook # | [136-AZA /SANDIEGOZ] | | |
| | | 1 | 5729611 Local II | D: 196017 | | |
| Individual | Fiji ban | ded iguai | na Enda | angered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 19/Jan/1996 | Birth/Hatch | in In | SANDIEGOZ / 196017 | Death | Out | Out 9/Jun/2005 |
| Sex/Contraception | Female / - | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | Birth Location | San Diego Zoo | | |
| <u>Enclosure</u> | - | | Birth Date/Age | 19/Jan/1996 / 9Y,4M,21D at the time of death | | |
| Rearing - | None | | Death Number | [0047953/SANDIEGOZ] | | |
| Dam Sira | [GAN: 8228640 SANDIEGOZ / 192451] | | Local ID | [196017/SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: 6713043 SANDIEGOZ / 192522] | | Regional Studbook # | [124-AZA /SANDIEGOZ] | | |
| | | 1 | 3843292 Local II | D: 196018 | | |
| Individual | • | ded iguai | | angered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy Ow | n Reported By | <u>Disposition - Recipient/Local ID</u> | Phy | |
| 22/Jan/1996 | Birth/Hatch | ln In | SANDIEGOZ / 196018 | Death | Out | Out 2/Jul/2004 |
| Sex/Contraception | Female / - | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | Birth Location | San Diego Zoo | | |
| Enclosure Rearing | - None | | Birth Date/Age | 22/Jan/1996 / 8Y,5M,10D at the time of death | | |
| <u>Rearing</u> D <u>am</u> | None [GAN: 8228640 SANDIEGOZ / 192451] | | Death Number Local ID | [0046837/SANDIEGOZ] [196018/SANDIEGOZ] | | |
| Sire | [GAN: 6713043 SANDIEGOZ / 192522] | | Regional Studbook # | [195016/SANDIEGOZ] | | |
| - | [| | | · · · · · · · · · · · · · · · · · · · | | |
| Individual | Fig. b | | 9978535 Local II | | | Drachylanhua hulatud |
| | • | ded iguai | | angered (EN) | Б. | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | | n Reported By | Disposition - Recipient/Local ID | Phy | |
| 18/Nov/1996 | Birth/Hatch | ln In | SANDIEGOZ / 196231 | Death | Out | Out 17/Jul/2006 |
| | Female / - | | Birth Type | Captive Birth/Hatch | | |
| | | | Birth Location | San Diego Zoo | | |
| Hybrid Status | Not a hybrid | | | • | | |
| Hybrid Status Enclosure | - | | Birth Date/Age | 18/Nov/1996 / 9Y,7M,29D at the time of death | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam | Not a hybrid - None [GAN: 23052954 SANDIEGOZ / 188096] | | | • | | |

Copyright, Species360, 2024. All rights reserved.

| | | | 23 | 3053132 Local ID: | 196253 | | | | | | |
|--|---|-------|------|--|--|-----|-----|---|--|--|--|
| Individual | Fiji ban | ded i | guan | a Enda | ngered (EN) | | Bra | achylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Ow | n Date out | | | |
| 22/Dec/1996 | Birth/Hatch | ln | ln | SANDIEGOZ / 196253 | Death | Out | Out | 10/Oct/2014 | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: MIG12-6713085 SANDIEGOZ / 195 [GAN: MIG12-6713084 SANDIEGOZ / 195 | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 22/Dec/1996 / 17Y,9M,18D at the time of death [0057648/SANDIEGOZ] [196253/SANDIEGOZ] [127-AZA /SANDIEGOZ] | | | | | | |
| Individual | MIG12-23053134 Local ID: 197086 Individual Fiji banded iguana Endangered (EN) Brachylophus bulab | | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | | • | Reported By | ngered (EN) <u>Disposition - Recipient/Local ID</u> | Phy | | achylophus bulabul n <u>Date out</u> | | | |
| 11/Feb/1997 | Birth/Hatch | ln | ln | SANDIEGOZ / 197086 | Loan Out To FRESNO/280233 | Out | - | 20/Jul/2008 | | | |
| 20/Jul/2008 | Loan In From Sender: SANDIEGOZ/197086 Vendor: SANDIEGOZ/197086 | ln | - | FRESNO / 280233 | Death | Out | - | 28/Oct/2008 | | | |
| - | - | - | - | SANDIEGOZ / 197086 | Death (ownership only) | - | Out | 28/Oct/2008 | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 25215131 SANDIEGOZ / 192523] [GAN: 23052952 SANDIEGOZ / 188092] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 11/Feb/1997 / 11Y,8M,17D at the time of death [RP14484/SANDIEGOZ] [197086/SANDIEGOZ] [128-AZA /SANDIEGOZ] [00-0699-E0D0/[Leg/Left,Hind]/SANDIEGOZ] | | | | | | |

| 15729704 Local ID: 197087 | | | | | | | | |
|-----------------------------|--------------------------------------|------------|------|---------------------|--|-----|-----|--------------------|
| Individual | Fiji ban | ded i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owi | n Reported By | Disposition - Recipient/Local ID | Phy | Own | Date out |
| 15/Feb/1997 | Birth/Hatch | ln | ln | SANDIEGOZ / 197087 | Death | Out | Out | 10/Jul/2005 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 15/Feb/1997 / 8Y,4M,25D at the time of death | | | |
| Rearing | None | | | Death Number | [0048077/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 25215131 SANDIEGOZ / 192523] | | | Local ID | [197087/SANDIEGOZ] | | | |
| Siro | [CANL 22052052 CANDIFCO7 / 400002] | | | Pagional Studbook # | [400 A7A (CANIDIFCO7] | | | |

| Dam Sire | [GAN: 25215131 SANDIEGOZ / 192523] [GAN: 23052952 SANDIEGOZ / 188092] | | | Local ID Regional Studbook # | [197087/SANDIEGOZ] [129-AZA /SANDIEGOZ] | | | |
|-------------|--|--------|-----------|-------------------------------|--|------------|-----|--------------------|
| | | | 1 | 9978543 Local ID | : 197162 | | | |
| Individual | Fiji baı | nded i | guar | na Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Ow</u> | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own | Date out |
| 23/Feb/1997 | Birth/Hatch | ln | ln | SANDIEGOZ / 197162 | Loan Out To ST LOUIS/105900 | Out | - | 27/Jun/2007 |
| 28/Jun/2007 | Loan In From Sender: SANDIEGOZ/197162 | ln | - | ST LOUIS / 105900 | Death | Out | - | 26/Sep/2013 |

| | Vendor: SANDIEGOZ/197162 | | | | |
|-------------------|--------------------------------------|------------------------|--|-------|-------------|
| - | - | SANDIEGOZ / 197162 | Death (ownership only) | - Out | 26/Sep/2013 |
| Sex/Contraception | Male / - | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | Birth Location | San Diego Zoo | | |
| <u>Enclosure</u> | - | Birth Date/Age | 23/Feb/1997 / 16Y,7M,3D at the time of death | | |
| Rearing | Undetermined | Death Number | [RP21142/SANDIEGOZ] | | |
| Dam | [GAN: 25215131 SANDIEGOZ / 192523] | Local ID | [197162/SANDIFGOZ] | | |

| Sire | [GAN: 25215131 SANDIEGOZ / 192523] [GAN: 23052952 SANDIEGOZ / 188092] | Regional Studbook # Transponder | [19/162/SANDIEGOZ] [141-AZA /SANDIEGOZ] [00-0689-5BBE/[Leg/Right,Hind]/SANDIEGOZ] |
|------|--|---------------------------------|--|
| | | | |

| MIG12-6713134 Local ID: 197421 | | | | | | | | | |
|----------------------------------|--------------------------------------|--------|------|---------------------|--|-----|------------|--------------------|--|
| Individual | Fiji bar | ided i | guan | na Endangered (EN) | | | | chylophus bulabula | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | <u>Own</u> | Date out | |
| 28/Aug/1997 | Birth/Hatch | ln | ln | SANDIEGOZ / 197421 | Loan Out To AUDUBON/100258 | Out | - | 12/Jun/2001 | |
| - | - | - | - | SANDIEGOZ / 197421 | Death (ownership only) | - | Out | 20/Sep/2003 | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 28/Aug/1997 / 6Y,0M,23D at the time of death | | | | |
| Rearing | None | | | Local ID | [197421/SANDIEGOZ] | | | | |
| <u>Dam</u> | [GAN: 10307395 SANDIEGOZ / 190068] | | | Regional Studbook # | [133-AZA /SANDIEGOZ] | | | | |
| Sire | [GAN: 6713193 SANDIEGOZ / 382060] | | | | | | | | |

| 1/Jan/1950 | | | | | '\ |)/Jul/20: | | |
|------------------------------------|--|------------------|------------|--|---|-------------------|-----------|----------------------------|
| Individual | Fiji ban | | | 2-6713135 Local | | | Dro | achylophus bulabı |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | ngered (EN) Disposition - Recipient/Local ID | Phy | | <u>n Date out</u> |
| 28/Aug/1997 23/Sep/1999 | Birth/Hatch Loan In From Sender: SANDIEGOZ/197422 | ln In | ln - | SANDIEGOZ / 197422 TULSA / 13321 | Loan Out To TULSA/13321 Death | Out | - | 23/Sep/1999 8/Apr/2001 |
| -0, СОР, 1000 | Vendor: SANDIEGOZ/197422 | | | | | - Cui | | · |
| | - | - | - | SANDIEGOZ / 197422 | Death (ownership only) | - | Out | 8/Apr/2001 |
| Sex/Contraception Hybrid Status | Female / - | | | Birth Type Birth Location | Captive Birth/Hatch San Diego Zoo | | | |
| nclosure | Not a hybrid - | | | Birth Date/Age | 28/Aug/1997 / 3Y,7M,11D at the time of death | | | |
| Rearing | Undetermined | | | Death Number | [RP8984/SANDIEGOZ] | | | |
| Dam Bire | [GAN: 10307395 SANDIEGOZ / 190068] [GAN: 6713193 SANDIEGOZ / 382060] | | | Local ID Regional Studbook # | [197422/SANDIEGOZ] [134-AZA /SANDIEGOZ] | | | |
| · | [6,44, 6, 16,166 6,445,12662, 662566] | | | | <u> </u> | | | |
| | | | | 2-2892087 Local | | | _ | |
| Individual | Fiji bandaril asal ID | | _ | | ngered (EN) | DI. | | chylophus bulab |
| Date in | Acquisition - Vendor/Local ID | | Owr | Reported By | Disposition - Recipient/Local ID | | | Date out |
| 23/Nov/1997 23/Sep/1999 | Birth/Hatch Loan In From Sender: SANDIEGOZ/197481 Vendor: SANDIEGOZ/197481 | In In | In - | SANDIEGOZ / 197481 OMAHA / 11330 | Loan Out To OMAHA/11330 Death | Out | - | 22/Sep/1999 23/Nov/2004 |
| | - | - | - | SANDIEGOZ / 197481 | Death (ownership only) | - | Out | 23/Nov/2004 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo 23/Nov/1997 / 7Y,0M,0D at the time of death | | | |
| Rearing | - Undetermined | | | Death Number | [RP11161/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 25215131 SANDIEGOZ / 192523] | | | Local ID | [197481/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 23052952 SANDIEGOZ / 188092] | | | Regional Studbook # | [142-AZA /SANDIEGOZ] | | | |
| | | | 19 | 9978575 Local ID: | : 197483 | | | |
| Individual | Fiji ban | ded i | guan | a Enda | ngered (EN) | | Bra | achylophus bulab |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | <u>Ow</u> | n Date out |
| /Nov/1997 //Aug/2009 | Birth/Hatch Loan In From Sender: SANDIEGOZ/197483 Vendor: SANDIEGOZ/197483 | In In | In - | SANDIEGOZ / 197483 SAN ANTON / G09003 | Loan Out To SAN ANTON/G09003 Death | Out Out | - | 6/Aug/2009 10/Nov/2012 |
| | - | - | - | SANDIEGOZ / 197483 | Death (ownership only) | - | Out | 10/Nov/2012 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo | | | |
| Rearing | - Undetermined | | | Death Number | 1/Nov/1997 / 15Y,0M,9D at the time of death [RP19470/SANDIEGOZ] | | | |
| Dam_ | [GAN: 25215131 SANDIEGOZ / 192523] | | | Local ID | [197483/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 23052952 SANDIEGOZ / 188092] | | | Regional Studbook # | [140-AZA /SANDIEGOZ] | | | |
| | | | 6 | 713981 Local ID: | 198030 | | | |
| Individual | Fiji ban | | _ | | ngered (EN) | Dhu | | chylophus bulab |
| <u>Date in</u> 22/Jan/1998 | Acquisition - Vendor/Local ID Birth/Hatch | <u>Pny</u> In | ln | Reported By SANDIEGOZ / 198030 | <u>Disposition - Recipient/Local ID</u> Loan Out To AUDUBON/100257 | <u>Pny</u> Out | OWI | n Date out 12/Jun/2001 |
| 210a11/1330 | - | - | - | SANDIEGOZ / 198030 | Death (ownership only) | - | Out | 21/May/2015 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure Pearing | - None | | | Birth Date/Age Death Number | 22/Jan/1998 / 17Y,3M,29D at the time of death | ו | | |
| Rearing Dam | None [GAN: 15729611 SANDIEGOZ / 196017] | | | Local ID | [RP23683/SANDIEGOZ] [198030/SANDIEGOZ] | | | |
| Sire | [GAN: 6713034 SANDIEGOZ / 191132] | | | Regional Studbook # | [137-AZA /SANDIEGOZ] | | | |
| | | N | /IIG1: | 2-28555441 Loca | I ID: 198127 | | | |
| Individual | Fiji ban | ded i | guan | a Enda | ngered (EN) | | Bra | achylophus bulab |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owi | n Date out |
| //Sep/1995 | Birth/Hatch | - | ln | SANDIEGOZ / 198127 | | - | - | - |
| //Sep/1995 !4/Apr/1998 | Loan In From Vendor: SANDIEGOZ/198127 Loan Return to Us Sender: DENVER/950393 | In In | - | DENVER / 950393 SANDIEGOZ / 198127 | Loan Return To Owner SANDIEGOZ/198127 Loan Out To LOSANGELE/990382 | Out Out | - | 23/Apr/1998 3/Apr/2001 |
| 3/Apr/2001 | Loan In From Sender: SANDIEGOZ/198127 Vendor: SANDIEGOZ/198127 | ln | - | LOSANGELE / 990382 | Death | Out | - | 27/Jul/2004 |
| Pay/Cant | Francis (Had to 1970) | - | - | SANDIEGOZ / 198127 | Death (ownership only) | - | Out | 28/Jul/2004 |
| Sex/Contraception Hybrid Status | Female / Undetermined(Active) | | | Birth Type Birth Location | Captive Birth/Hatch | | | |
| Enclosure | Not a hybrid - | | | Birth Date/Age | Denver Zoological Garden 7/Sep/1995 / 8Y,10M,21D at the time of death | | | |
| learing | Undetermined | | | Death Number | [RP11203/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: MIG12-6713042 SANDIEGOZ / 192 | | | Local ID | [198127/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: MIG12-28546900 SANDIEGOZ / 19 | 20981 | | Regional Studbook # | [138-AZA /SANDIEGOZ] | | | |

[198127/SANDIEGOZ] [138-AZA /SANDIEGOZ]

Regional Studbook #

Sire

[GAN: MIG12-6713042 | SANDIEGOZ / 192362] [GAN: MIG12-28546900 | SANDIEGOZ / 192098]

| | | | 6713155 L | ocal ID- | | | | |
|---|--|--|--|--|--|----------------------------|------------------------------------|--|
| Individual | | onded in | • | | | | Dro | ahulahula hulahula |
| Individual Date in | Acquisition - Vendor/Local ID | anded igu Phy (| uana Own Reported B | | ngered (EN) Disposition - Recipient/Local ID | Phy | | chylophus bulabula n Date out |
| 11/Nov/1995 | Birth/Hatch | | In SANDIEGOZ | _ | - | - | - | - |
| 11/Nov/1995 24/Apr/1998 | Loan In From Vendor: SANDIEGOZ/198128 Loan Return to Us Sender: DENVER/950466 | In - | DENVER / 95SANDIEGOZ | | Loan Return To Owner SANDIEGOZ/198128 Death | Out Out | - Out | 23/Apr/1998 27/Jul/2002 |
| Sex/Contraception | Female / - | | Birth Type | ., 100120 | Captive Birth/Hatch | | Out | 21/04#2002 |
| Hybrid Status | Not a hybrid | | Birth Locatio | _ | Denver Zoological Garden | | | |
| Enclosure Rearing | - Undetermined | | Birth Date/Ag Death Number | | 11/Nov/1995 / 6Y,8M,16D at the time of death [0044718/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: MIG12-6713042 SANDIEGOZ / | | Local ID | | [198128/SANDIEGOZ] | | | |
| Sire | [GAN: MIG12-28546900 SANDIEGOZ | / 192098] ———— | Regional Stu | dbook # | [139-AZA /SANDIEGOZ] | | | |
| | | | 8230593 L | ocal ID: | 198234 | | | |
| Individual | Fiji t | anded igu | uana | Endan | gered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy (| Own Reported E | y | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | <u>Owr</u> | Date out |
| 27/Sep/1998 | Birth/Hatch | ln I | In SANDIEGOZ | :/ 198234 | Death | Out | Out | 21/Jan/1999 |
| Sex/Contraception Hybrid Status | Female / - | | Birth Type Birth Locatio | n | Captive Birth/Hatch | | | |
| Enclosure | Not a hybrid - | | Birth Date/Ag | _ | San Diego Zoo 27/Sep/1998 / 0Y,3M,25D at the time of death | | | |
| Rearing | None | | Death Number | <u>er</u> | [0040090/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: MIG12-6713077 SANDIEGOZ / | | Local ID | | [198234/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 6713043 SANDIEGOZ / 192522 |] | Regional Stu | dbook # | [145-AZA /SANDIEGOZ] | | | |
| | | | 8230598 L | ocal ID: | 198274 | | | |
| Individual | Fiji l | anded igu | uana | Endan | gered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy (| Own Reported E | У | Disposition - Recipient/Local ID | <u>Phy</u> | Owr | Date out |
| 29/Oct/1998 | Birth/Hatch | ln I | In SANDIEGOZ | / 198274 | Death | Out | Out | 19/Jan/1999 |
| Sex/Contraception | Male / - | | Birth Type | | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | Birth Locatio | _ | San Diego Zoo | | | |
| Enclosure Rearing | - None | | Birth Date/Ag Death Number | _ | 29/Oct/1998 / 0Y,2M,21D at the time of death [0040077/SANDIEGOZ] | | | |
| Dam | [GAN: 26753194 SANDIEGOZ / 19527 | 71 | Local ID | <u> </u> | [198274/SANDIEGOZ] | | | |
| Sire | [GAN: 6713034 SANDIEGOZ / 191132 | • | Regional Stu | dbook # | [146-AZA /SANDIEGOZ] | | | |
| | | | 8230599 L | ocal ID: | 198275 | | | |
| Individual | Fiji l | anded igu | uana | Endar | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy (| Own Reported B | y | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 29/Oct/1998 | Birth/Hatch | ln i | In SANDIEGOZ | / 198275 | Death | Out | Out | 26/Mar/1999 |
| Sex/Contraception | Female / - | | Birth Type | | Captive Birth/Hatch | Out | | |
| Hybrid Status Enclosure | Not a hybrid | | Birth Locatio | | | Out | | |
| Rearing | | | | _ | San Diego Zoo | Out | | |
| Dam | - None | | Birth Date/Ag | ge ge | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death | Out | | |
| | - None [GAN: 26753194 SANDIEGOZ / 1952] | 7] | | ge ge | San Diego Zoo | Out | | |
| Sire | | • | Birth Date/Ag Death Number | ge er | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] | Out | | |
| | [GAN: 26753194 SANDIEGOZ / 19527 | • | Birth Date/Ag Death Number Local ID | ge er adbook # | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] | Out | | |
| | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 | • | Birth Date/Ag Death Number Local ID Regional Stu | ge er adbook# | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] | Gui | Bra | chylophus bulabula |
| Sire | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 | oanded igu | Birth Date/Ag Death Number Local ID Regional Stu | ocal ID: | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] | | | ichylophus bulabula n <u>Date out</u> |
| Sire Individual | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132] Fiji k | eanded igu | Birth Date/Aş Death Numbe Local ID Regional Stu 8230600 L | ge er idbook# ocal ID: ′ Endan | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 agered (EN) | Phy | <u>Owr</u> | , , |
| Individual Date in 5/Nov/1998 Sex/Contraception | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID | eanded igu | Birth Date/Aş Death Numbr Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type | adbook # ocal ID: Endan By 7 / 198287 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 198287 Disposition - Recipient/Local ID | Phy | <u>Owr</u> | Date out |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch | eanded igu | Birth Date/Aş Death Numbr Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio | ocal ID: / Endan 8y // 198287 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19ered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo | Phy | <u>Owr</u> | Date out |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - | eanded igu | Birth Date/Aş Death Numbr Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/Aş | ocal ID: 1 Endan 8y 7 / 198287 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death | Phy | <u>Owr</u> | Date out |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji b Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None | eanded igu Phy (| Birth Date/Aş Death Numbr Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio | ocal ID: 1 Endan 8y 7 / 198287 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19ered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] | Phy | <u>Owr</u> | Date out |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - | eanded igu Phy (| Birth Date/Aç Death Numbe Local ID Regional Stu 8230600 L uana Own Reported Birth Type Birth Locatio Birth Date/Aç Death Numbe | ocal ID: / Endan By 7 / 198287 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death | Phy | <u>Owr</u> | Date out |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji t Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] | eanded igu Phy (| Birth Date/Aş Death Numbe Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/Aş Death Numbe Local ID | ocal ID: / Endan Z / 198287 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19ered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] [198287/SANDIEGOZ] [198287/SANDIEGOZ] [148-AZA /SANDIEGOZ] | Phy | <u>Owr</u> | Date out |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji t Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 | eanded igu Phy (| Birth Date/Ag Death Number Local ID Regional Stu 8230600 L uana Own Reported Birth Type Birth Locatio Birth Date/Ag Death Number Local ID Regional Stu 8612-2985195 | ae er ddbook# ocal ID: / Endan By Z/198287 en ddbook# | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19ered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] [198287/SANDIEGOZ] [198287/SANDIEGOZ] [148-AZA /SANDIEGOZ] | Phy | Out | Date out |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji t Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 | eanded igu Phy (n i | Birth Date/Ag Death Number Local ID Regional Stu 8230600 L uana Own Reported Birth Type Birth Locatio Birth Date/Ag Death Number Local ID Regional Stu 8612-2985195 | ocal ID: / Endan By // 198287 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19ered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] [198287/SANDIEGOZ] [148-AZA /SANDIEGOZ] [148-AZA /SANDIEGOZ] | Phy Out | Out | Date out 12/Jul/2018 |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 3/May/1999 | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 | panded igu Phy (in i 77] Mi panded igu Phy (in i | Birth Date/As Death Numbe Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/As Death Numbe Local ID Regional Stu 1G12-2985195 uana Own Reported E In SANDIEGOZ | ocal ID: / Endan By Z/198287 Idbook # 9 Local Endan By Z/199069 | San Diego Zoo 29/Oct/1998 / OY,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19ered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] [198287/SANDIEGOZ] [148-AZA /SANDIEGOZ] [148-AZA /SANDIEGOZ] ID: 199069 10gered (EN) Disposition - Recipient/Local ID - | Phy Out | Owr Out Bra Owr | n Date out 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 13/Jul/2018 15/Jul/2018 |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 3/May/1999 3/May/1999 | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji b Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 | panded igu Phy (h i 77] | Birth Date/As Death Number Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/As Death Number Local ID Regional Stu IG12-2985195 uana Own Reported E In SANDIEGOZ SAN ANTON | adbook # Cocal ID: Cocal | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19ered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] [198287/SANDIEGOZ] [198287/SANDIEGOZ] [148-AZA /SANDIEGOZ] ID: 199069 Igered (EN) Disposition - Recipient/Local ID - Loan Return To Owner SANDIEGOZ/199069 | Phy Out | Owr Out | Date out 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 13/Aug/1999 |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 3/May/1999 | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 | panded igu Phy (h i 77] | Birth Date/Ag Death Number Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/Ag Death Number Local ID Regional Stu 812-2985195 uana Own Reported E In SANDIEGOZ SAN ANTON | ae er ddbook # Endan By 7 / 198287 Indbook # Endan By 7 / 198287 Indbook # Indbook | San Diego Zoo 29/Oct/1998 / OY,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19ered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] [198287/SANDIEGOZ] [148-AZA /SANDIEGOZ] [148-AZA /SANDIEGOZ] ID: 199069 10gered (EN) Disposition - Recipient/Local ID - | Phy Out Phy - Out Out Out | Owr Out Bra Owr | n Date out 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 13/Jul/2018 15/Jul/2018 |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 3/May/1999 3/May/1999 7/Oct/1999 | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/199069 Loan Return to Us Sender: SAN ANTON/99 Loan In From Sender: SANDIEGOZ/199069 Vendor: SANDIEGOZ/199069 | panded igu Phy (h i i mi i | Birth Date/As Death Numbe Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/As Death Numbe Local ID Regional Stu 1612-2985195 uana Own Reported E In SANDIEGOZ - SAN ANTON - SANDIEGOZ - DETROIT / 17 | ae er ddbook # Cocal ID: / Endan By Z/198287 on ae er er ddbook # P Local Endan By Z/199069 Z/199069 Z/2199069 Z/21 | San Diego Zoo 29/Oct/1998 / OY,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19ered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] [198287/SANDIEGOZ] [148-AZA /SANDIEGOZ] [148-AZA /SANDIEGOZ] ID: 199069 10gered (EN) Disposition - Recipient/Local ID - Loan Return To Owner SANDIEGOZ/199069 Loan Out To DETROIT/12321 Death | Phy Out Phy - Out Out Out | Owr Out Bra Owr - - | Date out 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 13/Aug/1999 13/Aug/1999 12//Feb/2014 |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 3/May/1999 3/May/1999 21/May/2009 | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/199069 Loan Return to Us Sender: SAN ANTON/99 Loan In From Sender: SANDIEGOZ/199069 Vendor: SANDIEGOZ/199069 | panded igu Phy (h i i mi i | Birth Date/As Death Numbe Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/As Death Numbe Local ID Regional Stu 1G12-2985195 uana Own Reported E In SANDIEGOZ - SAN ANTON - SANDIEGOZ - DETROIT / 12 | ae er ddbook # Cocal ID: / Endan By Z/198287 on ae er er ddbook # P Local Endan By Z/199069 Z/199069 Z/2199069 Z/21 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19gered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] [198287/SANDIEGOZ] [198287/SANDIEGOZ] [148-AZA /SANDIEGOZ] ID: 199069 10gered (EN) Disposition - Recipient/Local ID - Loan Return To Owner SANDIEGOZ/199069 Loan Out To DETROIT/12321 Death Death (ownership only) | Phy Out Phy - Out Out Out | Owr Out Bra Owr - - | Date out 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 13/Aug/1999 13/Aug/1999 14/Aug/1999 15/Aug/1999 |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 3/May/1999 3/May/1999 21/May/2009 - Sex/Contraception | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/199069 Loan Return to Us Sender: SAN ANTON/99 Loan In From Sender: SANDIEGOZ/199069 Vendor: SANDIEGOZ/199069 - Male / - | panded igu Phy (h i i mi i | Birth Date/As Death Numbe Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/As Death Numbe Local ID Regional Stu IG12-2985195 uana Own Reported E In SANDIEGOZ - SAN ANTON - SANDIEGOZ - DETROIT / 12 - SANDIEGOZ Birth Type | ae er ddbook # Cocal ID: / Endan By Z/198287 Indee er ddbook # 9 Local Endan By Z/199069 Z/199069 Z/2199069 Z/2199069 | San Diego Zoo 29/Oct/1998 / OY,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 198287 198287 198287 198287 198287 198287 198287/SANDIEGOZ] 198287/SANDIEGOZ] 198287/SANDIEGOZ] 198287/SANDIEGOZ] 198287/SANDIEGOZ] 198287/SANDIEGOZ] 1148-AZA /SANDIEGOZ] 101: 199069 101: 199069 102: 199069 103: 199069 104: 199069 105: 199069 106: 199069 107: 199069 108: 199069 109: | Phy Out Phy - Out Out Out | Owr Out Bra Owr - - | Date out 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 13/Aug/1999 13/Aug/1999 12//Feb/2014 |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 3/May/1999 3/May/1999 21/May/2009 - Sex/Contraception Hybrid Status | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/199069 Loan Return to Us Sender: SAN ANTON/99 Loan In From Sender: SANDIEGOZ/199069 Vendor: SANDIEGOZ/199069 | panded igu Phy (h i i mi i | Birth Date/As Death Number Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/As Death Number Local ID Regional Stu 1612-2985195 uana Own Reported E In SANDIEGOZ SANDIEGOZ - SAN ANTON - SANDIEGOZ - DETROIT / 12 - SANDIEGOZ Birth Type Birth Locatio | ae er ddbook # Cocal ID: / Endan By Z/198287 Indbook # 9 Local Endan By Z/199069 I/199069 I/199069 I/199069 I/199069 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 19gered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1998 / 19Y,8M,7D at the time of death [0061743/SANDIEGOZ] [198287/SANDIEGOZ] [148-AZA /SANDIEGOZ] ID: 199069 10gered (EN) Disposition - Recipient/Local ID - Loan Return To Owner SANDIEGOZ/199069 Loan Out To DETROIT/12321 Death Death (ownership only) Captive Birth/Hatch San Antonio Zoological Gardens & Aquar | Phy Out Phy - Out Out Out | Owr Out Bra Owr - - | Date out 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 13/Aug/1999 13/Aug/1999 12//Feb/2014 |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 3/May/1999 3/May/1999 21/May/2009 Sex/Contraception | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji k Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/199069 Loan Return to Us Sender: SAN ANTON/99 Loan In From Sender: SANDIEGOZ/199069 Vendor: SANDIEGOZ/199069 - Male / - | panded igu Phy (h i i mi i | Birth Date/As Death Numbe Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Type Birth Locatio Birth Date/As Death Numbe Local ID Regional Stu IG12-2985195 uana Own Reported E In SANDIEGOZ - SAN ANTON - SANDIEGOZ - DETROIT / 12 - SANDIEGOZ Birth Type | ae er ddbook # Endan By 7 / 198287 Indbook # Endan By 7 / 198287 Indbook # P Local Endan By 7 / 199069 199069 | San Diego Zoo 29/Oct/1998 / OY,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 198287 198287 198287 198287 198287 198287 198287/SANDIEGOZ] 198287/SANDIEGOZ] 198287/SANDIEGOZ] 198287/SANDIEGOZ] 198287/SANDIEGOZ] 198287/SANDIEGOZ] 1148-AZA /SANDIEGOZ] 101: 199069 101: 199069 102: 199069 103: 199069 104: 199069 105: 199069 106: 199069 107: 199069 108: 199069 109: | Phy Out Phy - Out Out Out | Owr Out Bra Owr - - | Date out 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 13/Aug/1999 13/Aug/1999 11/Feb/2014 |
| Individual Date in 5/Nov/1998 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 3/May/1999 3/May/1999 7/Oct/1999 21/May/2009 - Sex/Contraception Hybrid Status Enclosure | [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji to Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - None [GAN: 26753194 SANDIEGOZ / 1952] [GAN: 6713034 SANDIEGOZ / 191132 Fiji to Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/199069 Loan Return to Us Sender: SAN ANTON/99 Loan In From Sender: SANDIEGOZ/199069 - Male / - Not a hybrid - | eanded igu Phy (17) In I Phy (17) Panded igu Phy (17) Phy | Birth Date/Aç Death Numbr Local ID Regional Stu 8230600 L uana Own Reported E In SANDIEGOZ Birth Date/Aç Death Numbr Local ID Regional Stu (G12-2985195) uana Own Reported E In SANDIEGOZ Birth Type Birth Cocation Cocatio | ae er ddbook # Cocal ID: / Endan By Z / 198287 Idbook # 9 Local Endan By Z / 199069 2 / 199069 2 / 199069 2 / 199069 2 / 199069 2 / 199069 | San Diego Zoo 29/Oct/1998 / 0Y,4M,26D at the time of death [0040263/SANDIEGOZ] [198275/SANDIEGOZ] [147-AZA /SANDIEGOZ] 198287 198287 199000 | Phy Out Phy - Out Out Out | Owr Out Bra Owr - - | Date out 12/Jul/2018 12/Jul/2018 12/Jul/2018 12/Jul/2018 13/Aug/1999 13/Aug/1999 11/Feb/2014 |

| | | | 8 | 221505 Local ID: | 199070 | | | |
|---|---|---|----------------------------------|--|--|-----------------|----------------------|---|
| Individual | | Fiji banded ig | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | - | | Reported By | Disposition - Recipient/Local ID | Phy | | n Date out |
| 4/May/1999 | Birth/Hatch | - | ln | SANDIEGOZ / 199070 | - | - | - | - |
| 4/May/1999 | Birth/Hatch Owner: SANDIEGOZ/199 | | - | SAN ANTON / 990510 | Loan Return To Owner SANDIEGOZ/199070 | Out | - | 3/Aug/1999 |
| 7/Oct/1999 | Loan Return to Us Sender: SAN ANT | TON/990510 In | - | SANDIEGOZ / 199070 | Death | Out | Out | 2/Mar/2002 |
| Sex/Contraception Hybrid Status | Male / - Not a hybrid | | | Birth Type Birth Location | Captive Birth/Hatch San Antonio Zoological Gardens & Aquar | | | |
| Enclosure | - | | | Birth Date/Age | 4/May/1999 / 2Y,9M,26D at the time of death | | | |
| Rearing | Parent | | | Death Number | [0044101/SANDIEGOZ] | | | |
| Dam Sire | [GAN: MIG12-6713032 SANDIE [GAN: MIG12-6713024 SANDIE | - | | Local ID Regional Studbook # | [199070/SANDIEGOZ] [150-AZA /SANDIEGOZ] | | | |
| | <u> </u> | | | 220620 000 ID: | 100101 | | | |
| Individual | | Fiji banded ig | | 230639 Local ID: a Enda | ngered (EN) | | Bra | ichylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | | - | Reported By | Disposition - Recipient/Local ID | Phy | | n Date out |
| 21/Oct/1999 | Birth/Hatch | in . | ln | SANDIEGOZ / 199191 | Loan Out To FORTWORTH/203626 | Out | - | 13/Oct/2004 |
| - | - | - | - | SANDIEGOZ / 199191 | Death (ownership only) | - | Out | 11/Aug/2017 |
| Sex/Contraception Hybrid Status | Male / - | | | Birth Type Birth Location | Captive Birth/Hatch | | | |
| Enclosure | Not a hybrid - | | | Birth Date/Age | San Diego Zoo 21/Oct/1999 / 17Y,9M,21D at the time of death | | | |
| Rearing | None | | | Death Number | [RP25884/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: MIG12-6713077 SANDIE | - | | Local ID | [199191/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 6713043 SANDIEGOZ / | 192522] | | Regional Studbook # | [152-AZA /SANDIEGOZ] | | | |
| | | | 26 | 3753367 Local ID | : 199192 | | | |
| Individual | | Fiji banded i | guan | a Enda | ngered (EN) | | Bra | ichylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owr | Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Ow | Date out |
| 21/Oct/1999 | Birth/Hatch | ln . | ln | SANDIEGOZ / 199192 | Death | Out | Out | 11/Jul/2011 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo | | | |
| Rearing | - None | | | Death Number | 21/Oct/1999 / 11Y,8M,20D at the time of death [0054305/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: MIG12-6713077 SANDIE | EGOZ / 194193] | | Local ID | [199192/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 6713043 SANDIEGOZ / | 192522] | | Regional Studbook # | [153-AZA /SANDIEGOZ] | | | |
| | | | 8 | 230641 Local ID: | 199193 | | | |
| Individual | | Fiji banded iç | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owr | Reported By | <u> Disposition - Recipient/Local ID</u> | <u>Phy</u> | Owi | Date out |
| 21/Oct/1999 | Birth/Hatch | ln . | ln | SANDIEGOZ / 199193 | Death | Out | Out | 1/Oct/2001 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo | | | |
| Rearing | - None | | | Death Number | 21/Oct/1999 / 1Y,11M,10D at the time of death [0043610/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: MIG12-6713077 SANDIE | EGOZ / 194193] | | Local ID | [199193/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 6713043 SANDIEGOZ / | 192522] | | Regional Studbook # | [154-AZA /SANDIEGOZ] | | | |
| | | | | | | | | |
| | | N | IIG1: | 2-15729858 Loca | I ID: 199194 | | | |
| Individual | | N Fiji banded ig | | • | I ID: 199194 ngered (EN) | | Bra | chylophus bulabula |
| | Acquisition - Vendor/Local ID | Fiji banded iç | guan | • | | Phy | | nchylophus bulabula n <u>Date out</u> |
| <u>Date in</u> 23/Oct/1999 | Birth/Hatch | Fiji banded ig <u>Phy</u> In | guan | a Enda Reported By SANDIEGOZ / 199194 | ngered (EN) <u>Disposition - Recipient/Local ID</u> Loan Out To SHEDD AQ/205068 | Out | <u>Owi</u> | 17/Mar/2006 |
| <u>Date in</u> 23/Oct/1999 | | Fiji banded ig <u>Phy</u> In | guan <u>Owr</u> | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 | ngered (EN) <u>Disposition - Recipient/Local ID</u> Loan Out To SHEDD AQ/205068 Death | Out | <u>Owi</u> - - | 17/Mar/2006 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ | Fiji banded ig <u>Phy</u> In | guan <u>Owr</u> | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 | ngered (EN) <u>Disposition - Recipient/Local ID</u> Loan Out To SHEDD AQ/205068 Death Death (ownership only) | Out | <u>Owi</u> - - | 17/Mar/2006 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception | Birth/Hatch | Fiji banded ig <u>Phy</u> In | guan <u>Owr</u> | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 | ngered (EN) <u>Disposition - Recipient/Local ID</u> Loan Out To SHEDD AQ/205068 Death | Out | <u>Owi</u> - - | 17/Mar/2006 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ - Female / - Not a hybrid | Fiji banded ig <u>Phy</u> In | guan <u>Owr</u> | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death | Out | <u>Owi</u> - - | 17/Mar/2006 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ Female / - Not a hybrid - Undetermined | Fiji banded ig <u>Phy</u> In 199194 In - | guan <u>Owr</u> | SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] | Out | <u>Owi</u> - - | 17/Mar/2006 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing Dam | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ Female / - Not a hybrid - Undetermined [GAN: MIG12-6713077 SANDIE | Fiji banded ig <u>Phy</u> 199194 in - | guan <u>Owr</u> | SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number Local ID | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] [199194/SANDIEGOZ] | Out | <u>Owi</u> - - | 17/Mar/2006 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ Female / - Not a hybrid - Undetermined | Fiji banded ig <u>Phy</u> 199194 in - | guan <u>Owr</u> | SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] | Out | <u>Owi</u> - - | 17/Mar/2006 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ Female / - Not a hybrid - Undetermined [GAN: MIG12-6713077 SANDIE | Fiji banded ig <u>Phy</u> 199194 in - | guan Owr In - | SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number Local ID | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] [199194/SANDIEGOZ] [155-AZA /SANDIEGOZ] | Out | <u>Owi</u> - - | 17/Mar/2006 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ Female / - Not a hybrid - Undetermined [GAN: MIG12-6713077 SANDIE GAN: 6713043 SANDIEGOZ / | Fiji banded ig Phy 199194 In - EGOZ / 194193] 192522] | Owr In - - | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230656 Local ID: a Enda | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] [199194/SANDIEGOZ] [155-AZA /SANDIEGOZ] 381224 ngered (EN) | Out Out - | Owi | Date out 17/Mar/2006 20/Feb/2008 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ - Female / - Not a hybrid - Undetermined [GAN: MIG12-6713077 SANDIEGOZ / [GAN: 6713043 SANDIEGOZ / | Fiji banded ig Phy 199194 In - EGOZ / 194193] 192522] | Owr In - - | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230656 Local ID: a Enda | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] [199194/SANDIEGOZ] [155-AZA /SANDIEGOZ] 381224 ngered (EN) Disposition - Recipient/Local ID | Out Out - | Own | Date out 17/Mar/2006 20/Feb/2008 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ Female / - Not a hybrid - Undetermined [GAN: MIG12-6713077 SANDIE GAN: 6713043 SANDIEGOZ / | Fiji banded ig Phy 199194 In - EGOZ / 194193] 192522] | Owr In - - | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230656 Local ID: a Enda | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] [199194/SANDIEGOZ] [155-AZA /SANDIEGOZ] 381224 ngered (EN) | Out Out - | Own | Date out 17/Mar/2006 20/Feb/2008 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 5/Nov/1981 Sex/Contraception | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ - Female / - Not a hybrid - Undetermined [GAN: MIG12-6713077 SANDIEGOZ / [GAN: 6713043 SANDIEGOZ / Acquisition - Vendor/Local ID Birth/Hatch Male / - | Fiji banded ig Phy 199194 in - EGOZ / 194193] 192522] Fiji banded ig Phy | guan Owr In - - 8 | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230656 Local ID: a Enda 1 Reported By SANDIEGOZ / 381224 Birth Type | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] [199194/SANDIEGOZ] [155-AZA /SANDIEGOZ] [381224 ngered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch | Out Out - | Own | Date out 17/Mar/2006 20/Feb/2008 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 5/Nov/1981 Sex/Contraception Hybrid Status | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ Female / - Not a hybrid - Undetermined [GAN: MIG12-6713077 SANDIE [GAN: 6713043 SANDIEGOZ / Acquisition - Vendor/Local ID Birth/Hatch | Fiji banded ig Phy 199194 in - EGOZ / 194193] 192522] Fiji banded ig Phy | guan Owr In - - 8 | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230656 Local ID: a Enda Reported By SANDIEGOZ / 381224 Birth Type Birth Location | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] [199194/SANDIEGOZ] [155-AZA /SANDIEGOZ] 381224 ngered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo | Out Out - | Own | Date out 17/Mar/2006 20/Feb/2008 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 5/Nov/1981 Sex/Contraception Hybrid Status Enclosure | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ - Female / - Not a hybrid - Undetermined [GAN: MIG12-6713077 SANDIE [GAN: 6713043 SANDIEGOZ / Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid - | Fiji banded ig Phy 199194 in - EGOZ / 194193] 192522] Fiji banded ig Phy | guan Owr In - - 8 | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230656 Local ID: a Enda Reported By SANDIEGOZ / 381224 Birth Type Birth Location Birth Date/Age | Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] [199194/SANDIEGOZ] [155-AZA /SANDIEGOZ] 381224 ngered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 5/Nov/1981 / 17Y,6M,27D at the time of death | Out Out - | Own | Date out 17/Mar/2006 20/Feb/2008 20/Feb/2008 |
| Date in 23/Oct/1999 17/Mar/2006 - Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 5/Nov/1981 Sex/Contraception Hybrid Status | Birth/Hatch Loan In From Vendor: SANDIEGOZ/ - Female / - Not a hybrid - Undetermined [GAN: MIG12-6713077 SANDIEGOZ / [GAN: 6713043 SANDIEGOZ / Acquisition - Vendor/Local ID Birth/Hatch Male / - | Fiji banded ig Phy 199194 199194 192522] Fiji banded ig Phy In | guan Owr In - - 8 | a Enda Reported By SANDIEGOZ / 199194 SHEDD AQ / 205068 SANDIEGOZ / 199194 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230656 Local ID: a Enda Reported By SANDIEGOZ / 381224 Birth Type Birth Location | ngered (EN) Disposition - Recipient/Local ID Loan Out To SHEDD AQ/205068 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Oct/1999 / 8Y,3M,28D at the time of death [RP14352/SANDIEGOZ] [199194/SANDIEGOZ] [155-AZA /SANDIEGOZ] 381224 ngered (EN) Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo | Out Out - | Own | Date out 17/Mar/2006 20/Feb/2008 20/Feb/2008 |

| | | | 6 | 6713193 Local ID: | 382060 | | |
|---|--|---------------|--------------|--|--|-----------------|---|
| Individual | Fiii b | anded i | | • | ingered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | _ | n Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 16/May/1982 20/May/1991 | Birth/Hatch Loan Return to Us Sender: FORTWORTH/89 | In 5001 In | ln - | SANDIEGOZ / 382060 SANDIEGOZ / 382060 | Loan Out To FORTWORTH/895001 Death | Out Out | - 24/Apr/1989 Out 17/Apr/2001 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 8227366 SANDIEGOZ / 000236 [GAN: MIG12-8227402 SANDIEGOZ / (| | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 16/May/1982 / 18Y,11M,1D at the time of death [0042888/SANDIEGOZ] [382060/SANDIEGOZ] [4-AZA /SANDIEGOZ] | | |
| | | N | /IIG1 | 2-28700858 Loca | II ID: 900004 | | |
| Individual | Fiji b | anded i | guan | na Enda | ingered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 14/Jan/2000 17/Mar/2006 - | Birth/Hatch Loan In From Vendor: SANDIEGOZ/900004 - | In In - | In - - | SANDIEGOZ / 900004 SHEDD AQ / 205069 SANDIEGOZ / 900004 | Loan Out To SHEDD AQ/205069 Loan Transfer To CLEVELAND/M80904 Loan out to (change in reported holder) CLEVELAND/M80904 | Out Out - | - 17/Mar/2006 - 16/Sep/2008 - 17/Sep/2008 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Undetermined [GAN: 19978485 SANDIEGOZ / 19358 [GAN: 8228719 SANDIEGOZ / 192535] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 14/Jan/2000 / 24Y,5M,26D [900004/SANDIEGOZ] [156-AZA /SANDIEGOZ] | | |
| | | | 2 | 5215366 Local ID | : 900029 | | |
| Individual | Fiji b | anded i | guan | na Enda | ingered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 4/Feb/2000 | Birth/Hatch | ln | ln | SANDIEGOZ / 900029 | Death | Out | Out 4/Aug/2008 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 19358 [GAN: 8228719 SANDIEGOZ / 192535 | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 4/Feb/2000 / 8Y,6M,0D at the time of death [0051340/SANDIEGOZ] [900029/SANDIEGOZ] [157-AZA /SANDIEGOZ] | | |
| | | | 2 | 6753489 Local ID | : 900030 | | |
| Individual | Fiji b | anded i | guan | na Enda | ngered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 4/Feb/2000 | Birth/Hatch | ln | ln | SANDIEGOZ / 900030 | Loan Out To CLEVELAND/M90703 | Out | - 15/Jul/2009 |

| - | | | | | | | | |
|-------------------|--------------------------------------|--------|------|---------------------|---|-----------------------|------------|-------------|
| Individual | Fiji band | ded ig | guan | a Endar | | Brachylophus bulabula | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Owr</u> | Date out |
| 4/Feb/2000 | Birth/Hatch | ln | ln | SANDIEGOZ / 900030 | Loan Out To CLEVELAND/M90703 | Out | - | 15/Jul/2009 |
| - | - | - | - | SANDIEGOZ / 900030 | Death (ownership only) | - | Out | 26/Jan/2012 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 4/Feb/2000 / 11Y,11M,22D at the time of death | | | |
| Rearing | None | | | Local ID | [900030/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 19978485 SANDIEGOZ / 193587] | | | Regional Studbook # | [158-AZA /SANDIEGOZ] | | | |
| Sire | [GAN: 8228719 SANDIEGOZ / 192535] | | | | | | | |

| MIG12-30074700 Local ID: 900118 | | | | | | | | | | |
|-----------------------------------|---------------------------------------|-------|------|---------------------|--|-----|-----|--------------------|--|--|
| Individual | Fiji ban | ded i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | |
| 1/May/2000 | Birth/Hatch | ln | ln | SANDIEGOZ / 900118 | Loan Out To NORFOLK/204074 | Out | - | 12/Oct/2004 | | |
| 13/Oct/2004 | Loan In From Vendor: SANDIEGOZ/900118 | ln | - | NORFOLK / 204074 | Loan Transfer To AUDUBON/102956 | Out | - | 10/Nov/2009 | | |
| - | - | - | - | SANDIEGOZ/900118 | Loan out to (change in reported holder) AUDUBON/102956 | - | - | 11/Nov/2009 | | |
| 11/Nov/2009 | Loan In From Vendor: SANDIEGOZ/900118 | ln | - | AUDUBON / 102956 | Death | Out | - | 4/Apr/2013 | | |
| - | - | - | - | SANDIEGOZ / 900118 | Death (ownership only) | - | Out | 4/Apr/2013 | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 1/May/2000 / 12Y,11M,3D at the time of death | | | | | |
| Rearing | None | | | Death Number | [RP19859/SANDIEGOZ] | | | | | |
| <u>Dam</u> | [GAN: 19978575 SANDIEGOZ / 197483] | | | Local ID | [900118/SANDIEGOZ] | | | | | |
| Sire | [GAN: 13843274 SANDIEGOZ / 195001] | | | Regional Studbook # | [159-AZA /SANDIEGOZ] | | | | | |

| | | | 10 | 0307609 Local ID: | : 900137 | | | |
|--|---|--|------------------------------|---|---|-------------|----------------|---|
| Individual | Fiji band | 104 : | | <u> </u> | | | D | achylophus bulakul |
| Date in | Acquisition - Vendor/Local ID | _ | | a ⊑nda n Reported By | ngered (EN) Disposition - Recipient/Local ID | Phy | | achylophus bulabul n Date out |
| 20/May/2000 | Birth/Hatch | | ln | SANDIEGOZ / 900137 | Loan Out To FORTWORTH/203627 | Out | - | 13/Oct/2004 |
| | - | - | - | SANDIEGOZ / 900137 | Death (ownership only) | - | Out | 13/Feb/2010 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> Rearing | - None | | | Birth Date/Age Death Number | 20/May/2000 / 9Y,8M,24D at the time of death | | | |
| Dam . | [GAN: 19978575 SANDIEGOZ / 197483] | | | Local ID | [RP16026/SANDIEGOZ] [900137/SANDIEGOZ] | | | |
| Sire | [GAN: 13843274 SANDIEGOZ / 195001] | | | Regional Studbook # | [160-AZA /SANDIEGOZ] | | | |
| | | | 8 | 230857 Local ID: | 901017 | | | |
| Individual | Fiji band | ded ig | uan | a Enda | ngered (EN) | | Bra | achylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out |
| 16/Feb/2001 | Birth/Hatch | ••• | ln | SANDIEGOZ/901017 | Loan Out To NORFOLK/204073 | Out | | 12/Oct/2004 |
| 3/Oct/2004 | Loan In From Sender: SANDIEGOZ/901017 Vendor: SANDIEGOZ/901017 | ln | - | NORFOLK / 204073 | Loan Transfer To EVANSVLLE/UNDETERM+ | Out | - | 17/May/2017 |
| | - | - | - | SANDIEGOZ/901017 | Loan out to (change in reported holder) EVANSVLLE/317001 | - | - | 18/May/2017 |
| 22/May/2017 | Loan Transfer From Sender: NORFOLK/204073 | ln | - | EVANSVLLE / 317001 | Death | Out | - | 18/Nov/2022 |
| | Vendor: SANDIEGOZ/901017 | - | - | SANDIEGOZ / 901017 | Death (ownership only) | - | Out | 18/Nov/2022 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 16/Feb/2001 / 21Y,9M,2D at the time of death | | | |
| Rearing | Parent | | | Local ID | [901017/SANDIEGOZ] | | | |
| <u>Dam</u> Bire | [GAN: 19978485 SANDIEGOZ / 193587] | | | Regional Studbook # | [161-AZA /SANDIEGOZ] | | | |
| <u> </u> | [GAN: 8228719 SANDIEGOZ / 192535] | | | | | | | |
| | | | 26 | 6753534 Local ID: | : 901018 | | | |
| Individual | Fiji band | 404 10 | ııan | a Enda | ngorod (ENI) | | Rr: | achylophus bulabul |
| | • | _ | | | ngered (EN) | | | |
| | Acquisition - Vendor/Local ID | <u>Phy</u> | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | | <u>Ow</u> | n Date out |
| 16/Feb/2001 | Acquisition - Vendor/Local ID Birth/Hatch | <u>Phy</u> | | Reported By SANDIEGOZ / 901018 | Disposition - Recipient/Local ID Death | | <u>Ow</u> | |
| 16/Feb/2001 Sex/Contraception | Acquisition - Vendor/Local ID Birth/Hatch Female / - | <u>Phy</u> | <u>Owr</u> | Reported By SANDIEGOZ / 901018 Birth Type | Disposition - Recipient/Local ID Death Captive Birth/Hatch | | <u>Ow</u> | n Date out |
| 16/Feb/2001 Sex/Contraception Hybrid Status | Acquisition - Vendor/Local ID Birth/Hatch | <u>Phy</u> | <u>Owr</u> | Reported By SANDIEGOZ / 901018 Birth Type Birth Location | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo | | <u>Ow</u> | n Date out |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid | <u>Phy</u> | <u>Owr</u> | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death | | <u>Ow</u> | n Date out |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None | <u>Phy</u> | <u>Owr</u> | Reported By SANDIEGOZ / 901018 Birth Type Birth Location | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] | | <u>Ow</u> | n Date out |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid | <u>Phy</u> | <u>Owr</u> | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death | | <u>Ow</u> | n Date out |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] | <u>Phy</u> | Owr In | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] | | <u>Ow</u> | n Date out |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] | Phy In | Owr In | n Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] | | Owt Out | n Date out 11/Sep/2008 |
| 6/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Bire Individual Date in | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band | Phy h | Owr In 8 uan | n Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID | Out | Out | n Date out 11/Sep/2008 achylophus bulabul |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID | Phy In | Owr In 8 uan Owr | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda Reported By SANDIEGOZ / 901019 | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 | Out Phy Out | Owt Out Bra Ow | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - | Phy In | Owr In 8 uan Owr | A Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda A Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) | Out | Owt Out Bra Ow | n Date out 11/Sep/2008 achylophus bulabul |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Male / - | Phy In | Owr In 8 uan Owr | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch | Out Phy Out | Owt Out Bra Ow | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception Hybrid Status | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - | Phy In | Owr In 8 uan Owr | A Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda A Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo | Out Phy Out | Owt Out Bra Ow | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 |
| Date in 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Male / - Not a hybrid - | Phy In | Owr In 8 uan Owr | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death | Out Phy Out | Owt Out Bra Ow | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Male / - | Phy In | Owr In 8 uan Owr | n Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda n Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo | Out Phy Out | Owt Out Bra Ow | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Male / - Not a hybrid - None | Phy In | Owr In 8 uan Owr | n Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda n Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] | Out Phy Out | Owt Out Bra Ow | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 |
| Individual Date in Individual | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Male / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] | Phy In | 8 uan Owr In | A Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda A Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Date/Age Death Number Local ID | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] | Out Phy Out | Owt Out Bra Ow | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 |
| Individual Date in Individual | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Male / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] | Phy In | 8 uan Owr In | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: A Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] | Phy Out | Bra Out | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 6/Jun/2016 |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Male / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 193587] | Phy h | 8 uan Owr In | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: A Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] | Phy Out | Bra Out | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Male / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch | Phy In | 8 uan Owr In | A Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda A Reported By SANDIEGOZ / 901019 SIRTH Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230860 Local ID: a Enda A Reported By SANDIEGOZ / 901020 | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [163-AZA /SANDIEGOZ] [163-AZA /SANDIEGOZ] 901020 ngered (EN) Disposition - Recipient/Local ID Loan Out To DETROIT/11144 | Phy Out - | Bra Owt | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 6/Jun/2016 achylophus bulabul n Date out 25/Aug/2003 |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/901020 | Phy In ded ig Phy In ded ig Phy Phy In Phy | Owr In Owr In - | A Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda A Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230860 Local ID: a Enda A Reported By | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] 901020 ngered (EN) Disposition - Recipient/Local ID | Phy Out - | Bra Owt | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 6/Jun/2016 achylophus bulabul n Date out |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Male / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch | Phy In | 8 uan Owr In - | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] 901020 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DETROIT/11144 Death | Phy Out - | Bra Owt | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 6/Jun/2016 achylophus bulabul n Date out 25/Aug/2003 1/Nov/2010 |
| Individual Date in Rearing Dam Sire Individual Date in | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/901020 Vendor: SANDIEGOZ/901020 | Phy In | Owr In Owr In - | Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230860 Local ID: a Enda Reported By SANDIEGOZ / 901020 DETROIT / 11144 SANDIEGOZ / 901020 | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] 901020 ngered (EN) Disposition - Recipient/Local ID Loan Out To DETROIT/11144 Death Death (ownership only) | Phy Out - | Bra Owt | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 6/Jun/2016 achylophus bulabul n Date out 25/Aug/2003 |
| Individual Date in Rearing Dam Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in Hybrid Status Enclosure Rearing Dam Sire Individual Date in Hybrid Status Enclosure Rearing Dam Sire Individual Date in 21/Feb/2001 26/Aug/2003 | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/901020 Vendor: SANDIEGOZ/901020 - Female / - | Phy In | 8 uan Owr In - | A Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda A Reported By SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] 901020 Ingered (EN) Disposition - Recipient/Local ID Loan Out To DETROIT/11144 Death Death (ownership only) Captive Birth/Hatch | Phy Out - | Bra Owt | n Date out 11/Sep/2008 achylophus bulabu n Date out 10/Oct/2013 6/Jun/2016 achylophus bulabu n Date out 25/Aug/2003 1/Nov/2010 |
| Individual Date in Individual Dam Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in Hybrid Status Enclosure Rearing Dam Sire Individual Date in Hybrid Status Enclosure Rearing Dam Sire Individual Date in 21/Feb/2001 26/Aug/2003 | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/901020 Vendor: SANDIEGOZ/901020 | Phy In | 8 uan Owr In - | A Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230860 Local ID: a Enda Reported By SANDIEGOZ / 901020 DETROIT / 11144 SANDIEGOZ / 901020 Birth Type Birth Location | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] 901020 ngered (EN) Disposition - Recipient/Local ID Loan Out To DETROIT/11144 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo | Phy Out - | Bra Owt | n Date out 11/Sep/2008 achylophus bulabu n Date out 10/Oct/2013 6/Jun/2016 achylophus bulabu n Date out 25/Aug/2003 1/Nov/2010 |
| 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 16/Feb/2001 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 21/Feb/2001 26/Aug/2003 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/901020 Vendor: SANDIEGOZ/901020 - Female / - Not a hybrid - | Phy In | 8 uan Owr In - | A Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda A Reported By SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230860 Local ID: a Enda A Reported By SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] 901020 ngered (EN) Disposition - Recipient/Local ID Loan Out To DETROIT/11144 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 21/Feb/2001 / 9Y,8M,11D at the time of death | Phy Out - | Bra Owt | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 6/Jun/2016 achylophus bulabul n Date out 25/Aug/2003 1/Nov/2010 |
| Individual Date in Individual Dam Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in Hybrid Status Enclosure Rearing Dam Sire Individual Date in Hybrid Status Enclosure Rearing Dam Sire Individual Date in 21/Feb/2001 26/Aug/2003 | Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch - Not a hybrid - None [GAN: 19978485 SANDIEGOZ / 193587] [GAN: 8228719 SANDIEGOZ / 192535] Fiji band Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/901020 Vendor: SANDIEGOZ/901020 - Female / - | Phy In | 8 uan Owr In - | A Reported By SANDIEGOZ / 901018 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230859 Local ID: a Enda Reported By SANDIEGOZ / 901019 SANDIEGOZ / 901019 Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # 230860 Local ID: a Enda Reported By SANDIEGOZ / 901020 DETROIT / 11144 SANDIEGOZ / 901020 Birth Type Birth Location | Disposition - Recipient/Local ID Death Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 7Y,6M,26D at the time of death [0051422/SANDIEGOZ] [901018/SANDIEGOZ] [162-AZA /SANDIEGOZ] 901019 ngered (EN) Disposition - Recipient/Local ID Loan Out To DENVER/A13244 Death (ownership only) Captive Birth/Hatch San Diego Zoo 16/Feb/2001 / 15Y,3M,21D at the time of death [RP24245/SANDIEGOZ] [901019/SANDIEGOZ] [163-AZA /SANDIEGOZ] 901020 ngered (EN) Disposition - Recipient/Local ID Loan Out To DETROIT/11144 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo | Phy Out - | Bra Owt | n Date out 11/Sep/2008 achylophus bulabul n Date out 10/Oct/2013 6/Jun/2016 achylophus bulabul n Date out 25/Aug/2003 1/Nov/2010 |

| | | N | /IIG1 | 2-29901948 Loca | il ID: 901172 | | | |
|--|---|---------|---------|--|---|------------|------------|----------------------------|
| Individual | Fiji band | ded i | guan | a Enda | ingered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | Phy | Owr | n Date out |
| 16/Oct/2001 | Birth/Hatch | ln | ln | SANDIEGOZ/901172 | Loan Out To AUDUBON/102157 | Out | - | 29/Mar/2007 |
| 29/Mar/2007 | Loan In From Vendor: SANDIEGOZ/901172 | ln | - | AUDUBON / 102157 | Loan Transfer To NORFOLK/209131 | Out | | 28/Oct/2009 |
| | - | - | - | SANDIEGOZ / 901172 | Loan out to (change in reported holder) NORFOLK/209131 | - | - | 28/Oct/2009 |
| 28/Oct/2009 | Loan Transfer From Sender: AUDUBON/102157 | ln | - | NORFOLK / 209131 | Death | Out | - | 2/Apr/2019 |
| | Vendor: SANDIEGOZ/901172 | | | | | | | · |
| • | - | - | - | SANDIEGOZ / 901172 | Death (ownership only) | - | Out | 2/Apr/2019 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> Rearing | - None | | | Birth Date/Age Local ID | 16/Oct/2001 / 17Y,5M,17D at the time of death [901172/SANDIEGOZ] | | | |
| Dam | [GAN: 19978485 SANDIEGOZ / 193587] | | | Regional Studbook # | [165-AZA /SANDIEGOZ] | | | |
| Sire | [GAN: 8228719 SANDIEGOZ / 192535] | | | | [10072570744512002] | | | |
| | | | | | | | | |
| | | | 1: | 3843461 Local ID | : 901246 | | | |
| Individual | Fiji band | ded i | guan | a Enda | ingered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | Phy | Own | n Date out |
| 3/Dec/2001 | Birth/Hatch | ln | ln | SANDIEGOZ / 901246 | Death | Out | Out | 11/Mar/2005 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure - | 5. | | | Birth Date/Age | 8/Dec/2001 / 3Y,3M,3D at the time of death | | | |
| Rearing Dam | None | | | Death Number Local ID | [0047576/SANDIEGOZ] | | | |
| <u>Dam</u> Sire | [GAN: 8229758 SANDIEGOZ / 195284] [GAN: MIG12-8229752 SANDIEGOZ / 195 | 2661 | | Regional Studbook # | [901246/SANDIEGOZ] [166-AZA /SANDIEGOZ] | | | |
| <u> </u> | [OAN. MIC 12-0229732 GANDILOGZ / 195. | 200] | | | [100-AZA/OANDIEGOZ] | | | |
| | | | 10 | 0307665 Local ID | : 901247 | | | |
| Individual | Fiji band | ded i | guan | a Enda | ingered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | Phy | Owr | n Date out |
| 8/Dec/2001 | Birth/Hatch | ln | ln | SANDIEGOZ / 901247 | Death | Out | Out | 1/Nov/2018 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 8/Dec/2001 / 16Y,10M,24D at the time of death | | | |
| Rearing | None | | | Death Number | [0062242/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 8229758 SANDIEGOZ / 195284] | | | Local ID | [901247/SANDIEGOZ] | | | |
| Sire | [GAN: MIG12-8229752 SANDIEGOZ / 195. | 266] | | Regional Studbook # Transponder | [167-AZA /SANDIEGOZ] [00-7206-FCF/SANDIEGOZ] | | | |
| | | | | | | | | |
| | | ı | MIG1 | 2-8230901 Loca | I ID: 901248 | | | |
| Individual | Fiji band | | _ | | ingered (EN) | - | | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | | OWI | n Date out |
| 8/Dec/2001 - | Birth/Hatch - | ln - | ln - | SANDIEGOZ / 901248 SANDIEGOZ / 901248 | Loan Out To HOUSTON/20873 Death (ownership only) | Out - | - Out | 19/Nov/2003 20/Dec/2004 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 8/Dec/2001 / 3Y,0M,12D at the time of death | | | |
| Rearing | None | | | Death Number | [RP11160/SANDIEGOZ] | | | |
| <u>Dam</u> Sire | [GAN: 8229758 SANDIEGOZ / 195284] [GAN: MIG12-8229752 SANDIEGOZ / 195. | 2661 | | Local ID Regional Studbook # | [901248/SANDIEGOZ] [168-AZA /SANDIEGOZ] | | | |
| <u> </u> | [OAN. MIG 12-0229732 GANDIEGO27 195. | 200] | | | [100-AZA/OANDIEGOZ] | | | |
| | | | 9 | 044635 Local ID | 902099 | | | |
| Individual | Fiji band | ded i | guan | a Enda | ingered (EN) | | Bra | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Owr</u> | n Date out |
| 20/Aug/2002 | Birth/Hatch | ln | ln | SANDIEGOZ / 902099 | Death | Out | Out | 5/Sep/2002 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 20/Aug/2002 / 0Y,0M,16D at the time of death | | | |
| Rearing | None | | | Death Number | [0044834/SANDIEGOZ] | | | |
| <u>Dam</u> Siro | [GAN: 26753367 SANDIEGOZ / 199192] | | | Local ID | [902099/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 23053132 SANDIEGOZ / 196253] | | | Regional Studbook # | [171-AZA /SANDIEGOZ] | | | |
| | | | 20 | 6753602 Local ID | : 902100 | | | |
| Individual | Fiji band | ded i | guan | a Enda | ingered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owr | n Date out |
| | Birth/Hatch | ln | ln | SANDIEGOZ / 902100 | Death | Out | Out | 24/Aug/2008 |
| 20/Aug/2002 | | | | | | | | |
| 20/Aug/2002 Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Sex/Contraception Hybrid Status | Female / - Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Sex/Contraception Hybrid Status Enclosure | Not a hybrid - | | | Birth Location Birth Date/Age | San Diego Zoo 20/Aug/2002 / 6Y,0M,4D at the time of death | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing | Not a hybrid - None | | | Birth Location Birth Date/Age Death Number | San Diego Zoo 20/Aug/2002 / 6Y,0M,4D at the time of death [0051389/SANDIEGOZ] | | | |
| Sex/Contraception Hybrid Status Enclosure | Not a hybrid - | | | Birth Location Birth Date/Age | San Diego Zoo 20/Aug/2002 / 6Y,0M,4D at the time of death | | | |

| | | M | IIG12 | 2-15730344 Loca | I ID: 902101 | | | |
|---|--|----------|---------|--|---|------------|-----------|----------------------------|
| Individual | Fiji band | _ | | | ngered (EN) | ъ. | | achylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | | | n Date out |
| 20/Aug/2002 21/Oct/2005 | Birth/Hatch Loan In From Sender: SANDIEGOZ/902101 Vendor: SANDIEGOZ/902101 | In In | ln - | SANDIEGOZ / 902101 ST LOUIS / 104494 | Loan Out To ST LOUIS/104494 Death | Out Out | - | 20/Oct/2005 22/Sep/2007 |
| | - | - | - | SANDIEGOZ / 902101 | Death (ownership only) | - | Out | 22/Sep/2007 |
| Sex/Contraception Hybrid Status Enclosure | Female / - Not a hybrid - | | | Birth Type Birth Location Birth Date/Age | Captive Birth/Hatch San Diego Zoo 20/Aug/2002 / 5Y,1M,2D at the time of death | | | |
| Rearing | Undetermined | | | Death Number | [RP13732/SANDIEGOZ] | | | |
| D <u>am</u> Bire | [GAN: 26753367 SANDIEGOZ / 199192] [GAN: 23053132 SANDIEGOZ / 196253] | | | Local ID Regional Studbook # | [902101/SANDIEGOZ] [173-AZA /SANDIEGOZ] | | | |
| | [0/111. 20000 102 0/111012002 / 100200] | | | | [1764/25/10/445/2502] | | | |
| | | | | 978942 Local ID: | | | | |
| Individual | Fiji ban | _ | | | ngered (EN) | | | achylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | <u>Disposition - Recipient/Local ID</u> | Phy | Ow | n Date out |
| //Mar/2003 | Birth/Hatch | ln | İn | SANDIEGOZ / 903031 | - | - | - | - |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| <u>lybrid Status</u> Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo | | | |
| <u>-nciosure</u> Rearing | AR07100 Reptile Mesa Enclosure Group None | | | Local ID | 7/Mar/2003 / 21Y,4M,3D [903031/SANDIEGOZ] | | | |
| Dam_ | [GAN: 25215131 SANDIEGOZ / 192523] | | | Regional Studbook # | [180-AZA /SANDIEGOZ] | | | |
| Bire | [GAN: 8228910 SANDIEGOZ / 193264] | | | | , | | | |
| | | | 25 | 215433 Local ID: | 903032 | | | |
| Individual | Fiji ban | ded ig | juan | a Enda | ngered (EN) | | Bra | achylophus bulabı |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out |
| 7/Mar/2003 | Birth/Hatch | ln - | ln - | SANDIEGOZ / 903032 SANDIEGOZ / 903032 | Loan Out To BL HILLS/NONE Death (ownership only) | Out - | | 24/Sep/2008 11/Dec/2019 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure Rearing | - Name | | | Birth Date/Age Local ID | 27/Mar/2003 / 16Y,8M,14D at the time of death | | | |
| Dam | None [GAN: 19978485 SANDIEGOZ / 193587] | | | Regional Studbook # | [903032/SANDIEGOZ] [181-AZA /SANDIEGOZ] | | | |
| Bire | [GAN: 8228719 SANDIEGOZ / 192535] | | | | [101-AZA /OANDIEGOZ] | | | |
| | | | 13 | 843485 Local ID: | : 903033 | | | |
| Individual | Fiji ban | ded ig | juan | a Enda | ngered (EN) | | Bra | achylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out |
| 27/Mar/2003 1/Apr/2009 | Birth/Hatch Loan In From Sender: SANDIEGOZ/903033 Vendor: SANDIEGOZ/903033 | In In | In - | SANDIEGOZ / 903033 FRESNO / 290056 | Loan Out To FRESNO/290056 - | Out - | - | 11/Apr/2009 - |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| nclosure | ī. | | | Birth Date/Age | 27/Mar/2003 / 21Y,3M,13D | | | |
| Rearing Dam | None [GAN: 19978485 SANDIEGOZ / 193587] | | | Local ID Regional Studbook # | [903033/SANDIEGOZ] [182-AZA /SANDIEGOZ] | | | |
| ire | [GAN: 8228719 SANDIEGOZ / 192535] | | | regional otaabook # | [102-AZA /SANDIEGOZ] | | | |
| | | | 13 | 843486 Local ID: | : 903034 | | | |
| Individual | Fiji ban | ded ig | | • | ngered (EN) | | Br | achylophus bulabi |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out |
| 7/Mar/2003 3/Nov/2013 | Birth/Hatch Loan In From Sender: SANDIEGOZ/903034 Vendor: SANDIEGOZ/903034 | In In | In - | SANDIEGOZ / 903034 LOWRY / 303581 | Loan Out To LOWRY/303581 Loan Transfer To ATLANTA/15R001 | Out Out | | 12/Nov/2013 15/Jan/2015 |
| | - | - | - | SANDIEGOZ / 903034 | Loan out to (change in reported holder) ATLANTA/15R001 | - | - | 16/Jan/2015 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| nclosure | | | | Birth Date/Age Local ID | 27/Mar/2003 / 21Y,3M,13D | | | |
| | | | | | | | | |
| <u>learing</u> D <u>am</u> | None [GAN: 19978485 SANDIEGOZ / 193587] | | | Regional Studbook # | [903034/SANDIEGOZ] [183-AZA /SANDIEGOZ] | | | |

Copyright, Species360, 2024. All rights reserved.

| 1/Jan/1950 | | | | | | 10/Jul/20 | 24 | 360 |
|-----------------------------------|--|-------------------|--------|--------------------------------|---|------------|------------|--------------------|
| | | | 8 | 230972 Local ID: | 903035 | | | |
| Individual | Fiji ban | ded i | guan | a Endai | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out |
| 30/Mar/2003 | Birth/Hatch | ln | ln | SANDIEGOZ / 903035 | Death | Out | Out | 2/Apr/2003 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure Rearing | - None | | | Birth Date/Age Death Number | 30/Mar/2003 / 0Y,0M,3D at the time of death [0045374/SANDIEGOZ] | | | |
| Dam | [GAN: 19978485 SANDIEGOZ / 193587] | | | Local ID | [903035/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 8228719 SANDIEGOZ / 192535] | | | | • | | | |
| | | | 23 | 053413 Local ID: | 903036 | | | |
| Individual | Fiji ban | ded i | guan | a Endaı | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Owr</u> | <u>Date out</u> |
| 2/Apr/2003 | Birth/Hatch | ln | ln | SANDIEGOZ / 903036 | Loan Out To SACRAMNTO/301530 | Out | | 6/Feb/2013 |
| 7/Feb/2013 | Loan In From Sender: SANDIEGOZ/903036 Vendor: SANDIEGOZ/903036 | ln | - | SACRAMNTO / 301530 | Death | Out | - | 13/May/2020 |
| - | - | - | - | SANDIEGOZ / 903036 | Death (ownership only) | - | Out | 13/May/2020 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure Rearing | - None | | | Birth Date/Age Local ID | 2/Apr/2003 / 17Y,1M,11D at the time of death [903036/SANDIEGOZ] | 1 | | |
| <u>Dam</u> | [GAN: 19978485 SANDIEGOZ / 193587] | | | Regional Studbook # | [185-AZA /SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 8228719 SANDIEGOZ / 192535] | | | Transponder | [00-0689-6768/SANDIEGOZ] | | | |
| | | | | 053437 Local ID: | | | | |
| Individual | Fiji ban | | _ | | ngered (EN) | Dhy | | chylophus bulabul |
| <u>Date in</u> 3/Oct/2003 | Acquisition - Vendor/Local ID Birth/Hatch | <u>riiy</u> In | ln | Reported By SANDIEGOZ / 903227 | <u>Disposition - Recipient/Local ID</u> Death | | | Date out |
| Sex/Contraception | | II I | II I | Birth Type | | Out | Out | 21/May/2013 |
| Hybrid Status | Male / - Not a hybrid | | | Birth Location | Captive Birth/Hatch San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 3/Oct/2003 / 9Y,7M,18D at the time of death | | | |
| Rearing | None | | | Death Number | [0056157/SANDIEGOZ] | | | |
| <u>Dam</u> Sire | [GAN: 26753367 SANDIEGOZ / 199192] [GAN: 23053132 SANDIEGOZ / 196253] | | | Local ID Regional Studbook # | [903227/SANDIEGOZ] [186-AZA /SANDIEGOZ] | | | |
| <u>one</u> | [GAN: 23033132 SANDIEGOZ / 190233] | | | Transponder | [00-0689-52E7/SANDIEGOZ] | | | |
| | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| Individual | Fiji ban | ded i | | 843529 Local ID: | 903228 ngered (EN) | | Bra | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | _ | Reported By | Disposition - Recipient/Local ID | Phy | | <u>Date out</u> |
| 12/Oct/2003 | Birth/Hatch | ln | ln | SANDIEGOZ / 903228 | Loan Out To SAN ANTON/Y14066 | Out | | 20/May/2014 |
| 21/May/2014 | Loan In From Sender: SANDIEGOZ/903228 Vendor: SANDIEGOZ/903228 | ln | - | SAN ANTON / Y14066 | Death | Out | - | 10/Jan/2020 |
| - | - | - | - | SANDIEGOZ / 903228 | Death (ownership only) | - | Out | 10/Jan/2020 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | San Diego Zoo | th | | |
| Rearing | - None | | | Local ID | 12/Oct/2003 / 16Y,2M,29D at the time of dea [903228/SANDIEGOZ] | ut | | |
| <u>Dam</u> | [GAN: 26753367 SANDIEGOZ / 199192] | | | Regional Studbook # | [187-AZA /SANDIEGOZ] | | | |
| Sire | [GAN: 23053132 SANDIEGOZ / 196253] | | | | | | | |
| | | N | /IIG1: | 2-10307798 Local | ID: 903229 | | | |
| Individual | Fiji ban | | | • | ngered (EN) | | Brs | chylophus bulabul |
| niaiviauai | i iji bali | acu I | guaii | LIIUai | igered (Lit) | | ە رى | onylopilus bulabul |

Phy Own Reported By

Birth Type

Local ID

Birth Location

Birth Date/Age

Death Number

Regional Studbook #

SANDIEGOZ / 903229 SANDIEGOZ / 903229 Disposition - Recipient/Local ID

15/Oct/2003 / 2Y,3M,28D at the time of death

Loan Out To AUDUBON/101387

Death (ownership only)

Captive Birth/Hatch

[RP12306/SANDIEGOZ]

[903229/SANDIEGOZ]

[188-AZA /SANDIEGOZ]

San Diego Zoo

Phy Own Date out

Out

- 5/Aug/2004 Out 12/Feb/2006

Acquisition - Vendor/Local ID

[GAN: 26753367 | SANDIEGOZ / 199192]

[GAN: 23053132 | SANDIEGOZ / 196253]

Birth/Hatch

Female / -

Not a hybrid

Date in

15/Oct/2003

Hybrid Status

Enclosure

Rearing

<u>Dam</u>

Sire

Sex/Contraception

| 1/Jan/1950 | | | | | 11 | 0/Jul/202 | 24 |
|------------------------------------|--|-------------------|-----------|---------------------------------------|--|------------|----------------------------|
| | | | | F215447 Local ID | . 004004 | | |
| Localitation and | F | | | 5215447 Local ID | | | Danahadankan kataka |
| Individual | Fiji ban | | _ | | ngered (EN) | Dhu | Brachylophus bulabu |
| <u>Date in</u> 22/Jan/2004 | Acquisition - Vendor/Local ID Birth/Hatch | <u>Fily</u> In | In | n Reported By SANDIEGOZ / 904001 | <u>Disposition - Recipient/Local ID</u> Loan Out To LOSANGELE/992596 | Out | Own Date out - 17/Jan/2012 |
| 17/Jan/2012 | Loan In From Vendor: SANDIEGOZ/904001 | ln | - | LOSANGELE / 992596 | Death | Out | - 8/Sep/2013 |
| - | - | - | - | SANDIEGOZ / 904001 | Death (ownership only) | - | Out 8/Sep/2013 |
| Sex/Contraception Hybrid Status | Male / - Not a hybrid | | | Birth Type Birth Location | Captive Birth/Hatch San Diego Zoo | | |
| Enclosure | - | | | Birth Date/Age | 22/Jan/2004 / 9Y,7M,17D at the time of death | | |
| Rearing - | None | | | Local ID | [904001/SANDIEGOZ] | | |
| <u>Dam</u> Sire | [GAN: 19978575 SANDIEGOZ / 197483] [GAN: 13843274 SANDIEGOZ / 195001] | | | Regional Studbook # | [189-AZA /SANDIEGOZ] | | |
| | [6/44: 100 1021 1 6/442/12002 10000 1] | | | | | | |
| | | ľ | VIIG1 | 2-26753636 Loca | I ID: 904002 | | |
| Individual | Fiji ban | ded i | guar | na Enda | ngered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Ow</u> | n Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Own Date out |
| 22/Jan/2004 | Birth/Hatch | ln - | ln | SANDIEGOZ / 904002 | Loan Out To FRESNO/282034 | Out | |
| 20/Jul/2008 | Loan In From Sender: SANDIEGOZ/904002 Vendor: SANDIEGOZ/904002 | ln | - | FRESNO / 280234 | Death | Out | - 25/Jul/2009 |
| - | - | - | - | SANDIEGOZ / 904002 | Death (ownership only) | - | Out 25/Jul/2009 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid - | | | Birth Location Birth Date/Age | San Diego Zoo 22/Jan/2004 / 5Y,6M,3D at the time of death | | |
| Rearing | - None | | | Local ID | [904002/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: 19978575 SANDIEGOZ / 197483] | | | Regional Studbook # | [190-AZA /SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: 13843274 SANDIEGOZ / 195001] | | | <u>Transponder</u> | [00-0699-BAB1/[Leg/Left,Hind]/SANDIEGOZ] | | |
| | | ı | MIG1 | 2-30089855 Loca | I ID: 905012 | | |
| Individual | Fiji ban | ded i | guar | na Enda | ngered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Ow</u> | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 11/Feb/2005 12/Apr/2007 | Birth/Hatch Loan In From Vendor: SANDIEGOZ/905012 | In In | ln - | SANDIEGOZ / 905012 HOUSTON / 22910 | Loan Out To HOUSTON/22910 | Out - | - 12/Apr/2007 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| Enclosure Rearing | - None | | | Birth Date/Age Local ID | 11/Feb/2005 / 19Y,4M,29D [905012/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: 19978485 SANDIEGOZ / 193587] | | | Regional Studbook # | [199-AZA /SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: 8228719 SANDIEGOZ / 192535] | | | | , | | |
| | | | 1 | 9979124 Local ID | : 905013 | | |
| Individual | Fiji ban | ded i | | | ngered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 11/Feb/2004 | Birth/Hatch | ln | ln | SANDIEGOZ / 905013 | Death | | Out 9/Jul/2015 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| Enclosure Rearing | - None | | | Birth Date/Age Death Number | 11/Feb/2004 / 11Y,4M,28D at the time of deat [0058456/SANDIEGOZ] | n | |
| <u>Dam</u> | [GAN: 19978485 SANDIEGOZ / 193587] | | | Local ID | [905013/SANDIEGOZ] | | |
| Sire | [GAN: 8228719 SANDIEGOZ / 192535] | | | Regional Studbook # | [200-AZA /SANDIEGOZ] | | |
| | | | 1 | 9979856 Local ID | : 906709 | | |
| Individual | Fiji ban | ded i | guar | na Enda | ngered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | _ | n Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 20/Nov/2006 | Birth/Hatch | ln | ln | SANDIEGOZ / 906709 | Loan Out To ST LOUIS/107464 | Out | - 8/Jul/2009 |
| 9/Jul/2009 | Loan In From Sender: SANDIEGOZ/906709 | ln | - | ST LOUIS / 107464 | Death | Out | - 17/Sep/2015 |
| - | Vendor: SANDIEGOZ/906709 | - | - | SANDIEGOZ / 906709 | Death (ownership only) | - | Out 17/Sep/2015 |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |

Birth Location

Birth Date/Age

Death Number Local ID Regional Studbook # Captive Birth/Hatch
San Diego Zoo
20/Nov/2006 / 8Y,9M,28D at the time of death
[RP23767/SANDIEGOZ]
[906709/SANDIEGOZ]
[201-AZA /SANDIEGOZ]

Not a hybrid

-Undetermined [GAN: 26753489 | SANDIEGOZ / 900030] [GAN: MIG12-29851959 | SANDIEGOZ / 199069]

Hybrid Status

Enclosure

Rearing Dam Sire

| 1/Jan/ 1950 | | | | | | | | |
|---|--|---------|------------|---|--|-------------|------------|----------------------------------|
| | | | 26 | 5753935 Local ID: | 906714 | | | |
| Individual | Fiji bar | ded ig | uan | a Endar | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | _ | | Reported By | Disposition - Recipient/Local ID | Phy | | Date out |
| 27/Nov/2006 - | Birth/Hatch | ln - | ln - | SANDIEGOZ / 906714 SANDIEGOZ / 906714 | Loan Out To FORTWORTH/205937 Death (ownership only) | Out - | - Out | 8/Jul/2009 22/Feb/2014 |
| Sex/Contraception Hybrid Status Enclosure | Female / - Not a hybrid - | | | Birth Type Birth Location Birth Date/Age | Captive Birth/Hatch San Diego Zoo 27/Nov/2006 / 7Y,2M,26D at the time of death | | | |
| Rearing <u>Dam</u> Sire | None [GAN: 26753489 SANDIEGOZ / 900030] [GAN: MIG12-29851959 SANDIEGOZ / 1 | 99069] | | Local ID Regional Studbook # | [906714/SANDIEGOZ] [202-AZA /SANDIEGOZ] | | | |
| | | | 19 | 9979890 Local ID: | 907027 | | | |
| Individual | Fiji bar | ded ig | uan | a Endar | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | _ | | Reported By | Disposition - Recipient/Local ID | Phy | | Date out |
| 18/Feb/2007 | Birth/Hatch | ln | ln | SANDIEGOZ / 907027 | Death | Out | Out | 18/Feb/2007 |
| Sex/Contraception Hybrid Status Enclosure | Undetermined / - Not a hybrid - | | | Birth Type Birth Location Birth Date/Age | Captive Birth/Hatch San Diego Zoo 18/Feb/2007 / 0Y,0M,0D at the time of death | | | |
| Rearing Dam Sire | None [GAN: 19978942 SANDIEGOZ / 903031] [GAN: 8228910 SANDIEGOZ / 193264] | | | Death Number Local ID Regional Studbook # | [0049837/SANDIEGOZ] [907027/SANDIEGOZ] [203-AZA /SANDIEGOZ] | | | |
| | | | DNY | /14-12617 Local II | D: 907105 | | | |
| Individual | Fiji bar | ded ig | uan | a Endar | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | Phy | <u>Owr</u> | Date out |
| 11/May/2007 4/Oct/2011 | Loan In From Vendor: USFWS/NONE Donation From Vendor: USFWS/NONE | ln - | - In | SANDIEGOZ / 907105 SANDIEGOZ / 907105 | - - | - | - | - |
| Sex/Contraception Hybrid Status Enclosure | Male / - Not a hybrid AR07100 Reptile Mesa Enclosure Group | | | Birth Type Birth Location Birth Date/Age | Wild Birth/Hatch Fiji / ~ from 1/Jan/2005 to 1/Jan/2007 / 18Y,6M,9D | | | |
| Rearing Dam Sire | Undetermined [WILD / WILD] [WILD / WILD] | | | House Name Local ID Old Accession Number | [Angry Joe/SANDIEGOZ] [907105/SANDIEGOZ] | | | |
| | · · · | | DNY | ′14-12618 Local II | · · · · · · · · · · · · · · · · · · · | | | |
| Individual | Fiji bar | | | • | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Owr</u> | Date out |
| 11/May/2007 11/May/2007 | Loan In From Vendor: USFWS/NONE Donation From Vendor: USFWS/NONE | ln - | - In | SANDIEGOZ / 907106 SANDIEGOZ / 907106 | - Death | - Out | - Out | - 4/Oct/2011 |
| Sex/Contraception Hybrid Status Enclosure | Female / - Not a hybrid - | | | Birth Type Birth Location Birth Date/Age | Wild Birth/Hatch Fiji / ~ from 1/Jan/2005 to 1/Jan/2007 / 5Y,9M,3D a | t the tim | e of c | leath |
| Rearing Dam | Undetermined [WILD / WILD] | | | Death Number Local ID | [0054523/SANDIEGOZ] [907106/SANDIEGOZ] | | | |
| Sire | [WILD / WILD] | | | Old Accession Number Regional Studbook # | [AX584307/SANDIEGOZ] [226-AZA /SANDIEGOZ] | | | |
| | | | DNY | /14-12619 Local II | D: 907107 | | | |
| Individual Date in | Fiji bar Acquisition - Vendor/Local ID | _ | | a Endar n Reported By | ngered (EN) Disposition - Recipient/Local ID | Phy | | chylophus bulabula n Date out |
| 11/May/2007 4/Oct/2011 | Loan In From Vendor: USFWS/NONE Donation From Vendor: USFWS/NONE | In - | - In | SANDIEGOZ / 907107 SANDIEGOZ / 907107 | - | - - - | - | - |
| Sex/Contraception | Female / - | | | Birth Type | Wild Birth/Hatch | | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid AR07100 Rentile Mesa Enclosure Group | | | Birth Location Birth Date/Age | Fiji / ~ from 1/ lan/2005 to 1/ lan/2007 / 18Y 6M 9D. | | | |
| Rearing | AR07100 Reptile Mesa Enclosure Group Undetermined | | | House Name | ~ from 1/Jan/2005 to 1/Jan/2007 / 18Y,6M,9D [Eleana/SANDIEGOZ] | | | |
| <u>Dam</u> | [WILD / WILD] | | | Local ID | [907107/SANDIEGOZ] | | | |
| Sire | [WILD / WILD] | | | Old Accession Number | [AX584308/SANDIEGOZ] | | | |
| | | | DN۱ | /14-12620 Local II | D: 907108 | | | |
| Individual | Fiji bar | _ | | | ngered (EN) | | | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | | Owr | Reported By | Disposition - Recipient/Local ID | | Owr | Date out |
| 11/May/2007 | Loan In From Vendor: USFWS/NONE | ln | - | SANDIEGOZ / 907108 | Death | Out | - | 12/May/2007 |
| Sex/Contraception Hybrid Status | Undetermined / - | | | Birth Type Birth Location | Wild Birth/Hatch | | | |
| | Not a hybrid | | | Birth Location | Fiji / | | | |
| | - | | | Birth Date/Age | ~ from 11/Nov/2006 to 11/Nov/2007 / 0Y 0M 11 | J at the | time a | or death |
| Enclosure Rearing | - Undetermined | | | Local ID | ~ from 11/Nov/2006 to 11/Nov/2007 / 0Y,0M,1I [907108/SANDIEGOZ] |) at the | time (| or death |
| Enclosure Rearing Dam Sire | - Undetermined [WILD / WILD] [WILD / WILD] | | | | |) at the | time (| or death |

| | | | | | | | | 24 | |
|--|---|---|-------|------------------------|--|--|---------------------|------------|--|
| | | | | 23 | 3053880 Local ID: | 907119 | | | |
| les alissials and | | Fiii banda | : ا | | · · · · · · · · · · · · · · · · · · · | | | D | ahulankua kulaku |
| Individual Date in | Acquisition - Vendor/Local ID | Fiji bande | _ | | a Endai <u>Reported By</u> | ngered (EN) Disposition - Recipient/Local ID | Dhy | | chylophus bulabu Date out |
| 5/May/2007 | Birth/Hatch | | | ln | SANDIEGOZ / 907119 | Death | Out | | 27/May/2007 |
| - | | | 1 | II I | | | Out | Out | 21/May/2001 |
| ex/Contraception lybrid Status | Male / - Not a hybrid | | | | Birth Type Birth Location | Captive Birth/Hatch San Diego Zoo | | | |
| nclosure | - | | | | Birth Date/Age | 25/May/2007 / 0Y,0M,2D at the time of death | | | |
| earing | None | | | | Death Number | [0050125/SANDIEGOZ] | | | |
| o <u>am</u> Sire | [GAN: 19978942 SANDIEGOZ / 9 [GAN: 8228910 SANDIEGOZ / 19 | | | | Local ID Regional Studbook # | [907119/SANDIEGOZ] [204-AZA /SANDIEGOZ] | | | |
| | | | | 22 | 3053881 Local ID: | · · · · · · · · · · · · · · · · · · · | | | |
| Individual | | Fiji bande | d ia | | • | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | • | _ | | Reported By | Disposition - Recipient/Local ID | Phy | | Date out |
| | | | | | | | | | <u>'</u> |
| /Jun/2007 | Birth/Hatch | lı | 1 | ln | SANDIEGOZ / 907124 | Death | Out | Out | 11/Jul/2007 |
| ex/Contraception lybrid Status | Undetermined / - Not a hybrid | | | | Birth Type Birth Location | Captive Birth/Hatch San Diego Zoo | | | |
| inclosure | - | | | | Birth Date/Age | 1/Jun/2007 / 0Y,1M,10D at the time of death | | | |
| Rearing | None | | | | Death Number | [0050272/SANDIEGOZ] | | | |
| <u>am</u> | [GAN: 19978942 SANDIEGOZ / 9 | | | | Local ID | [907124/SANDIEGOZ] | | | |
| <u>iire</u> | [GAN: 8228910 SANDIEGOZ / 19 | 93264] | | | Regional Studbook # | [205-AZA /SANDIEGOZ] | | | |
| | | | | 23 | 8054149 Local ID: | 907529 | | | |
| Individual | ı | Fiji bande | d ig | uan | a Endaı | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | <u>F</u> | hy | Own | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own | Date out |
| /Dec/2007 | Birth/Hatch | li | 1 | ln | SANDIEGOZ / 907529 | Death | Out | Out | ~ from 10/Jun/2020 to 11/Jun/2020 |
| ex/Contraception | Male / - | | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | Species Hybrid | | | | Birth Location | San Diego Zoo | | | |
| nclosure | ī. | | | | Birth Date/Age | 8/Dec/2007 / 12Y,6M,2D at the time of death | | | |
| earing am | None | 7 / 0071071 | | | Death Number Local ID | [0065450/SANDIEGOZ] [907529/SANDIEGOZ] | | | |
| ire | [GAN: DNY14-12619 SANDIEGO [UNK / UNKNOWN] | <i>i</i> | | | <u>Loour ID</u> | [aut 32a/3ANDIEGO2] | | | |
| | <u> </u> | | | | | | | | |
| In all of the all | | F::: 1 | | | 5215756 Local ID: | | | D | alanda a kara bada bad |
| Individual | | Fiji bande - | _ | | | ngered (EN) | Dhy | | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | | | Reported By | Disposition - Recipient/Local ID | | | Date out |
| 1/Dec/2007 | Birth/Hatch | li | 1 | ln | SANDIEGOZ / 907540 | Death | Out | Out | 3/Jan/2011 |
| Sex/Contraception | Female / - | | | | Birth Type | Captive Birth/Hatch | | | |
| lybrid Status | On a size a 1 link wild | | | | Pirth Leastion | - I | | | |
| nclosure | Species Hybrid | | | | Birth Location Birth Date/Age | San Diego Zoo | | | |
| | Species Hybrid - None | | | | Birth Location Birth Date/Age Death Number | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death | 1 | | |
| Rearing | - | oZ / 907106] | | | Birth Date/Age | San Diego Zoo | 1 | | |
| Rearing Dam | - None | oZ / 907106] | | | Birth Date/Age Death Number | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] | 1 | | |
| earing eam | None [GAN: DNY14-12618 SANDIEGO | oZ / 907106] | | 25 | Birth Date/Age Death Number | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] | 1 | | |
| earing am ire | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] | Fiji bande | d ig | uan | Birth Date/Age Death Number Local ID 5215774 Local ID: a Endar | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) | | | , . |
| earing lam lire | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] | Fiji bande | d ig | uan | Birth Date/Age Death Number Local ID 215774 Local ID: | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 | | | chylophus bulabul <u>Date out</u> |
| Rearing Dam Sire Individual Date in | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] | Fiji bande | digi | uan | Birth Date/Age Death Number Local ID 5215774 Local ID: a Endar | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) | | | |
| Rearing Dam Sire Individual Date in 12/Dec/2007 | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID | Fiji bande <u>F</u> | digi | uan Own | Birth Date/Age Death Number Local ID 5215774 Local ID: a Endai | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) | | | , . |
| Individual Date in E2/Dec/2007 Sex/Contraception Bybrid Status | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid | Fiji bande <u>F</u> | digi | uan Own | Birth Date/Age Death Number Local ID 5215774 Local ID: a Endai Reported By SANDIEGOZ / 907581 Birth Type Birth Location | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo | | | , . |
| learing lam lite lindividual loate in li2/Dec/2007 lex/Contraception lybrid Status linclosure | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure | Fiji bande <u>F</u> | digi | uan Own | Birth Date/Age Death Number Local ID 6215774 Local ID: a Endate Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D | | | , . |
| learing lam lire Individual Date in 2/Dec/2007 lex/Contraception lybrid Status inclosure learing | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None | Fiji bande <u>F</u> I e Group | digu | uan Own | Birth Date/Age Death Number Local ID 5215774 Local ID: a Endai Reported By SANDIEGOZ / 907581 Birth Type Birth Location | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo | | | , . |
| Individual Date in Ear/Contraception Upbrid Status Enclosure Etearing Dam | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure | Fiji bande <u>F</u> I e Group | digu | uan Own | Birth Date/Age Death Number Local ID 6215774 Local ID: a Endate Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D | | | |
| Individual Date in Ear/Contraception Upbrid Status Enclosure Etearing Dam | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO | Fiji bande <u>F</u> I e Group | digu | uan: Own In | Birth Date/Age Death Number Local ID 6215774 Local ID: a Endate Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] | | | |
| Individual Date in 2/Dec/2007 Sex/Contraception Hybrid Status Enclosure Estaring Dam Bire | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] | Fiji bande <u>F</u> I e Group | d igi | Own | Birth Date/Age Death Number Local ID 5215774 Local ID: 6215774 Loc | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] | | Owr - | chylophus bulabul 1 <u>Date out</u> - chylophus bulabul |
| Individual Date in 12/Dec/2007 Sex/Contraception Sybrid Status Enclosure Etearing Dam Sire | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] | Fiji bande <u>F</u> a Group oZ / 907106] | d igu | uan Own In 23 | Birth Date/Age Death Number Local ID 5215774 Local ID: 6215774 Loc | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] | Phy - | Owr | Date out |
| Individual Date in 2/Dec/2007 ex/Contraception hybrid Status inclosure learing lam irre Individual Date in 3/Dec/2007 | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] | Fiji bande Fiji bande Group JZ / 907106] Fiji bande | d igu | uan: Own 23 uan: Own | Birth Date/Age Death Number Local ID 5215774 Local ID: a Endai Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age Local ID 5054188 Local ID: a Endai Reported By SANDIEGOZ / 907590 | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] 907590 ngered (EN) Disposition - Recipient/Local ID Loan Out To SACRAMNTO/301529 | Phy - Phy Out | Bra Owr | chylophus bulabul |
| earing am ire Individual rate in 2/Dec/2007 ex/Contraception ybrid Status noticusure earing am ire Individual late in 3/Dec/2007 | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] | Fiji bande Fiji bande Group JZ / 907106] Fiji bande | d igu | uan: Own 23 uan: Own | Birth Date/Age Death Number Local ID 6215774 Local ID: a Endar Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age Local ID 6054188 Local ID: a Endar | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] 907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] 907590 ngered (EN) Disposition - Recipient/Local ID | Phy - | Bra Owr | Date out - chylophus bulabu |
| Individual Date in 2/Dec/2007 Sex/Contraception Dybrid Status Sinclosure Searing Date Date in 3/Dec/2007 //Feb/2013 | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/907 | Fiji bande Fiji bande Group JZ / 907106] Fiji bande | d igu | uan: Own 23 uan: Own | Birth Date/Age Death Number Local ID S215774 Local ID: a Endar Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age Local ID S054188 Local ID: a Endar Reported By SANDIEGOZ / 907590 SACRAMNTO / 301529 SANDIEGOZ / 907590 | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] [907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] 907590 ngered (EN) Disposition - Recipient/Local ID Loan Out To SACRAMNTO/301529 | Phy - Phy Out | Bra Owr | chylophus bulabu |
| Individual Date in Example of the state of t | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/90' Vendor: SANDIEGOZ/907590 - Male / - | Fiji bande Fiji bande Group JZ / 907106] Fiji bande | d igu | uan: Own 23 uan: Own | Birth Date/Age Death Number Local ID 5215774 Local ID: a Endar Reported By SANDIEGOZ / 907581 Birth Type Birth Local ID: a Endar Reported By Local ID 5054188 Local ID: a Endar Reported By SANDIEGOZ / 907590 SACRAMNTO / 301529 SANDIEGOZ / 907590 Birth Type | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] 907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] 907590 ngered (EN) Disposition - Recipient/Local ID Loan Out To SACRAMNTO/301529 Death Death (ownership only) Captive Birth/Hatch | Phy - Phy Out | Bra Owr | chylophus bulabu Date out 6/Feb/2013 4/Oct/2017 |
| Individual Date in 2/Dec/2007 Sex/Contraception Date in 3/Dec/2007 Sex/Contraception Date in 3/Dec/2007 Sex/Contraception Date in 3/Dec/2007 Sex/Contraception Date in | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/90' Vendor: SANDIEGOZ/907590 | Fiji bande Fiji bande Group JZ / 907106] Fiji bande | d igu | uan: Own 23 uan: Own | Birth Date/Age Death Number Local ID 6215774 Local ID: a Endar Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age Local ID 6054188 Local ID: a Endar Reported By SANDIEGOZ / 907590 SACRAMNTO / 301529 SANDIEGOZ / 907590 Birth Type Birth Location | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] 907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] 907590 ngered (EN) Disposition - Recipient/Local ID Loan Out To SACRAMNTO/301529 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo | Phy - Phy Out Out - | Bra Owr | chylophus bulabu Date out 6/Feb/2013 4/Oct/2017 |
| lindividual Date in 12/Dec/2007 Sex/Contraception Stree Individual Date in 13/Dec/2007 /Feb/2013 Sex/Contraception Styrid Status Sirce Sex/Contraception Styrid Status Sirce Sex/Contraception Styrid Status Sirce Sex/Contraception Styrid Status Sirclosure | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/90' Vendor: SANDIEGOZ/907590 - Male / - Not a hybrid - | Fiji bande Fiji bande Group JZ / 907106] Fiji bande | d igu | uan: Own 23 uan: Own | Birth Date/Age Death Number Local ID 6215774 Local ID: a Endar Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age Local ID 8054188 Local ID: a Endar Reported By SANDIEGOZ / 907590 SACRAMNTO / 301529 SANDIEGOZ / 907590 Birth Type Birth Location Birth Date/Age | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] 907581 907581 Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] 907590 ngered (EN) Disposition - Recipient/Local ID Loan Out To SACRAMNTO/301529 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Dec/2007 / 9Y,9M,11D at the time of death | Phy - Phy Out Out - | Bra Owr | chylophus bulabu Date out 6/Feb/2013 4/Oct/2017 |
| lindividual Date in 12/Dec/2007 Sex/Contraception Stylind Status Sinclosure Learing Date in 13/Dec/2007 1/Feb/2013 Sex/Contraception Stylind Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status Sinclosure Status | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/907 Vendor: SANDIEGOZ/907590 - Male / - Not a hybrid - None | Fiji bande Group Fiji bande Fiji bande Fiji bande | d igu | uan: Own 23 uan: Own | Birth Date/Age Death Number Local ID 5215774 Local ID: a Endar Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age Local ID 5054188 Local ID: a Endar Reported By SANDIEGOZ / 907590 SACRAMNTO / 301529 SANDIEGOZ / 907590 Birth Type Birth Location Birth Date/Age Death Number | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] 907540/SANDIEGOZ] 907581 ngered (EN) Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] 907590 ngered (EN) Disposition - Recipient/Local ID Loan Out To SACRAMNTO/301529 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Dec/2007 / 9Y,9M,11D at the time of death [RP25901/SANDIEGOZ] | Phy - Phy Out Out - | Bra Owr | chylophus bulabul Date out 6/Feb/2013 4/Oct/2017 |
| lindividual Date in 12/Dec/2007 Sex/Contraception Stree Individual Date in 13/Dec/2007 /Feb/2013 Sex/Contraception Styrid Status Sirce Sex/Contraception Styrid Status Sirce Sex/Contraception Styrid Status Sirce Sex/Contraception Styrid Status Sirclosure | None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Female / - Species Hybrid AR07100 Reptile Mesa Enclosure None [GAN: DNY14-12618 SANDIEGO [UNK / UNKNOWN] Acquisition - Vendor/Local ID Birth/Hatch Loan In From Sender: SANDIEGOZ/90' Vendor: SANDIEGOZ/907590 - Male / - Not a hybrid - | Fiji bande | d igu | uan: Own 23 uan: Own | Birth Date/Age Death Number Local ID 6215774 Local ID: a Endar Reported By SANDIEGOZ / 907581 Birth Type Birth Location Birth Date/Age Local ID 8054188 Local ID: a Endar Reported By SANDIEGOZ / 907590 SACRAMNTO / 301529 SANDIEGOZ / 907590 Birth Type Birth Location Birth Date/Age | San Diego Zoo 11/Dec/2007 / 3Y,0M,23D at the time of death [0053757/SANDIEGOZ] 907581 907581 Disposition - Recipient/Local ID - Captive Birth/Hatch San Diego Zoo 22/Dec/2007 / 16Y,6M,18D [907581/SANDIEGOZ] 907590 ngered (EN) Disposition - Recipient/Local ID Loan Out To SACRAMNTO/301529 Death Death (ownership only) Captive Birth/Hatch San Diego Zoo 23/Dec/2007 / 9Y,9M,11D at the time of death | Phy - Phy Out Out - | Bra Owr | chylophus bulabul Date out 6/Feb/2013 4/Oct/2017 |

| 1/Jan/1950 | | | | | 10 | /Jul/20: | 24 | 360 |
|---|---|------------|------------|--|--|------------|-----------|---------------------------------|
| | | | 23 | 8054189 Local ID: | 907591 | | | |
| Individual Date in | Fiji band Acquisition - Vendor/Local ID | - | - | a Endai Reported By | ngered (EN) Disposition - Recipient/Local ID | Phy | | achylophus bulabu n Date out |
| 27/Dec/2007 21/May/2014 | Birth/Hatch Loan In From Sender: SANDIEGOZ/907591 | In In | In - | SANDIEGOZ / 907591 SAN ANTON / Y14067 | Loan Out To SAN ANTON/Y14067 Death | Out Out | - | 20/May/2014 19/Mar/2019 |
| | Vendor: SANDIEGOZ/907591 | - | - | SANDIEGOZ / 907591 | Death (ownership only) | - | Out | 19/Mar/2019 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam | Female / - Not a hybrid - None [GAN: 26753489 SANDIEGOZ / 900030] [GAN: MIG12-29851959 SANDIEGOZ / 19 | 9069] | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 27/Dec/2007 / 11Y,2M,20D at the time of deat [907591/SANDIEGOZ] [207-AZA /SANDIEGOZ] | n | | |
| | | | 23 | 3054322 Local ID: | 908137 | | | |
| Individual | Fiji band | ded iç | guan | a Endai | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Ow | n Date out |
| 5/May/2008 | Birth/Hatch | ln | ln | SANDIEGOZ / 908137 | Loan Out To TOLEDO/7795 | Out | - | 26/Apr/2012 |
| 27/Apr/2012 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Loan In From Vendor: SANDIEGOZ/908137 Male / - Not a hybrid - None [GAN: 23053413 SANDIEGOZ / 903036] [GAN: 23053437 SANDIEGOZ / 903227] | ln . | - | TOLEDO / 7795 Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | - Captive Birth/Hatch San Diego Zoo 5/May/2008 / 16Y,2M,5D [908137/SANDIEGOZ] [208-AZA /SANDIEGOZ] | - | - | - |
| | | | 23 | 3054323 Local ID: | 908138 | | | |
| Individual | Fiji band | ded iç | guan | a Endai | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Ow</u> | n Date out |
| 7/May/2008 26/Sep/2013 | Birth/Hatch Loan In From Sender: SANDIEGOZ/908138 Vendor: SANDIEGOZ/908138 | In In | ln - | SANDIEGOZ / 908138 HOUSTON / 28420 | Loan Out To HOUSTON/28420 - | Out - | - | 25/Sep/2013 - |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 23053413 SANDIEGOZ / 903036] [GAN: 23053437 SANDIEGOZ / 903227] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 7/May/2008 / 16Y,2M,3D [908138/SANDIEGOZ] [209-AZA /SANDIEGOZ] [00-0726-C4D1/SANDIEGOZ] | | | |
| | | | 23 | 3054324 Local ID: | 908139 | | | |
| Individual | Fiji ban | ded iç | guan | a Endai | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Ow</u> | n Date out |
| 9/May/2008 28/May/2014 | Birth/Hatch Loan In From Sender: SANDIEGOZ/908139 Vendor: SANDIEGOZ/908139 | In In | ln - | SANDIEGOZ / 908139 DALLAS / 14P126 | Loan Out To DALLAS/14P126 Death | Out Out | - | 28/May/2014 12/Sep/2014 |
| 2 | | - | - | SANDIEGOZ / 908139 | Death (ownership only) | - | Out | 12/Sep/2014 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - None [GAN: 23053413 SANDIEGOZ / 903036] [GAN: 23053437 SANDIEGOZ / 903227] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 9/May/2008 / 6Y,4M,3D at the time of death [908139/SANDIEGOZ] [210-AZA /SANDIEGOZ] [TP000724564B/SANDIEGOZ] | | | |
| | | | 23 | 3054325 Local ID: | 908140 | | | |
| Individual | Fiji ban | ded iç | guan | a Endai | ngered (EN) | | Bra | chylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out |
| 9/May/2008 | Birth/Hatch | ln | ln | SANDIEGOZ / 908140 | Death | Out | Out | 29/Sep/2012 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - None [GAN: 23053413 SANDIEGOZ / 903036] [GAN: 23053437 SANDIEGOZ / 903227] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 9/May/2008 / 4Y,4M,20D at the time of death [0055523/SANDIEGOZ] [908140/SANDIEGOZ] [211-AZA /SANDIEGOZ] | | | |

| | 25216178 Local ID: 908521 | | | | | | | | | | |
|-------------------|---------------------------------------|-------|------|---------------------|---|-----|-----|--------------------|--|--|--|
| Individual | Fiji band | ded i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owr | Date out | | | |
| 13/Dec/2008 | Birth/Hatch | ln | ln | SANDIEGOZ / 908521 | Loan Out To NZP-WASH/307298 | Out | - | 27/Jul/2010 | | | |
| 28/Jul/2010 | Loan In From Vendor: SANDIEGOZ/908521 | ln | - | NZP-WASH / 307298 | Death | Out | - | 26/Aug/2023 | | | |
| - | - | - | - | SANDIEGOZ / 908521 | Death (ownership only) | - | Out | 26/Aug/2023 | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| Enclosure | - | | | Birth Date/Age | 13/Dec/2008 / 14Y.8M.13D at the time of death | | | | | | |
| Rearing | None | | | Local ID | [908521/SANDIEGOZ] | | | | | | |
| Dam | [GAN: 26753534 SANDIEGOZ / 901018] | | | Regional Studbook # | [212-AZA /SANDIEGOZ] | | | | | | |
| Sire | [GAN: 25215134 SANDIEGOZ / 193178] | | | | | | | | | | |

| | | | 2 | 5216187 Local ID: | 908530 | | | |
|-------------------|--|-------|------------|---------------------|---|------------|-----|--------------------|
| Individual | Fiji band | led i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owi | n Date out |
| 20/Dec/2008 | Birth/Hatch | ln | ln | SANDIEGOZ / 908530 | Loan Out To NZP-WASH/307297 | Out | - | 27/Jul/2010 |
| 28/Jul/2010 | Loan In From Vendor: SANDIEGOZ/908530 | ln | - | NZP-WASH / 307297 | Loan Transfer To DALLAS/14P119 | Out | - | 21/May/2014 |
| - | - | - | - | SANDIEGOZ / 908530 | Loan out to (change in reported holder) DALLAS/14P119 | - | - | 21/May/2014 |
| 21/May/2014 | Loan Transfer From Sender: NZP-WASH/307297 Vendor: SANDIEGOZ/908530 | ' In | - | DALLAS / 14P119 | Death | Out | - | 30/May/2021 |
| - | - | - | - | SANDIEGOZ / 908530 | Death (ownership only) | - | Out | 30/May/2021 |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 20/Dec/2008 / 12Y,5M,10D at the time of death | | | |
| Rearing | None | | | Local ID | [908530/SANDIEGOZ] | | | |
| Dam | [GAN: 26753534 SANDIEGOZ / 901018] | | | Regional Studbook # | [213-AZA /SANDIEGOZ] | | | |
| Sire | [GAN: 25215134 SANDIEGOZ / 193178] | | | | [, | | | |

| | 25216189 Local ID: 908532 | | | | | | | | | | |
|-------------------|---------------------------------------|------------|------|---------------------|---|------------|-----------------------|-------------|--|--|--|
| Individual | Fiji band | ded i | guan | a Enda | ngered (EN) | | Brachylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owi | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Owr</u> | Date out | | | |
| 22/Dec/2008 | Birth/Hatch | ln | ln | SANDIEGOZ / 908532 | Loan Out To LOSANGELE/992597 | Out | - | 17/Jan/2012 | | | |
| 17/Jan/2012 | Loan In From Vendor: SANDIEGOZ/908532 | ln | - | LOSANGELE / 992597 | Death | Out | - | 29/Sep/2016 | | | |
| - | - | - | - | SANDIEGOZ / 908532 | Death (ownership only) | - | Out | 29/Sep/2016 | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| Enclosure | - | | | Birth Date/Age | 22/Dec/2008 / 7Y,9M,7D at the time of death | | | | | | |
| Rearing | None | | | Death Number | [RP25889/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 26753534 SANDIEGOZ / 901018] | | | Local ID | [908532/SANDIEGOZ] | | | | | | |
| Sire | [GAN: 25215134 SANDIEGOZ / 193178] | | | Regional Studbook # | [214-AZA /SANDIEGOZ] | | | | | | |

| | 26/54236 Local ID: 908536 | | | | | | | | | | |
|-------------------|---------------------------------------|-------|------------|---------------------|---|-----|--------------------|-------------|--|--|--|
| Individual | Fiji band | ded i | guan | a Endai | ngered (EN) | | chylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | Phy | Own | Date out | | | |
| 25/Dec/2008 | Birth/Hatch | ln | ln | SANDIEGOZ / 908536 | Loan Out To TOLEDO/7796 | Out | - | 26/Apr/2012 | | | |
| 27/Apr/2012 | Loan In From Vendor: SANDIEGOZ/908536 | ln | - | TOLEDO / 7796 | Death | Out | - | 20/Dec/2018 | | | |
| - | - | - | - | SANDIEGOZ / 908536 | Death (ownership only) | - | Out | 20/Dec/2018 | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| Enclosure | - | | | Birth Date/Age | 25/Dec/2008 / 9Y,11M,25D at the time of death | | | | | | |
| Rearing | None | | | Local ID | [908536/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 26753534 SANDIEGOZ / 901018] | | | Regional Studbook # | [215-AZA /SANDIEGOZ] | | | | | | |
| <u>Sire</u> | [GAN: 25215134 SANDIEGOZ / 193178] | | | | | | | | | | |

| | 26754255 Local ID: 908560 | | | | | | | | | | |
|--|---|--------|------|---|--|------------|------------|--------------------|--|--|--|
| Individual | Fiji band | ded iç | juan | a Enda | ngered (EN) | | Brad | chylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Own</u> | Date out | | | |
| 29/Dec/2008 | Birth/Hatch | ln | ln | SANDIEGOZ / 908560 | Loan Out To LOWRY/303631 | Out | - | 22/Apr/2015 | | | |
| 23/Apr/2015 | Loan In From Sender: SANDIEGOZ/908560 Vendor: SANDIEGOZ/908560 | ln | - | LOWRY / 303631 | Loan Transfer To FORTWORTH/211912 | Out | - | 14/Jan/2020 | | | |
| | - | - | - | SANDIEGOZ / 908560 | Loan out to (change in reported holder) FORTWORTH/211912 | - | - | 14/Jan/2020 | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 26753534 SANDIEGOZ / 901018] [GAN: 25215134 SANDIEGOZ / 193178] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 29/Dec/2008 / 15Y,6M,11D [908560/SANDIEGOZ] [216-AZA /SANDIEGOZ] | | | | | | |

Copyright, Species360, 2024. All rights reserved.

Page 39 of 45

| | | | 2 | 6754263 Local ID: | 909020 | | | | |
|--|--|-------|--------------------------|--|---|-----|----------------------|-------------|--|
| Individual | Fiji bar | ded i | d iguana Endangered (EN) | | | | Brachylophus bulabul | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Owi | n Date out | |
| 15/Jan/2009 | Birth/Hatch | ln | ln | SANDIEGOZ / 909020 | Death | Out | Out | 25/Jan/2009 | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - None [GAN: 26753935 SANDIEGOZ / 906714] [GAN: 25215447 SANDIEGOZ / 904001] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 15/Jan/2009 / 0Y,0M,10D at the time of death [0051720/SANDIEGOZ] [909020/SANDIEGOZ] [217-AZA /SANDIEGOZ] | | | | |
| DNY14-12744 Local ID: 909560 | | | | | | | | | |

| | DN114-12744 LOCALID. 909300 | | | | | | | | | | |
|-------------------|--------------------------------------|----------------|----|---------------------|---|-----|-----|--------------------|--|--|--|
| Individual | Fiji band | ded iguana End | | | ngered (EN) | | Bra | chylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | Phy | Own | Date out | | | |
| 23/Dec/2009 | Birth/Hatch | İn | ln | SANDIEGOZ / 909560 | Death | Out | Out | 15/Feb/2021 | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 23/Dec/2009 / 11Y,1M,23D at the time of death | | | | | | |
| Rearing | None | | | Death Number | [0066461/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 19978942 SANDIEGOZ / 903031] | | | Local ID | [909560/SANDIEGOZ] | | | | | | |
| Sire | [GAN: 8228910 SANDIEGOZ / 193264] | | | Regional Studbook # | [218-AZA /SANDIEGOZ] | | | | | | |
| | | | | | | | | | | | |

| | HVH12-00103 Local ID: 909562 | | | | | | | | | | |
|-------------------|---------------------------------------|-------|------|---------------------|----------------------------------|------------|-----|---------------------|--|--|--|
| Individual | Fiji band | ded i | guan | a Enda | ngered (EN) | | Bra | achylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Ow | n Date out | | | |
| 30/Dec/2009 | Birth/Hatch | ln | ln | SANDIEGOZ / 909562 | Loan Out To TULSA/16554 | Out | - | 12/Jul/2012 | | | |
| 13/Jul/2012 | Loan In From Vendor: SANDIEGOZ/909562 | ln | - | TULSA / 16554 | - | - | - | - | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| Enclosure | - | | | Birth Date/Age | 30/Dec/2009 / 14Y,6M,10D | | | | | | |
| Rearing | Undetermined | | | Local ID | [909562/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 19978942 SANDIEGOZ / 903031] | | | Regional Studbook # | [219-AZA /SANDIEGOZ] | | | | | | |
| Sire | [GAN: 8228910 SANDIEGOZ / 193264] | | | | | | | | | | |

| DNY14-12748 Local ID: 910003 | | | | | | | | | | | |
|--|--|------------|------------|--|---|-----|-----------|---------------------|--|--|--|
| Individual | Fiji band | ded ig | juan | na Endangered (EN) | | | | achylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out | | | |
| 8/Jan/2010 | Birth/Hatch | ln | ln | SANDIEGOZ/910003 | Death | Out | Out | 16/Apr/2019 | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - None [GAN: 19978942 SANDIEGOZ / 903031] [GAN: 8228910 SANDIEGOZ / 193264] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 8/Jan/2010 / 9Y,3M,8D at the time of death [0063136/SANDIEGOZ] [910003/SANDIEGOZ] [220-AZA /SANDIEGOZ] [0006E70FA4/SANDIEGOZ] | | | | | | |

| Individual | Fiji band | banded iguana Endangered (EN) | | | | | Bra | achylophus bulabula |
|-------------------|---------------------------------------|-------------------------------|----|---------------------|----------------------------------|------------|-----|---------------------|
| Date in | Acquisition - Vendor/Local ID | Phy | Ow | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Ow | n Date out |
| 18/Feb/2010 | Birth/Hatch | ln | ln | SANDIEGOZ/910031 | Loan Out To NZP-WASH/307492 | Out | - | 28/May/2014 |
| 29/May/2014 | Loan In From Vendor: SANDIEGOZ/910031 | ln | - | NZP-WASH / 307492 | - | - | - | - |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | | |
| Enclosure | - | | | Birth Date/Age | 18/Feb/2010 / 14Y,4M,22D | | | |
| Rearing | None | | | Local ID | [910031/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 19978942 SANDIEGOZ / 903031] | | | Regional Studbook # | [221-AZA /SANDIEGOZ] | | | |
| Sire | [GAN: 8228910 SANDIEGOZ / 193264] | | | | • | | | |

| | | | JPK | (13-01041 Local I | D: 910032 | | | |
|---|---|---------------|--------------|--|--|-----------------|---------------|---|
| Individual | Fiji ban | ded ig | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | • | - | Reported By | Disposition - Recipient/Local ID | Phy | | Date out |
| 23/Feb/2010 18/Oct/2013 | Birth/Hatch Loan In From Sender: SANDIEGOZ/910032 Vendor: SANDIEGOZ/910032 | In In | ln - | SANDIEGOZ / 910032 EVANSVLLE / 313010 | Loan Out To EVANSVLLE/313010 Loan Transfer To NORFOLK/217198 | Out Out | - | 17/Oct/2013 11/Jul/2017 |
| - | - | - | - | SANDIEGOZ/910032 | Loan out to (change in reported holder) NORFOLK/217198 | - | - | 11/Jul/2017 |
| 11/Jul/2017 | Loan In From Sender: EVANSVLLE/313010 Vendor: SANDIEGOZ/910032 | ln | - | NORFOLK / 217198 | - | - | - | - |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 19978942 SANDIEGOZ / 903031] [GAN: 8228910 SANDIEGOZ / 193264] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 23/Feb/2010 / 14Y,4M,17D [910032/SANDIEGOZ] [222-AZA /SANDIEGOZ] [00-0726-808C/[Body/-]/SANDIEGOZ] | | | |
| | | | HVI | 112-00104 Local I | D: 910586 | | | |
| Individual | Fiji band | ded i | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Owi | Date out |
| 27/Nov/2010 13/Jul/2012 - | Birth/Hatch Loan In From Vendor: SANDIEGOZ/910586 - | In In - | In - - | SANDIEGOZ / 910586 TULSA / 16555 SANDIEGOZ / 910586 | Loan Out To TULSA/16555 Death Death (ownership only) | Out Out - | - - Out | 12/Jul/2012 4/Apr/2016 4/Apr/2016 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - Undetermined [GAN: 23053413 SANDIEGOZ / 903036] [GAN: 23053437 SANDIEGOZ / 903227] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 27/Nov/2010 / 5Y,4M,8D at the time of death [RP25097/SANDIEGOZ] [910586/SANDIEGOZ] [223-AZA /SANDIEGOZ] | | | |
| | | | BPI | _13-01636 Local I | D: 910590 | | | |
| Individual | Fiji ban | • | - | | ngered (EN) | | | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | | | n Date out |
| 2/Dec/2010 13/Nov/2013 | Birth/Hatch Loan In From Sender: SANDIEGOZ/910590 Vendor: SANDIEGOZ/910590 | In In | ln - | SANDIEGOZ / 910590 LOWRY / 303582 | Loan Out To LOWRY/303582 Loan Transfer To FORTWORTH/UNDETERM+ | Out Out | - | 12/Nov/2013 16/Jun/2020 |
| - | - | - | - | SANDIEGOZ / 910590 | Loan out to (change in reported holder) FORTWORTH/212140 | - | - | 16/Jun/2020 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - None [GAN: 23053413 SANDIEGOZ / 903036] [GAN: 23053437 SANDIEGOZ / 903227] | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # Transponder | Captive Birth/Hatch San Diego Zoo 2/Dec/2010 / 13Y,7M,8D [910590/SANDIEGOZ] [224-AZA /SANDIEGOZ] [00-06B3-6247/[Leg/Left]/SANDIEGOZ] | | | |
| | | | DNY | /14-13268 Local I | D: 911031 | | | |
| Individual | Fiji band | ded iç | guan | a Enda | ngered (EN) | | Bra | chylophus bulabula |
| Date in 6/Jan/2011 | Acquisition - Vendor/Local ID Birth/Hatch | Phy In | Owr In | Reported By SANDIEGOZ / 911031 | <u>Disposition - Recipient/Local ID</u> Death | | | Date out 15/May/2012 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: 26754236 SANDIEGOZ / 908536] [GAN: 23054322 SANDIEGOZ / 908137] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 6/Jan/2011 / 1Y,4M,9D at the time of death [0055048/SANDIEGOZ] [911031/SANDIEGOZ] [225-AZA /SANDIEGOZ] | Out | Out | ISIMUY2012 |
| | . , ====: | | ואם | /14-13269 Local I | . , | | | |
| Individual | Fiji ban | ded id | | • | ngered (EN) | | Bra | chylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | • | - | Reported By | Disposition - Recipient/Local ID | Phv | | n Date out |
| 11/Jan/2011 | Birth/Hatch | ln | In | SANDIEGOZ / 911032 | - | - | | - |
| Sex/Contraception Hybrid Status Enclosure Rearing | Female / - Not a hybrid BB20004 Sanford Children's Zoo Enclosu None | | | Birth Type Birth Location Birth Date/Age Local ID | Captive Birth/Hatch San Diego Zoo 11/Jan/2011 / 13Y,5M,29D [911032/SANDIEGOZ] | | | |
| <u>Dam</u> Sire | [GAN: 26754236 SANDIEGOZ / 908536] [GAN: 23054322 SANDIEGOZ / 908137] | | | Regional Studbook # Transponder | [911032/SANDIEGOZ] [232-AZA /SANDIEGOZ] [0007356c75/[Leg/Hind, Left]/SANDIEGOZ] | | | |

| 1/Jan/1950 | | | | | | | 10/Jul/202 | 24 360 |
|--|---|-------------|------------|---------|---|--|------------|----------------------|
| | | | | DNY | /14-13969 Local | ID: 913257 | | |
| Individual | | Fiji band | ded i | guan | a Enda | angered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | Phy | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 11/Jul/2013 15/Sep/2015 | Birth/Hatch Loan In From Sender: SANDIEGOZ/ Vendor: SANDIEGOZ/913257 | 913257 | In In | ln - | SANDIEGOZ / 913257 DALLAS / 15Q468 | Loan Out To DALLAS/15Q468 Death | Out Out | |
| - | - | | - | - | SANDIEGOZ / 913257 | Death (ownership only) | - | Out 3/Oct/2021 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid - None [GAN: DNY14-12619 SANDIEC [GAN: DNY14-12617 SANDIEC | | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 11/Jul/2013 / 8Y,2M,22D at the time of dea [913257/SANDIEGOZ] [234-AZA /SANDIEGOZ] | ith | |
| | | | | DNY | /14-13970 Local | ID: 913258 | | |
| Individual | | Fiji band | led i | guan | a Enda | angered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | Phy | Own | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 12/Jul/2013 9/Jun/2015 | Birth/Hatch Loan In From Sender: SANDIEGOZ/ Vendor: SANDIEGOZ/913258 | 913258 | In In | In - | SANDIEGOZ / 913258 CHICAGOBR / 6086 | Loan Out To CHICAGOBR/6086 Death | Out Out | - 25/Mar/2023 |
| - | - | | - | - | SANDIEGOZ / 913258 | Death (ownership only) | - | Out 25/Mar/2023 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: DNY14-12619 SANDIEC | | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 12/Jul/2013 / 9Y,8M,13D at the time of dea [913258/SANDIEGOZ] [235-AZA /SANDIEGOZ] | ath | |
| | [GAN: DNY14-12617 SANDIEC | 302730710 | .0] | DNY | /14-13972 Local | ID: 913268 | | |
| Individual | | Fiji band | ded i | guan | a Enda | angered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | • | | _ | Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 18/Jul/2013 | Birth/Hatch | | In | | SANDIEGOZ / 913268 | - | - | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid AR07100 Reptile Mesa Enclosi None [GAN: DNY14-12619 SANDIEC [GAN: DNY14-12617 SANDIEC | GOZ / 90710 | • | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 18/Jul/2013 / 10Y,11M,22D [913268/SANDIEGOZ] [236-AZA /SANDIEGOZ] | | |
| | | | | DNY | /14-13974 Local | ID: 913270 | | |
| Individual | | Fiji band | led i | guan | a Enda | angered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | <u>Phy</u> | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 22/Jul/2013 | Birth/Hatch | | ln | ln | SANDIEGOZ / 913270 | - | - | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid BB20004 Sanford Children's Zo None [GAN: DNY14-12619 SANDIEC [GAN: DNY14-12617 SANDIEC | GOZ / 90710 | 7] | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 22/Jul/2013 / 10Y,11M,18D [913270/SANDIEGOZ] [237-AZA /SANDIEGOZ] | | |
| | | | | DNY | /14-14092 Local | ID: 913463 | | |
| Individual | | Fiji band | ded i | guan | a Enda | angered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 30/Dec/2013 | Birth/Hatch | | ln | ln | SANDIEGOZ/913463 | Death | Out | Out 14/Sep/2019 |
| S/C4 | | | | | B'at Ton | 0 " 5" " " " " " " " " " " " " " " " " " | | |

Birth Type

Local ID

Birth Location

Birth Date/Age

Death Number

Regional Studbook #

Captive Birth/Hatch

[0064208/SANDIEGOZ]

[913463/SANDIEGOZ]

[238-AZA /SANDIEGOZ]

30/Dec/2013 / 5Y,8M,15D at the time of death

San Diego Zoo

Male / -

Not a hybrid

[GAN: DNY14-12619 | SANDIEGOZ / 907107]

[GAN: DNY14-12617 | SANDIEGOZ / 907105]

Sex/Contraception

Hybrid Status

Enclosure

Rearing

Dam

Sire

| | | | DN | '14-14093 Local I | D: 913464 | | |
|---|---|------------------|------------------|---|--|------------|-------------------------------------|
| Individual | Fiji bar | nded i | quan | a Endai | ngered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | _ | Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 30/Dec/2013 19/Jul/2022 | Birth/Hatch Loan In From Sender: SANDIEGOZ/913464 Vendor: SANDIEGOZ/913464 | In In | ln - | SANDIEGOZ / 913464 LOWRY / 303893 | Loan Out To LOWRY/303893 Loan Transfer To CHATTANOO/R23026 | | - 19/Jul/2022 - 28/Aug/2023 |
| - | - | - | - | SANDIEGOZ/913464 | Loan out to (change in reported holder) CHATTANOO/R23026 | - | - 29/Aug/2023 |
| 29/Aug/2023 | Loan Transfer From Sender: LOWRY/303893 Vendor: SANDIEGOZ/913464 | ln | - | CHATTANOO / R23026 | - | - | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - None [GAN: DNY14-12619 SANDIEGOZ / 9071 [GAN: DNY14-12617 SANDIEGOZ / 9071 | - | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 30/Dec/2013 / 10Y,6M,10D [913464/SANDIEGOZ] [239-AZA /SANDIEGOZ] | | |
| | | | DN | ′14-14094 Local I | D: 913465 | | |
| Individual | Fiji bar | nded i | guan | a Endai | ngered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | | _ | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 30/Dec/2013 | Birth/Hatch | ln | ln | SANDIEGOZ / 913465 | - | - | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid AR07100 Reptile Mesa Enclosure Group None [GAN: DNY14-12619 SANDIEGOZ / 9071 [GAN: DNY14-12617 SANDIEGOZ / 9071 | | | Birth Type Birth Location Birth Date/Age Local ID Regional Studbook # | Captive Birth/Hatch San Diego Zoo 30/Dec/2013 / 10Y,6M,10D [913465/SANDIEGOZ] [240-AZA /SANDIEGOZ] | | |
| | | | DN | ′15-15892 Local I | D: 915092 | | |
| Individual | Fiji bar | nded i | guan | a Endaı | ngered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 15/Jun/2015 | Birth/Hatch | ln | ln | SANDIEGOZ / 915092 | Death | Out | Out 15/Sep/2023 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Female / - Not a hybrid [GAN: DNY14-12619 SANDIEGOZ / 9071 [GAN: DNY14-12617 SANDIEGOZ / 9071 | - | | Birth Type Birth Location Birth Date/Age Death Number Local ID | Captive Birth/Hatch San Diego Zoo 15/Jun/2015 / 8Y,3M,0D at the time of death [0070793/SANDIEGOZ] [915092/SANDIEGOZ] | | |
| | | | DNY | ′15-15893 Local I | D: 915093 | | |
| Individual | Fiji bar | nded i | guan | a Endai | ngered (EN) | | Brachylophus bulabu |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | <u>Owr</u> | Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Own Date out |
| 15/Jun/2015 20/Mar/2023 | Birth/Hatch Loan In From Sender: SANDIEGOZ/915093 Vendor: SANDIEGOZ/915093 | In In | ln - | SANDIEGOZ / 915093 LOSANGELE / 995641 | Loan Out To LOSANGELE/995641 - | Out - | - 20/Mar/2023 |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam | Male / - Not a hybrid [GAN: DNY14-12619 SANDIEGOZ / 9071 | | | Birth Type Birth Location Birth Date/Age Local ID Transponder | Captive Birth/Hatch San Diego Zoo 15/Jun/2015 / 9Y,0M,25D [915093/SANDIEGOZ] [00-0809-99A6/SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: DNY14-12617 SANDIEGOZ / 9071 | 105] | | | | | |
| Individual | Pro t | ndod ! | | ′15-15894 Local I | | | Prochylenbus bulsted |
| Individual | Fiji bar Acquisition - Vendor/Local ID | | _ | | ngered (EN) Disposition - Recipient/Local ID | Dhv | Brachylophus bulabu Own Date out |
| <u>Date in</u> 15/Jun/2015 | Acquisition - vendor/Local ID Birth/Hatch | <u>Pny</u> In | <u>Owr</u> In | Reported By SANDIEGOZ / 915094 | <u> Disposition - Recipient/LOCALID</u> | <u>rny</u> | OWII Date Out |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam | Male / - Not a hybrid AR07100 Reptile Mesa Enclosure Group - [GAN: DNY14-12619 SANDIEGOZ / 9071 | | uí | Birth Type Birth Location Birth Date/Age Local ID | Captive Birth/Hatch San Diego Zoo 15/Jun/2015 / 9Y,0M,25D [915094/SANDIEGOZ] | - | |

| | | | 310 | C15-00891 Local I | D. 913406 | | |
|------------------------------------|---|------------|---------|---------------------------------------|---|------------|-------------------|
| Individual | Fiji bar | ided i | guan | a Enda | ngered (EN) | | Brachylophus bu |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 5/Apr/2015 | Birth/Hatch | - | ln | SANDIEGOZ / 915406 | - | - | |
| 5/Apr/2015 | Birth/Hatch Owner: SANDIEGOZ/UNK | ln . | - | NZP-WASH / 307532 | Loan Return To Owner SANDIEGOZ/915406 | Out | - 23/May/2019 |
| 3/May/2019 | Loan Return to Us Sender: NZP-WASH/307532 | ln | - | SANDIEGOZ / 915406 | Death | Out | Out 4/Feb/2022 |
| ex/Contraception ybrid Status | Male / - | | | Birth Type Birth Location | Captive Birth/Hatch | | |
| nclosure | Not a hybrid | | | Birth Date/Age | Smithsonian National Zoological Park 25/Apr/2015 / 6Y,9M,10D at the time of death | | |
| learing | None | | | Death Number | [0067874/SANDIEGOZ] | | |
| <u>am</u> | [GAN: 25216178 307298/NZP-WASH] | | | Local ID | [915406/SANDIEGOZ] | | |
| ire | [GAN: DNY14-12765 307492/NZP-WASH | 1] | | Regional Studbook # | [244-AZA /SANDIEGOZ] | | |
| | | | BPL | .16-02624 Local I | D: 916097 | | |
| Individual | Fiji bar | ded i | guan | a Enda | ngered (EN) | | Brachylophus bu |
| ate in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owr | Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Own Date out |
| 1/Jun/2016 | Birth/Hatch | - | ln | SANDIEGOZ / 916097 | | - | |
| 1/Jun/2016 80/Oct/2018 | Birth/Hatch Owner: SANDIEGOZ/916097 Loan Return to Us Sender: LOWRY/303663 | In In | - | LOWRY / 303663 SANDIEGOZ / 916097 | Loan Return To Owner SANDIEGOZ/916097 | Out | - 30/Oct/2018 |
| | | III | _ | | 0 (| - | - |
| Sex/Contraception Hybrid Status | Male / - | | | Birth Type Birth Location | Captive Birth/Hatch | | |
| iybrid Status Enclosure | Not a hybrid AR07100 Reptile Mesa Enclosure Group | | | Birth Location Birth Date/Age | ZooTampa at Lowry Park 11/Jun/2016 / 8Y,0M,29D | | |
| Rearing | - | | | Local ID | [916097/SANDIEGOZ] | | |
| Dam_ | [GAN: BPL13-01636 303582/LOWRY] | | | Regional Studbook # | [251-AZA /SANDIEGOZ] | | |
| <u>iire</u> | [GAN: 26754255 303631/LOWRY] | | | | | | |
| | | | BPL | .16-02621 Local I | D: 916098 | | |
| Individual | Fiji bar | ided i | guan | a Enda | ngered (EN) | | Brachylophus bu |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| /Jun/2016 | Birth/Hatch | - | ln | SANDIEGOZ / 916098 | - | - | |
| /Jun/2016 | Birth/Hatch Owner: SANDIEGOZ/916098 | ln | - | LOWRY / 303660 | Loan Return To Owner SANDIEGOZ/916098 | Out | |
| 0/Oct/2018 3/Apr/2023 | Loan Return to Us Sender: LOWRY/303660 Loan In From Sender: SANDIEGOZ/916098 | In In | - | SANDIEGOZ / 916098 FRESNO / 340013 | Loan Out To FRESNO/340013 | Out - | - 13/Apr/2023 |
| | Vendor: SANDIEGOZ/916098 | | | | | | |
| Sex/Contraception Hybrid Status | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| inclosure | Not a hybrid | | | Birth Location Birth Date/Age | ZooTampa at Lowry Park 1/Jun/2016 / 8Y,1M,9D | | |
| Rearing | - - | | | Local ID | [916098/SANDIEGOZ] | | |
| Dam_ | [GAN: BPL13-01636 303582/LOWRY] | | | Regional Studbook # | [249-AZA /SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: 26754255 303631/LOWRY] | | | | | | |
| | | | BPL | .16-02622 Local I | D: 916099 | | |
| Individual | Fiji bar | ided i | guan | a Enda | ngered (EN) | | Brachylophus bu |
| Date in | Acquisition - Vendor/Local ID | Phy | | Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| /Jun/2016 /Jun/2016 | Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916099 | - In | ln - | SANDIEGOZ / 916099 LOWRY / 303661 | - Loan Return To Owner SANDIEGOZ/916099 | - Out | 30/Oct/2018 |
| 0/Oct/2018 | Loan Return to Us Sender: LOWRY/303661 | ln | - | SANDIEGOZ / 916099 | - | - | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| ybrid Status | Not a hybrid | | | Birth Location | ZooTampa at Lowry Park | | |
| nclosure | AR07100 Reptile Mesa Enclosure Group | | | Birth Date/Age | 4/Jun/2016 / 8Y,1M,6D | | |
| learing | | | | Local ID | [916099/SANDIEGOZ] | | |
| <u>lam</u> iire | [GAN: 36754355 303582/LOWRY] | | | Regional Studbook # | [250-AZA /SANDIEGOZ] | | |
| <u></u> | [GAN: 26754255 303631/LOWRY] | | | | | | |
| | | | DNY | /16-17340 Local I | D: 916184 | | |
| Individual | Fiji bar | | - | | ngered (EN) | | Brachylophus bu |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | | Own Date out |
| /Oct/2016 | Birth/Hatch | ln | ln | SANDIEGOZ/916184 | Death | Out | Out 12/May/2018 |
| | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| | | | | Birth Location | San Diego Zoo | | |
| ex/Contraception lybrid Status | Not a hybrid | | | | | | |
| ybrid Status nclosure | Not a hybrid - | | | Birth Date/Age | 1/Oct/2016 / 1Y,7M,11D at the time of death | | |
| ybrid Status | Not a hybrid - - - [GAN: DNY14-12619 SANDIEGOZ / 9071 | 071 | | | | | |

| Fiji band /Local ID IDIEGOZ/916380 | | _ | a Enda | ngered (EN) Disposition - Recipient/Local ID | | Bra | chylophus bulabula |
|--|----|-----|--------------------|--|---------------|-----------------------------------|-----------------------------------|
| <u> </u> | | Owi | n Reported By | Disposition - Recipient/Local ID | | | |
| IDIEGOZ/916380 | - | | | Disposition - Necipieng Local ID | Phy | Owr | Date out |
| IDIEGOZ/916380 | | ln | SANDIEGOZ / 916380 | - | - | - | - |
| | ln | - | NZP-WASH / 307587 | Loan Return To Owner SANDIEGOZ/916380 | Out | - | 23/May/2019 |
| ler: NZP-WASH/307587 | ln | - | SANDIEGOZ / 916380 | - | - | - | - |
| | | | Birth Type | Captive Birth/Hatch | | | |
| | | | Birth Location | Smithsonian National Zoological Park | | | |
| sa Enclosure Group | | | Birth Date/Age | 8/Jan/2016 / 8Y,6M,2D | | | |
| • | | | Local ID | [916380/SANDIEGOZ] | | | |
| 7298/NZP-WASH] | | | | | | | |
| 307492/NZP-WASH | 1 | | | | | | |
| | • | • | 307492/NZP-WASH] | 298/NZP-WASH] 307492/NZP-WASH] | 298/NZP-WASH] | 298/NZP-WASH] 307492/NZP-WASH] | 298/NZP-WASH] 307492/NZP-WASH] |

| | SYC16-01175 Local ID: 916382 | | | | | | | | | |
|--|---|------------|-----|---|--|------------|-----------------------|-------------|--|--|
| Individual | Fiji banded iguana | | | | ngered (EN) | | Brachylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Own | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owr | Date out | | |
| 16/Jan/2016 | Birth/Hatch | - | ln | SANDIEGOZ / 916382 | - | - | - | - | | |
| 16/Jan/2016 | Birth/Hatch Owner: SANDIEGOZ/916382 | ln | - | NZP-WASH / 307589 | Loan Return To Owner SANDIEGOZ/916382 | Out | - | 23/May/2019 | | |
| 23/May/2019 | Loan Return to Us Sender: NZP-WASH/307589 | ln | - | SANDIEGOZ / 916382 | - | - | - | - | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid AR07100 Reptile Mesa Enclosure Group None [GAN: 25216178 307298/NZP-WASH] [GAN: DNY14-12765 307492/NZP-WASH] | | | Birth Type Birth Location Birth Date/Age Local ID | Captive Birth/Hatch Smithsonian National Zoological Park 16/Jan/2016 / 8Y,5M,24D [916382/SANDIEGOZ] | | | | | |

| | SYC16-01178 Local ID: 916383 | | | | | | | | | | |
|---|---|--------|------|--|---|-----|-----------------------|-------------|--|--|--|
| Individual | Fiji band | led iç | guan | a Endar | ngered (EN) | | Brachylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Ow | n Date out | | | |
| 28/Jan/2016 | Birth/Hatch | - | ln | SANDIEGOZ / 916383 | - | - | - | - | | | |
| 28/Jan/2016 | Birth/Hatch Owner: SANDIEGOZ/916383 | ln | - | NZP-WASH / 307590 | Loan Return To Owner SANDIEGOZ/916383 | Out | - | 23/May/2019 | | | |
| 23/May/2019 | Loan Return to Us Sender: NZP-WASH/307590 | ln | - | SANDIEGOZ / 916383 | Loan Out To DALLAS/22F070 | Out | - | 7/Apr/2022 | | | |
| 7/Apr/2022 | Loan In From Sender: SANDIEGOZ/916383 Vendor: SANDIEGOZ/916383 | ln | - | DALLAS / 22F070 | - | - | - | - ' | | | |
| Sex/Contraception Hybrid Status Enclosure | Male / - Not a hybrid | | | Birth Type Birth Location Birth Date/Age | Captive Birth/Hatch Smithsonian National Zoological Park | | | | | | |
| Rearing | - Name | | | | 28/Jan/2016 / 8Y,5M,12D | | | | | | |
| | None | | | Local ID | [916383/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 25216178 307298/NZP-WASH] | | | <u>Transponder</u> | [0007F5F528/[Leg/Left]/SANDIEGOZ] | | | | | | |
| <u>Sire</u> | [GAN: DNY14-12765 307492/NZP-WASH] | | | | | | | | | | |

| | SYC18-02924 Local ID: 917619 | | | | | | | | | |
|-------------------|--|-----|-----|--------------------|--|-----|-----|-------------|--|--|
| Individual | Individual Fiji banded iguana Endangered (EN) Brachyloph | | | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | Own | Date out | | |
| 14/May/2017 | Birth/Hatch | - | ln | SANDIEGOZ / 917619 | - | - | - | - | | |
| 14/May/2017 | Birth/Hatch Owner: SANDIEGOZ/UNK | ln | - | NZP-WASH / 307657 | Loan Return To Owner SANDIEGOZ/917619 | Out | - | 23/May/2019 | | |
| 23/May/2019 | Loan Return to Us Sender: NZP-WASH/307657 | ln | - | SANDIEGOZ/917619 | Death | Out | Out | 13/Aug/2019 | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Smithsonian National Zoological Park | | | | | |
| Enclosure | - | | | Birth Date/Age | 14/May/2017 / 2Y,2M,30D at the time of death | | | | | |
| Rearing | None | | | Death Number | [0063974/SANDIEGOZ] | | | | | |
| Dam | [GAN: 25216178 307298/NZP-WASH] | | | Local ID | [917619/SANDIEGOZI | | | | | |
| Sire | [GAN: DNY14-12765 307492/NZP-WASH] | | | | [| | | | | |

| | SFQ13-00210 Local ID: 918030 | | | | | | | | | | |
|--|--|-----|-----|--|---|-----|------------|--------------------|--|--|--|
| Individual Fiji banded igu | | | | a Endai | ngered (EN) | | Bra | chylophus bulabula | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | <u>Owi</u> | n Date out | | | |
| 16/Jan/2012 | Loan In From Sender: MAyDS Nación/UNDETERM+ Vendor: MAyDS Nación/UNDETERM+ | ln | - | BUENOSAIR / R1200 | Loan Transfer To SANDIEGOZ/UNDETERM+ | Out | - | 6/Jun/2018 | | | |
| 6/Jun/2018 | Donation From Sender: BUENOSAIR/R1200 Vendor: CITES AR/UNDETERM+ | ln | ln | SANDIEGOZ / 918030 | Death | Out | Out | 31/May/2024 | | | |
| Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Male / - Not a hybrid - Undetermined [Wild / SANDIEGOZ] [Wild / SANDIEGOZ] | | | Birth Type Birth Location Birth Date/Age Death Number Local ID Transponder | Undetermined Undetermined ~> 1/Jan/2011 / 13Y,4M,30D at the time of deat [0071771/SANDIEGOZ] [918030/SANDIEGOZ] [981098104822079/SANDIEGOZ] | n | | | | | |

| | | | BPI | _18-02920 Local | I ID: 918038 | | | |
|------------------------------------|---|------------|------------|--------------------------------------|--|------------|------------|----------------------------|
| Individual | Fiji ban | ded i | guan | a End | langered (EN) | | | ichylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | Phy | Owr | n Date out |
| 5/Jul/2018 5/Jul/2018 | Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/UNDETERMINEI | - O In | ln - | SANDIEGOZ / 918038 LOWRY / 303788 | - Loan Return To Owner SANDIEGOZ/918038 | - Out | - | - 16/Nov/2022 |
| 16/Nov/2022 | Loan Return to Us Sender: LOWRY/303788 | ln ln | - | SANDIEGOZ / 918038 | | Out | | 20/Mar/2023 |
| 20/Mar/2023 | Loan In From Sender: SANDIEGOZ/918038 Vendor: SANDIEGOZ/918038 | ln | - | LOSANGELE / 995642 | 2 - | - | - | - |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | ZooTampa at Lowry Park | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | 5/Jul/2018 / 6Y,0M,5D | | | |
| Rearing | Autonomous | | | Local ID | [918038/SANDIEGOZ] | | | |
| <u>Dam</u> Sire | [GAN: BPL13-01636 303582/LOWRY] [GAN: 26754255 303631/LOWRY] | | | <u>Transponder</u> | [00-0806-7121/[Leg/Hind, Left]/SANDIEGOZ] | | | |
| | [6, 8, 8, 25, 6, 25, 6, 6, 6, 7, 6, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, | | | | | | | |
| | | | | _18-02966 Local | I ID: 918476 | | | |
| Individual | Fiji ban | | - | | langered (EN) | | | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | <u>Disposition - Recipient/Local ID</u> | Phy | Owr | n Date out |
| 10/Nov/2018 | Birth/Hatch | | ln | SANDIEGOZ / 918476 | | - | - | - |
| 10/Nov/2018 16/Nov/2022 | Birth/Hatch Owner: SANDIEGOZ/UNDETERMINEL Loan Return to Us Sender: LOWRY/303811 | D In In | - | LOWRY / 303811 SANDIEGOZ / 918476 | Loan Return To Owner SANDIEGOZ/918476 Death | | - Out | 16/Nov/2022 25/Mar/2023 |
| | | #1 | _ | | | Out | Out | ZU/IVIGI/ZUZU |
| Sex/Contraception Hybrid Status | Female / - Not a hybrid | | | Birth Type Birth Location | Captive Birth/Hatch ZooTampa at Lowry Park | | | |
| Enclosure | - | | | Birth Date/Age | 10/Nov/2018 / 4Y,4M,15D at the time of death | | | |
| Rearing | Autonomous | | | Death Number | [0069870/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: BPL13-01636 303582/LOWRY] | | | Local ID | [918476/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 26754255 303631/LOWRY] | | | Transponder | [00-0809-9319/[Leg/Hind, Left]/SANDIEGOZ] | | | |
| | | | DNY | /18-25237 Loca | I ID: 964448 | | | |
| Individual | Fiji ban | ded i | guan | a End | langered (EN) | | Bra | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | <u>Disposition - Recipient/Local ID</u> | Phy | Owr | n Date out |
| ~< 4/Dec/1989 | Undetermined | ln | ln | SANDIEGOZ / 964448 | B Death | Out | Out | ~< 4/Dec/1989 |
| Sex/Contraception | Male / - | | | Birth Type | Undetermined | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Undetermined | | | |
| <u>Enclosure</u> Rearing | - | | | Birth Date/Age Death Number | Indeterminate / 0Y,0M,0D at the time of death [RP4147/SANDIEGOZ] | | | |
| <u>Dam</u> | [Undetermined / SANDIEGOZ] | | | Local ID | [964448/SANDIEGOZ] | | | |
| <u>Sire</u> | [Undetermined / SANDIEGOZ] | | | | | | | |
| | | | DNY | /18-25333 Loca | I ID: 965134 | | | |
| Individual | Fiji ban | ded i | guan | a End | langered (EN) | | Bra | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | <u>Owi</u> | n Date out |
| ~< 27/Dec/1990 | Undetermined | ln | ln | SANDIEGOZ / 965134 | Death | Out | Out | ~< 27/Dec/1990 |
| Sex/Contraception | Male / - | | | Birth Type | Undetermined | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Undetermined | | | |
| <u>Enclosure</u> | - | | | Birth Date/Age | Indeterminate / 0Y,0M,0D at the time of death | | | |
| Rearing Dom | The data making and A CANIDIT COST | | | Death Number | [RP4371/SANDIEGOZ] | | | |
| <u>Dam</u> Sire | [Undetermined / SANDIEGOZ] [Undetermined / SANDIEGOZ] | | | Local ID | [965134/SANDIEGOZ] | | | |
| | [| | | | | | | |
| | | | | /18-25838 Loca | | | | |
| Individual | Fiji ban | | - | | langered (EN) | ρ. | | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | Disposition - Recipient/Local ID | | | n Date out |
| ~< 6/Mar/2000 | Undetermined | ln | ln | SANDIEGOZ / 973268 | B Death | Out | Out | ~< 6/Mar/2000 |
| Sex/Contraception | Indeterminate / - | | | Birth Type | Undetermined | | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid | | | Birth Location Birth Date/Age | Undetermined | | | |
| Rearing | - | | | Death Number | Indeterminate / 0Y,0M,0D at the time of death [RP7830/SANDIEGOZ] | | | |
| <u>Dam</u> | [GAN: 26753194 SANDIEGOZ / 195277] | | | Local ID | [973268/SANDIEGOZ] | | | |
| <u>Sire</u> | [GAN: 6713034 SANDIEGOZ / 191132] | | | | | | | |
| | | | DN | /18-26518 Loca | I ID: 973526 | | | |
| Individual | Fiji ban | ded i | guan | a End | langered (EN) | | Bra | chylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owr</u> | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Owr | n Date out |
| ~< 8/Dec/2007 | Undetermined | ln | ln | SANDIEGOZ / 973526 | Death | Out | Out | ~< 8/Dec/2007 |
| Sex/Contraception | Indeterminate / - | | | Birth Type | Undetermined | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Undetermined | | | |
| Enclosure - | - | | | Birth Date/Age | Indeterminate / 0Y,0M,5D at the time of death | | | |
| | I Indetermined / CANDIF COT | | | Death Number | [RP13621/SANDIEGOZ] | | | |
| | • | | | בטנמו וט | [at 3020/04INDIEGUZ] | | | |
| Rearing Dam Sire | - [Undetermined / SANDIEGOZ] [Undetermined / SANDIEGOZ] | | | Death Number Local ID | [RP13621/SANDIEGOZ] [973526/SANDIEGOZ] | | | |

| Preferred ID | GAN | Sex | Age at | Date | Transaction | Vendor/ | Vend |
|--------------------|----------------------------|--------------|----------|----------------------------|-------------|-----------|------|
| | | | Date | | | Recipient | ID |
| Fiji banded iguana | | | | ohus bulabula | | | |
| 1000031 | DNY19-33416 | Female | 0Y,0M,0D | 14/Jan/2019 | Birth/Hatch | | |
| 1000366 | DNY19-33983 | Female | 0Y,0M,0D | 4/May/2019 | Birth/Hatch | | |
| 1001350 | DNY19-35586 | Male | 0Y,0M,0D | 4/Dec/2019 | Birth/Hatch | | |
| 1001424 | DNY20-35708 | Male | 0Y,0M,0D | 2/Jan/2020 | Birth/Hatch | | |
| 1001426 | DNY20-35712 | Male | 0Y,0M,0D | 4/Jan/2020 | Birth/Hatch | | |
| 1001427 | DNY20-35713 | Female | 0Y,0M,0D | 4/Jan/2020 | Birth/Hatch | | |
| 1001506 | DNY20-35827 | Female | 0Y,0M,0D | 23/Jan/2020 | Birth/Hatch | | |
| 1001736 | DNY20-36502 | Male | 0Y,0M,0D | 29/Mar/2020 | Birth/Hatch | | |
| 1001739 | DNY20-36509 | Female | 0Y,0M,0D | 31/Mar/2020 | Birth/Hatch | | |
| 1001800 | DNY20-36616 | Male | 0Y,0M,0D | 22/Apr/2020 | Birth/Hatch | | |
| 1001873 | DNY20-36705 | Male | 0Y,0M,0D | 15/May/2020 | Birth/Hatch | | |
| 1001881 | DNY20-36715 | Female | 0Y,0M,0D | 18/May/2020 | Birth/Hatch | | |
| 1001896 | DNY20-36740 | Female | 0Y,0M,0D | 27/May/2020 | Birth/Hatch | | |
| 1001910 | DNY20-36760 | Male | 0Y,0M,0D | 2/Jun/2020 | Birth/Hatch | | |
| 1003309 | HFV20-24487 | Male | 0Y,0M,0D | 13/Jun/2020 | Birth/Hatch | | |
| 1003310 | HFV20-24491 | Female | 0Y,0M,0D | 22/Jun/2020 | Birth/Hatch | | |
| 1003850 | DNY22-39673 | Undetermined | 0Y,0M,0D | 25/Apr/2022 | Birth/Hatch | | |
| 1003030 | DNY22-40317 | Male | 0Y,0M,0D | 15/Jul/2022 | Birth/Hatch | | |
| 1004211 | DNY22-40317 DNY22-40318 | Male | 0Y,0M,0D | 15/Jul/2022 | Birth/Hatch | | |
| 1004212 | DNY22-40318 DNY22-40954 | Male | | | Birth/Hatch | | |
| | | | 0Y,0M,0D | 26/Sep/2022 | | | |
| 1004736 | DNY22-41131 | Male | 0Y,0M,0D | 31/Oct/2022 | Birth/Hatch | | |
| 1004787 | DNY22-41202 | Male | 0Y,0M,0D | 10/Nov/2022 | Birth/Hatch | | |
| 1005024 | DNY23-41650 | Undetermined | 0Y,0M,0D | 21/Feb/2023 | Birth/Hatch | | |
| 1005037 | DNY23-41669 | Undetermined | 0Y,0M,0D | 2/Mar/2023 | Birth/Hatch | | |
| 89174 | CWF10-00328 | Female | 0Y,0M,0D | 20/Jul/1989 | Birth/Hatch | | |
| 189175 | 8227548 | Undetermined | 0Y,0M,0D | 21/Jul/1989 | Birth/Hatch | | |
| 189183 | MIG12-4057375 | Female | 0Y,0M,0D | 31/Jul/1989 | Birth/Hatch | | |
| 189184 | 8227549 | Male | 0Y,0M,0D | 31/Jul/1989 | Birth/Hatch | | |
| 189190 | MIG12-4057376 | Male | 0Y,0M,0D | 8/Aug/1989 | Birth/Hatch | | |
| 189191 | MIG12-8227551 | Female | 0Y,0M,0D | 9/Aug/1989 | Birth/Hatch | | |
| 189192 | 8227552 | Male | 0Y,0M,0D | 9/Aug/1989 | Birth/Hatch | | |
| 189337 | MIG12-4057381 | Male | 0Y,0M,0D | 21/Nov/1989 | Birth/Hatch | | |
| 189353 | 8227555 | Male | 0Y,0M,0D | 2/Dec/1989 | Birth/Hatch | | |
| 190049 | 8227598 | Female | 0Y,0M,0D | 23/Feb/1990 | Birth/Hatch | | |
| 190066 | 8227600 | Female | 0Y,0M,0D | 7/Mar/1990 | Birth/Hatch | | |
| 190067 | CWF10-00253 | Female | 0Y,0M,0D | 9/Mar/1990 | Birth/Hatch | | |
| 190068 | 10307395 | Female | 0Y,0M,0D | 9/Mar/1990 | Birth/Hatch | | |
| 190198 | 9044110 | Female | 0Y,0M,0D | 19/Jul/1990 | Birth/Hatch | | |
| 190199 | MIG12-29901939 | Male | 0Y,0M,0D | 21/Jul/1990 | Birth/Hatch | | |
| 190203 | 8227724 | Female | 0Y,0M,0D | 24/Jul/1990 | Birth/Hatch | | |
| 190204 | MIG12-29901941 | Male | 0Y,0M,0D | 25/Jul/1990 | Birth/Hatch | | |
| 190240 | MIG12-6713024 | Male | 0Y,0M,0D | 29/Jul/1990 | Birth/Hatch | | |
| 190240 | 8227747 | Male | 0Y,0M,0D | 29/Jul/1990 | Birth/Hatch | | |
| 190241 | MIG12-13055972 | Female | 0Y,0M,0D | 25/Oct/1990 | Birth/Hatch | | |
| 190343 | 19978396 | Female | 0Y,0M,0D | 25/Oct/1990 27/Oct/1990 | Birth/Hatch | | |
| 190344 | MIG12-4057391 | Female | 0Y,0M,0D | 30/Oct/1990 | Birth/Hatch | | |
| | | | | | | | |
| 90362 | CWF10-00325 | Male | 0Y,0M,0D | 3/Nov/1990 | Birth/Hatch | | |
| 90363 | CWF10-00327 | Male | 0Y,0M,0D | 21/Nov/1990 | Birth/Hatch | | |
| 90364 | 8227834 NUCAS 2004740 | Female | 0Y,0M,0D | 27/Nov/1990 | Birth/Hatch | | |
| 90365 | MIG12-8321742 | Female | 0Y,0M,0D | 29/Nov/1990 | Birth/Hatch | | |
| 90366 | 19978399 | Male | 0Y,0M,0D | 4/Dec/1990 | Birth/Hatch | | |
| 91005 | 8227841 | Male | 0Y,0M,0D | 30/Jan/1991 | Birth/Hatch | | |
| 191006 | 6713031 | Male | 0Y,0M,0D | 31/Jan/1991 | Birth/Hatch | | |
| 191007 | MIG12-6713032 | Female | 0Y,0M,0D | 1/Feb/1991 | Birth/Hatch | | |
| 91022 | 8227853 | Female | 0Y,0M,0D | 21/Feb/1991 | Birth/Hatch | | |
| 91070 | CWF10-00326 | Male | 0Y,0M,0D | 6/Apr/1991 | Birth/Hatch | | |
| 91082 | 8227909 | Female | 0Y,0M,0D | 15/Apr/1991 | Birth/Hatch | | |

| Preferred ID | GAN | Sex | Age at Date | Date | Transaction | Vendor/ Vend Recipient ID |
|--------------|----------------|--------------|-------------|----------------------------|-------------|------------------------------|
| 191132 | 6713034 | Male | 0Y,0M,0D | 3/Jun/1991 | Birth/Hatch | |
| 191146 | MIG12-6713035 | Female | 0Y,0M,0D | 17/Jun/1991 | Birth/Hatch | |
| 191150 | 8227973 | Male | 0Y,0M,0D | 3/Jul/1991 | Birth/Hatch | |
| 191392 | 8228188 | Undetermined | 0Y,0M,0D | 10/Dec/1991 | Birth/Hatch | |
| 191417 | MIG12-29851934 | Male | 0Y,0M,0D | 29/Dec/1991 | Birth/Hatch | |
| 192005 | 8228216 | Undetermined | 0Y,0M,0D | 3/Jan/1992 | Birth/Hatch | |
| 192097 | MIG12-4057426 | Male | 0Y,0M,0D | 13/Apr/1992 | Birth/Hatch | |
| 192098 | MIG12-28546900 | Male | 0Y,0M,0D | 13/Apr/1992 | Birth/Hatch | |
| 192106 | CWF10-00324 | Female | 0Y,0M,0D | 18/Apr/1992 | Birth/Hatch | |
| 192345 | CWF10-00323 | Female | 0Y,0M,0D | 9/Aug/1992 | Birth/Hatch | |
| 192355 | MIG12-29851933 | Female | 0Y,0M,0D | 15/Aug/1992 | Birth/Hatch | |
| 192362 | MIG12-6713042 | Female | 0Y,0M,0D | 24/Aug/1992 | Birth/Hatch | |
| 192364 | 8228557 | Male | 0Y,0M,0D | 4/Sep/1992 | Birth/Hatch | |
| 192366 | MIG12-4057433 | Female | 0Y,0M,0D | 8/Sep/1992 | Birth/Hatch | |
| 192451 | 8228640 | Female | 0Y,0M,0D | 10/Oct/1992 | Birth/Hatch | |
| 192452 | MIG12-8228641 | Male | 0Y,0M,0D | 16/Oct/1992 | Birth/Hatch | |
| 192521 | MIG12-4057435 | Male | 0Y,0M,0D | 14/Nov/1992 | Birth/Hatch | |
| 192522 | 6713043 | Male | 0Y,0M,0D | 17/Nov/1992 | Birth/Hatch | |
| 192523 | 25215131 | Female | 0Y,0M,0D | 17/Nov/1992 | Birth/Hatch | |
| 192535 | 8228719 | Male | 0Y,0M,0D | 24/Nov/1992 | Birth/Hatch | |
| 192538 | 8228722 | Female | 0Y,0M,0D | 25/Nov/1992 | Birth/Hatch | |
| 192539 | 19978460 | Male | 0Y,0M,0D | 28/Nov/1992 | Birth/Hatch | |
| 192547 | 19978461 | Male | 0Y,0M,0D | 19/Dec/1992 | Birth/Hatch | |
| 192548 | MIG12-4057436 | Female | 0Y,0M,0D | 25/Dec/1992 | Birth/Hatch | |
| 192549 | MIG12-6713044 | Female | 0Y,0M,0D | 26/Dec/1992 | Birth/Hatch | |
| 193013 | MIG12-8228743 | Undetermined | 0Y,0M,0D | 3/Oct/1992 | Birth/Hatch | |
| 193139 | 8228853 | Female | 0Y,0M,0D | 27/Feb/1993 | Birth/Hatch | |
| 193178 | 25215134 | Male | 0Y,0M,0D | 16/Mar/1993 | Birth/Hatch | |
| 193264 | 8228910 | Male | 0Y,0M,0D | 3/Apr/1993 | Birth/Hatch | |
| 193265 | 6713053 | Male | 0Y,0M,0D | 3/Apr/1993 | Birth/Hatch | |
| 193584 | 8229153 | Male | 0Y,0M,0D | 21/Sep/1993 | Birth/Hatch | |
| 193585 | 8229154 | Male | 0Y,0M,0D | 23/Sep/1993 | Birth/Hatch | |
| 193586 | 8229155 | Male | 0Y,0M,0D | 24/Sep/1993 | Birth/Hatch | |
| 193587 | 19978485 | Female | 0Y,0M,0D | 24/Sep/1993 | Birth/Hatch | |
| 194193 | MIG12-6713077 | Female | 0Y,0M,0D | 23/Sep/1994 | Birth/Hatch | |
| 194221 | 8229479 | Male | 0Y,0M,0D | 8/Oct/1994 | Birth/Hatch | |
| 194236 | 17664858 | Male | 0Y,0M,0D | 17/Oct/1994 | Birth/Hatch | |
| 194237 | MIG12-29068063 | Female | 0Y,0M,0D | 18/Oct/1994 | Birth/Hatch | |
| 194238 | MIG12-29068064 | Male | 0Y,0M,0D | 21/Oct/1994 | Birth/Hatch | |
| 194239 | MIG12-29505057 | Male | 0Y,0M,0D | 21/Oct/1994 21/Oct/1994 | Birth/Hatch | |
| 194239 | 4057557 | Male | | 1/Dec/1994 | Birth/Hatch | |
| 194273 | 8229526 | | 0Y,0M,0D | | | |
| | | Female | 0Y,0M,0D | 8/Dec/1994 | Birth/Hatch | |
| 195001 | 13843274 | Male | 0Y,0M,0D | 2/Jan/1995 | Birth/Hatch | |
| 195002 | MIG12-6713083 | Female | 0Y,0M,0D | 3/Jan/1995 | Birth/Hatch | |
| 195013 | MIG12-6713084 | Male | 0Y,0M,0D | 12/Jan/1995 | Birth/Hatch | |
| 195016 | CWF10-00322 | Undetermined | 0Y,0M,0D | 28/Jan/1994 | Birth/Hatch | |
| 195017 | CWF10-00321 | Male | 0Y,0M,0D | 28/Jan/1994 | Birth/Hatch | |
| 195018 | CWF10-00320 | Male | 0Y,0M,0D | 1/Feb/1994 | Birth/Hatch | |
| 195019 | CWF10-00319 | Female | 0Y,0M,0D | 6/Feb/1994 | Birth/Hatch | |
| 195031 | MIG12-6713085 | Female | 0Y,0M,0D | 22/Feb/1995 | Birth/Hatch | |
| 195032 | 8229578 | Male | 0Y,0M,0D | 27/Feb/1995 | Birth/Hatch | |
| 195265 | 8229751 | Female | 0Y,0M,0D | 1/Oct/1995 | Birth/Hatch | |
| 195266 | MIG12-8229752 | Male | 0Y,0M,0D | 3/Oct/1995 | Birth/Hatch | |
| 195277 | 26753194 | Female | 0Y,0M,0D | 19/Oct/1995 | Birth/Hatch | |
| 195280 | 8229754 | Female | 0Y,0M,0D | 24/Oct/1995 | Birth/Hatch | |
| 195281 | 8229755 | Male | 0Y,0M,0D | 24/Oct/1995 | Birth/Hatch | |
| 195282 | 25215170 | Male | 0Y,0M,0D | 24/Oct/1995 | Birth/Hatch | |
| 195283 | 8229757 | Female | 0Y,0M,0D | 24/Oct/1995 | Birth/Hatch | |
| 195284 | 8229758 | Female | 0Y,0M,0D | 24/Oct/1995 | Birth/Hatch | |

| Due ferme LID | 0411 | 0 | Age at | D-11- | T | Vendor/ | Vend |
|------------------|----------------------|--------------|----------------------|----------------------------|-------------------------|-----------|------|
| Preferred ID | GAN | Sex | Date | Date | Transaction | Recipient | |
| 195412 | MIG12-8229829 | Undetermined | 0Y,0M,0D | 16/Nov/1995 | Birth/Hatch | | |
| 196016 | 8229845 | Male | 0Y,0M,0D | 19/Jan/1996 | Birth/Hatch | | |
| 196017 | 15729611 | Female | 0Y,0M,0D | 19/Jan/1996 | Birth/Hatch | | |
| 196018 | 13843292 | Female | 0Y,0M,0D | 22/Jan/1996 | Birth/Hatch | | |
| 196231 196253 | 19978535 23053132 | Female | 0Y,0M,0D 0Y,0M,0D | 18/Nov/1996 22/Dec/1996 | Birth/Hatch Birth/Hatch | | |
| 197086 | MIG12-23053134 | Male Male | 0Y,0M,0D | 11/Feb/1997 | Birth/Hatch | | |
| 197087 | 15729704 | Female | 0Y,0M,0D | 15/Feb/1997 | Birth/Hatch | | |
| 197162 | 19978543 | Male | 0Y,0M,0D | 23/Feb/1997 | Birth/Hatch | | |
| 197421 | MIG12-6713134 | Female | 0Y,0M,0D | 28/Aug/1997 | Birth/Hatch | | |
| 197422 | MIG12-6713135 | Female | 0Y,0M,0D | 28/Aug/1997 | Birth/Hatch | | |
| 197481 | MIG12-2892087 | Female | 0Y,0M,0D | 23/Nov/1997 | Birth/Hatch | | |
| 197483 | 19978575 | Female | 0Y,0M,0D | 1/Nov/1997 | Birth/Hatch | | |
| 198030 | 6713981 | Male | 0Y,0M,0D | 22/Jan/1998 | Birth/Hatch | | |
| 198127 | MIG12-28555441 | Female | 0Y,0M,0D | 7/Sep/1995 | Birth/Hatch | | |
| 198128 | 6713155 | Female | 0Y,0M,0D | 11/Nov/1995 | Birth/Hatch | | |
| 198234 | 8230593 | Female | 0Y,0M,0D | 27/Sep/1998 | Birth/Hatch | | |
| 198274 | 8230598 | Male | 0Y,0M,0D | 29/Oct/1998 | Birth/Hatch | | |
| 198275 | 8230599 | Female | 0Y,0M,0D | 29/Oct/1998 | Birth/Hatch | | |
| 198287 | 8230600 | Male | 0Y,0M,0D | 5/Nov/1998 | Birth/Hatch | | |
| 199069 | MIG12-29851959 | Male | 0Y,0M,0D | 3/May/1999 | Birth/Hatch | | |
| 199070 | 8221505 | Male | 0Y,0M,0D | 4/May/1999 | Birth/Hatch | | |
| 199191 | 8230639 | Male | 0Y,0M,0D | 21/Oct/1999 | Birth/Hatch | | |
| 199192 | 26753367 | Female | 0Y,0M,0D | 21/Oct/1999 | Birth/Hatch | | |
| 199193 | 8230641 | Female | 0Y,0M,0D | 21/Oct/1999 | Birth/Hatch | | |
| 199194 | MIG12-15729858 | Female | 0Y,0M,0D | 23/Oct/1999 | Birth/Hatch | | |
| 381224 | 8230656 | Male | 0Y,0M,0D | 5/Nov/1981 | Birth/Hatch | | |
| 382060 | 6713193 | Male | 0Y,0M,0D | 16/May/1982 | Birth/Hatch | | |
| 900004 | MIG12-28700858 | Male | 0Y,0M,0D | 14/Jan/2000 | Birth/Hatch | | |
| 900029 | 25215366 | Female | 0Y,0M,0D | 4/Feb/2000 | Birth/Hatch | | |
| 900030 | 26753489 | Female | 0Y,0M,0D | 4/Feb/2000 | Birth/Hatch | | |
| 900118 | MIG12-30074700 | Female | 0Y,0M,0D | 1/May/2000 | Birth/Hatch | | |
| 900137 | 10307609 | Female | 0Y,0M,0D | 20/May/2000 | Birth/Hatch | | |
| 901017 | 8230857 | Male | 0Y,0M,0D | 16/Feb/2001 | Birth/Hatch | | |
| 901018 | 26753534 | Female | 0Y,0M,0D | 16/Feb/2001 | Birth/Hatch | | |
| 901019 | 8230859 | Male | 0Y,0M,0D | 16/Feb/2001 | Birth/Hatch | | |
| 901020 | 8230860 | Female | 0Y,0M,0D | 21/Feb/2001 | Birth/Hatch | | |
| 901172 | MIG12-29901948 | Female | 0Y,0M,0D | 16/Oct/2001 | Birth/Hatch | | |
| 901246 | 13843461 | Female | 0Y,0M,0D | 8/Dec/2001 | Birth/Hatch | | |
| 901247 | 10307665 | Female | 0Y,0M,0D | 8/Dec/2001 | Birth/Hatch | | |
| 901248 | MIG12-8230901 | Female | 0Y,0M,0D | 8/Dec/2001 | Birth/Hatch | | |
| 902099 | 9044635 | Male | 0Y,0M,0D | 20/Aug/2002 | Birth/Hatch | | |
| 902100 | 26753602 | Female | 0Y,0M,0D | 20/Aug/2002 | Birth/Hatch | | |
| 902101 | MIG12-15730344 | Female | 0Y,0M,0D | 20/Aug/2002 | Birth/Hatch | | |
| 902140 | MIG12-28899441 | Female | 0Y,0M,0D | 31/Aug/2002 | Birth/Hatch | | |
| 902141 | MIG12-28900204 | Male | 0Y,0M,0D | 31/Aug/2002 | Birth/Hatch | | |
| 902142 | MIG12-29901945 | Male | 0Y,0M,0D | 29/Dec/2002 | Birth/Hatch | | |
| 902143 | MIG12-29901944 | Female | 0Y,0M,0D | 22/Dec/2002 | Birth/Hatch | | |
| 902144 | MIG12-28894444 | Undetermined | 0Y,0M,0D | 10/Sep/2002 | Birth/Hatch | | |
| 903031 | 19978942 | Female | 0Y,0M,0D | 7/Mar/2003 | Birth/Hatch | | |
| 903032 | 25215433 | Male | 0Y,0M,0D | 27/Mar/2003 | Birth/Hatch | | |
| 903033 | 13843485 | Male | 0Y,0M,0D | 27/Mar/2003 | Birth/Hatch | | |
| 903034 | 13843486 | Male | 0Y,0M,0D | 27/Mar/2003 | Birth/Hatch | | |
| 903035 | 8230972 | Male | 0Y,0M,0D | 30/Mar/2003 | Birth/Hatch | | |
| 903036 | 23053413 | Female | 0Y,0M,0D | 2/Apr/2003 | Birth/Hatch | | |
| 903227 | 23053437 | Male | 0Y,0M,0D | 3/Oct/2003 | Birth/Hatch | | |
| 903228 | 13843529 | Male | 0Y,0M,0D | 12/Oct/2003 | Birth/Hatch | | |
| 903229 | MIG12-10307798 | Female | 0Y,0M,0D | 15/Oct/2003 | Birth/Hatch | | |
| 903279 | MIG12-13843550 | Undetermined | 0Y,0M,0D | 8/Jan/2003 | Birth/Hatch | | |

| | | | _ | | | |
|--------------|----------------|--------------|-------------|-------------|-------------|------------------------------|
| Preferred ID | GAN | Sex | Age at Date | Date | Transaction | Vendor/ Vend Recipient ID |
| 904001 | 25215447 | Male | 0Y,0M,0D | 22/Jan/2004 | Birth/Hatch | |
| 904002 | MIG12-26753636 | Female | 0Y,0M,0D | 22/Jan/2004 | Birth/Hatch | |
| 905012 | MIG12-30089855 | Female | 0Y,0M,0D | 11/Feb/2005 | Birth/Hatch | |
| 905013 | 19979124 | Female | 0Y,0M,0D | 11/Feb/2004 | Birth/Hatch | |
| 906709 | 19979856 | Female | 0Y,0M,0D | 20/Nov/2006 | Birth/Hatch | |
| 906714 | 26753935 | Female | 0Y,0M,0D | 27/Nov/2006 | Birth/Hatch | |
| 907027 | 19979890 | Undetermined | 0Y,0M,0D | 18/Feb/2007 | Birth/Hatch | |
| 907119 | 23053880 | Male | 0Y,0M,0D | 25/May/2007 | Birth/Hatch | |
| 907124 | 23053881 | Undetermined | 0Y,0M,0D | 1/Jun/2007 | Birth/Hatch | |
| 907529 | 23054149 | Male | 0Y,0M,0D | 8/Dec/2007 | Birth/Hatch | |
| 907540 | 25215756 | Female | 0Y,0M,0D | 11/Dec/2007 | Birth/Hatch | |
| 907581 | 25215774 | Female | 0Y,0M,0D | 22/Dec/2007 | Birth/Hatch | |
| 907590 | 23054188 | Male | 0Y,0M,0D | 23/Dec/2007 | Birth/Hatch | |
| 907591 | 23054189 | Female | 0Y,0M,0D | 27/Dec/2007 | Birth/Hatch | |
| 908137 | 23054322 | Male | 0Y,0M,0D | 5/May/2008 | Birth/Hatch | |
| 908138 | 23054323 | Male | 0Y,0M,0D | 7/May/2008 | Birth/Hatch | |
| 908139 | 23054324 | Female | 0Y,0M,0D | 9/May/2008 | Birth/Hatch | |
| 908140 | 23054325 | Female | 0Y,0M,0D | 9/May/2008 | Birth/Hatch | |
| 908521 | 25216178 | Female | 0Y,0M,0D | 13/Dec/2008 | Birth/Hatch | |
| 908530 | 25216187 | Male | 0Y,0M,0D | 20/Dec/2008 | Birth/Hatch | |
| 908532 | 25216189 | Female | 0Y,0M,0D | 22/Dec/2008 | Birth/Hatch | |
| 908536 | 26754236 | Female | 0Y,0M,0D | 25/Dec/2008 | Birth/Hatch | |
| 908560 | 26754255 | Male | 0Y,0M,0D | 29/Dec/2008 | Birth/Hatch | |
| 909020 | 26754263 | Female | 0Y,0M,0D | 15/Jan/2009 | Birth/Hatch | |
| 909560 | DNY14-12744 | Male | 0Y,0M,0D | 23/Dec/2009 | Birth/Hatch | |
| 909562 | HVH12-00103 | Male | 0Y,0M,0D | 30/Dec/2009 | Birth/Hatch | |
| 910003 | DNY14-12748 | Female | 0Y,0M,0D | 8/Jan/2010 | Birth/Hatch | |
| 910031 | DNY14-12765 | Male | 0Y,0M,0D | 18/Feb/2010 | Birth/Hatch | |
| 910032 | JPK13-01041 | Male | 0Y,0M,0D | 23/Feb/2010 | Birth/Hatch | |
| 910586 | HVH12-00104 | Female | 0Y,0M,0D | 27/Nov/2010 | Birth/Hatch | |
| 910590 | BPL13-01636 | Female | 0Y,0M,0D | 2/Dec/2010 | Birth/Hatch | |
| 911031 | DNY14-13268 | Male | 0Y,0M,0D | 6/Jan/2011 | Birth/Hatch | |
| 911032 | DNY14-13269 | Female | 0Y,0M,0D | 11/Jan/2011 | Birth/Hatch | |
| 913257 | DNY14-13969 | Female | 0Y,0M,0D | 11/Jul/2013 | Birth/Hatch | |
| 913258 | DNY14-13970 | Male | 0Y,0M,0D | 12/Jul/2013 | Birth/Hatch | |
| 913268 | DNY14-13972 | Male | 0Y,0M,0D | 18/Jul/2013 | Birth/Hatch | |
| 913270 | DNY14-13974 | Male | 0Y,0M,0D | 22/Jul/2013 | Birth/Hatch | |
| 913463 | DNY14-14092 | Male | 0Y,0M,0D | 30/Dec/2013 | Birth/Hatch | |
| 913464 | DNY14-14093 | Male | 0Y,0M,0D | 30/Dec/2013 | Birth/Hatch | |
| 913465 | DNY14-14094 | Female | 0Y,0M,0D | 30/Dec/2013 | Birth/Hatch | |
| 915092 | DNY15-15892 | Female | 0Y,0M,0D | 15/Jun/2015 | Birth/Hatch | |
| 915093 | DNY15-15893 | Male | 0Y,0M,0D | 15/Jun/2015 | Birth/Hatch | |
| 915094 | DNY15-15894 | Male | 0Y,0M,0D | 15/Jun/2015 | Birth/Hatch | |
| 915406 | SYC15-00891 | Male | 0Y,0M,0D | 25/Apr/2015 | Birth/Hatch | |
| 915407 | SYC15-00892 | Female | 0Y,0M,0D | 25/Apr/2015 | Birth/Hatch | |
| 916097 | BPL16-02624 | Male | 0Y,0M,0D | 11/Jun/2016 | Birth/Hatch | |
| 916098 | BPL16-02621 | | | 1/Jun/2016 | Birth/Hatch | |
| | | Female | 0Y,0M,0D | | | |
| 916099 | BPL16-02622 | Female | 0Y,0M,0D | 4/Jun/2016 | Birth/Hatch | |
| 916184 | DNY16-17340 | Female | 0Y,0M,0D | 1/Oct/2016 | Birth/Hatch | |
| 916379 | SYC16-01174 | Male | 0Y,0M,0D | 9/Jan/2016 | Birth/Hatch | |
| 916380 | SYC16-01173 | Male | 0Y,0M,0D | 8/Jan/2016 | Birth/Hatch | |
| 916382 | SYC16-01175 | Male | 0Y,0M,0D | 16/Jan/2016 | Birth/Hatch | |
| 916383 | SYC16-01178 | Male | 0Y,0M,0D | 28/Jan/2016 | Birth/Hatch | |
| 917619 | SYC18-02924 | Female | 0Y,0M,0D | 14/May/2017 | Birth/Hatch | |
| 918004 | BPL18-02812 | Male | 0Y,0M,0D | 20/Feb/2018 | Birth/Hatch | |
| 918005 | BPL18-02809 | Male | 0Y,0M,0D | 18/Feb/2018 | Birth/Hatch | |
| 918006 | BPL18-02810 | Male | 0Y,0M,0D | 18/Feb/2018 | Birth/Hatch | |
| 918007 | BPL18-02808 | Female | 0Y,0M,0D | 18/Feb/2018 | Birth/Hatch | |
| 918008 | BPL18-02815 | Male | 0Y,0M,0D | 21/Feb/2018 | Birth/Hatch | |

| Preferred ID | GAN | Sex | Age at Date | Date | Transaction | Vendor/ Vendor Recipient ID |
|--------------|-------------|--------------|-------------|-------------|-------------|--------------------------------|
| 918009 | BPL18-02807 | Male | 0Y,0M,0D | 16/Feb/2018 | Birth/Hatch | |
| 918010 | BPL18-02805 | Male | 0Y,0M,0D | 16/Feb/2018 | Birth/Hatch | |
| 918011 | BPL18-02806 | Female | 0Y,0M,0D | 16/Feb/2018 | Birth/Hatch | |
| 918038 | BPL18-02920 | Female | 0Y,0M,0D | 5/Jul/2018 | Birth/Hatch | |
| 918039 | BPL18-02921 | Female | 0Y,0M,0D | 9/Jul/2018 | Birth/Hatch | |
| 918040 | BPL18-02922 | Male | 0Y,0M,0D | 9/Jul/2018 | Birth/Hatch | |
| 918041 | BPL18-02923 | Male | 0Y,0M,0D | 9/Jul/2018 | Birth/Hatch | |
| 918042 | BPL18-02924 | Male | 0Y,0M,0D | 9/Jul/2018 | Birth/Hatch | |
| 918043 | BPL18-02925 | Male | 0Y,0M,0D | 9/Jul/2018 | Birth/Hatch | |
| 918476 | BPL18-02966 | Female | 0Y,0M,0D | 10/Nov/2018 | Birth/Hatch | |
| 918477 | BPL18-02958 | Undetermined | 0Y,0M,0D | 13/Nov/2018 | Birth/Hatch | |
| 918478 | BPL18-02962 | Undetermined | 0Y,0M,0D | 16/Nov/2018 | Birth/Hatch | |
| 918479 | BPL18-02963 | Undetermined | 0Y,0M,0D | 29/Nov/2018 | Birth/Hatch | |

Page 5 of 5

SDZWA provides the following standards for all our wildlife care as opposed to "offering enrichment" which is an antiquated form of husbandry. By providing the following opportunities for our animals at all times this provides the best possible care and offers a fully enriched life as opposed to specific enrichment times with limited enrichment specific opportunities.

Opportunities to Thrive

Opportunity for a thoughtfully presented, well-balanced diet: A suitable, species-specific diet will be provided in a way that ensures full health and vigor, both behaviorally and physically. Using current scientific knowledge along with SDZG best practices to measure and ensure that animals are being fed an appropriate food in a way that encourages natural seeking, processing and feeding behaviors, physically and temporally.

Opportunity to self-maintain: An appropriate environment including shelter and species specific substrates that encourage opportunities to self-maintain. Using current scientific knowledge along with SDZG best practices to measure and ensure the animals are being given the opportunity to maintain their own optimal health and well-being with appropriate environmental factors related to thermoregulation, skin/fur/feather condition, and joint/muscle/cognitive health.

Opportunity for optimal health: Rapid diagnosis and treatment of injury or disease while providing supportive environments that increase the likelihood of healthy individuals. Using current scientific knowledge along with SDZG best practices to measure and ensure animals are given the benefit of clear lines of communication, clear roles and responsibilities, and that all parties involved are working within their area of expertise as part of a collaborative effort. Ensure animals are benefiting from the most advanced technology and medicine as evidenced by the quality of life, as opposed to the length of life.

Opportunity to express species-specific behavior: Quality spaces and appropriate social groupings will be provided that encourage species-specific behaviors at natural frequencies and of appropriate diversity while meeting social and developmental needs of each species in the collection. Using current scientific knowledge along with SDZG best practices to measure and ensure that animals are being given the opportunity to express meaningful behaviors at a frequency that meets the needs of the species' natural history. This includes but is not limited to appropriate developmental conditions (social/cognitive), enriched social environment, complex environmental experiences, lack of maladaptive behaviors, and a strong and responsive relationship with the environment (exhibit/management technique).

Opportunities for choice and control: *Providing conditions in which animals can exercise control and make choices to avoid suffering and distress, and make behavior meaningful.* Using current scientific knowledge along with SDZG best practices to measure and ensure animals are being given the opportunity to make choices related to spatial organization, and training programs are based on the principles of positive reinforcement. Experiences and exhibit conditions should include problem solving and opportunities to make choices based on varying degrees of challenge using natural sensory modalities and physical adaptations.

San Diego Zoo Wildlife Alliance

Wildlife Nutrition

DIET RECORD

Scientific Name Iguanidae

Common Name Herbivorous Iguana Spp.

Food Typo

Accession No. H TAX-10288-A

Diet Herbivorous Spp. Diet Sheet

Life-stage Adult 1

Sex M/F

Institution SP Zoo

Diet for 1 Adult Animal

T + cm

Effective Date 19-Dec-23

 λ mount

| ıtem | rood Type | Amount | | | | |
|------|---|--------------|-----------|----------|--|--|
| | | Measure | Wgt | Schedule | | |
| 1 | Lettuce, Romaine | | 10 g | 2x/week | | |
| 2 | Kale | | 10 g | 2x/week | | |
| 3 | Collard | | 10 g | 1x/week | | |
| 4 | Dandelion Greens | | 10 g | 1x/week | | |
| 5 | Chard | | 10 g | 1x/week | | |
| 6 | Bok Choy | | 10 g | 1x/week | | |
| | Note: Rotate through greens such that two types are used on each feed | | | | | |
| | day following the above frequency with a to week. | tal of four | f feed da | ays per | | |
| 7 | Vegetables, Variable | | 2 g | 4x/week | | |
| 8 | Roots, Variable | | 1 g | 4x/week | | |
| 9 | Tortoise LS Diet, Extruded, Mazuri 5E5L, Gr | round | 2 g | 4x/week | | |
| | Note: Mix ground Tortoise LS Diet with prod | luce thoroug | _ | | | |
| 10 | Browse | | | Variable | | |

FEED STRICTLY AS INDICATED. DO NOT ALTER DIET. IF CHANGE IS REQUIRED, PROVIDE DETAILS IN DIET CHANGE REQUEST FORM.

Note

- 1) Diet is estimated for individuals 0 to 1 kg.
- 2) Diet amounts and frequencies are adjusted at Wildlife Care management discretion during brumation and breeding.

Includes: Fiji Banded Iguana, Chuckwalla, Grand Cayman Blue Iguana, Jamaican Iguana, Cuba/Caymans Iguana

This report contains privileged information. Do not quote or cite.

Report Generated: Tuesday, December 19, 2023

San Diego Zoo Wildlife Alliance

Wildlife Nutrition

DIET RECORD

Scientific Name Iguanidae

Common Name Herbivorous Iguana Spp.

Earl Mires

Accession No. H TAX-10288-B

Diet Herbivorous Spp. Diet Sheet

Life-stage Adult 2

Sex M/F

Institution SP Zoo

Diet for 1 Adult Animal

Effective Date 19-Dec-23

7 ------

| ltem | Food Type | Food Type Amount | | | |
|--|--|------------------|-----------|----------|--|
| | | Measure | Wgt | Schedule | |
| 1 | Lettuce, Romaine | | 100 g | 2x/week | |
| 2 | Kale | | 100 g | 2x/week | |
| 3 | Collard | | 100 g | 1x/week | |
| 4 | Dandelion Greens | | 100 g | 1x/week | |
| 5 | Chard | | 100 g | 1x/week | |
| 6 | Bok Choy | | 100 g | 1x/week | |
| Note: Rotate through greens such that two types are used on ea | | | | | |
| | day following the above frequency with a week. | a total of fo | ur feed o | days per | |
| 7 | Vegetables, Variable | | 10 g | 4x/week | |
| 8 | Roots, Variable | | 5 g | 4x/week | |
| 9 | Tortoise LS Diet, Extruded, Mazuri 5E5L, | Ground | 15 g | 4x/week | |
| | Note: Mix ground Tortoise LS Diet with p | produce thoro | ughly. | | |
| 10 | Browse | | | Variable | |

FEED STRICTLY AS INDICATED. DO NOT ALTER DIET. IF CHANGE IS REQUIRED, PROVIDE DETAILS IN DIET CHANGE REQUEST FORM.

Note

- 1) Diet is estimated for individuals 1 to 5 kg.
- 2) Diet amounts and frequencies are adjusted at Wildlife Care management discretion during brumation and breeding.

Includes: Fiji Banded Iguana, Chuckwalla, Grand Cayman Blue Iguana, Jamaican Iguana, Cuba/Caymans Iguana

This report contains privileged information. Do not quote or cite.

Report Generated: Tuesday, December 19, 2023

San Diego Zoo Wildlife Alliance

Wildlife Nutrition

DIET RECORD

Scientific Name Iguanidae

Common Name Herbivorous Iguana Spp.

Accession No. H TAX-10288-C

Diet Herbivorous Spp. Diet Sheet

Life-stage Adult 3

Sex M/F

Institution SP Zoo

Diet for 1 Adult Animal

Effective Date 19-Dec-23

| Item | Food Type | Amount | | |
|----------------------------|---|----------------------------|--------------------------------|---|
| 1 2 3 4 5 6 | Lettuce, Romaine Kale Collard Dandelion Greens Chard Bok Choy Note: Rotate through greens such that day following the above frequency wit week. | Measure two types are t | 125 g used on e | 1x/week 1x/week 1x/week 1x/week each feed |
| 7 8 9 | Vegetables, Variable Roots, Variable Tortoise LS Diet, Extruded, Mazuri 5E Note: Mix ground Tortoise LS Diet wit | • | 20 g 10 g 20 g ughly. | 4x/week 4x/week 4x/week |
| 10 | Browse | | | Variable |

FEED STRICTLY AS INDICATED. DO NOT ALTER DIET. IF CHANGE IS REQUIRED, PROVIDE DETAILS IN DIET CHANGE REQUEST FORM.

Note

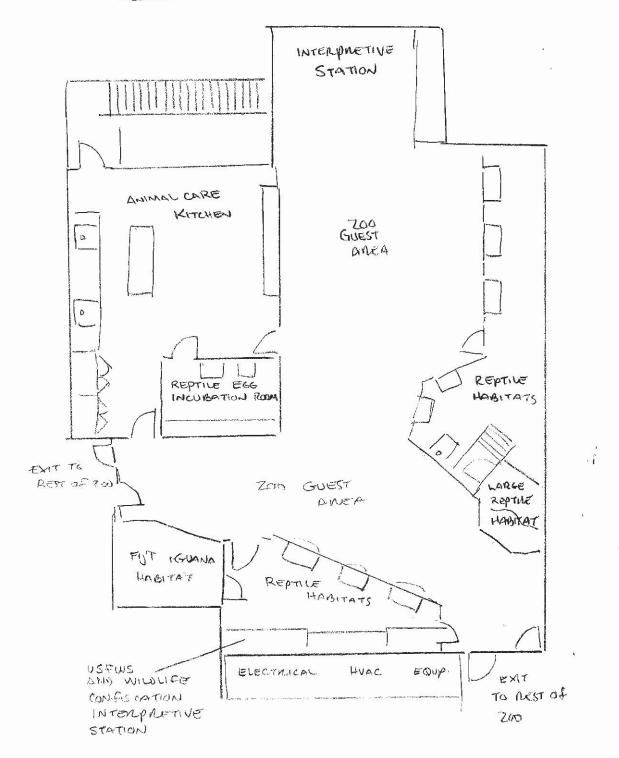
- 1) Diet is estimated for individuals 5+ kg.
- 2) Diet amounts and frequencies are adjusted at Wildlife Care management discretion during brumation and breeding.

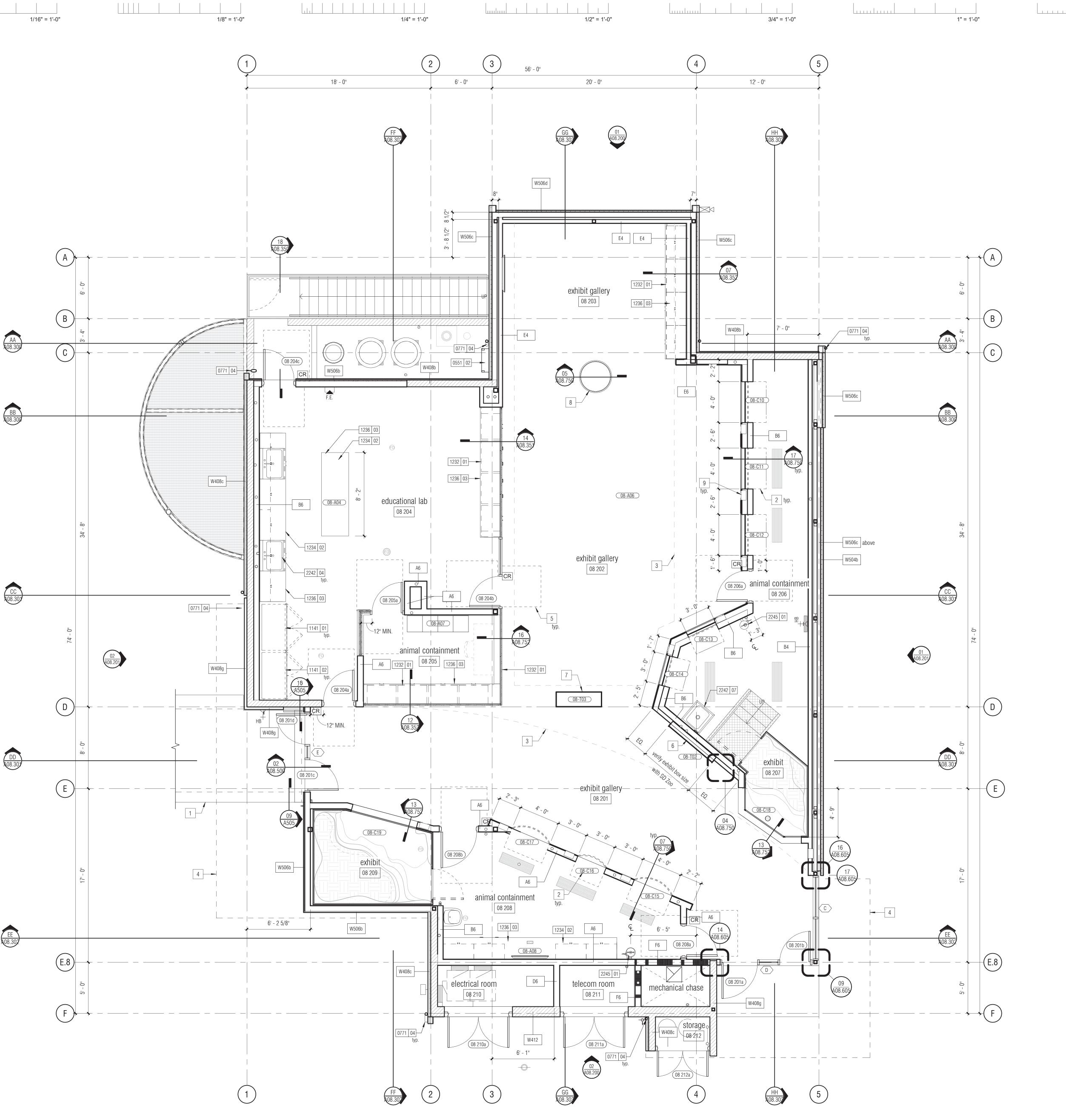
Includes: Fiji Banded Iguana, Chuckwalla, Grand Cayman Blue Iguana, Jamaican Iguana, Cuba/Caymans Iguana

This report contains privileged information. Do not quote or cite.

Report Generated: Tuesday, December 19, 2023

WILDLIFE EXPLONER'S BASECAMP"
SECOND FLOOR - JOKE'S COOL CRITTERS





sheet general notes

1. FOR OVERALL PROJECT GENERAL NOTES, REFER TO SHEET TO01.

1-1/2" = 1'-0"

2. CONTRACTOR SHALL VERIFY ALL PLUMBING SLAB PENETRATIONS WITH PLUMBING PRIOR TO POURING SLAB.

3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL SLAB PENETRATIONS WITH ELECTRICAL PRIOR TO POURING SLAB.

4. REFERENCE FINISH PLAN FOR FINISH INFORMATION RELATED TO SLAB-ON-GRADE.

5. ALL SPOT ELEVATIONS ARE TO TOP OF SLAB U.N.O.

6. ALL DIMENSIONS FROM FACE OF MASONRY AT CMU WALLS, U.O.N.

7. ALL DIMENSIONS FROM FACE OF FRAMING AT COLD-FORMED METAL FRAMED WALLS, U.O.N.

8. NO EXPOSED MECHANICAL ELEMENTS, SPRINKLER HEADS OR ELECTRICAL DEVICES WITHIN ANIMAL HOLDING BEDROOMS, TYP. consultant

9. ALL WINDOW AND DOOR OPENINGS WITHIN ANIMAL HOLDING SPACES TO INCLUDE REMOVABLE SAFETY CAGING PANEL.

10. REFER TO ENCLOSURE DETAILS FOR ALL ANIMAL DOOR REQUIREMENTS, LOCATIONS AND DIMENSIONS.

11. REFER TO DOOR SCHEDULE FOR ALL DOOR DIMENSIONS AND MASONRY ROUGH OPENINGS.

12. REFER TO WINDOW SCHEDULE AND ELEVATIONS FOR ALL WINDOW DIMENSIONS AND SILL HEIGHTS.

13. REFER TO PROJECT SPECIFICATIONS FOR DETAILED INFORMATION REGARDING KEYNOTES

14. ALL NEW WALLS TO BE FULL HEIGHT, TO UNDERSIDE OF FLOOR SLAB OR ROOF DECK, U.O.N.

15. REFERENCE SHEET A500 FOR EXTERIOR WALL TYPES.

16. REFERENCE SHEET A700 FOR INTERIOR PARTION TYPES.

sheet legend

DOOR TAG, REFER TO DOOR SCHEDULE

ENCLOSURE DOOR TAG, REFER TO ENCLOSURE DOOR SCHEDULE

WINDOW TAG, REFER TO WINDOW SCHEDULE

FLOOR DRAIN ATRIUM DRAIN

FLOOR DRAIN WITH STRAINER BASKET

TRENCH DRAIN

SHALLOW TRENCH DRAIN

HOSE BIBB

LIXIT DRINKER @ 12" A.F.F.

O.F.C.I. HOSE RACK

A4 WALL TYPE TAG

1 HOUR RATED WALL PER WALL TYPE

FIRE EXTINGUISHER CABINET

O.F.C.I. HOSE RACK

SPOT ELEVATION

AUDIO VISUAL ELEMENT, REFER TO SAN DIEGO ZOO - CZ EXHIBIT ELEMENTS DOCUMENT

COLLECTION EXHIBIT, REFER TO SAN DIEGO ZOO - CZ EXHIBIT ELEMENTS DOCUMENT

THEMATIC ELEMENT, REFER TO SAN DIEGO ZOO - CZ EXHIBIT ELEMENTS DOCUMENT

keynotes

0551 02 METAL ROOF ACCESS LADDER

0771 04 SHEET METAL DOWNSPOUT - FINISH PER SPECIFICATION

1141 01 REACH-IN REFRIGERATOR - O.F.C.I. 1141 02 REACH-IN FREEZER - O.F.C.I.

1232 01 PLASTIC-LAMINATE-CLAD CASEWORK 1234 02 PHENOLIC CASEWORK, COLOR AND FINISH TO MATCH WILSONART HD LAMINATE

RUSKIN OAK 17001K-57 1236 03 SOLID SURFACE COUNTERTOP

2242 04 SINK

2242 07 EQUIPMENT SINK 2245 01 EYEWASH EQUIPMENT

sheet keynotes 1

1. TROPICAL BRIDGE, REFER TO SHEET LC-21.1

2. INTERIOR EXHIBIT BY OTHERS - REFER TO CZ EXHIBIT ELEMENTS DOCUMENT

3. LINE OF SOFFIT ABOVE

4. LINE OF ROOF ABOVE

5. MANEUVERING CLEARANCE ON BOTH SIDES OF DOOR IN ACCORDANCE WITH CBC, SECTION 11B-404.2.4.

6. RECESSED EXHIBIT BOX WITH INTEGRAL LIGHTING. CONFIRM SIZE AND DESIGN PARAMETERS WITH SD ZOO FOR DISPLAY OF EXISTING PYTHON SKELETON EXHIBIT.

7. FREE STANDING EXHIBIT PEDESTAL WITH INTEGRAL LIGHTING. CONFIRM SIZE AND DESIGN

PARAMETERS WITH SD ZOO FOR DISPLAY OF EXISTING GARIAL SKELETON EXHIBIT. 8. MOVABLE DISPLAY PEDESTAL, REFER TO 05/A08.750

9. O.F.O.I. DIGITAL INFORMATIONAL DISPLAY - REFER TO DEATIL 06/A750

hanna gabriel wells

3" = 1'-0"

san diego, ca 92107 \$\tilde{\mathbb{E}}619.523.8485 -619.523.8487 ww.architects-hgw.com

1955 bacon street

consultant seal

architect seal

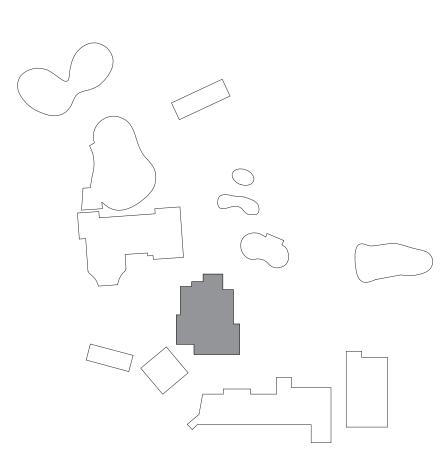
A R C H I T E C T S

1476 RFI RFI 1476

revision schedule No. Revisions By Date 004 ADD Addenda 004 TM 11.30.2018 TM 03.08.2019 005 ADD Addenda 005 TM 07.15.2019 009 ADD Addenda 009 004 ASI ASI 004 TM 08.13.2019 TM 11.11.2019 294 RFI RFI 294 TM 03.05.2020 023 ASI ASI 023 971 RFI RFI 971 TM 10.21.2020 TM 10.29.2020 015 CC RFI 984 1062 RFI RFI 1062 TM 11.20.2020 1219 RFI RFI 1219 TM 02.22.2021 015 CC Construction Change 015 TM 03.03.2021 1338 RFI RFI 1338 TM 04.09.2021

TM 07.27.2021

key plan



SAN DIEGO CHILDREN'S ZOO HERP BUILDING

2920 zoo drive san diego, ca 92101

date 02.11.2022 17.07 hgw project number VOL. III volume

sheet description second floor plan

sheet number

project phase

record set

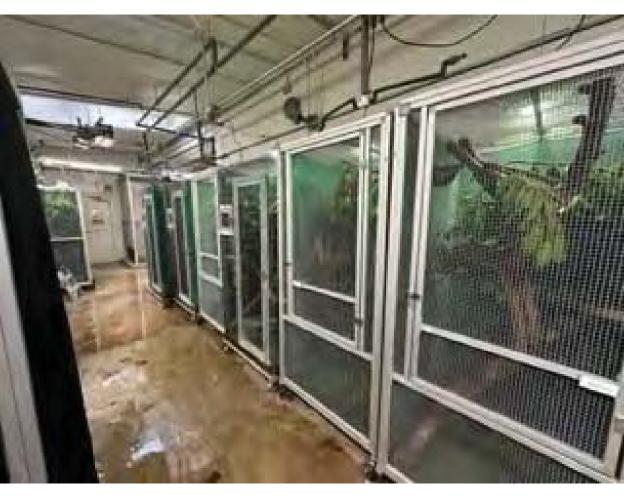
 $01 \frac{\text{second floor plan}}{\frac{1}{4"} = \frac{1}{-0"}}$

GRAPHIC SCALES:

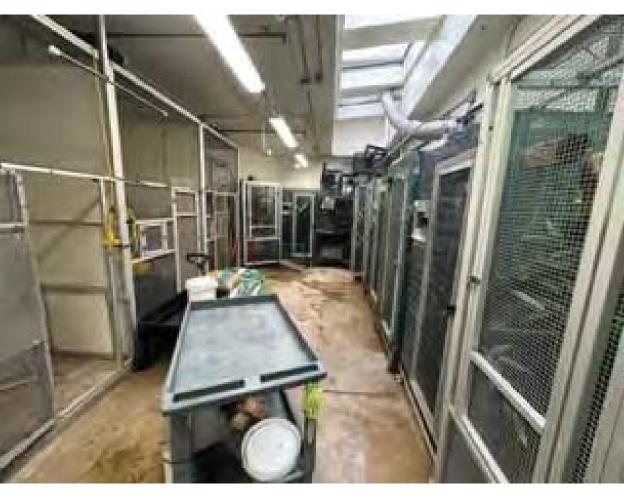
















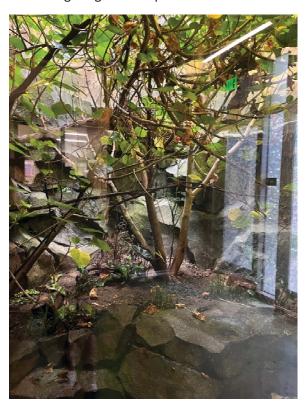


<u>Fiji Banded Iguana</u> - Completed new construction to increase the number of habitats available for animals. (BB20004)

Facility Description & General Size: Indoor habitat; space measures approximately 11.08' x 8.58' (L x W).

<u>Description of Primary Containment</u>: Fully enclosed; perimeter constructed of solid surface concrete walls and glass viewing window.

<u>Habitat Photographs</u>: Habitat includes climbing and perching structures, vegetative cover and shade. Environmental controls for lighting and temperature.







Species:

Fijian banded Iguana (*Brachylophus bulabula*) Radiated Tortoise (*Astrochelys radiata*)

4 R07100

Facility Description & General Size:

Indoor area measuring approximately 51.5' x 36'. Room contains multiple terrestrial enclosures.

Description of Primary Containment:

Indoor complex located within the Reptile House; ceiling composed of solid surface concrete. Room perimeter constructed of solid surface walls.

Enclosure Structures:

Climbing Structure(s): Yes

Perching: Yes Water feature(s): 0*

* All animals receive potable water.

Psychological Cover/Shelter:

Vegetative Cover: Yes Cave/Overhange: O Artificial Nest/Den: O

Protection from Weather/Elements:

Approximate Cover: 100% Artificial Shade: Yes Botanical Shade:NoN/A

Fan: No
Mister: MES
Wallow: No
Hot/Cold Rocks: No
Radiant Heat: Yes





Holding area for Fiji iguanas - inside main Reptile House.

There are currently 18 enclosures measuring 3'x3'x75", 7 enclosures measuring 2'x2'x75", 1 enclosure measuring 4'x8'x77"



The main Reptile House is a secured large building that has a specialized locking mechanism with fire and smoke supression alarms etc. Zoo is secured with parimiter fencing, monitored security cameras and 24 hour 7 day per week security staff. No Fiji iguanas have ever been stolen/no theft of this taxa has occured.

San Diego Zoo Wildlife Alliance Staff Experience

The San Diego Zoo's Herpetology & Ichthyology Department has staff that is highly skilled in the care, maintenance and breeding of a wide variety of herpteofauna, including lizard species, in particular that of Brachylophus species. We have maintained a wide variety of lizard species at our facility since the early 1920's and continue to this day. Various species have been bred for sustainability purposes within the AZA community such as Caribbean rock iguanas from the genus Cyclura and Fijian iguanas from the genus Brachylophus, which and we have managed as SSP programs in the AZA community for many years as well. Currently we have one Wildlife Care Manager, one Wildlife Care Lead, a number of other Wildlife Care Specialists, all of which work full time providing 7 day per week animal care coverage (full list also provided). New or less experienced staff are trained by team members with more experience who have significant number of years of experience (also provided on staff list) and our team works alongside the San Diego Zoo Veterinary Department to help provide any medical needs and including quarantine for new incoming reptiles. The San Diego Zoo maintains two completely staffed veterinary hospital facilities; one at the Jennings Center for Animal Health located at the San Diego Zoo, and one at the Harter Animal Health Center at The San Diego Zoo's Safari Park. These facilities are staffed by experienced zoo veterinarians with over 10 years each of clinical experience with herpetofauna in a captive management environment and significant experience with free ranging herpetofauna through involvement in various wildlife care and conservation projects. Examples of wildlife conservation activities for which veterinary staff at the San Diego Zoo Wildlife Alliance (SDZWA) have had direct involvement include but not limited to Caribbean iguana recovery, desert tortoise recovery, US endangered anuran recovery (mountain yellow-legged frog), horned lizard population biology and varanid population biology research projects. Please see attached list of current staff veterinarians and Vet team staff.

| | | Iguana and similar species husbandry | Number of Years | |
|-----------|-------------|--------------------------------------|--------------------|---|
| Last Name | First Name | experience | Experince | Position |
| Alex | Arvallo | YES | over 5 | Wildlife Care Specialist |
| Baldwin | Brett | YES | over 30 | Curator of Herpetology & Ichthyology |
| Barwig | Thomas | YES | over 8 | Wildlife Care Specialist |
| Boucree | Joey | YES | over 5 | Wildlife Care Specialist |
| Cattell | Robert | YES | over 5 | Wildlife Care Specialist |
| DiVenti | Erika | YES | over 25 | Lead Wildlife Care Specialist |
| Garr | Michael | YES | over 15 | Senior Wildlife Care Specialist |
| | | | | |
| Grousis | Alexander | YES | over 5 | Wildlife Care Specialist |
| Mooney | Christopher | YES | over 5 | Senior Wildlife Care Specialist |
| Provan | Davis | YES | over 5 | Senior Wildlife Care Specialist |
| Reeder | Travis | YES | over 15 | Lead Wildlife Care Specialist |
| Rinaudo | Amanda | YES | over 10 | Senior Wildlife Care Specialist |
| Schneider | Rachelrose | YES | over 10 | Senior Wildlife Care Specialist |
| Scott | Brandon | YES | over 20 | Wildlife Care Manager Herpetology & Ichthyology |
| Borgardt | Erin | YES | over 10 | Wildlife Care Specialist |
| Vilitchai | Somboon | YES | over 20 | Senior Wildlife Care Specialist |
| Villines | Barbara | YES | over 5 | Wildlife Care Specialist |
| Morales | Kyle | YES | over 5 | Wildlife Care Specialist |

PERSONALWork Address:

San Diego Zoo

Department of Veterinary Services

P.O. Box 120551 San Diego, CA 92112 dbrenner@sdzwa.org

Home Address:

Poway, CA 92064

BOARD CERTIFICATION

Diplomate, American College of Zoological Medicine

2010

EDUCATION AND TRAINING

Zoological Medicine Residency

2005-2008

UC- Davis, School of Veterinary Medicine and San Diego Zoo Wildlife Alliance Out-rotations: The Marine Mammal Center (4 weeks), Sea World (12 weeks)

Small Animal Medicine and Surgery Internship

2004-2005

Purdue University – College of Veterinary Medicine

Doctor of Veterinary Medicine

2004

North Carolina State University – College of Veterinary Medicine

Bachelor of Science, Animal Science/Pre-Veterinary

1999

University of Massachusetts – Amherst

International Study Abroad

1998

Melbourne University, New South Wales, Australia

EMPLOYMENT

San Diego Zoo

2014-present

Senior Veterinarian, Veterinary Services, San Diego, CA

Supervisor: Dr. Ben Nevitt

San Diego Zoo Safari Park and San Diego Zoo

2011-2014

2008-2012

Relief Veterinarian, Veterinary Services, Escondido and San Diego, CA

Supervisors: Dr. Nadine Lamberski and Dr. Meg Sutherland-Smith

Denver Zoo

Staff Veterinarian, Department of Animal Health, Denver, CO

Supervisors: Dr. Scott Larsen and Craig Piper

STUDENT/ RESIDENT TRAINING

Zoological Medicine Residency Mentor, San Diego Zoo

2011-present

Provide clinical teaching and mentorship during 2nd year of UC-Davis and San Diego Zoo Wildlife Alliance ACZM-accredited residency. As primary mentor (*), provide oversight on publications, ACZM board study, clinical caseload, technical skill development, and formal reviews at 6 months and 12 months. Mentored 9 residents.

| Resident Name | ACZM | Current Position | Current Location | Date |
|---------------------------|------------|-------------------------------|---|-----------|
| | status | | | |
| Melanie Peel, DVM | Exam 2025 | 2 nd year resident | San Diego Zoo | 2022-2023 |
| Erin Berlin, DVM | Exam 2024 | 3 rd year resident | San Diego Zoo Safari Park | 2021-2022 |
| Rachel Ferris, DVM | Dipl. ACZM | Associate Veterinarian | St. Louis Zoo | 2020-2021 |
| Rob Browning, DVM | Dipl. ACZM | Associate Veterinarian | Woodland Park Zoo | 2019-2020 |
| Louden Wright, DVM | Exam 2021 | Associate Veterinarian | Great Plains Zoo | 2018-2019 |
| *Matt Marinkovich, DVM | Dipl. ACZM | Clinical Veterinarian | San Diego Zoo | 2017-2018 |
| *Mary Thurber, DVM | Dipl. ACZM | Clinical Instructor | University of Wisconsin - School of Veterinary Medicine | 2016-2017 |
| Katie Delk, DVM | Dipl. ACZM | Associate Veterinarian | North Carolina Zoo | 2014-2015 |
| Christine Molter, DVM | Dipl. ACZM | Director of Animal Health | Houston Zoo | 2013-2014 |
| Matt Kinney, DVM | Dipl. ACZM | Senior Veterinarian | San Diego Zoo Safari Park | 2012-2013 |
| Kristen Phair, DVM | Dipl. ACZM | Associate Veterinarian | San Diego Zoo Safari Park | 2011-2012 |

Veterinary Student Externship Mentor and Program Supervisor, San Diego Zoo Application review, extern selection and orientation. Provide clinical mentorship, project oversight, and structured review. Mentored approximately 60 students.

2014-present

Veterinary Student Preceptorship Mentor and Program Supervisor, Denver Zoo Redesigned and implemented veterinary student preceptorship program with structured mentorship, focus on didactic learning, and clinical skill development. Application review, approval, and scheduling. Acted as liaison with Human Resources. Mentored approximately 50 students.

2008-2012

SUPERVISORY

Veterinary Clinical Fellow Supervisor, San Diego Zoo

2018-present

Application review, candidate selection, and conducted interviews. Created orientation program, provide oversight of clinical duties, and provide regular opportunities for discussion and targeted feedback.

| Clinical Fellow Current Position | | Current Location | Date |
|----------------------------------|----------------------------|--------------------------|--------------|
| Name | | | |
| Garrett Fraess, | Veterinary Clinical Fellow | San Diego Zoo | Starting Aug |
| DVM | | | 2023 |
| Kathyln Reed, DVM | Associate Veterinarian | Sea World – San Antionio | 2021-2023 |
| Melissa Nau, DVM | Director of Animal Health | Zoo Tampa at Lowry Park | 2018-2020 |

Veterinary Services Administrative Staff Supervision, San Diego Zoo

2021

Interim management of Veterinary Services Administration staff including Medical Records Specialist, Pharmacy Technician, and Administrative Assistant. Provided support and leadership to this team.

Interim Supervisory Veterinarian, Denver Zoo

2011-2012

Interim executive and supervisory responsibilities, including management of veterinary staff, budget, and oversight of laboratory and pharmacy.

RESEARCH

Current Research:

2021 Improving snake welfare through opportunities for movement and exercise. Co-Primary Investigator for IACUC-approved study #20-020 at San Diego Zoo.

<u>Justification:</u> Many snakes kept in zoological collections and as zoological companion animals do not have sufficient opportunities to stretch their bodies in straight-line body posture and lack adequate opportunities for movement and exercise due to small enclosure size. This has been standard practice in herpetology for many decades but is often inconsistent with the natural history of the species. This study aims to evaluate the difference in activity budget and diversity of behaviors of snakes in their standard enclosures compared with when snakes are given opportunities for exercise and activity. Variables related to health, mobility, and fitness, including traction force, epaxial muscle width, and subcutaneous fat measurements, will be measured at start and end of study to determine if there are measurable changes. This study will guide future research on space and exercise needs of snakes under human care.

Peer-Reviewed Publications:

Brenner D, and Wolfe T. Physical therapy in zoological species. In: Miller RE, Lamberski N, Calle P (eds). Fowler's zoo and wild animal medicine, Volume 10, Current therapy. St. Louis (MO): Elsevier. 2021. Ch 47, pp 313-317.

Greene W, **Brenner D.** Geriatric elephant survey of medical care, nutrition, husbandry, and welfare. J Zoo Wildl Med. Sept; 51(3):545-56.2020.

Marinkovich M, Wisner E, **Brenner DJ.** Distal limb swelling and periosteal productive reaction in periparturient Sichuan takin (*Budorcas taxicolor tibetana*): five cases of presumptive hypertrophic osteopathy. J Zoo Wildl Med. Jun;50(2):437-46. 2019.

Greggor A, Vicino GA, Swaisgood RR, Fidgett AL, **Brenner D**, Kinney ME, Farabaugh SM, Masuda B, Lamberski. Animal welfare in conservation breeding: applications and challenges. Front. Vet. Sci 18 Dec 2018.

Brenner DJ, Larsen RS, Dickinson PJ, Wack RF, Williams DC, Pascoe PJ. Development of an avian brachial plexus nerve block technique for perioperative analgesia using mallard ducks (*Anas platyrhychos*). J Avian Med Surg. Mar;24(1):24-34. 2010.

Brenner DJ, Stokking L, Donovan TA, Lamberski N. Pemphigus foliaceus in a Barbary sheep (*Ammotragus lervia*). Vet Rec. Oct 24;165(17):509-10. 2009.

Imai DM, Nadler SA, **Brenner D**, Donovan TA, Pessier AP. Rhabditid nematode—associated ophthalmitis and meningoencephalomyelitis in captive Asian horned frogs (*Megophrys montana*). J Vet Diagn Invest. Jul;21(4):568-73. 2009.

Brenner D, Larsen RS, Pascoe PJ, Wack RF, Williams DC, Dickinson PJ. Somatosensory evoked potentials and sensory nerve conduction velocities in the thoracic limb of mallard ducks (*Anas platyrhynchos*). Am J Vet Res. 69(11): 1476-80. 2008.

Brenner D, Larsen RS, Wack RF, Agnew D, Imai D. Concurrent West Nile virus and *Mycobacterium avium* infection in a black-necked swan (*Cygnus melanocoryphus*). J Zoo Wildl Med. 38(2): 357-62. 2007.

Brenner D, Lewbart G, Stebbins M, Herman D. Health survey of wild and captive bog turtles (*Clemmys muhlenbergii*) in North Carolina and Virginia. J Zoo Wildl Med. 33 (4):311-316. 2002.

McDonald-Madden E, Akers LK, **Brenner DJ**, Howell S, Patullo BW, Elgar MA. Possums in the park: Efficient foraging under the risk of predation or of competition? Aust J Zool. 48(2):155-160. 2000.

Conference Presentations and Workshops:

Harrison T, Reilly T, **Brenner D**. Acupuncture and Physical Rehabilitation Workshop Instructor. Am Assoc Zoo Vet Conf. 2022.

Brenner D. Telemedicine in Avian Conservation. Association of Zoos and Aquariums (AZA) Mid-Year meeting. Apr 2021.

Brenner D, and Wolfe T. Physical therapy improves function and mobility in two geriatric Galapagos Tortoises (*Chelonoidis nigra*). Proc of Am Assoc Zoo Vet Conf. 2020.

Greene W, **Brenner D.** Geriatric elephant survey of medical care, nutrition, husbandry, and welfare: Initial results. Proc. Am. Assoc. Zoo. Vet. Pp. 107-109. 2019.

Brenner D, Larsen RS, Wack RF, Dickinson PJ, Pascoe PJ, Williams DC. Development of an avian brachial plexus nerve block technique for perioperative analgesia in mallard ducks. Proc of Am Assoc Zoo Vet Conf. 40-41. 2007.

Invited Presentations:

- 2021 Avian Conservation Medicine. Tuskegee University College of Veterinary Medicine Wildlife and Conservation Medicine Webinar.
- 2016 Elephant Medical Management: Geriatric Focus. Wildlife and Aquatic Animal Medicine Symposium. University of California Davis, Veterinary Medical Teaching Hospital.
- Zoo Medicine and Behavioral Husbandry. Lecture to Zoo Medicine Club. Colorado State University, Veterinary Teaching Hospital.

Other Presentations:

- 2019 Physical exam skills and animal bandaging laboratory. Tierra Bonita Elementary School. Poway, CA
- 2019 Maui parrotbill (Kiwikiu) reintroduction effort presentation. San Diego Zoo Veterinary Services Department Meeting.
- 2018 Introduction to zoological medicine, hospital tour for multiple high school tour groups. San Diego Zoo.
- 2007 Somatosensory evoked-potentials in the thoracic limb of mallard ducks. House Officer Seminar Day. University of California Davis, Veterinary Medical Teaching Hospital.
- 2005 Lecture series in VME 415 course including lectures on Chiroptera, Monotremes and Marsupials, and Prosimians and New World Primates. University of California Davis, College of Veterinary Medicine
- 2005 Analgesia in zoo and wildlife medicine. Grand Rounds. Purdue University, School of Veterinary Medicine
- 2004 Mortality study of two fruit bat colonies at the National Zoological Park (*Carollia perspicillata* and *Artibeus jamaicensis*). Smithsonian National Zoological Park.
- 2003 Creation of a medical records system and retrospective survival study of two-toed sloths (*Choloepus hoffmani*) and three-toed sloths (*Bradypus variegatus*) in Costa Rica. Poster presentation. North Carolina State University, College of Veterinary Medicine.

WILDLIFE CONSERVATION MEDICINE – INTERNATIONAL AND DOMESTIC

2019 Hawaiian Islands - Haleakala National Park

Part of a multi-organization conservation effort including USFW, Maui Forest Bird Recovery Project, DLNR, Pacific Bird Conservation, American Bird Conservancy, and San Diego Zoo Wildlife Alliance to translocate a population of critically endangered Maui

parrotbills (Kiwikiu) on Haleakala volcano due to imminent threat of avian malaria. Examined pre-release candidates and wild birds, provided triage and medical care, advised on animal care practices.

2017-present Commonwealth of the Northern Mariana Islands - Rota

Veterinary Advisor for Mariana Crow Rear and Release Program.

Provide individual and flock veterinary care. Traveled to Rota in 2017 for examination of release candidates, and to train staff in physical exam skills, venipuncture, triage care, and emergency procedures. Telemedicine platforms used for weekly case rounds and urgent medical needs.

2016-present Hawaiian Islands – Hawai'i and Maui:

Veterinary Co-Advisor for Hawaii Endangered Bird Conservation Program.

Provide veterinary oversight for conservation breeding and release programs of native passerines through remote and onsite veterinary care. Travel to both Keauhou Bird Conservation Center (KBCC) and Maui Bird Conservation Center (MBCC) 1-3 times per year for veterinary care, medical and surgical procedures, and staff training. Telemedicine platforms used for weekly case rounds and urgent medical needs.

2015-2018 Galapagos Islands – Charles Darwin Research Station, Santa Cruz

Veterinary Advisor for Galapagos Mangrove Finch Rear and Release Program.

Designed protocols for emergency triage of sick and injured chicks. Traveled to Galapagos in 2017 for examination of captive-reared chicks, veterinary consultation on animal care practices, and staff training. Remote consultation on medical cases continued for the duration of the program.

2008-2012 South Africa: Pongola Game Reserve, Selati Game Reserve

Scientific Advisor in Anesthesia for the Elephant Population Management Program (EPMP). Provided safe and effective anesthesia for elephants undergoing laparoscopic vasectomy surgery as a population management tool. Traveled to South Africa in 2008 and 2011 for this conservation effort.

PROFESSIONAL DUTIES AND INITIATIVES

2020-present Chemical Environmental Management, Veterinary Approvals, San Diego Zoo

Review and approve or reject chemical requests for use in and around animal areas with attention to impacts on animal, plant, and environmental health.

2020-present Mammal Morbidity and Mortality Rounds, San Diego Zoo

Lead monthly meetings, facilitate discussions, and identify disease trends and emerging disease concerns to guide veterinary care, nutrition, and management of San Diego Zoo population.

2014-2021 International and Domestic Animal Shipments, San Diego Zoo

Create pre-shipment testing recommendations and medical summaries, work with internal administrative staff and regulatory veterinarians on complex shipments.

2014-2022 Elephant Odyssey, Veterinary Liaison, San Diego Zoo

Provide veterinary oversight of preventative medicine program for elephant herd and ensure AZA compliance. Promote health and wellness through comprehensive and innovative medical care which has included urinary and reproductive tract assessments, hormonal vaccine study trial, stem cell therapy, and individualized physical therapy plans.

2014-present Behavioral Husbandry, Veterinary Liaison, San Diego Zoo

Review training requests and help develop training protocols for medical procedures using principles and practice of operant conditioning.

2014-present Isospora (Atoxoplasma) Prophylaxis Program, San Diego Zoo

Initiated this program in 2014 due to avian deaths from to this hemoparasite. Annual review of susceptible breeding passerines and avian mortalities to determine treatment groups. Created protocols and templates for treatment.

2010-2012 Animal Transactions and Incoming Shipments, Denver Zoo

Responsible for veterinary management of incoming shipments and management of quarantine.

2009-2012 Fish, Reptile, and Amphibian Morbidity and Mortality Rounds, Denver Zoo

Developed and conducted monthly rounds for review and discussion of aquatic and herptile cases with veterinary and animal care staff.

2008-2012 Safety Committee, Denver Zoo

Established and promoted health, safety, and sustainable veterinary practices. Instituted rabies vaccination and surveillance program for veterinary staff, wild bat handling protocol and protocols for pharmaceutical and chemical disposal.

2008-2012 Visitor Experience Team, Denver Zoo

Veterinary contributor to inter-departmental team responsible for educational messaging related to zoological medicine, animal husbandry, and conservation.

MEDIA

- San Diego Zoo Wildlife Alliance Journal. "Let's Get Physical (Therapy)." Featured in article about physical rehabilitation in zoological species. May 2023 Issue:15-18.
- 2022 San Diego Zoo Wildlife Alliance Journal. "Hope Takes Wing." Featured in article about 'akikiki conservation and risk of extinction due to avian malaria. May 2022 Issue: 16-18.
- The Zoo: San Diego Season 2, Episode 2: "Mabel's Joy." Episode features story about the first successful Pygmy hippopotamus birth at the San Diego Zoo in over 30 years.
- 2020 ZOONOOZ: San Diego Zoo Global. "Little Size, Big Personality." Featured in article about Pygmy hippopotamus birth planning. Sept 2020 Issue: 12-15.

- 2019 ZOONOOZ: San Diego Zoo Global. "Injecting Hope." Featured in article on stem cell therapy treatment in a Bornean Sunbear. Mar 2019 Issue: 24-26.
- 2019 The Zoo: San Diego Season 1, Episode 5: "Panda-monium." Featured in story about care of a geriatric African Elephant.
- 2019 VetStem Biopharma press release. "VetStem regenerative cell therapy helps arthritic Sun Bear at the World-Famous San Diego Zoo." https://vetstem.com/pr_detail.php/142
- 2019 Honolulu Civil Beat. "Fighting to save this rare Maui forest bird from extinction." Online publication on the conservation effort to translocate a population of critically endangered Maui parrotbills (*Pseudonestor xanthophrys*).
 - https://www.civilbeat.org/2019/11/fighting-to-save-this-rare-maui-forest-bird-from-extinction/
- 2019 San Diego Zoo Kids Network. "Wallace the Galapagos tortoise gets physical therapy." Featured in video for children's hospital programming which broadcasts widely domestically and internationally. This video shows diagnostic evaluation of Galapagos tortoise and successful physical therapy techniques which restore function and mobility. https://www.youtube.com/watch?v=H2XpiOqab58
- 2016 KHON Hawaii News. "Alala male chicks given health exams, to be reintroduced to Hawaii Island forest." News article regarding conservation release effort for the critically endangered Hawaiian crow.
 - https://www.khon2.com/local-news/alala-male-chicks-given-health-exams-to-be-reintroduced-into-hawaii-island-forests/
- OnWisconsin: University of Wisconsin Madison Magazine. "An elephant never begets." Article describing laparoscopic vasectomy surgical procedures in African elephants as a population management alternative to culling in South Africa.

 https://onwisconsin.uwalumni.com/features/an-elephant-never-begets/
- 2012 Elephant Population Management Program website. Scientific advisor on elephant anesthesia. https://www.elepmp.org/who-we-are/scientific-advisors.html
- 2011 Smithsonian's National Zoo and Conservation Biology Institute website. "Field surgery on wild elephants in South Africa." https://nationalzoo.si.edu/conservation/news/field-surgery-wild-elephants-south-africa
- 2011 Colorado Public Radio. Featured in radio interview and website article on treatment of respiratory disease in a Bornean orangutan at the Denver Zoo. https://www.cpr.org/2011/07/20/mias-the-orangutan/
- 2011 RT magazine online (Respiratory Therapy). "eFlow nebulizer helping a Denver Zoo Orangutan breathe easier." Article describing collaboration with MD pulmonologist from National Jewish Health and use of eFlow technology for treatment of chronic airsacculitis in an orangutan. https://rtmagazine.com/disorders-diseases/chronic-pulmonary-disorders/cystic-fibrosis/eflow-nebulizer-helping-a-denver-zoo-orangutan-breathe-easier/
- 2008 UC Davis, School of Veterinary Medicine NEWS publication. "DVMs expand career opportunities." Article on zoological medicine careers. Vol 25 (1): 1, 4.

 https://www.yumpu.com/en/document/view/9050091/pdf-8-pp-428-kb-uc-davis-school-of-veterinary-medicine-

HONORS

2016 American Association of Zoo Veterinarians (AAZV) Presidential Service award

| 2007 | AAZV / Morris Animal Foundation Graduate Student Manuscript Competition: Second place for "Development of an avian brachial plexus nerve block technique for perioperative analgesia using mallard ducks." |
|------|--|
| 2004 | North Carolina State University- College of Veterinary Medicine Proficiency in Zoological |
| | Medicine Award (WAAZM Award) |
| 2003 | Terrence M. Curtin Scholarship |
| 2002 | Association for Women Veterinarians Scholarship |
| 2002 | Charles and Barbara Wilcox Scholarship |
| 2001 | Christi P. Massey Scholarship |
| 1999 | Honor Program Commonwealth Scholar |
| 1995 | Golden Key National Honor Society |

FUNDING AND AWARDS

| Amount | Date | Title | Agency |
|-----------|------|--|---------------------------------------|
| \$1600 | 2022 | Physical rehabilitation equipment for | San Diego Zoo Wildlife Alliance – |
| | | zoological species | Ocelots Grant |
| \$220,000 | 2021 | Zoological Veterinary Mentorship | Institute of Museum and Library |
| | | program | Services (IMLS) |
| \$3500 | 2010 | Surgical contraception as an | Denver Zoo Department of |
| | | alternative to culling in free-ranging | Conservation Biology |
| | | African elephants (Loxodonta | |
| | | africana) | |
| \$600 | 2007 | Development of an avian brachial | Morris Animal Foundation Post- |
| | | plexus technique using mallard ducks | graduate student competition |
| \$3500 | 2005 | Development of a brachial plexus | University of California – Davis CCAH |
| | | nerve block technique for | Research Grant |
| | | perioperative analgesia in mallard | |
| | | ducks | |

LEADERSHIP TRAINING

| 2022 | Conservation Standards Leadership Course |
|------|--|
| 2015 | Zoo U Extraordinary Leadership Training Program. |
| 2013 | Completed a three-series program focusing on Passion, Engagement & Innovation. |
| 2011 | The Servant Leadership Training Course. Audio course, James L. Hunter. |
| 2011 | Leadership and Supervisory Skills for Women, Rockhurst University, Denver, CO. |

VETERINARY LICENSURE AND ACCREDITATION

| California | Licensure | 2006-Present |
|------------------|---------------|--------------|
| USDA Category II | Accreditation | 2004-Present |

| Colorado | Licensure | 2008-2012 |
|----------------|---------------------------------|-----------|
| North Carolina | Licensure | 2004-2007 |
| Colorado DOW | Wildlife Rehabilitation License | 2010-2012 |

PROFESSIONAL AFFILIATIONS AND SERVICE

| American | Association | of Zoo | Veterinarians | (AAZV) | |
|-------------|-------------|--------|---------------------|---------------------------|--|
| AIIICIICAII | Association | 01 200 | v CtCi iliai iai is | $(\neg \neg \bot \lor)$ | |

| -Executive Committee – Member at Large | 2022-present |
|--|--------------|
| -Member | 2002-present |
| -Scientific Program Committee (Workshop Chair, Assistant Chair, Chair) | 2010-2016 |
| -Conference Session Chair (Hoofstock) | 2011 |

American College of Zoological Medicine (ACZM)

| 2010-present |
|----------------|
| 2010- 2015 |
| 2014-2018 |
| 2019- 2020 |
| 2015 - present |
| 2015 - present |
| 2015-2018 |
| 2011 |
| 2009 |
| |

CONTINUING EDUCATION

Clinical Skills:

| Certified Companion Animal Rehabilitation Therapist Program (CCAT) - North Carolina State University – College of Veterinary Medicine | 2022- present |
|---|---------------|
| Canine Rehabilitation Certificate Program (CCRP) -Didactic (40 hours), hands on laboratory (40 hours), internship (40 hours) -University of Tennessee | 2022 |
| Certified Small Animal Myofascial Practitioner Program (CSMP) -Didactic (10 hours) and on hands on laboratory (14 hours) -University of Tennessee | 2021 |
| Wolfe Kinetic Technique <u>Advanced</u> Canine Physical Therapy -Didactic (6 hours) and hands on laboratory (10 hours) -K9 Body Shop, Aurora, CO | 2018 |
| Wolfe Kinetic Technique <u>Basic</u> Canine Physical Therapy -Didactic (6 hours) and hands on laboratory (10 hours) | 2017 |

-K9 Body Shop, Aurora, CO

| Avian, Reptile & Small Mamma | Diagnostic Endoscopy Course | 2009 |
|------------------------------|-----------------------------|------|
|------------------------------|-----------------------------|------|

-Department of Small Animal Medicine & Surgery. Athens, Georgia

Sea Turtle Laparoscopy 2001

-NOAA-NMFS Laboratory, Beaufort, NC

Conferences:

| American Association of Zoo Veterinarians. Multiple locations | 2021, 2020, 2017, 2016, |
|---|-------------------------|
| | 2014 |
| American Association of Zoo Veterinarians. Multiple locations | 2013, 2011, 2010, 2007 |
| American Association of Zoo Veterinarians. Multiple locations | 2006, 2005, 2004, 2002 |
| American Association of Zoo Veterinarians. Multiple locations | 2001 |
| Wildlife Disease Association. Tahoe City, CA | 2019 |
| American College of Veterinary Internal Medicine. Seattle, WA | 2018 |
| Aquatic Medicine Seminar, Shark Reef Aquarium. Las Vegas, NV | 2016 |
| European Association of Zoo and Wildlife Veterinarians. Barcelona, Spain2 | 2015 |
| 36 th Annual Zoonosis Conference, Colorado Department of Public Health | 2011 |
| ACZM Short Course, University of California-Davis | 2009 |
| Feline seizure disorders and renal disease, Alameda East Vet Hospital, CO | 2009 |
| Equine Lameness Prevention Organization (ELPO), Pueblo, CO | 2009 |

LANGUAGE SKILLS

Native English speaker, basic French, Swedish comprehension

HOBBIES AND INTERESTS

Rock climbing (traditional, sport, outdoor, indoor), bouldering, scrambling, hiking, swimming, backpacking and camping. Crafts of all sorts (knitting, soft sculpture, pen and ink, clay). Archeological endeavors and nature adventures with my husband, daughter, and our super mutt. Spending time with family and friends.

REFERENCES

Available Upon Request

ELIZABETH J. BICKNESE D.V.M., M.P.V.M. CURRICULUM VITAE

HOME ADDRESS:

San Diego, CA 92119

WORK ADDRESS: Veterinary Services

San Diego Zoo PO Box 120551 San Diego, CA 92112 (619) 685- 3246 FAX (619) 230-1256

EDUCATION:

1991 University of California at Davis

Davis, California

Masters of Preventive Veterinary Medicine

Thesis: Prevalence and Risk Factors for Iron Deficiency

Anemia in Weanling Rhesus Macaques

1986 University of Illinois at Champaign- Urbana

Urbana, Illinois

Doctor of Veterinary Medicine

1982 Southern Illinois University

Carbondale, Illinois

Undergraduate study in Chemistry (Admitted to veterinary school prior

to receiving degree)

PROFESSIONAL ASSOCIATIONS:

American Association of Zoo Veterinarians

- Member of Infectious Disease Committee since 1990.
- Occasional reviewer for Journal of Zoo and Wildlife Medicine
- Member of Animal Welfare and Legislature Committee since 2002.
 - Vice chair beginning 2013; IACUC subcommittee since 2013
- Member Disaster preparedness committee since 2013

Association of Avian Veterinarians

Association of Reptilian and Amphibian Veterinarians

- Member Animal Welfare and Legislature Committee since 2005
- Co chair since 2014; chair ACUC subcommittee since 2014

American Veterinary Medicine Association

AWARDS:

Employee of the Month, Baltimore Zoological Society, May 1994
Davis and Mary E. Bloom Graduate Scholarship, 1985–1986
Merck Chemical Company Senior Year Award, 1982
American Chemical Society Outstanding Sophomore Award, 1980

CERTIFICATES AND LICENSES:

Residency in Zoological Medicine, 1993
Residency in Primate Medicine, 1990
Licensed Veterinarian in California
Trained in Cervid Cervical Tuberculosis Testing, 1993
Accreditated Veterinarian, 1986

PROFESSIONAL EXPERIENCES:

1996- Present Veterinary Services

San Diego Zoo San Diego, CA 92112 Senior Veterinarian Jan 2008 to current; Associate Veterinarian July 1996–December 2007

- The San Diego Zoo is part of the Zoological Society of San Diego and has 4000 specimen of 780 species consisting of mammalian, avian, and herptilian species. I am part of a 6 veterinarian team (plus a veterinary resident) performing all aspects of zoological medicine. My job is performed in either the full-service hospital or on the zoo grounds. I perform both preventive medicine and acute/chronic case care.
- I am the veterinarian in charge of approving enrichment items. Also I am the veterinarian in charge of special quarantine cases such as animal ambassadors.
 - I deliver the Zoonotic Disease lectures for Animal Care Education classes.
- Starting in 1997, I organize the monthly Herptilian Morbidity and Mortality meetings with keepers, curator, veterinarians, and pathologists.
 - Adjunct Professor for the University of California-Davis Zoological Medicine Residency.
 Supervise and provide intensive training for the resident during their year at the San Diego Zoo. Have a new resident annually rotating through a 3 year program.
 - Member of the ZSSD IACUC committee since 1997. In 2010, I became vice-chair for the IACUC committee. I was chair 2011-2012

1995 – 1996 Zoo Hospital Denver Zoological Foundation
Denver, Colorado 80205
Associate Veterinarian

- The Denver Zoo is a city and foundation run organization with 3,000 specimens of 640 species consisting of mammalian, avian, herptilian and piscine groups. I was the primary clinical veterinarian in a 2.75 -doctor department performing all aspects of zoological medicine and surgery, on grounds and in a full-service hospital with computerized records.
- I actively participated in the well-established preventive medicine program including annual examinations for primates and selected large carnivores, TB testing, quarantine, vaccinations and parasite monitoring.
- As a senior staff member, I actively participated in Senior Staff, Animal Staff, and Vet-Curator meetings and communicated with all levels of zoo personnel. I shared the responsibility of supervising the 5 hospital employees (3 keeper/vet technicians, 1 medical technologist, and 1 office staff) and multiple volunteers on a daily basis. Since January 1996, I was responsible for supervising and coordinating the clinical cases with a part-time veterinarian. When the head veterinarian was absent from the zoo, I functioned as the department head making sensitive clinical decisions, overseeing hospital building maintenance and personnel management.
- I worked with the Bird Department to improve confidence in the Veterinary Department. I especially concentrated on neonatal and pediatric medicine offering services like egg radiographs, summaries of morbidity and mortality trends in chicks and nutritional intervention. For example, I investigated a <u>Staphylococcus</u> <u>aureus</u> outbreak in anseriformes at the Propagation Building resulting in new hygienic measures to prevent future outbreaks.
- In the last year, I also concentrated on learning fish medicine and expanded the care offered to both fresh water and marine fishes. With the medical technologist, we have improved the techniques used in fish clinical and necropsy samples. I developed an anamnesis form for medical and necropsy fish cases. I established a network with leading aquariums to increase the quality of fish medicine practiced at the Denver Zoo.
- I had an active role when the General Enrichment Committee was reorganized. I was responsible for signing the veterinary input section of the enrichment request forms and sending food related requests to the nutritionist. I was co-chairman of the Primate Enrichment Subcommittee and was actively involved in reorganizing primate enrichment while the primate area was rebuilt. I spearheaded the behavioral conditioning of two medical cases (conditioning a lemur for cataract eye ointment treatment; conditioning a diabetic mandrill for injections and monitoring).
- I performed gross necropsies and cut in tissues on approximately 160 necropsy cases in 1995.
- I increased contact between the consulting nutritionist and the vet staff for more effective nutritional intervention.

1993 – 1995 Medical Department
Baltimore Zoo
Druid Hill Park
Baltimore, Maryland 21217
Associate Veterinarian

- Baltimore Zoo is a city zoo with 1,500 animals of 235 species. I was the primary clinical veterinarian in a 2- doctor department. I performed all aspects of

Zoological medicine and surgery on grounds and in a full – service hospital with endoscopy, laparoscopy, and ultrasound equipment.

- I managed the preventive medicine program including vaccinations, annual primate examinations, parasite monitoring, and quarantine. I was the primary supervisor for the quarantine facility and spearheaded a complete revision of the quarantine protocol. Additionally, I organized and monitored the postmortem results.
- My daily tasks included supervising 7 hospital employees (3 keepers, 2 technicians, and 2 support staff). I communicated with all levels of the zoo organization from keepers to the director. Veterinary student s'externs (4–6 per year) were exposed to zoo animal medicine and management under my guidance. I actively participated in the Animal Management Meetings where animal related issues were discussed between the director, curators, and veterinarians. At these meetings I also presented the postmortem reports to the curators.
- I assisted in ongoing research projects (avian malaria, reptilian cryptosporidiosis, Lion-tailed macaque IVF and AI, amphibian embryo cryopreservation).

I gave medical support to several conservation projects (Eastern Wood Rat Captive Propagation, Poison Dart Frog Propagation, Peregrine Project). Endangered birds of prey which were referred by the Department of Fish and Wildlife or the Maryland Department of Natural Resources were also treated at the zoo hospital.

1991 - 1993 Veterinary Services
San Diego Zoo
PO Box 551
San Diego, California 92112

Veterinary Resident

- I had an active role in the medical and surgical care for 3,900 animals of 800 species using endoscopy, ultrasonography, laparoscopy and standard zoological medicine techniques. My responsibilities included communication with keepers, curators, pathologists and researchers.
- Several months of the residency were spent at the San Diego Wild Animal Park expanding my knowledge of field anesthesia in a semi-free ranging environment.
- I participated in all aspects of the preventive medicine program including: annual primate examinations and Tb testing; quarantine and pre-shipment examinations; monthly Morbidity/ Mortality meetings between the vet staff, animal managers and curators; annual vaccinations; parasite monitoring program; weight control program; and dental prophylaxis and root canals. Additionally I performed laparoscopic sex determination of birds.
- Neonatal and nursery experience was obtained at the hoof stock nursery, small animal/ primate nursery, and the Avian Propagation Center.
- Bimonthly I spent a day with the pathology staff on the necropsy floor performing postmortem examinations and reviewing cytology slides from clinical cases.
- I was exposed to various conservation projects (California Condor Project, San
 Clemente Island Shrike Project, Bali Mynah repatriation, and California Big Horn Sheep project).
 - I supervised senior veterinary students on externships in clinical situations.

-

1988 – 1991 California Primate Research Center
University of California at Davis

Davis. California 95616

Veterinary Resident- Primate Medicine

- My role was to provide medical care for a colony of 3,500 primates of 5 species. Medical duties included diagnostic work-ups, nursery and ICU cases. Surgical duties included cesarean sections, embryectomies, amputations, and chronic catheter placement. When on the pathology rotation, I conducted necropsies.
- I participated in the preventive medicine program (such as TB testing, quarantine, annual examinations and monitoring morbidity trends) and supervising colony management projects such as a special diet program for weight loss/gain. I communicated with area supervisors and animal care technicians.
- Didactic experiences included delivering 2 one-hour classes each year in a primate medicine elective for junior veterinary students and presenting several seminars at the California Primate Research Center. I also supervised senior veterinary students in clinical situations. I performed 3 clinically based research projects in the first 2 years of my residency. During the third year, I completed a master s'degree in preventive veterinary medicine. Computer skills learned included word processing, spreadsheets, and statistical packages on IBM and Macintosh computers.

1986 - 1988 Aamerican Veterinary Hospital

Oak Park, Illinois 60304

Veterinarian

I was employed as a small animal veterinarian in a two-man full service practice. My responsibilities included examining client animals, monitoring hospitalized patients, staff supervision, record keeping, and performing emergency duty. I performed standard small animal surgical procedures (example spays, lumpectomies, splenectomies) with an emphasis on soft tissue surgeries. I was partially responsible for inventory and purchasing.

- Exotic pets comprised approximately 3% of the practice and included small mammals, avian and reptilian species.

1985 - 1986 Malarial Research Division

Hemotropic Disease Laboratory

University of Illinois at Champaign-Urbana

Urbana, Illinois 61801

Graduate Research Assistant

I maintained a 20–25 animal squirrel monkey colony on a daily basis. My duties included restraint, physical examinations, medicating and feeding. I also conducted procedures such as scaling and canine tooth extraction.

1984 - 1985 Emergency Clinical Pathology Staff

College of Veterinary Medicine

University of Illinois at Champaign-Urbana

Urbana, Illinois 61801 Laboratory Technician While employed as a clinical laboratory technician, I performed after-hours
 laboratory tests for the veterinary teaching hospital. Tests included complete blood counts,
 selected serum chemistries and electrolytes, and cross-matching.

1983 - 1985 Wildlife Ward

College of Veterinary Medicine

University of Illinois at Champaign-Urbana

Urbana, Illinois 61801

Ward Manager

The Wildlife Ward of the veterinary school treated native Illinoisan avian and mammalian species with an emphasis on raptors. I performed treatments, cleaning and feeding, selected rehabilitation work, and public presentations. Additionally, I trained volunteers and procured supplies and feeds.

1983 Small Mammal House

Brookfield Zoo

Brookfield, Illinois 60513 Intern Zoo Keeper

As a summer intern, my duties included maintaining indoor and outdoor exhibits,
 animal shifting, observations and feeding. I prepared food plates for insectivorous, omnivorous,
 carnivorous and frugivorous diets.

SPECIAL TRAINING:

Incubation Workshop 2011- SDZG and LAZ sponsored. Hands- on weeklong training on incubation, chick development, break-outs and keeping related documents.

IACUC 101: PRM&R and ARENA 2 day workshop on IACUC. Also attended rest of conference. March 14-15, 2005 Baltimore. MD

WEBINAR:

IACUC - AZA Academy, Webinar June 19, 2013. E.J. Bicknese. NP Training Works Webinars. (http://www.nptrainingworks.com/; NP Training Works, Suite 116, 3349 Monroe Avenue, Rochester NY 14618)

PUBLICATIONS:

Cerebral *Angiostrongylus cantonensis* in a captive African Pygmy falcon, *Polihierax semitorquatus*, in Southern California . R.E. Burns, E.J.Bicknese, Y.Qvarnstron et al. Journal of Veterinary Diagnostic Investigation. 2014 26(5) 695-98.

Tumoral Calcinosis Form of Hydroxyapatite Deposition Disease in Related Red-Bellied Short-Necked Turtles, Emydura subglobosa. R. E. Burns, E. J. Bicknese, J. L. Westropp, R. Shiraki and I. H. Stalis. *Vet Pathol* 2013 50(3): 443-450 originally published online 1 March 2013 DOI: 10.1177/0300985813480511

Kate Gustavsen, Beth Bicknese. ANATRICHOSOMIASIS in: Napier, J.E. and K. C. Gamble (eds). Infectious Diseases of Concern to Captive and Free Ranging Animals in North America, 1st ed. 2011. Infectious Disease Committee, American Association of Zoo Veterinarians, Yulee, Florida. 374 pp. Website address: http://www.aazv.org/displaycommon.cfm?an=1&subarticlenbr=754.

Conor P. Kilgallon, Beth Bicknese, and David A. Fagan. SUCCESSFUL TREATMENT OF CHRONIC PERIAPICAL OSTEOMYELITIS IN A PARMA WALLABY (MACROPUS PARMA) USING COMPREHENSIVE ENDODONTIC THERAPY WITH APICOECTOMY. In press for December 2010 publication in Journal of Zoo and Wildlife Medicine.

Elizabeth J. Bicknese, April L. Childress, James F.X. Wellehan Jr. A NOVEL HERPESVIRUS OF THE PROPOSED GENUS *CHELONIVIRUS* FROM AN ASYMPTOMATIC BOWSPRIT TORTOISE (*CHERSINA ANGULATA*.) Journal of Zoo and Wildlife Medicine 41(2): 353–58.2010.

Salmonella and Reptiles: Veterinary Guidelines. 2009. Journal of Herpetological Medicine and Surgery 19 (2): 36.

Salmonella and Reptiles: Client Education Handout. 2009. Journal of Herpetological Medicine and Surgery 19 (2): 37.

Donovan T.A., M.D. Schrenzel, T. Tucker, A.P. Pessier, B. Bicknese, M.D. Busch, A.G. Wise, R. Maes, M. Kiupel, C. McKnight, R.W. Nordhausen. 2009. Meningoencephalitis in a polar bear caused by equine herpesvirus 9 (EHV-9). Veterinary Pathology 46(6): 1138-43

E. J. Bicknese, J. W. George, D. H. Hird, J. Paul-Murphy, J. A. Anderson, and J. A. Roberts. 1993. Prevalence and Risk Factors for Iron Deficiency Anemia in Weanling Rhesus Macaques. Lab. Anim. Sci. 43 (5): 434-438

PAPERS PRESENTED AT SCIENTIFIC MEETING:

2011: The Challenges and Rewards of Conducting Research and Running and an IACUC in a Zoo Setting. Elizabeth Bicknese. Presented in the Charles C. Hunter Lecture, Special topics Section, of the 62nd American Association for Laboratory Animal Science.

2010:

Cryptococcal meningitis and optic neuritis in a Chinchilla (*Chinchilla lanigera*). Elizabeth Bicknese, Amanda White, Allan Pessier, and Geoff Pye. Presented at the Annual Conference of Association of Exotic Mammal Veterinarians (joint conference with AAV).

2009:

ITRACONAZOLE TREATED CANV (*Chrysosporium anamorph* of *Nannizziopsis vriesii*)
DERMATITIS IN GREEN ANACONDAS (*Eunectes murinus murinus*). Elizabeth J Bicknese.
Presented at the Annual Conference of Amphibian and Reptilian Veterinarians.

2008:

A NOVEL HERPESVIRUS OF THE PROPOSED GENUS *CHELONIVIRUS* FROM AN ASYMPTOMATIC BOWSPRIT TORTOISE (*Chersina Angulata*)

Elizabeth J. Bicknese^{1*}, James F.X. Wellehan Jr.², April L. Childress²; Presented at Annual Conference of Amphibian and Reptile Veterinarians.

SUCCESSFUL TREATMENT OF FUNGAL OSTEOMYELITIS IN A PARSON & CHAMELEON (CALUMMA PARSONII) USING SURGICAL AND ANTI-FUNGAL TREATMENTS. Elizabeth J. Bicknese, MPVM DVM¹, Allan Pessier, DVM, Dipl ACVP², and Nancy Boedeker, DVM² Presented at Annual Conference of Amphibian and Reptile Veterinarians.

A CYCLIC REGIMENT OF LOW-DOSE DOXYCYCLINE TO TREAT PERIODONTAL DISEASE IN A CHACOAN PECCARY (*Catagonus wagneri*), RED PANDAS (*Ailurus fulgens*), AND BAT-EARED FOXES (*Otocyon megalotis megalotis*)

Elizabeth J. Bicknese DVM, MPVM, ** David A. Fagan DDS, and Nadine Lamberski, DVM, Dipl. ACZM Presented at annual Conference of the American Association or Zoo Veterinarians

2005:

CHRONIC LOW-DOSE DOXYCYCLINE AS A TREATMENT FOR PERIODONTAL DISEASE IN PRIMATES. Elizabeth J. Bicknese DVM, MPVM ^{1*}, David A. Fagan DDS. Presented at annual Conference of the American Association or Zoo Veterinarians.

2002: E.J. Bicknese, D. A. Fagan. Low Dose Doxycycline Treatment to Control Periodontal Disease in Multiple Primate Species— a preliminary report. Presented at the 2002 Zoo Animal Dental Symposium in conjunction with the American Association of Zoo Veterinarians Annual Conference at Milwaukee, Wisconsin in October 2002.

1995 E. J. Bicknese and M. R. Cranfield. Cyanoacrylate Treatment for Corneal Ulcers in Kokoe-Pa Poison Dart Frogs (<u>Dendrobates histrionicus</u>). Presented at the 2nd Annual Conference of the Association of Reptilian and Amphibian Veterinarians at Sacramento, California in October, 1995.

1993 M. R. Cranfield and E. J. Bicknese. The Identification and Evaluation of Disease within species with a designated Species Survival Plan. Presented at the American Association of Zoo Veterinarians Annual Conference at St. Louis, Missouri in October, 1993.

1993 E. J. Bicknese. Review of Avian Sarcocystosis. Presented at the Association of Avian Veterinarians Annual Conference at Nashville, Tennessee in August, 1993.

- 1992 E. J. Bicknese, R. D. Murrnane, B. A. Rideout, R. M. Bunte, and L. A. Miller. A Pathologic Muscular Form of <u>Sarcocystitis</u> in Two Species of Exotic Columbiformes. Presented at the American Association of Zoo Veterinarians Annual Conference at Oakland, California in November, 1992.
- 1992 E. J. Bicknese, J. W. George, D. H. Hird, J. Paul-Murphy, J. A. Anderson, and J. R. Roberts. Prevalence and Risk Factors for Iron Deficiency Anemia in Weanling Rhesus Macaques. Presented at the Student Manuscript Competition of the American Association of Zoo Veterinarians Annual Conference at Oakland, California in November, 1992.
- 1989 E. J. Bicknese, P. H. Eiselle, J. W. George. Psychogenic Polydipsia in Individually Housed Adult Rhesus Macaques (<u>Macaca mulatta</u>). Presented at the 40th Annual Conference of the American Association of Laboratory Animal Science at Little Rock, Arkansas in August 1989.
- 1989 L. G. Doyle, E. J. Bicknese, J. Markovits, and J. R. Roberts. Microcytic Anemia Associated with Multiple Intestinal Carcinomas in an Aged Rhesus Macaque (Macaca mulatta). Presented at the 40th Annual Conference of the American Association of Laboratory Animal Science at Little Rock, Arkansas in August, 1989.
- 1989 E. J. Bicknese, J. A. Anderson. and P. H. Eiselle. Epidemiology of Lameness in Ascorbic Acid Deficient Juvenile Rhesus Macaques (<u>Macaca mulatta</u>). Presented at the 17th Annual Association of Primate Veterinarians Workshop at Mobile, Alabama in August, 1989 and at the American Association of Zoo Veterinarians Annual Conference at Greensboro, North Carolina in October, 1989.

POSTERS PRESENTED AT SCIENTIFIC MEETINGS:

- 2013 E. J. Bicknese, Megan EB Jones. Gastric Pneumatosis in a Bengal Slow Loris (*Nycticebus coucang bengalensis*). Presented at the American Association of Zoo Veterinarians annual conference at Salt Lake City. October 2013. P 156–7.
- 1990 E. J. Bicknese, Rhabdomyolysis in Macaques. Presented at the American Association of Zoo Veterinarians Annual Conference at South Padre Island, Texas in October, 1990.

INVITED PRESENTATIONS:

- 1996 E. J. Bicknese. Non Infectious Primate Diseases. Presented at the First Annual Exotic Animal Symposium for the Wildlife and Zoological Medicine Society of Colorado State University Veterinary School at Fort Collins, Colorado in March, 1996.
- 1992 E. J. Bicknese. Monitoring of the Critical Care Neonate. Presented at the Zoological Society of San Diego Biannual Nondomestic Neonatal Husbandry and Medicinal Care Symposium at San Diego, California in September, 1992.

Meg Sutherland-Smith Director, Veterinary Services, San Diego Zoo San Diego Wildlife Alliance 619-685-3266 msutherlan@sdzwa.org

WORK EXPERIENCE:

- Rotating Small Animal Internship at the Animal Medical Center in Manhattan, New York. July 1989-July 1990
- Zoological Medicine Residency, San Diego Zoo, San Diego, California. August 1990-August 1992
- Associate Veterinarian, San Diego Zoo, San Diego, California. September 1992-September 2004
- Senior Veterinarian, San Diego Zoo, San Diego, California. September 2004-September 2006
- Veterinary Clinical Operations Manager, San Diego Zoo, San Diego, California. September 2006-September 2011
- Associate Director of Veterinary Services, San Diego Zoo, San Diego, California. September 2011-August 2018
- Director of Veterinary Services, San Diego Zoo, San Diego, California. August 2018 present

EDUCATION:

- Bachelor's in Arts and Sciences, Virginia Tech, 1982
- Master's in Biochemistry, North Carolina State University, 1986
- Doctorate in Veterinary Medicine, North Carolina State University, 1989

CERTIFICATIONS:

• Diplomate of the American College of Zoological Medicine, 2005

CONSERVATION/FIELD PROJECTS:

- China, captive giant pandas
- Paraguay, tagua
- Peru, Andean bear
- California, USA, San Clemente Island loggerhead shrike

PROFESSIONAL ORGANIZATIONS:

- American Veterinary Medical Association
- American Association of Zoo Veterinarians

Secretary, 2011-2012

Vice-President, 2012-2013

President-Elect, 2013-2014

President, 2014-2015

- Association of Avian Veterinarians
- Association of Reptile and Amphibian Veterinarians
- European Association of Zoo Veterinarians
- Association of Zoos and Aquariums

PUBLICATIONS:

• Available upon request

Matt Marinkovich, DVM, DACZM

mmarinkovich@sdzwa.org

San Diego, CA 92014

POST-GRADUATE EDUCATION

University of California, Davis/San Diego Zoo Global

Resident in Zoological Medicine, July 2017 – July 2019

- Intensive clinical residency in zoological medicine. Year 1 based out of the Sacramento Zoo, UC Davis School of Veterinary Medicine, the Marine Mammal Center, and California National Primate Research Center. Year 2 based out of the San Diego Zoo. Year 3 at Sea World San Diego, Sea World San Diego Hubbs Research Institute, and the San Diego Zoo Safari Park.
- Served as veterinary representative for San Diego Zoo Global's response to confiscation of >10,000 confiscated endangered radiated tortoises in Madagascar (2018). Performed triage and emergency treatments over 2 week period.
- Performed on-site health assessments, medical care, and pre-release exams for endangered Hawaiian forest birds at breeding centers on Maui and the big island of Hawaii (2019).
- Completed the San Diego Zoo Global Evidence Based Animal Welfare Course (2018).
- Attended the San Diego Zoo Global Egg Incubation Workshop (2018).

The Animal Medical Center, New York, NY

Specialty Intern in Emergency and Critical Care, June 2015 – June 2016

- Intensive specialty internship under the guidance of three board-certified criticalists
- Supervised rotating interns in the emergency room setting and oversaw critical cases in a high volume ICU responsibilities identical to first year Critical Care resident
- Acted as primary clinician on after-hour exotics emergencies
- Participated in regular teaching rounds and journal club with both Exotics and Critical Care departments.

The Animal Medical Center, New York, NY

Intern in General Medicine and Surgery, June 2014 – June 2015

• Rotating clinical training program in emergency, medicine, and surgical specialties

EDUCATION

Cornell University College of Veterinary Medicine, Ithaca, NY

Doctor of Veterinary Medicine, May 2014

Westmont College, Santa Barbara, CA

Bachelor of Science, cum laude, in Biology, May 2007

PUBLICATIONS

- <u>Marinkovich M</u>, Wisner ER, Brenner DJ. Distal limb swelling and periosteal productive reaction in periparturient Sichian takin (*Budorcas taxicolor tibetana*): five cases of presumptive hypertrophic osteopathy. J Zoo Wildl Med. 2019:50(2);437-446. Abstract presented at AAZV 2018 in Prague, CZ.
- Marinkovich M, Wack RF, Field CL, Whoriskey ST, Kass PH, Gjeltema J. Evaluation of serial blood lactate and evaluation of a point-of-care lactate meter in live-stranded pinnipeds. J Zoo Wildl Med. 2019:50(1);137-146. Abstract presented at IAAAM 2018 in Long Beach, CA.
- <u>Marinkovich M</u>, Sanchez-Migallon Guzman D, Hawkins M, Gleeson M, Chou PY. Open reduction and stabilization of a luxated coxofemoral joint in a domestic rabbit (*Oryctolagus cuniculus*) using a toggle-pin fixation. J Exot Pet Med. 2019:30(1);43-49.

- Marinkovich M, Quesenberry K, Donovan T, Le Roux A. Use of a standing computed tomography scan to aid in the diagnosis of a primary respiratory adenocarcinoma in a scarlet macaw (*Ara macao*). J Exot Pet Med. 2017:26(2);101-107. Abstract presented at AAZV 2015 in Portland, OR.
- Marinkovich M, Wallace C, Morris P, Rideout B, Pye G. Lessons from a retrospective analysis of a five-year period of pre-shipment testing at San Diego Zoo: a risk-based approach to pre-shipment testing may benefit animal welfare. J Zoo Wildl Med. 2016:47(1);297-300.
- Wallace C, <u>Marinkovich M</u>, Morris PJ, Rideout B, Pye G. Lessons from a retrospective analysis of a five-year period of quarantine at San Diego Zoo: a risk-based approach to quarantine isolation and testing may benefit animal welfare. J Zoo Wildl Med. 2016:47(1);291-296.
- Siniard WC, Sheley MF, Stevens BN, Parker-Graham CA, Roy MA, Watson KD, <u>Marinkovich MJ</u>. Robertson JA, Frei S, Soto E. Immunohistochemical analysis of pigment cell tumors in two cyprinid species (*Cyprinus carpio* and *Carassius auratus*). Accepted to the Journal of Veterinary Diagnostic Investigation.

MISCELLANEOUS RESEARCH

- Pye G, Wallace C, <u>Marinkovich M</u>, Morris P, Rideout B, *Institutional Risk Analysis: A Smarter Basis for Pre-shipment Testing and Quarantine Elimination?* Abstract presented by Dr. Geoffrey Pye at AAZV 2014 in Orlando, FL.
- Bliss TN, Marinkovich MJ, Burns RE, Clancy MM, Howard LH. Comparison of diagnostics predictors of neonatal viability in nondomestic caprinae at the San Diego Zoo and the San Diego Zoo Safari Park. Poster presented at AAZV 2019 in St. Louis, MO.
- Raphael BL, Andriamihajarivo MA, Bartlett SL, Conley KJ, Innis CJ, Koplos PM, Leach KS,
 O'Connor MR, Marinkovich MJ, Nielsen A, Perry SM, Rakotoarisoa NAT, Ramsay EC, Rosenberg
 JF, Shaw SD. The Turtle Survival Alliance (TSA) response to the confiscation of a large group of
 radiated tortoises (*Astrochelys radiata*) in Madagascar in 2018. Abstract presented at the 16th
 Annual Symposium on the Conservation and Biology of Tortoises and Freshwater Turtles (2018).

AWARDS

- Phi Zeta Veterinary Honor Society, Alpha Chapter, CUCVM, 2014
- The Daphne Award, *CUCVM*, 2014

 "This award was established to recognize clinical proficiency and assist new graduates beginning a career in a practice setting. It is awarded to a small number of graduating students who exemplify excellence in the practice of veterinary medicine; whose knowledge, professional skills, compassion, and high standards of patient care promise to advance a legacy of excellence throughout their professional careers."
- Isidor I. Sprecker Wildlife Medicine Award, CUCVM, 2013

EXPERIENCE

San Diego Zoo Wildlife Alliance, San Diego, California *Clinical Veterinarian*, February 2020 – Present

American College of Zoological Medicine *Diplomate*, October 2020 - Present

Cora L. Singleton, DVM, DACZM

San Diego, CA 92115 • csingleton@sdzwa.org

EDUCATION & VETERINARY TRAINING

| Board Certified Specialist in Zoological Medicine American College of Zoological Medicine | 2018 |
|--|-----------|
| Master of Public Health - Epidemiology San Diego State University Global Campus | 2022-2024 |
| Resident in Zoological Medicine University of California – Davis, Sacramento Zoo, San Diego Zoo, San Diego Wild Animal Park, SeaWorld San Diego | 2003-2006 |
| Internship in Zoological Medicine Indianapolis Zoo, Indianapolis, IN | 2002-2003 |
| Internship in Small Animal Medicine and Surgery Veterinary Specialists of South Florida, Cooper City, FL | 2001-2002 |
| Doctor of Veterinary Medicine University of Wisconsin School of Veterinary Medicine, Madison, WI | 1997-2001 |
| Bachelor of Science, Wildlife Ecology University of Wisconsin, Madison, WI | 1990-1997 |

VETERINARY EMPLOYMENT

Senior VeterinarianSep 16 – presentAssociate VeterinarianSep 14 – Sep 16

San Diego Zoo, San Diego Zoo Wildlife Alliance, San Diego, CA

Member of a team of six full-time veterinarians providing veterinary services to the San Diego Zoo.

Clinical Medicine

- · Preventive, regulatory, critical care, and emergency medicine in inpatient and outpatient settings
- Advanced diagnostic imaging computed tomography superuser
- Routine and emergency surgical procedures
- Basic endodontics

Collection Health

- Disease investigations yellow-footed rock wallaby urolithiasis, Speke's gazelle neonatal morbidity and mortality, koala mortality, koala retrovirus infection and disease manifestation, lesser kudu vitamin E deficiency, red ruffed lemur toxoplasmosis
- Aging animal care primate osteoarthritis grading, aging animal assessments

Regulatory Medicine

- Animal Transactions
 - o Medical oversight of mammal acquisitions and dispositions
 - Revise and update preshipment testing requests
 - Employ risk-based quarantine process to optimize resource investment, improve animal welfare, and minimize risk to individual animals and larger collection
- DEA (Drug Enforcement Agency) licensee
 - o Maintain license to facilitate controlled substance ordering
 - Perform controlled substances inventory
- USDA Accreditation

Liaison Roles

- Marsupial health liaison
 - o Maintain working knowledge of health status of all marsupials
 - Complete annual medical reports for Australian government
- Neonatal Assisted Care Unit liaison
 - o Facilitate difficult transition of unit between departments

- Coach individuals in behavioral standards and change adaptation
- Pharmacy liaison
 - Evaluate and reduce on-site drug stock, based on drug usage and expiration
 - Develop system to prevent untracked future expansion of drug stock

Research Support

- Institutional Animal Care and Use Committee (IACUC) member
 - Evaluate and approve research protocols
 - Inspect facilities
 - o Created field anesthesia and euthanasia guidelines
- Biomaterials Request Group (BRG) approver
 - o Evaluate and approve biomaterials requests

Conservation Support

- Koala Education and Conservation Program Veterinary Advisor
 - Train veterinarians new to caring for koalas on loan from San Diego Zoo
 - Consult on koala medical cases at other institutions
 - Assist with creation of annual report distributed to holding facilities
- SDZWA Conservation Hubs
 - o Australian Forests co-leader (2022-2024)
 - Amazonia member veterinary consultation with two animal sanctuaries in Peru (2021)
- Koala Retrovirus Symposium (May 2021)
 - o Symposium Planning Committee member (2019-2021)
 - o Proceedings co-editor (2022)

Associate Veterinarian Apr 09 – Sep 14

Riverbanks Zoo and Garden, Columbia, SC

Member of a team of two full-time veterinarians providing veterinary services to the Riverbanks Zoo, with a collection size of approximately 2000 vertebrates, which consists of 45% fish, 26% reptiles, 14% birds, 8% amphibians, and 7% mammals. Clinical caseload approximately 40% mammals, 40% birds, 10% reptiles and amphibians, and 10% fish.

Clinical Responsibilities

- Provide preventive and emergency medical and surgical services for collection animals
- Provide medical and surgical care for injured free-ranging raptors
- Coordinate medical aspects of animal shipments
- Perform necropsy examinations, evaluate pathology trends
- Evaluate animal diets and implement changes

Conservation Contributions

Field Veterinarian, Bezá Mahafaly Lemur Biology Project, Madagascar

2010, 2011, 2012

2012, 2013

- o Secure grant funding to conduct independent research projects
- Organize, order, and transport medical supplies internationally
- Anesthetize and capture free-ranging ring-tailed lemurs
- o Perform health exams, collect and analyze biological samples, and evaluate data
- Riverbanks Zoo Conservation Support Fund

o Member of team that reviews and evaluates applications for small conservation grants

Zoo Veterinarian II Aug 06 – Apr 09

Los Angeles Zoo, Los Angeles, CA

Member of a team of five full-time and two part-time veterinarians providing veterinary services to the Los Angeles Zoo and clinical instruction to veterinary students at the Western University of Health Sciences.

Clinical Responsibilities

- Provide preventive and emergency medical and surgical services for collection animals
- Coordinate medical aspects of domestic and international animal shipments, including CDC primate quarantine
- Perform necropsy examination, evaluate pathology trends

Conservation Contributions

- California Condor Recovery Program
 - o Provide routine and emergency veterinary care for captive and free-flying California condors

- Conduct health evaluations of wild-hatched chicks at the nest sites
- Peninsular Pronghorn Recovery Project
 - o Collaborate with three other zoos to provide medical care for semi-captive herd and nursery facility
 - Conduct disease surveillance of pronghorn prior to translocation
 - Anesthetize and translocate adult pronghorn between management sites

Clinical Teaching

- Western University third year veterinary student rotation
 - Six students rotating every two weeks for mandatory exposure to zoological medicine
 - Mentor students as individuals and in groups in problem-based learning format
- Fourth year veterinary students
 - o Domestic and international students and recent veterinary graduates
 - o Provide instruction in comparative clinical techniques, medicine, and surgery

Adjunct Faculty Aug 06 – Apr 09

Western University of Health Sciences, Pomona, CA

Relief Veterinarian Jan 06 – Aug 06

Los Angeles Zoo, Los Angeles, CA

Provide periodic solo weekend coverage during time of staff shortage.

- Responsible for medical and surgical care of animals in emergency situations and continuing care of animals with chronic illness
- Communicate with other staff and relief veterinarians to ensure continuity of care
- Perform necropsy examinations

MENTORSHIP & SUPERVISORY EXPERIENCE

Mentorship

- Senior veterinary students performance reviews, mentor several student projects
- Zoological Medicine residents (two) performance reviews, coaching

Supervisory

- Temporary direct supervision of five employees
 - Neonatal Assisted Care specialists (four)
 - Hospital Attendant (one)
- Conduct performance reviews
- Coach NACU team through departmental transfer

PUBLICATIONS – PEER-REVIEWED

Browning GR, **Singleton C**, Gibson D, Stalis IH. Outcomes of transplacental transmission of *Toxoplasma gondii* from chronically infected female red ruffed lemurs (*Varecia rubra*). *Journal of Zoo and Wildlife Medicine* 2021; 52(3): 1036-1041.

Thurber MI, **Singleton C,** Cray C. Reference intervals for acute phase proteins for koalas (*Phascolarctos cinereus*) at the San Diego Zoo. *Journal of Zoo and Wildlife Medicine* 2019; 50(3): 735-738.

Singleton CL, Sauther ML, Cuozzo FP, Jacky IAY. Age-related changes in hematology and blood biochemistry values in endangered, wild ring tail lemurs (*Lemur catta*) at the Bezà Mahafaly Special Reserve, Madagascar. *Journal of Zoo and Wildlife Medicine* 2018; 49(1): 30-47.

Singleton C, Norris A, Sauther ML, Cuozzo FP, Jacky Youssouf IA. Ring-tailed lemur (*Lemur catta*) health parameters across two habitats with varied levels of human disturbance at the Bezà Mahafaly Special Reserve, Madagascar. *Folia Primatologica* 2015; 86(1-2): 56-65.

Singleton C, Larsen RS, Wack R. Bacteriologic and nutritional evaluation of a commercial raw meat diet as part of a raw meat safety program. *Zoo Biology* 2012; 31(5): 574-585.

Singleton C, Oosterhuis J, Seibold K, Lamberski N. Successful treatment of a venomous snakebite in a caracal (*Caracal caracal*). *Journal of Zoo and Wildlife Medicine* 2009; 40(2):378-381.

Singleton C, Wack R, Zabka T, Kent M, Larsen RS. Diagnosis and treatment of T-lymphocytic leukemia in a spotted hyena (*Crocuta crocuta*). *Journal of Zoo and Wildlife Medicine* 2007; 38(3): 488-491.

PUBLICATIONS – NON-PEER-REVIEWED

Cuozzo F, Sauther M, **Singleton C**. Interpreting the paleopathology of *Darwinius masillae*: A reply to Franzen et al. 2013. *Palaeobiodiversity and Palaeoenvironments* 2013; 93(3): 385-387.

Singleton C. 2013, 2020. Infectious Diseases of Concern to Captive and Free Ranging Animals in North America, 2nd ed. Gamble KC and MM Clancy (eds). Infectious Disease Committee, American Association of Zoo Veterinarians, Yulee, Florida. 614 p. https://www.aazv.org/page/754?&hhsearchterms=%22infectious+and+disease+and+manual%22

- a. African Swine Fever
- b. Classic Swine Fever
- c. Erysipelas
- d. Porcine Brucellosis
- e. Swine Vesicular Disease
- f. Vesicular Exanthema of Swine
- g. Vesicular Stomatitis

Singleton C. Use of Unpasteurized Honey as a Topical Wound Dressing. *Journal of the Elephant Managers Association* 2004; 15(2): 20-23.

Singleton C, Ramer J, Proudfoot J. Use of unpasteurized honey to treat a deep, infected wound in an African elephant (*Loxodonta africana*). *Journal of the Elephant Managers Association* 2004; 15(2): 15-18.

INVITED PRESENTATIONS – ORAL

Winter JM, Corner S, **Singleton CL**. Causes of mortality of Andean bears (*Tremarctos ornatus*) in zoological institutions. In proceedings, American Association of Zoo Veterinarians, 2021.

Singleton CL, Stadler CK, Philis-Tsimidas A, Sharipov H, Gaffney PM. Use of a continuous glucose monitor to aid in management of insulin-dependent diabetes mellitus in a koala (*Phascolarctos cinereus*). In proceedings, American Association of Zoo Veterinarians, 2019.

Golembeski M, Stacy NI, Rideout B, **Singleton C**. Fatal nonregenerative anemia in retroviral-infected koalas (*Phascolarctos cinereus*): a possible sequela with characteristic clinical manifestation. In proceedings, American Association of Zoo Veterinarians, 2019.

Furst EA, Dennison S, **Singleton C**. Spinal osteoarthritis in geriatric primates: a proposed radiological scoring system. In proceedings, American Association of Zoo Veterinarians, 2019.

Singleton C, Mulot B, Rideout B. Retrospective review of mortality in Queensland koala (*Phascolarctos cinereus*) in zoological facilities in North America (1976–2016) and Europe (1987–2017). In proceedings, American Association of Zoo Veterinarians, 2018.

Singleton C, Norris A, Sauther M, Cuozzo F, Jacky I. Age-related changes in hematology, plasma biochemistry, and urinalysis values in endangered, wild ring-tailed lemurs (*Lemur catta*) at the Beza Mahafaly Special Reserve, Madagascar. In Proceedings, American Association of Zoo Veterinarians, 2012.

Singleton C, Sykes J, Eng C, Krieger M. Dorsal laminectomy for removal of a cavernous angioma in an emperor tamarin (*Sanguinus imperatus*). In Proceedings, American Association of Zoo Veterinarians, 2008.

Singleton C, Morris P. Survey of foot problems in a collection of captive exotic swine. In Proceedings, American Association of Zoo Veterinarians, 2006.

Singleton C, Larsen RS, Wack R. Nutritional and bacteriologic evaluation of a commercial raw meat product. In Proceedings, Veterinary Medical Teaching Hospital House Officer Seminar Day, UC Davis, CA, 2006.

Singleton C, Larsen RS, Wack R. Nutritional and bacteriologic evaluation as part of a raw meat quality control program. In Proceedings, American Association of Zoo Veterinarians, 2005.

Singleton C, Nichols D, Montali D. Poxvirus infection in captive European red tree squirrels (*Sciurus vulgaris*). In Proceedings, American Association of Zoo Veterinarians Pathology Workshop, 1999.

INVITED PRESENTATIONS – POSTER

Freeman ME, Dennison S, **Singleton CL**. A proposed radiological scoring system for shoulder and elbow osteoarthritis in geriatric nonhuman primates. In proceedings, American Association of Zoo Veterinarians, 2019.

King-Smith M, Dennison S, **Singleton CL.** A proposed radiological scoring system for osteoarthritis in the hips and knees of nonhuman primates. In proceedings, American Association of Zoo Veterinarians, 2019.

Singleton C, Sutherland-Smith M, Bicknese E, Nevitt, B, Schlegel M. Clinical and nutritional investigation into urolithiasis in yellow-footed rock wallabies (*Petrogale xanthopus*). In Proceedings, Wildlife Disease Association, 2015.

Singleton C, Norris A, Sauther M, Cuozzo F, Jacky I. Age and habitat effects on hematology, plasma biochemistry, and urinalysis values in endangered, wild ring-tailed lemurs (*Lemur catta*) at the Beza Mahafaly Special Reserve, Madagascar. In Proceedings, American Association of Physical Anthropologists, 2014.

Singleton C, Norris A, Sauther M, Cuozzo F, Jacky I. Evaluation of three test kits for the manual counting of leukocytes in whole blood in wild and captive ring-tailed lemurs (*Lemur catta*). In Proceedings, American Association of Zoo Veterinarians, 2012.

Singleton C, Larsen RS, Wack R. Use of oral hypoglycemic drugs for the management of type II diabetes mellitus in prosimians. In Proceedings, American Association of Zoo Veterinarians, 2006.

Singleton C, Ramer J, Proudfoot J. Use of unpasteurized honey to treat a deep, infected wound in an African elephant (*Loxodonta africana*). In Proceedings, American Association of Zoo Veterinarians, 2004.

GRANTS RECEIVED

| Cytological Characterization of Blood and Bone Marrow and Association with Koala Retrovirus Infection in Koalas (<i>Phascolarctos cinereus</i>) in the Wild and at San Diego Zoo • Collection Health Research Initiation Fund, San Diego Zoo. \$4100 (full amount requested) | 2019 |
|--|------|
| Clinical and Nutritional Investigation into Urolithiasis in Yellow-footed Rock Wallabies (<i>Petrogale xanthopus</i>) • Collection Health Research Initiation Fund, San Diego Zoo. \$7764 (full amount requested) | 2015 |
| A Comparison of Health Parameters of Endangered, Wild Ring-tailed Lemurs (<i>Lemur catta</i>) across Two Habitats and with Varied Levels of Human Disturbance at the Beza Mahafaly Special Reserve, Madagascar • American Society of Primatologists. \$800 (\$1500 requested) • Riverbanks Zoo Conservation Support Fund. \$4354 (full amount requested) | 2012 |
| Comparison of White Blood Cell Count Tests in Wild Ring-tailed Lemurs (<i>Lemur catta</i>) • Riverbanks Zoo Conservation Support Fund. \$940 (full amount requested) | 2011 |
| Evaluation of Urine Parameters in Wild Ring-tailed Lemurs (<i>Lemur catta</i>) Riverbanks Zoo Conservation Support Fund. \$5000 (full amount requested) | 2011 |
| Nutritional and Bacteriologic Evaluation of a Commercial Raw Meat Diet Columbus Zoo and Aquarium Conservation Fund. \$1445 (full amount requested) | 2004 |

PROFESSIONAL MEMBERSHIPS

American College of Zoological Medicine

• Diplomat status 2018 – present

American Association of Zoo Veterinarians

• Infectious Disease Committee member

2010 - present

| Confer | ence Poster Session Chair | 2009 |
|------------------------------|--|----------------|
| Strateg | ric Planning Committee participant | 2009 |
| Association of Z | oos and Aquariums | |
| Accred | itation Inspector, in training | 2022 – present |
| Vetering | nary Advisory Group | |
| 0 | Andean Bear Species Survival Plan – Veterinary Co-advisor | 2020 – present |
| 0 | Koala Species Survival Plan – Veterinary Advisor | 2014 – present |
| 0 | Monotreme and Marsupial Taxon Advisory Group – Veterinary Co-advisor | 2014 – present |
| 0 | Wild Pig, Peccary and Hippo Taxon Advisory Group – Veterinary Co-advisor | 2008 – present |
| | | |

Wildlife Disease Association

- Veterinary Section member
- Australasia Section member

American Veterinary Medical Association

VETERINARY LICENSURE

Veterinary Medical Licensure – California
National Veterinary Accreditation Program – active Category II veterinary accreditation
Drug Enforcement Administration – active controlled substance registration certificate

BENJAMIN NEVITT, DVM, DACZM

| San Diego, CA 92123 | |
|--|---|
| EDUCATION University of Illinois, College of Veterinary Medicine, Graduate student with course work focusing on statistics, epidemiology advanced topics in zoologic medicine. | Chicago, IL 2011-2014 |
| University of Florida, College of Veterinary Medicine Doctor of Veterinary Medicine | Gainesville, FL 2005-2009 |
| Washington University in St. Louis Bachelor of Arts and Sciences in Biology | St. Louis, MO 2001-2005 |
| EMPLOYMENT: San Diego Zoo, San Diego Zoo Wildlife Alliance Associate Veterinarian Senior Veterinarian Veterinary Clinical Operations Manager Special skills: Computed tomography, laparoscopic surgery, en Matter Expert | San Diego, CA 2014-2020 2020-2022 2022-present adoscopy, ZIMS Subject |
| Illinois Zoological and Aquatic Animal Residency, University of Illinois, College of Veterinary Medicine, Chicago Zoological Society (Brookfield Zoo) and John G. Shedd Aqua | Chicago, IL 2011-2014 arium |
| Denver Zoo Relief veterinarian | Denver, CO Spring 2011 |
| Colorado State University, College of Veterinary Medicine Internship in Exotics and Zoological Medicine | Fort Collins, CO 2010-2011 |
| Iowa State University, College of Veterinary Medicine Rotating Internship in Small Animal Medicine | Ames, IA 2009-2010 |
| MEMBERSHIPS AND COMMITTEES: Penguin TAG Veterinary Advisor Group | 2020-Present |
| American College of Zoo Medicine, Diplomate | 2017-Present |
| American Association of Zoo Veterinarians, Member AAZV nominating committee member 2022 AAZV conference session chair, Mammals II | 2011-Present 2018-2022 Oct 2021 |
| American Veterinary Medical Association, Member | 2014-Present |
| Association of American Reptile and Amphibian Veterinarians, Member | 2014-Present |
| International Association for Aquatic Animal Medicine, Member | 2016-Present |

FIELD WORK AND CONSERVATION EXPERIENCE:

| Desert Tortoise Recovery Program, San Diego Zoo, Veterinary advisor | 2017-Present |
|---|--------------|
| San Clemente Loggerhead Shrike Breeding Program, San Clemente Island, | 2016-Present |
| Veterinary advisor | |

BENJAMIN NEVITT, DVM, DACZM

African Penguins, Southern African Foundation for the Conservation of

Nov 2017, Apr 2018

Coastal Birds (SANCCOB), Veterinary support

Current research: Comparison of Polymerase Chain Reaction to Blood Smear Microscopic Evaluation for Detection of Haemosporidian in African Penguins (Spheniscus demersus) Under Rehabilitation.

Palawan Forest Turtle Confiscation, Palawan, Philippines

Jun 2015

Veterinary assistance with confiscation of ~3.800 critically endangered Palawan forest turtles

PEER-REVIEWED PUBLICATIONS:

Nevitt BN, Langan JN, Adkesson MJ, Delaney MA, Rubin DA, Muhlbauer MC, Colegrove-Calvey KM. Multifocal Cryptococcus neoformans var. neoforms: Infection, treatment, and monitoring by serial computed tomography in a Schmidt's red-tailed guenon (Cercopithecus ascanius schmidti). Journal of Zoo and Wildlife Medicine 44(3): 728–736, 2013.

Nevitt BN, Langan JN, Adkesson MJ, Drees R. Comparison of air sac volume, lung volume, and air sac density in awake and anesthetized Humboldt penguins (Spheniscus humboldti) positioned in ventral, dorsal, and right lateral recumbency using computed tomography. American Journal of Veterinary Research 75(8): 739-745, 2014.

Nevitt BN, Langan JN, Adkesson MJ, Wilson R. Diagnosis, treatment, and monitoring of chronic lymphocytic leukemia in a bat-eared fox (Otocyon megalotis). Journal of the American Veterinary Medical Association 245(12): 1391-1395, 2014.

Nevitt BN, Robinson N, Kratz G, Johnston M. Effectiveness of physical therapy as an adjunctive treatment for trauma-induced chronic torticollis in raptors. Journal of Avian Medicine and Surgery 29(1): 30-39, 2015.

Nevitt BN, Chinnadurai SK, Langan JN, Flower JE, Adkesson MJ. Prothrombin time and activated partial thromboplastin time using a point-of-care analyser (Abaxis VSpro®) in Bennett's wallabies (Macropus rufogriseus). Australian Veterinary Journal 94(10): 384-386, 2016.

Nevitt BN, Langan JN, Adkesson MJ, Jankowski G, West PG. Lumbar hemilaminectomy for treatment of discospondylitis in an aardvark (Orycteropus afer). Journal of the American Veterinary Medical Association 252(4): 464-472, 2018.

Nevitt BN, Naples LM, Poll CP, Mitchell MA. Evaluation of a portable chemistry analyzer for measurement of serum chemistry panels in beluga whales (Delphinapterus leucas). In preparation.

Kane LP, Langan JN, Adkesson MJ, Chinnadurai SK, Nevitt BN, Drees R. Successful treatment of mandibular osteomyelitis in two red-necked wallabies (Macropus rufogriseus) using long-term intensive pharmaceutical therapy and serial monitoring by computed tomography imaging. Journal of the American Veterinary Medical Association 251(9): 1070-1077, 2017.

Weeks JM, Langan JN, Gelb H, Nevitt BN, Corner S, Adkesson MJ Syringomyelia in the thoracolumbar spinal cord of an african wild dog (Lycaon pictus). Biomed J Sci and Tech Res 1(5), 2017.

Flower JE, Langan JN, Nevitt BN, Chinnadurai SK, Stacey R, Ivančić M, Adkesson MJ. Neonatal Critical Care and Hand-Rearing of a Bottlenose Dolphin (Tursiops truncatus) Calf. Aquatic Mammals *44(5)*: *482-490*, *2018*.

PRESENTATIONS WITH PUBLISHED ABSTRACTS:

Nevitt BN, Lamberski N. Vaccination of great apes at San Diego Zoo with experimental SARS-CoV-2 veterinary vaccine: Preliminary safety and titers. Proceedings of the 53rd Annual American Association of Zoo Veterinarians Conference. Virtual. 2021.

BENJAMIN NEVITT, DVM, DACZM

Nevitt BN, Kinney M, Morris P. Selection, acquisition, and incorporation of a portable computed tomography unit into two zoologic medical practices: pros, cons, and associated costs. Proceedings of the 51st Annual American Association of Zoo Veterinarians Conference. St. Louis, MO. 2019.

Nevitt BN, Johnson SP, Adkesson MJ, Naples LM, Van Bonn WG. Evaluation of alfaxalone-midazolam for sedation and anesthetic induction in California sea lions (*Zalophus californianus*) in a rehabilitation center. Proceedings of the 46th Annual International Association for Aquatic Animal Medicine Conference. Chicago, IL. 2015.

Flower JE, Langan JN, Chinnadurai S, **Nevitt BN**, Stacey R, Adkesson MJ. Neonatal critical care and hand-rearing of a bottlenose dolphin calf (*Tursiops truncatus*). Proceedings of the 46th Annual International Association for Aquatic Animal Medicine Conference. Chicago, IL. 2015.

Nevitt BN, Johnson SP, Adkesson MJ, Naples LM, Van Bonn WG. Evaluation of alfaxalone-midazolam for sedation and anesthetic induction in California sea lions (*Zalophus californianus*) in a rehabilitation center. Proceedings of the 46th Annual American Association of Zoo Veterinarians Conference. Orlando, FL. 2014.

Flower JE, Langan JN, Chinnadurai S, **Nevitt BN**, Stacey R, Adkesson MJ.Neonatal critical care and hand-rearing of a bottlenose dolphin calf (*Tursiops truncatus*). Proceedings of the 46th Annual American Association of Zoo Veterinarians Conference. Orlando, FL. 2014.

Kane L, Langan JN, Adkesson M, Chinnadurai S, **Nevitt BN**, Drees R. Successful treatment of mandibular osteomyelitis in two red-necked wallabies (*Macropus rufogriseus*) using long-term pharmaceutical therapy and serial monitoring by computed tomography imaging. Proceedings of the 46th Annual American Association of Zoo Veterinarians Conference. Orlando, FL. 2014.

Nevitt BN, Langan JN, Adkesson MJ, Mitchell MA, Drees R. Comparison of air sac and lung volume in awake and anesthetized Humboldt penguins (Spheniscus humboldti) positioned in ventral, dorsal, and right lateral recumbency using computed tomography. Proceedings of the 45th Annual American Association of Zoo Veterinarians Conference. Salt Lake City, UT. 2013.

Nevitt BN, Adkesson MJ, Sanchez CR, Langan JN, Jankowski G, West P. Treatment of Diskospondylitis Associated Intervertebral Disk Herniation in an Aardvark (*Orycteropus Afer*): Lessons on ICU Care and Rehabilitation Following a Lumbar Hemilaminectomy. Proceedings of the 44th Annual American Association of Zoo Veterinarians Conference. Oakland, CA.

Johnston MS, **Nevitt BN**. Effectiveness of Physical Therapy as an Adjunctive Treatment for Chronic Traumatically Induced Torticollis in Raptors. Proceedings of the 32nd Annual Association of Avian Veterinarians Annual Conference. Seattle, WA. 2011. p.79

PROFESSIONAL TRAINING AND CONTINUING EDUCATION

Annual American Association of Zoo Veterinarians Conference. (2011-2014, 2019, 2021)

Developing Your Unique Strengths As Leaders, 51st AAZV Conference Workshop, St. Louis, MO (2019)

Small Animal Laparoscopy Course for Veterinarians, Western University College of Veterinary Medicine, Pomona, CA (2018)

International Association for Aquatic Animal Medicine Conference. (2015-2018)

Clinical Techniques: Avian Orthopedics, 44th AAZV Conference Workshop, Oakland, CA (2012)

ACZM Short Course, North Carolina State University, Raleigh, NC (2012)

VCM 594: Clinical Epidemiology and Biostatistics, University of Illinois, College of Veterinary Medicine, Chicago, IL (2011)

Brandon Scott

Wildlife Care Manager

Department of Herpetology & Ichthyology San Diego Zoo Wildlife Alliance 2029 Zoo Dr, San Diego CA 92101 619-557-3987 Bscott@sdzwa.org

Position: Wildlife Care Manager

Location: San Diego Zoo, California

Duration: May 2000 - Present

I am writing to provide a comprehensive overview of my extensive experience working with various Lizard species. Over the years, I have dedicated my efforts to the responsible care and management of the following reptiles:

Anegada Island Iguana (Cyclura pinguis) - 10 years

Armadillo girdled lizard (Ouroborus cataphractus)

Chameleons - 15 years

Cordylus – 17 year

Cuban Iguana (Cyclura nubila nubile) - 17 years

Exuma Island Iguana (Cyclura cychlura figginsi) - 5 years

Fiji Banded Iguana (Brachylophus bulabula) - 17 years

Gila Monsters (Heloderma suspectum) - 17 years

Different Species of Geckos – 17 years

Grand Cayman Blue Iguana (Cyclura lewisi) - 17 years

Horned lizards (Phrynosoma asio, Phrynosoma douglassii) - 17 years

Jamaican Iguana (Cyclura collie) - 17 years

Komodo Dragon (Varanus komodoensis) 17 years

Mexican Beaded Lizard (Heloderma horridum) 17 years

During this time, I have consistently prioritized the health, well-being, and conservation of these reptiles. My experience includes:

- 1. **Expertise in Species-specific Care:** Through continuous research and hands-on experience, I have developed a deep understanding of the unique requirements and behaviors of each species mentioned. This knowledge has allowed me to create and maintain environments that closely mimic their natural habitats.
- Veterinary Care and Health Monitoring: I have established a rigorous veterinary care routine, ensuring regular health check-ups, vaccinations, and prompt treatment in case of any illness.
 Detailed health records are maintained for each individual, contributing to the overall well-being of the reptiles under my care.
- 3. **Breeding Success:** With a strong focus on conservation efforts, I have successfully bred several of the mentioned species. This has not only contributed to the preservation of these species but has also provided valuable insights into their reproductive behaviors and requirements.
- 4. **Enclosure Design and Maintenance:** I have designed and maintained secure and speciesappropriate enclosures, emphasizing safety, enrichment, and stimulation. Each enclosure is tailored to the specific needs of the reptiles to ensure their physical and psychological health.
- 5. **Public Education and Outreach:** Recognizing the importance of public awareness in reptile conservation, I have actively engaged in educational programs and outreach initiatives. This includes conducting workshops, presentations, and guided tours to impart knowledge about these fascinating creatures.

I am committed to upholding the highest standards of care, ethics, and conservation in the management of these reptiles.

Brett R. Baldwin

Curriculum Vitae

CONTACT INFO:

Tel: 619/685-3282

Email: <u>bbaldwin@sdzwa.org</u>

EDUCATIONAL HISTORY:

1986-1995 B.S. Biology, McMurry University

PROFESSIONAL EXPERIENCE:

1988-1993 Keeper II- Reptiles, Amphibians, Birds and Small Mammals-Abilene Zoological Gardens

1994-1996 Lead Keeper-Reptiles, Amphibians and Fish

1997-2011 Sr. Keeper Herpetology Department, San Diego Zoological Society

2011-2013 Lead Keeper Herpetology Department, San Diego Zoological Society

2014-2016 Animal Care Supervisor Herpetology Department, San Diego Zoological Society

2017-2019 Animal Care Manager Herpetology Department, San Diego Zoological Society

2019-Current Associate Curator of Herpetology and Ichthyology, San Diego Zoological Society

CAPTIVE MANAGEMENT EXPERIENCE:

During 35 years of zoological work I have worked with multiple species of venomous animals including *Helodermatids*, King cobras, Papuan taipans, several species of *Naja* including *pallida*, annulata, Western green mambas, Collett's

black snakes, death adders, 2 *Bungarus sp*. South American bushmasters, blackheaded bushmasters, 3 species of *Bothrops*, 5 species of *Atheris*, 8 *Bitis sp*. I have experience with many species of *Trimeresurus*, *Crotalus sp* including *durissus*, *lepidus*, *triseriatus*, *polystictus*, *cerastes*, *catalinensis*, *horridus*, *helleri*, *atrox*, *ruber*, *mitchelli*

Experience includes writing venomous handling and snake bite protocols, antivenin ordering and inventory, training new staff on venomous snake handling, hooks, tongs.

Training staff on tubing venomous snakes.

PROFESSIONAL AND SCHOLARLY ACTIVITIES:

1999 August 1998, I applied for Arizona state collecting permits through the San Diego Zoo for *Crotalus I. klauberi* and *Crotalus pricei*; permits issued, live specimens were collected 1999-2000

2002-Present SSP Coordinator, Studbook Keeper, South American Bushmaster, *Lachesis muta*

2015-Present SDZG (San Diego Zoo Global) IACUC Committee member

2018-Present Steering Committee Chair, West Indian Iguana SSP (Species Survival Plan)

1988-2002 I led six separate biological field course trips teaching *Biology Field Studies: Mexico* in eastern Mexico with Dr. Robert Martin, McMurry University.

1994-1996 Worked Dr. Robert Martin of McMurry University with his fauna study of Copper Breaks State Park, Texas, funded by a federal grant.

2006 Field work in Indonesia on a CRES (Center for Reproduction of Endangered Species, SDZ) field study project of Komodo dragons on the islands of Flores, Rinca and Gili Motang. It was a five-year study headed by Dr. Tim Jessop.

2008 Field work in Mexico collecting live herpetological specimens in Sonora, Sinaloa, Nayarit, Colima, Jalisco, Chihuahua, Durango and Michoacan with staff from the Los Angeles Zoo for our respective institutions under a collaborative project between the institutions.

2014 Field work with Stephen Spear in assisting with his survey in Costa Rica, "Testings survey methods to enable a monitoring program for two cryptic bushmaster species (*Lachesis melanocephala and L. stenophrys*)"

2018 Participated in a massive radiated tortoise recovery and rescue of a confiscation of over 9,000 animals in Madagascar.

2019 worked with WCS and TSA constructing and advising on building breeding pools in Cambodia for endangered Royal river terrapin, *Batagur affinis*.

2020 Nevitt, Ben, Baldwin, Brett "The effects of natural sunlight on 25-hydroxyvitamin D3 in Mangshan mountain pitvipers (*Protobothrops mangshanensis*) in human managed population". **In progress**

PUBLICATIONS:

Baldwin, Brett, 1998. The Little Tiger. ZOONOOZ, NOOZNOTES.

Boyer, D. And B. Baldwin, "A Simple Method of Preventing Self-inflicted Injury when Feeding a Dicephalic California Kingsnake, *Lampropeltis getulus californiae*; in ARAV Vol. 7, No. 3, 1998.

Baldwin, Brett, 2000. And Now From the Reptile House, Raca Daca What?; Snake Success. September.

Baldwin, Brett, 2003. Leapin' Lizards! Emerald Tree Monitors Keep Watch From Above. ZOONOOZ, June.

Baldwin, Brett, 2003. Little Buzzers In the Sky. ZOONOOZ, March.

Baldwin, Brett, 2006. The Successful Reproduction and Captive Husbandry of Varanus prasinus. IGUANA vol.13, #4 (International Reptile Conservation Foundation publication).

Baldwin, Brett, Boyer, Don, 2008. Succulent Dreams Out of Africa. ZOONOOZ, August.

Baldwin, Brett, 2015. Recipe For Success, How to Make a Frog. ZOONOOZ, March.

PUBLICATIONS IN PROGRESS:

Baldwin, Brett, 2001. Notes on the Captive Husbandry and Behavior of *Bungarus flaviceps*

Baldwin, Brett, 2003. Notes on the Captive Husbandry and Reproduction of *Rhacodactylus trachyrhynchus*

PRESENTATIONS AT NATIONAL/INTERNATIONAL MEETINGS:

2013 Invited to talk at EAZA Handling and Care of Venomous Captivity, Universeum, Gothenburg, Sweden

2014 AZA Herp TAG (Taxonomic Advisory Group), presentation of HERPETOLOGICAL SURVEY OF PARQUE NACIONAL PRIEDRAS BLANCAS, COSTA RICA. ("Testings survey methods to enable a monitoring program for two cryptic bushmaster species (*Lachesis melanocephala and L. stenophrys*)")

2015 AZA Herp TAG (Taxonomic Advisory Group), presentation of Venom and The Importance of Venomous Animals In Zoos

2017 AZA Herp TAG (Taxonomic Advisory Group), presentation of Restraint, Anesthetizing and Intubation of Venomous Snakes

2018 AZA Herp TAG (Taxonomic Advisory Group), presentation of West Indian Iguana SSP updates

2018 XXXV CONGRESSO AZCARM, Durango, Durango. Madagascar Tortoise Confiscation, Rescue and Recovery, Taking on the Crisis

2019 SDZG Animal Welfare Meeting, presentation of Mang Mountain Vipers, Triumphs, Troubles and Tribulations

2019 AZA Herp TAG (Taxonomic Advisory Group), presentation of Madagascan Tortoise Rescue

2019 First Annual Herpeton, San Diego, CA. Speaker, presentation on Notes on the Captive Husbandry and Reproduction of the Ethiopian Mountain Viper, *Bitis parviocula*

Erika DiVenti

Lead Wildlife Care Specialist

Department of Herpetology & Ichthyology San Diego Zoo Wildlife Alliance 2920 Zoo Dr, San Diego CA 92101

619-557-3987 ediventi@sdzwa.org

Position: Lead Wildlife Care Specialist

Location: San Diego Zoo, California

Duration: May 2005 - Present

Educational History: Associate of Zoo Animal Technology, Santa Fe Teaching Zoo

Professional Experience:

1997-2000 Wildlife Care Specialist, Mammals, Birds, San Antonio Zoo

2001-2002 Wildlife Care Specialist, Mammals, San Diego Zoo Safari Park

2002-2004 Wildlife Care Specialist, Mammals, Birds, Reptiles, Joan Embry Enterprises, managing entire collection

2004-2005 Animal Tech II, Mammals, Reptiles, Scripps Research Institute

2005-2017 Wildlife Care Specialist, San Diego Zoo

2017-present Lead Wildlife Care Specialist

I have extensive hands on husbandry care and experience with the following species of lizards:

Anegada Island Iguana (Cyclura pinguis) - 18 years

Armadillo girdled lizard (Ouroborus cataphractus)

Chameleons - 15 years

Cordylus – 17 years

Cuban Iguana (Cyclura nubila nubile) - 18 years

Exuma Island Iguana (Cyclura cychlura figginsi) - 5 years

Fiji Banded Iguana (Brachylophus bulabula) - 18 years

Gila Monsters (Heloderma suspectum) - 20 years

Different Species of Geckos – 18 years

Grand Cayman Blue Iguana (Cyclura lewisi) - 18 years

Horned lizards (Phrynosoma asio, Phrynosoma douglassii) - 18 years

| Jamaican Iguana (Cyclura collie) - 18 years |
|---|
| Komodo Dragon (Varanus komodoensis) 18 years |
| Mexican Beaded Lizard (Heloderma horridum) 20 years |

More specifically my experience here has focused on the health, well-being, and conservation of these reptiles in my care and the oversite of Wildlife Care Specialists that includes the following:

- 1. **Veterinary Care and Health Monitoring:** I have worked closely with veterinary care staff, ensuring regular health check-ups and prompt treatment in case of any illness. Detailed health records are maintained for each individual, contributing to the overall well-being of the reptiles under my care.
- Breeding Success: I have worked with and successfully bred several of the mentioned species.
 This has not only contributed to the preservation of these species but has also provided valuable insights into their reproductive behaviors and requirements including many species of amphibians and vipers.
- 3. **Enclosure Design and Maintenance:** I have designed and maintained enclosures, replicating natural history and maintaining secure, enriching environments.
- 4. **Public Education and Outreach:** Recognizing the importance of public awareness in reptile conservation, I have actively engaged in educational programs and outreach initiatives. This includes conducting workshops, presentations, and guided tours to impart knowledge about these fascinating creatures.

| | | | DNY | ′20-35713 L | ocal ID: 1 | 001427 | | |
|---|---|---|--|--|--|--|------------------|--|
| Individual | Fi | iji banded | iguar | a | Endange | red (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>P</u> | ny <u>Ow</u> | n Reported By | | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 4/Jan/2020 | Birth/Hatch | ln | ln | SANDIEGOZ / 1 | 1001427 | - | - | |
| Sex/Contraception | Female / - | | | Birth Type | Ca | aptive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | | an Diego Zoo | | |
| <u>Enclosure</u> Rearing | AR07100 Reptile Mesa Enclosure (| Group | | Birth Date/Age Local ID | | Jan/2020 / 4Y,6M,6D | | |
| Dam | - [GAN: DNY14-14094 SANDIEGOZ | Z / 9134651 | | Local ID | [11 | 001427/SANDIEGOZ] | | |
| Sire | [GAN: BPL16-02624 SANDIEGOZ | | | | | | | |
| | | | DNY | ′20-35827 L | ocal ID: 1 | 001506 | | |
| Individual | Fi | iji banded | iguar | a | Endange | red (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | <u>P</u> | ny Ow | n Reported By | | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 23/Jan/2020 | Birth/Hatch | İn | ln | SANDIEGOZ / 1 | 1001506 | - | - | |
| Sex/Contraception | Female / - | | | Birth Type | Ca | aptive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | | an Diego Zoo | | |
| Enclosure | AR07100 Reptile Mesa Enclosure 0 | Group | | Birth Date/Age | 23 | B/Jan/2020 / 4Y,5M,17D | | |
| Rearing Dam | - ICANI: DNIV44 44004 CANIDITOCO | 7 / 042 4051 | | Local ID | [1 | 001506/SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: DNY14-14094 SANDIEGOZ [GAN: BPL16-02624 SANDIEGOZ | | | | | | | |
| | | | DNY | ′20-36502 L | ocal ID: 1 | 001736 | | |
| Individual | Fi | iji banded | iguar | a | Endange | red (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>P</u> | ny Ow | Reported By | | Disposition - Recipient/Local ID | Phy | Own Date out |
| 29/Mar/2020 | Birth/Hatch | in | In | SANDIEGOZ / 1 | 1001736 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type | Ca | aptive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | | an Diego Zoo | | |
| <u>Enclosure</u> | AR07100 Reptile Mesa Enclosure 0 | Group | | Birth Date/Age | | 9/Mar/2020 / 4Y,3M,11D | | |
| | | | | | | | | |
| | | 7 / 0074071 | | Local ID | [1 | 001736/SANDIEGOZ] | | |
| Rearing Dam Sire | - [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ | | | Local ID | [1 | 001736/SANDIEGOZJ | | |
| <u>Dam</u> | | | DNY | | | · | | |
| Dam Sire | [GAN: DNY14-12617 SANDIEGOZ | Z / 907105] | | ′20-36509 L | ocal ID: 1 | 001739 | | Brachylophus hulahul |
| Dam Sire Individual | įGAN: DNY14-12617 SANDIEGOZ | Z / 907105] | iguar | (20-36509 L | | 001739 red (EN) | Phy | • • |
| Dam Sire Individual Date in | GAN: DNY14-12617 SANDIEGOZ | z / 907105] iji bandec <u>P</u> | iguar | 20-36509 L a n <u>Reported By</u> | ocal ID: 1 | 001739 | <u>Phy</u> | Brachylophus bulabula Own Date out |
| Dam Sire Individual Date in 31/Mar/2020 | Fi Acquisition - Vendor/Local ID Birth/Hatch | Z / 907105] | iguar | (20-36509 L na n Reported By SANDIEGOZ / * | ocal ID: 1 Endange | 001739 red (EN) Disposition - Recipient/Local ID | Phy - | |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - | z / 907105] iji bandec <u>P</u> | iguar | 20-36509 L a Reported By SANDIEGOZ / Birth Type | ocal ID: 1 Endange | oo1739 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch | <u>Phy</u> - | |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid | z / 907105] iji bandec <u>P</u> | iguar | (20-36509 L na n Reported By SANDIEGOZ / * | Local ID: 1 Endange 1001739 Ca | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo | <u>Phy</u> - | |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - | z / 907105] iji bandec <u>P</u> | iguar | 20-36509 L a Reported By SANDIEGOZ / Birth Type Birth Location | Local ID: 1 Endange 1001739 Carrier Sarana | oo1739 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch | <u>Phy</u> - | |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (1- [GAN: DNY14-12619 SANDIEGOZ | iji bandec P In Group | iguar | 20-36509 L an Reported By SANDIEGOZ / Birth Type Birth Location Birth Date/Age | Local ID: 1 Endange 1001739 Ca Sa 31 | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D | <u>Phy</u> - | |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (1- | iji bandec P In Group | iguar | 20-36509 L a n Reported By SANDIEGOZ / Birth Type Birth Location Birth Date/Age Local ID | Local ID: 1 Endange 1001739 Ca Sa 31 | oo1739 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] | <u>Phy</u> - | |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (1- [GAN: DNY14-12619 SANDIEGOZ | iji bandec P In Group | iguar ny <u>Ow</u> In | 20-36509 L a n Reported By SANDIEGOZ / Birth Type Birth Location Birth Date/Age Local ID | Ocal ID: 1 Endange 1001739 Ca Sa 31 [1. Number [D] | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] DNY20-36508-IA/SANDIEGOZ] | <u>P</u> hy - | |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ | iji bandec P h Group Z / 907107] Z / 907105] | iguar ny <u>Ow</u> In DNY | A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession | Ocal ID: 1 Endange 1001739 Ca Sa 31 [1. Number [D] | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] oo1800 red (EN) | - | Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ | iji bandec P h Group Z / 907107] Z / 907105] | iguar ny <u>Ow</u> In DNY | Example 20-36509 Long and Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession | .ocal ID: 1 Endange 1001739 Ca Sa 31 Number [D] | oo1739 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] NY20-36508-IA/SANDIEGOZ] | - | Own Date out |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ | iji bandec P h Group Z / 907107] Z / 907105] | iguar ny <u>Ow</u> In DNY | A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession | Local ID: 1 Endange 1001739 Ca Sa 31 [1] Number [D] Local ID: 1 | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] oo1800 red (EN) | - | Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (1) [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [Fi Acquisition - Vendor/Local ID | iji bandec P h Group Z / 907107] Z / 907105] | DNY | Reported By SANDIEGOZ / * Birth Type Birth Location Birth Date/Age Local ID Old Accession (20-36616 L a n Reported By SANDIEGOZ / * Birth Type | Local ID: 1 Endange 1001739 Ca Sa 31 Number [D] Local ID: 1 Endange | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] oo1800 red (EN) | - | Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ | iji bandec P h Group Z / 907107] Z / 907105] | DNY | Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession C20-36616 L Birth Type Birth Location Birth Date/Age Local ID Old Accession | .ocal ID: 1 Endange 1001739 Ca Sa 31 [1] Number [D .ocal ID: 1 Endange | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo | - | Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (1) [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - | iji bandec P h Group Z / 907107] Z / 907105] | DNY | A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age | .ocal ID: 1 Endange 1001739 Ca Sa 31 Number [D] .ocal ID: 1 Endange 1001800 Ca Sa 22 | oo1739 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch an Diego Zoo 2/Apr/2020 / 4Y,2M,18D | - | Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- | iji bandec P h Group Z / 907105] iji bandec P iji bandec | DNY | Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession C20-36616 L Birth Type Birth Location Birth Date/Age Local ID Old Accession | .ocal ID: 1 Endange 1001739 Ca Sa 31 Number [D] .ocal ID: 1 Endange 1001800 Ca Sa 22 | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo | - | Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ | Group Z / 907105] Group Z / 907107] Group Z / 907107] | DNY | A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age | .ocal ID: 1 Endange 1001739 Ca Sa 31 Number [D] .ocal ID: 1 Endange 1001800 Ca Sa 22 | oo1739 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch an Diego Zoo 2/Apr/2020 / 4Y,2M,18D | - | Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ | Group Z / 907105] Group Z / 907107] Group Z / 907107] | DNY In ONY In In | A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age | .ocal ID: 1 Endange 1001739 Ca Sa 31 [1] Number [D] .ocal ID: 1 Endange 1001800 Ca Sa 22 [1] | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] NY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch an Diego Zoo 2/Apr/2020 / 4Y,2M,18D 001800/SANDIEGOZ] | - | Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ | Group Z / 907105] Group Z / 907107] Group Z / 907107] | DNY In DNY In DNY In DNY In | A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession C20-36616 L a Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID C20-36715 L | .ocal ID: 1 Endange 1001739 Ca Sa 31 [1] Number [D] .ocal ID: 1 Endange 1001800 Ca Sa 22 [1] | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID | | Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ | iji bandec P h Group Z / 907107] Z / 907105] Group Group Z / 907107] Z / 907105] | DNY iguar ny Ow in DNY iguar ny Ow in | A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession C20-36616 L a Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID C20-36715 L | .ocal ID: 1 Endange 1001739 Ca Sa 31 [Number [D] .ocal ID: 1 Endange 1001800 Ca Sa 22 [10] .ocal ID: 1 | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID | | Own Date out Brachylophus bulabula Own Date out |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ | iji bandec P h Group Z / 907107] Z / 907105] Group Group Z / 907107] Z / 907105] | DNY iguar ny Ow in DNY iguar ny Ow in | A Reported By SANDIEGOZ / A SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession A Reported By SANDIEGOZ / A SANDIEGOZ / A SANDIEGOZ / A SANDIEGOZ / A BIRTH Type Birth Location Birth Date/Age Local ID | .ocal ID: 1 Endange 1001739 Ca Sa 31 Number [D] .ocal ID: 1 Endange 1001800 Ca Sa 22 [1] .ocal ID: 1 Endange | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] NY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo 2/Apr/2020 / 4Y,2M,18D 001800/SANDIEGOZ] oo1881 red (EN) | | Own Date out Brachylophus bulabula Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (Carron of the control of | iji bandec P h Group Z / 907107] Z / 907105] iji bandec P C / 907107] Z / 907105] | DNY iguar ny Ow n DNY iguar ny Ow iguar ny Ow | Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession Reported By SANDIEGOZ / A Birth Type Birth Type Birth Location Birth Date/Age Local ID Code Birth Location Birth Date/Age Local ID Code ID | .ocal ID: 1 Endange 1001739 Ca Sa 31 Number [D] .ocal ID: 1 Endange 1001800 Ca 22 [11 Local ID: 1 Endange | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] DNY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Apr/2020 / 4Y,2M,18D 001800/SANDIEGOZ] oo1881 red (EN) Disposition - Recipient/Local ID - | | Own Date out Brachylophus bulabula Own Date out Brachylophus bulabula |
| Dam Sire Individual Date in 331/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in Dam Sire | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID | iji bandec P h Group Z / 907107] Z / 907105] iji bandec P C / 907107] Z / 907105] | DNY iguar ny Ow n DNY iguar ny Ow iguar ny Ow | Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession C20-36616 L Birth Type Birth Type Birth Location Birth Date/Age Local ID C20-36715 L Birth | .ocal ID: 1 Endange 1001739 Ca Sa 31 Number [D .ocal ID: 1 Endange 1001800 Ca Sa 22 [1] .ocal ID: 1 Endange | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] NY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo 2/Apr/2020 / 4Y,2M,18D 001800/SANDIEGOZ] oo1881 red (EN) | | Own Date out Brachylophus bulabul Own Date out Brachylophus bulabul |
| Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 18/May/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - | iji bandec P h Group Z / 907105] Z / 907105] Group Z / 907105] Group Z / 907105] Z / 907105] | DNY iguar ny Ow n DNY iguar ny Ow iguar ny Ow | A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Type Birth Location Birth Date/Age Local ID A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Type Birth Location Birth Type Birth Location Birth Type Birth Location Birth Type Birth Location Birth Date/Age | .ocal ID: 1 Endange 1001739 Ca Sa 31 Number [D .ocal ID: 1 Endange 1001800 Ca Sa 22 [11 .ocal ID: 1 Endange 1001881 Ca Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa | oo1739 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] NY20-36508-IA/SANDIEGOZ] oo1800 red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Apr/2020 / 4Y,2M,18D 001800/SANDIEGOZ] oo1881 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch | | Own Date out Brachylophus bulabul Own Date out Brachylophus bulabul |
| Individual Date in 31/Mar/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 22/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 12/Apr/2020 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire Individual Date in 18/May/2020 Sex/Contraception Hybrid Status | Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ [GAN: DNY14-12617 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Male / - Not a hybrid AR07100 Reptile Mesa Enclosure (- [GAN: DNY14-12619 SANDIEGOZ Fi Acquisition - Vendor/Local ID Birth/Hatch Female / - Not a hybrid Birth/Hatch Female / - Not a hybrid | z / 907105] iiji bandec P h Group z / 907107] z / 907105] iiji bandec P h Group z / 907107] z / 907105] | DNY iguar ny Ow n DNY iguar ny Ow iguar ny Ow | A Reported By SANDIEGOZ / A Birth Type Birth Location Birth Date/Age Local ID Old Accession C20-36616 L Birth Type Birth Location Birth Date/Age Local ID C20-36715 L | .ocal ID: 1 Endange 1001739 Ca Sa 31 Number [D] .ocal ID: 1 Endange 1001800 Ca Sa 22 [1] .ocal ID: 1 Endange 1001881 | red (EN) Disposition - Recipient/Local ID aptive Birth/Hatch an Diego Zoo I/Mar/2020 / 4Y,3M,10D 001739/SANDIEGOZ] INY20-36508-IA/SANDIEGOZ] 001800 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch an Diego Zoo 2/Apr/2020 / 4Y,2M,18D 001800/SANDIEGOZ] 001881 red (EN) Disposition - Recipient/Local ID - aptive Birth/Hatch an Diego Zoo 2/Apr/2020 / 4Y,2M,18D 001801800/SANDIEGOZ] | | Own Date out Brachylophus bulabul Own Date out Brachylophus bulabul |

| 10/Jul/2024 | | | | | | | | |
|------------------------------------|---|-------------|-------|------------------------------|-----------------|---|------------|-----------------------|
| | | | DNY | 20-36760 L | ocal II | D: 1001910 | | |
| Individual | Fiji I | banded | iguan | a | Endar | ngered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>Ph</u> y | Owi | Reported By | | Disposition - Recipient/Local ID | Phy | Own Date out |
| 2/Jun/2020 | Birth/Hatch | ln | ln | SANDIEGOZ / | 1001910 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type | | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | | San Diego Zoo | | |
| Enclosure Bassins | AR07100 Reptile Mesa Enclosure Gro | oup | | Birth Date/Age | | 2/Jun/2020 / 4Y,1M,8D | | |
| Rearing Dam | Autonomous [GAN: DNY14-14094 SANDIEGOZ / 9 | 13/651 | | Local ID | | [1001910/SANDIEGOZ] | | |
| Sire | [GAN: BPL16-02624 SANDIEGOZ / 9 | | | | | | | |
| | | | HFV | 20-24487 L | ocal IE |): 1003309 | | |
| Individual | Fiji l | banded | iguan | а | Endar | ngered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>Ph</u> y | Owi | Reported By | | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 13/Jun/2020 | Birth/Hatch | - | ln | SANDIEGOZ / | 1003309 | - | - | |
| 13/Jun/2020 | Birth/Hatch Owner: SANDIEGOZ/UNDETERM | | - | DALLAS / 20C2 | | Loan Return To Owner SANDIEGOZ/1003309 | Out | - 4/May/2022 |
| 4/May/2022 | Loan Return to Us Sender: DALLAS/20C24 | 7 In | - | SANDIEGOZ / | 1003309 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type | | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | | Dallas Zoo | | |
| Enclosure Rearing | AR07100 Reptile Mesa Enclosure Gro | oup | | Birth Date/Age Local ID | | 13/Jun/2020 / 4Y,0M,27D | | |
| Dam | - [GAN: DNY14-13969 15Q468/DALLA | S1 | | | | [1003309/SANDIEGOZ] | | |
| Sire | [GAN: 25216187 14P119/DALLAS] | 0] | | | | | | |
| | | | DNY | 22-40318 L | ocal II | D: 1004212 | | |
| Individual | Fiji l | banded | iguan | а | Endar | ngered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>Ph</u> y | Owi | Reported By | | Disposition - Recipient/Local ID | Phy | Own Date out |
| 15/Jul/2022 | Birth/Hatch | ln | ln | SANDIEGOZ / | 1004212 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type | | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | | San Diego Zoo | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Gro | oup | | Birth Date/Age | | 15/Jul/2022 / 1Y,11M,25D | | |
| Rearing | · · | • | | | | [RED DOT/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: DNY19-33983 SANDIEGOZ / 1 | - | | Color Marking - | Natural Natural | [BLUE BARS/SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: DNY20-36616 SANDIEGOZ / 1 | 001800] | | Local ID Old Accession | Number | [1004212/SANDIEGOZ] [DNY22-40304-IA/SANDIEGOZ] | | |
| | | | DNIV | | | · · · · · · · · · · · · · · · · · · · | | |
| Individual | Fiii l | banded | | 22-40954 L | | ngered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | | • | a <u>n Reported By</u> | Elluai | Disposition - Recipient/Local ID | Phy | Own Date out |
| 26/Sep/2022 | Birth/Hatch | <u> </u> | ln | SANDIEGOZ / | 1004616 | - | | |
| | | | | | 1004010 | - | | |
| Sex/Contraception Hybrid Status | Male / - Not a hybrid | | | Birth Type Birth Location | | Captive Birth/Hatch San Diego Zoo | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Gro | nun | | Birth Date/Age | | 26/Sep/2022 / 1Y,9M,14D | | |
| Rearing | - | Jup | | Local ID | | [1004616/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: DNY15-15892 SANDIEGOZ / 9 | 15092] | | | | | | |
| <u>Sire</u> | [GAN: SYC16-01173 SANDIEGOZ / 9 | 16380] | | | | | | |
| | | | DNY | 22-41131 L | ocal II | D: 1004736 | | |
| Individual | Fiji | banded | iguan | a | Enda | ngered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owi | Reported By | | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 31/Oct/2022 | Birth/Hatch | ln | ln | SANDIEGOZ / | 1004736 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type | | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | | San Diego Zoo | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Gro | oup | | Birth Date/Age | | 31/Oct/2022 / 1Y,8M,10D | | |
| Rearing - | Autonomous | | | Local ID | | [1004736/SANDIEGOZ] | | |
| Dam Sire | [GAN: DNY14-12619 SANDIEGOZ / 9 | - | | | | | | |
| <u>Sire</u> | [GAN: DNY14-12617 SANDIEGOZ / 9 | 907105] | | | | | | |
| | | | DNY | 22-41202 L | ocal II | D: 1004787 | | |
| Individual | · | banded | _ | | Endar | ngered (EN) | Ε, | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | | | Reported By | | Disposition - Recipient/Local ID | Phy | Own Date out |
| 10/Nov/2022 | Birth/Hatch | ln | ln | SANDIEGOZ / | 1004787 | - | - | - |
| Sex/Contraception | Male / - | | | Birth Type | | Captive Birth/Hatch | | |
| | Not a hybrid | | | Birth Location | | San Diego Zoo | | |
| | | | | Birth Date/Age | | 10/Nov/2022 / 1Y,8M,0D | | |
| Hybrid Status Enclosure | AR07100 Reptile Mesa Enclosure Gro | oup | | | | | | |
| Enclosure Rearing | Autonomous | • | | Local ID | | [1004787/SANDIEGOZ] | | |
| Enclosure | · | 907107] | | | | | | |

| Report Start Date 10/Jul/2024 | e e | Тахо | n Report Brac | :hylophus | Report End 10/Jul/202 | |
|-----------------------------------|--|--------------|----------------------------------|--|--------------------------|-----------------------|
| | | DI | NY23-41650 L | ocal ID: 1005024 | | |
| Individual | Fiii ban | ded igu | ana | Endangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | _ | wn Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 21/Feb/2023 | Birth/Hatch | in in | | | | |
| Sex/Contraception | Undetermined / - | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | Birth Location | San Diego Zoo | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Group | | Birth Date/Age | 21/Feb/2023 / 1Y,4M,19D | | |
| Rearing Dam | - [GAN: DNY14-12619 SANDIEGOZ / 9071 | 071 | Local ID | [1005024/SANDIEGOZ] | | |
| Sire | [GAN: DNY14-12617 SANDIEGOZ / 9071 | - | | | | |
| | | Di | NY23-41669 L | ocal ID: 1005037 | | |
| Individual | Fiji ban | ded igu | ana | Endangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy C | wn Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 2/Mar/2023 | Birth/Hatch | in in | SANDIEGOZ / | 1005037 - | - | |
| Sex/Contraception | Undetermined / - | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | Birth Location | San Diego Zoo | | |
| <u>Enclosure</u> Rearing | AR07100 Reptile Mesa Enclosure Group Autonomous | | Birth Date/Age Local ID | 2/Mar/2023 / 1Y,4M,8D [1005037/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: DNY14-12619 SANDIEGOZ / 9071 | 07] | | [1000007/07/145/12502] | | |
| <u>Sire</u> | [GAN: DNY14-12617 SANDIEGOZ / 9071 | 05] | | | | |
| | | | 19978942 Lo | ocal ID: 903031 | | |
| Individual | Fiji ban | ded igu | ana | Endangered (EN) | | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | Phy C | wn Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Own Date out |
| 7/Mar/2003 | Birth/Hatch | in in | SANDIEGOZ / | 903031 - | - | |
| Sex/Contraception | Female / - | | Birth Type | Captive Birth/Hatch | | |
| <u>Hybrid Status</u> Enclosure | Not a hybrid | | Birth Location Birth Date/Age | San Diego Zoo 7/Mar/2003 / 21Y,4M,3D | | |
| Rearing | AR07100 Reptile Mesa Enclosure Group None | | Local ID | [903031/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: 25215131 SANDIEGOZ / 192523] | | Regional Studb | | | |
| <u>Sire</u> | [GAN: 8228910 SANDIEGOZ / 193264] | | | | | |
| | | D | NY14-12617 I | Local ID: 907105 | | |
| Individual | Fiji ban | ded igu | ana | Endangered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy C | wn Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Own Date out |
| 11/May/2007 4/Oct/2011 | Loan In From Vendor: USFWS/NONE Donation From Vendor: USFWS/NONE | ln - - In | SANDIEGOZ / | | - | |
| Sex/Contraception | | - " | | | - | |
| Hybrid Status | Male / - Not a hybrid | | Birth Type Birth Location | Wild Birth/Hatch Fiji / | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Group | | Birth Date/Age | ~ from 1/Jan/2005 to 1/Jan/2007 / 18Y,6 | iM,9D | |
| Rearing | Undetermined | | House Name | [Angry Joe/SANDIEGOZ] | | |
| <u>Dam</u> | [WILD / WILD] | | Local ID | [907105/SANDIEGOZ] | | |
| <u>Sire</u> | [WILD / WILD] | | Old Accession | Number [AX584306/SANDIEGOZ] | | |
| | | D | NY14-12619 I | Local ID: 907107 | | |
| Individual | • | ded igu | | Endangered (EN) | 5 . | Brachylophus bulabul |
| Date in | Acquisition - Vendor/Local ID | | wn Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 11/May/2007 4/Oct/2011 | Loan In From Vendor: USFWS/NONE Donation From Vendor: USFWS/NONE | ln - - In | SANDIEGOZ / SANDIEGOZ / | | - | |
| Sex/Contraception | Female / - | - 11 | Birth Type | Wild Birth/Hatch | _ | - |
| Hybrid Status | Not a hybrid | | Birth Location | vviid Birth/Hatch Fiji / | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Group | | Birth Date/Age | ~ from 1/Jan/2005 to 1/Jan/2007 / 18Y.6 | M 9D | |

| Individual | Fiji band | ded ig | guan | a End | dangere | d (EN) | | Bra | achylophus bulabula |
|-------------------|--------------------------------------|--------|------|----------------------|----------------|--|-----|------------|---------------------|
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | | Disposition - Recipient/Local ID | Phy | <u>Owr</u> | n Date out |
| 11/May/2007 | Loan In From Vendor: USFWS/NONE | ln | - | SANDIEGOZ / 907107 | 7 | - | - | - | - |
| 4/Oct/2011 | Donation From Vendor: USFWS/NONE | - | ln | SANDIEGOZ / 907107 | 7 | - | - | - | - |
| Sex/Contraception | Female / - | | | Birth Type | Wild | Birth/Hatch | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Fiji / | | | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Group | | | Birth Date/Age | ~ fro | m 1/Jan/2005 to 1/Jan/2007 / 18Y,6M,9D | | | |
| Rearing | Undetermined | | | House Name | [Elea | na/SANDIEGOZ] | | | |
| <u>Dam</u> | [WILD / WILD] | | | Local ID | [907 | 107/SANDIEGOZ] | | | |
| <u>Sire</u> | [WILD / WILD] | | | Old Accession Number | <u>er</u> [AX5 | 84308/SANDIEGOZ] | | | |
| | | | | | | | | | |

| | 25215774 Local ID: 907581 | | | | | | | | | | |
|-------------------|--|------------|------|-----------------|----------------------------------|------------|-----------------------|--|--|--|--|
| Individual | Fiji band | ed iç | guan | a E | Endangered (EN) | | Brachylophus bulabula | | | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Own | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out | | | | |
| 22/Dec/2007 | Birth/Hatch | ln | ln | SANDIEGOZ / 907 | 7581 - | - | | | | | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Species Hybrid | | | Birth Location | San Diego Zoo | | | | | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Group | | | Birth Date/Age | 22/Dec/2007 / 16Y,6M,18D | | | | | | |
| Rearing | None | | | Local ID | [907581/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: DNY14-12618 SANDIEGOZ / 907106 | 6] | | | | | | | | | |
| <u>Sire</u> | [UNK / UNKNOWN] | | | | | | | | | | |

Page 4 of 5

360 Report Start Date 10/Jul/2024 Report End Date 10/Jul/2024 **Taxon Report Brachylophus**

| | | | DN | /14-13269 Local | ID: 911032 | | |
|--|--|----------------------|------------|---|--|-----------------|------------------------------------|
| Individual | Fiji ba | nded i | guan | a Enda | angered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | <u>Owi</u> | Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 11/Jan/2011 | Birth/Hatch | ln | ln | SANDIEGOZ/911032 | - | - | |
| Sex/Contraception | Female / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| Enclosure Boosing | BB20004 Sanford Children's Zoo Enclos | ure | | Birth Date/Age | 11/Jan/2011 / 13Y,5M,29D | | |
| <u>Rearing</u> D <u>am</u> | None [GAN: 26754236 SANDIEGOZ / 908536 | | | Local ID Regional Studbook # | [911032/SANDIEGOZ] [232-AZA /SANDIEGOZ] | | |
| Sire | [GAN: 23054322 SANDIEGOZ / 908137 | | | Transponder | [0007356c75/[Leg/Hind, Left]/SANDIEGOZ] | | |
| | | | DN' | /14-13972 Local | ID: 913268 | | |
| Individual | Fiji ba | nded i | guan | a Enda | angered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | n Reported By | Disposition - Recipient/Local ID | Phy | Own Date out |
| 18/Jul/2013 | Birth/Hatch | | ln | SANDIEGOZ / 913268 | - | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Group | 1 | | Birth Date/Age | 18/Jul/2013 / 10Y,11M,22D | | |
| Rearing - | None | | | Local ID | [913268/SANDIEGOZ] | | |
| <u>Dam</u> Sire | [GAN: DNY14-12619 SANDIEGOZ / 907 [GAN: DNY14-12617 SANDIEGOZ / 907 | - | | Regional Studbook # | [236-AZA /SANDIEGOZ] | | |
| <u> </u> | [GAN. DIVI 14-12017 SANDIEGOZ / 907 | 100] | | | | | |
| | | | DN | /14-13974 Local | ID: 913270 | | |
| Individual | Fiji ba | nded i | guan | a Enda | angered (EN) | | Brachylophus bulabula |
| <u>Date in</u> | Acquisition - Vendor/Local ID | <u>Ph</u> y | Ow | n Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | Own Date out |
| 22/Jul/2013 | Birth/Hatch | ln | ln | SANDIEGOZ / 913270 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| Enclosure - | BB20004 Sanford Children's Zoo Enclos | ure | | Birth Date/Age | 22/Jul/2013 / 10Y,11M,18D | | |
| <u>Rearing</u> Dam | None | 4071 | | Local ID Regional Studbook # | [913270/SANDIEGOZ] | | |
| Sire | [GAN: DNY14-12619 SANDIEGOZ / 907 [GAN: DNY14-12617 SANDIEGOZ / 907 | - | | Regional Studbook # | [237-AZA /SANDIEGOZ] | | |
| | | | | | | | |
| | , | | | /14-14094 Local | | | |
| Individual Date in | Fiji ba Acquisition - Vendor/Local ID | | - | a Enda n Reported By | angered (EN) Disposition - Recipient/Local ID | Phy | Brachylophus bulabula Own Date out |
| 30/Dec/2013 | Birth/Hatch | <u> y</u> In | ln | SANDIEGOZ / 913465 | Dioposition Resipioning Lessen 12 | <u> y</u> | <u> </u> |
| Sex/Contraception | Female / - | | | Birth Type | Continue Dieth/Hetch | - | |
| Hybrid Status | Not a hybrid | | | Birth Location | Captive Birth/Hatch San Diego Zoo | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Group | j | | Birth Date/Age | 30/Dec/2013 / 10Y,6M,10D | | |
| Rearing | None | | | Local ID | [913465/SANDIEGOZ] | | |
| <u>Dam</u> | [GAN: DNY14-12619 SANDIEGOZ / 907 | - | | Regional Studbook # | [240-AZA /SANDIEGOZ] | | |
| <u>Sire</u> | [GAN: DNY14-12617 SANDIEGOZ / 907 | 105] | | | | | |
| | | | DN | /15-15894 Local | ID: 915094 | | |
| Individual | Fiji ba | | • | | angered (EN) | | Brachylophus bulabula |
| Date in | Acquisition - Vendor/Local ID | Phy | Owi | Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Own Date out |
| 15/Jun/2015 | Birth/Hatch | ln | ln | SANDIEGOZ / 915094 | - | - | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | |
| Hybrid Status | Not a hybrid | | | Birth Location | San Diego Zoo | | |
| <u>Enclosure</u> Rearing | AR07100 Reptile Mesa Enclosure Group | | | Birth Date/Age Local ID | 15/Jun/2015 / 9Y,0M,25D | | |
| <u>Dam</u> | - [GAN: DNY14-12619 SANDIEGOZ / 907 | 1071 | | LOCALID | [915094/SANDIEGOZ] | | |
| Sire | [GAN: DNY14-12617 SANDIEGOZ / 907 | - | | | | | |
| | | | BP | L16-02624 Local | ID: 916097 | | |
| | | | auan | a Enda | angered (EN) | | Brachylophus bulabula |
| Individual | Fiji ba | nded i | guan | | | | |
| | Fiji ba <u>Acquisition - Vendor/Local ID</u> | | _ | n Reported By | <u>Disposition - Recipient/Local ID</u> | <u>Phy</u> | Own Date out |
| Date in | • | | _ | | Disposition - Recipient/Local ID - | Phy - | Own Date out |
| Date in 11/Jun/2016 11/Jun/2016 | Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916097 | Phy - In | Owi | Reported By SANDIEGOZ / 916097 LOWRY / 303663 | <u>Disposition - Recipient/Local ID</u> - Loan Return To Owner SANDIEGOZ/916097 | Phy - Out | |
| Date in 11/Jun/2016 11/Jun/2016 30/Oct/2018 | Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916097 Loan Return to Us Sender: LOWRY/303663 | Phy - | Owi | A Reported By SANDIEGOZ / 916097 LOWRY / 303663 SANDIEGOZ / 916097 | Loan Return To Owner SANDIEGOZ/916097 | - | |
| Date in 11/Jun/2016 11/Jun/2016 30/Oct/2018 Sex/Contraception | Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916097 Loan Return to Us Sender: LOWRY/303663 Male / - | Phy - In | Owi | n Reported By SANDIEGOZ / 916097 LOWRY / 303663 SANDIEGOZ / 916097 Birth Type | Loan Return To Owner SANDIEGOZ/916097 - Captive Birth/Hatch | - | |
| Date in 11/Jun/2016 11/Jun/2016 30/Oct/2018 Sex/Contraception Hybrid Status | Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916097 Loan Return to Us Sender: LOWRY/303663 Male / - Not a hybrid | Phy - In In | Owi | A Reported By SANDIEGOZ / 916097 LOWRY / 303663 SANDIEGOZ / 916097 Birth Type Birth Location | Loan Return To Owner SANDIEGOZ/916097 Captive Birth/Hatch ZooTampa at Lowry Park | - | |
| Date in 11/Jun/2016 11/Jun/2016 30/Oct/2018 Sex/Contraception Hybrid Status Enclosure | Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916097 Loan Return to Us Sender: LOWRY/303663 Male / - | Phy - In In | Owi | n Reported By SANDIEGOZ / 916097 LOWRY / 303663 SANDIEGOZ / 916097 Birth Type | Loan Return To Owner SANDIEGOZ/916097 - Captive Birth/Hatch | - | |
| Individual Date in 11/Jun/2016 11/Jun/2016 30/Oct/2018 Sex/Contraception Hybrid Status Enclosure Rearing Dam Sire | Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916097 Loan Return to Us Sender: LOWRY/303663 Male / - Not a hybrid | Phy - In In | Owi | A Reported By SANDIEGOZ / 916097 LOWRY / 303663 SANDIEGOZ / 916097 Birth Type Birth Location Birth Date/Age | Captive Birth/Hatch ZooTampa at Lowry Park 11/Jun/2016 / 8Y,0M,29D | - | |

| BPL16-02622 Local ID: 916099 | | | | | | | | | | |
|--|---|---|---|---------------------------------------|--|--|--|--|--|--|
| Fiji band | ded iç | guana | a Endar | ngered (EN) | | Brachylophus bulabul | | | | |
| Acquisition - Vendor/Local ID | Phy | Own | Reported By | Disposition - Recipient/Local ID | Phy | Owi | n Date out | | | |
| Birth/Hatch | - | ln | SANDIEGOZ / 916099 | - | - | - | - | | | |
| Birth/Hatch Owner: SANDIEGOZ/916099 | ln | - | LOWRY / 303661 | Loan Return To Owner SANDIEGOZ/916099 | Out | - | 30/Oct/2018 | | | |
| Loan Return to Us Sender: LOWRY/303661 | ln | - | SANDIEGOZ/916099 | - | - | - | - | | | |
| Female / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Not a hybrid | | | Birth Location | • | | | | | | |
| • | | | Birth Date/Age | , , | | | | | | |
| - | | | Local ID | [916099/SANDIEGOZ] | | | | | | |
| [GAN: BPL13-01636 303582/LOWRY] | | | Regional Studbook # | [250-AZA /SANDIEGOZ] | | | | | | |
| [GAN: 26754255 303631/LOWRY] | | | | | | | | | | |
| | Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916099 Loan Return to Us Sender: LOWRY/303661 Female / - Not a hybrid AR07100 Reptile Mesa Enclosure Group - [GAN: BPL13-01636 303582/LOWRY] | Acquisition - Vendor/Local ID Phy Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916099 In Loan Return to Us Sender: LOWRY/303661 In Female / - Not a hybrid AR07100 Reptile Mesa Enclosure Group [GAN: BPL13-01636 303582/LOWRY] | Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916099 In - Loan Return to Us Sender: LOWRY/303661 In - Female / - Not a hybrid AR07100 Reptile Mesa Enclosure Group [GAN: BPL13-01636 303582/LOWRY] | Acquisition - Vendor/Local ID | Acquisition - Vendor/Local ID Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916099 Loan Return to Us Sender: LOWRY/303661 N - SANDIEGOZ/916099 Female / - Not a hybrid AR07100 Reptile Mesa Enclosure Group - GAN: BPL13-01636 303582/LOWRY Regional Studbook # Disposition - Recipient/Local ID Loan Return To Owner SANDIEGOZ/916099 - Captive Birth/Hatch Captive Birth/Hatch ZooTampa at Lowry Park 4/Jun/2016 / 8Y,1M,6D [916099/SANDIEGOZ] [916099/SANDIEGOZ] | Acquisition - Vendor/Local ID Phy Own Reported By Disposition - Recipient/Local ID Phy Birth/Hatch Birth/Hatch Owner: SANDIEGOZ/916099 In SANDIEG | Acquisition - Vendor/Local ID Phy Own Reported By Disposition - Recipient/Local ID Phy Own Birth/Hatch - In SANDIEGOZ / 916099 - <td< td=""></td<> | | | |

| | SYC16-01173 Local ID: 916380 | | | | | | | | | | |
|-------------------|---|------------|--------|--------------------|---------------------------------------|---------------------|-----------|-------------|--|--|--|
| Individual | Fiji band | guan | a Enda | ingered (EN) | Bra | achylophus bulabula | | | | | |
| Date in | Acquisition - Vendor/Local ID | <u>Phy</u> | Owr | Reported By | Disposition - Recipient/Local ID | <u>Phy</u> | <u>Ow</u> | n Date out | | | |
| 8/Jan/2016 | Birth/Hatch | - | ln | SANDIEGOZ / 916380 | - | - | - | - | | | |
| 8/Jan/2016 | Birth/Hatch Owner: SANDIEGOZ/916380 | ln | - | NZP-WASH / 307587 | Loan Return To Owner SANDIEGOZ/916380 | Out | - | 23/May/2019 | | | |
| 23/May/2019 | Loan Return to Us Sender: NZP-WASH/307587 | ln | - | SANDIEGOZ/916380 | - | - | - | - | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Smithsonian National Zoological Park | | | | | | |
| <u>Enclosure</u> | AR07100 Reptile Mesa Enclosure Group | | | Birth Date/Age | 8/Jan/2016 / 8Y,6M,2D | | | | | | |
| Rearing | None | | | Local ID | [916380/SANDIEGOZ] | | | | | | |
| <u>Dam</u> | [GAN: 25216178 307298/NZP-WASH] | | | | • | | | | | | |
| Sire | [GAN: DNY14-12765 307492/NZP-WASH] | | | | | | | | | | |
| | | | | | | | | | | | |

| | SYC16-01175 Local ID: 916382 | | | | | | | | | | | |
|-------------------|---|-------------|-----|--------------------|---------------------------------------|-----|-----------|-------------|--|--|--|--|
| Individual | Fiji band | ngered (EN) | | Bra | achylophus bulabula | | | | | | | |
| Date in | Acquisition - Vendor/Local ID | Phy | Owr | Reported By | Disposition - Recipient/Local ID | Phy | <u>Ow</u> | n Date out | | | | |
| 16/Jan/2016 | Birth/Hatch | - | ln | SANDIEGOZ / 916382 | - | - | - | = | | | | |
| 16/Jan/2016 | Birth/Hatch Owner: SANDIEGOZ/916382 | ln | - | NZP-WASH / 307589 | Loan Return To Owner SANDIEGOZ/916382 | Out | - | 23/May/2019 | | | | |
| 23/May/2019 | Loan Return to Us Sender: NZP-WASH/307589 | ln | - | SANDIEGOZ / 916382 | - | - | - | • | | | | |
| Sex/Contraception | Male / - | | | Birth Type | Captive Birth/Hatch | | | | | | | |
| Hybrid Status | Not a hybrid | | | Birth Location | Smithsonian National Zoological Park | | | | | | | |
| Enclosure | AR07100 Reptile Mesa Enclosure Group | | | Birth Date/Age | 16/Jan/2016 / 8Y.5M.24D | | | | | | | |
| Rearing | None | | | Local ID | [916382/SANDIEGOZ] | | | | | | | |
| Dam | [GAN: 25216178 307298/NZP-WASH] | | | | | | | | | | | |
| Sire | [GAN: DNY14-12765 307492/NZP-WASH] | | | | | | | | | | | |

| Preferred ID | GAN | Sex | Age at Date | Date | Transaction | Vendor/ Vend Recipient ID |
|--------------------|-------------|--------------|-------------|---------------|-------------|------------------------------|
| Fiji banded iguana | | | Brachylo | ohus bulabula | | |
| 1000031 | DNY19-33416 | Female | 0Y,0M,0D | 14/Jan/2019 | Birth/Hatch | |
| 1000366 | DNY19-33983 | Female | 0Y,0M,0D | 4/May/2019 | Birth/Hatch | |
| 1001350 | DNY19-35586 | Male | 0Y,0M,0D | 4/Dec/2019 | Birth/Hatch | |
| 1001424 | DNY20-35708 | Male | 0Y,0M,0D | 2/Jan/2020 | Birth/Hatch | |
| 1001426 | DNY20-35712 | Male | 0Y,0M,0D | 4/Jan/2020 | Birth/Hatch | |
| 1001427 | DNY20-35713 | Female | 0Y,0M,0D | 4/Jan/2020 | Birth/Hatch | |
| 1001506 | DNY20-35827 | Female | 0Y,0M,0D | 23/Jan/2020 | Birth/Hatch | |
| 1001736 | DNY20-36502 | Male | 0Y,0M,0D | 29/Mar/2020 | Birth/Hatch | |
| 1001739 | DNY20-36509 | Female | 0Y,0M,0D | 31/Mar/2020 | Birth/Hatch | |
| 1001800 | DNY20-36616 | Male | 0Y,0M,0D | 22/Apr/2020 | Birth/Hatch | |
| 1001873 | DNY20-36705 | Male | 0Y,0M,0D | 15/May/2020 | Birth/Hatch | |
| 1001881 | DNY20-36715 | Female | 0Y,0M,0D | 18/May/2020 | Birth/Hatch | |
| 1001896 | DNY20-36740 | Female | 0Y,0M,0D | 27/May/2020 | Birth/Hatch | |
| 1001910 | DNY20-36760 | Male | 0Y,0M,0D | 2/Jun/2020 | Birth/Hatch | |
| 1003309 | HFV20-24487 | Male | 0Y,0M,0D | 13/Jun/2020 | Birth/Hatch | |
| 1003310 | HFV20-24491 | Female | 0Y,0M,0D | 22/Jun/2020 | Birth/Hatch | |
| 1003850 | DNY22-39673 | Undetermined | 0Y,0M,0D | 25/Apr/2022 | Birth/Hatch | |
| 1004211 | DNY22-40317 | Undetermined | 0Y,0M,0D | 15/Jul/2022 | Birth/Hatch | |
| 1004212 | DNY22-40318 | Undetermined | 0Y,0M,0D | 15/Jul/2022 | Birth/Hatch | |
| 1004616 | DNY22-40954 | Undetermined | 0Y,0M,0D | 26/Sep/2022 | Birth/Hatch | |
| 1004736 | DNY22-41131 | Undetermined | 0Y,0M,0D | 31/Oct/2022 | Birth/Hatch | |
| 1004787 | DNY22-41202 | Undetermined | 0Y,0M,0D | 10/Nov/2022 | Birth/Hatch | |
| 1005024 | DNY23-41650 | Undetermined | 0Y,0M,0D | 21/Feb/2023 | Birth/Hatch | |
| 1005037 | DNY23-41669 | Undetermined | 0Y,0M,0D | 2/Mar/2023 | Birth/Hatch | |

| Preferred ID | GAN | Sex | Age at Date | Date | Transaction | Vendor/ Vendo Recipient ID |
|--------------------|----------------|--------------|-------------|--------------------------------------|-------------|-------------------------------|
| Fiji banded iguana | | | Brachyloph | ius bulabula | | |
| 1000366 | DNY19-33983 | Female | 4Y,6M,13D | 17/Nov/2023 | Death | |
| 1001350 | DNY19-35586 | Male | 3Y,9M,4D | 8/Sep/2023 | Death | |
| 1003850 | DNY22-39673 | Undetermined | 0Y,0M,0D | 25/Apr/2022 | Death | |
| 901017 | 8230857 | Male | 21Y,9M,2D | 18/Nov/2022 | Death | |
| 901172 | MIG12-29901948 | Female | 17Y,5M,17D | 2/Apr/2019 | Death | |
| 903032 | 25215433 | Male | 16Y,8M,14D | 11/Dec/2019 | Death | |
| 903036 | 23053413 | Female | 17Y,1M,11D | 13/May/2020 | Death | |
| 903228 | 13843529 | Male | 16Y,2M,29D | 10/Jan/2020 | Death | |
| 907529 | 23054149 | Male | 12Y,6M,2D | ~ from 10/Jun/2020 to 11/Jun/2020 | Death | |
| 907591 | 23054189 | Female | 11Y,2M,20D | 19/Mar/2019 | Death | |
| 908521 | 25216178 | Female | 14Y,8M,13D | 26/Aug/2023 | Death | |
| 908530 | 25216187 | Male | 12Y,5M,10D | 30/May/2021 | Death | |
| 909560 | DNY14-12744 | Male | 11Y,1M,23D | 15/Feb/2021 | Death | |
| 910003 | DNY14-12748 | Female | 9Y,3M,8D | 16/Apr/2019 | Death | |
| 913257 | DNY14-13969 | Female | 8Y,2M,22D | 3/Oct/2021 | Death | |
| 913258 | DNY14-13970 | Male | 9Y,8M,13D | 25/Mar/2023 | Death | |
| 913463 | DNY14-14092 | Male | 5Y,8M,15D | 14/Sep/2019 | Death | |
| 915092 | DNY15-15892 | Female | 8Y,3M,0D | 15/Sep/2023 | Death | |
| 915406 | SYC15-00891 | Male | 6Y,9M,10D | 4/Feb/2022 | Death | |
| 915407 | SYC15-00892 | Female | 6Y,11M,7D | 1/Apr/2022 | Death | |
| 917619 | SYC18-02924 | Female | 2Y,2M,30D | 13/Aug/2019 | Death | |
| 918011 | BPL18-02806 | Female | 4Y,4M,24D | 10/Jul/2022 | Death | |
| 918039 | BPL18-02921 | Female | 4Y,5M,7D | 16/Dec/2022 | Death | |
| 918476 | BPL18-02966 | Female | 4Y,4M,15D | 25/Mar/2023 | Death | |

^{**}Includes deaths of individuals on loan to other facilities.

| accession # | SDZ Nx # | Cause of Death Summary |
|-------------|----------|--|
| 1000366 | 71058 | egg binding, oviductal tear/prolapse |
| 1003850 | 68229 | euthanasia, peri-hatch death |
| 907529 | 65450 | bacterial sepsis (Salmonellosis) |
| 909560 | 66461 | euthanasia, bacterial sepsis, cystitis with urolithiasis |
| 910003 | 63136 | euthanasia, intestinal entrapment, yolk coelomitis |
| 913463 | 64208 | euthanasia, renal and articular gout |
| 915092 | 70793 | euthanasia, renal and articular gout |
| 915406 | 67874 | euthanasia, heart disease/failure, chronic coelomitis |
| 917619 | 63974 | euthanasia, yolk coelomitis, post-surgical complications |
| 918476 | 69870 | euthanasia, yolk coelomitis |
| | | |

** Individuals which died at San Diego Zoo facility.

Following any death, a full necropsy is completed and results inform evaluation of husbandry practices. We also have multiple Pathologists on staff that review all deaths and provide detailed findings. We review these cases each month in a Vet meeting and discuss ideas and options to improve all animal care. Necessary changes are implemented.

SDZWA employees multiple on staff veterinarians and full teams of vet techs that assist with evaluation of health needs. Yolk peritonitis and reproductive health issues is common in the female Fiji iguanas. Though we see an emerging pattern to suggest this is age related, we have adjusted diets recently (excluding insects as they do not eat insects in the wild).

We will continue to follow Association of Zoos and Aquariums (AZA) policy regarding the use of humane euthanasia, as outlined in the AZA Policy on Responsible Population Management. All procedures are performed in accordance with the AVMA/AAZV guidelines.

1

CONTAINER REQUIREMENT 41

CITES

pecies.

ng the ust be of live

The illustrations shown in this Container Requirement are examples only. Containers that conform to the principle of written standards for the species but look slightly different will still be considered compliant with the IATA minimum standards.

Applicable to:

Caiman lizard

Lizards and Tuataras

Venemous lizards that must be packed like venomous/poisonous snakes (see Container Requirements 44), are:

Gila monster, Beaded lizard (Heloderma spp.)
Komodo dragon (Varanus komodoensis)

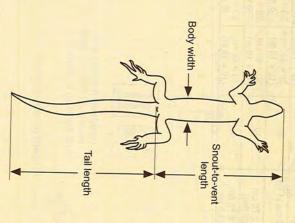
STATE VARIATIONS: GBG-01/02/04, USG-Variations
OPERATOR VARIATIONS: D0-06, GF-07, KL-03,

QY-06, UA-01

The following instructions must be complied with in addition to the principles laid down in the General Container Requirements for Reptiles and Amphibians.

Measurement

Lizards (including Chameleons) and tuataras should be measured by snout-to-vent length (SVL), tail length and in body width (BW).



Specific Requirements

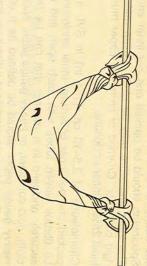
All containers and bags should have some kind of packing material (i.e. crumpled paper). Animals in the same containers or bags should belong to the same size class to avoid damage to smaller individuals.

The maximum number of animals per bag or container must not be increased even when larger bags or containers are used.

Packing Density for Lizards and Tuataras (not including Chameleons and farmed Iguana iguana):

| - | | | | | | |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-------------------------------------|--------------------------------|
| ~ 10 cm (4 in) | | 2 10 < 15 cm (4 < 6 in) | | ≥ 15 < 20 cm (6 < 8 in) | | Snouth-vent- length (SVL) |
| < 2.5 cm (1 in) | < 2.5 cm (1 in) | | < 2.5 cm (1 in) | | 2 5 cm (2 in) | Body-width (BW) |
| 30 | 20 | 30 | 10 | 15 | Officer user of | Maximum no. of animals per bag |
| 30 × 45 cm (12 × 18 in) | 30 × 45 cm (12 × 18 in) | 45 × 60 cm (18 × 24 in) | 30 × 45 cm (12 × 18 in) | 45 × 60 cm (18 × 24 in) | Depending on the size of the animal | Minimum bag size |

If the bag is suspended the bag must be suspended horizontally from opposite ends of the bag the maximum number of animals per bag should be divided by two.



For lizards, rigid containers can be used instead of bags with a maximum of 25 animals, up to 30 cm (12 in) total length. The length of the container should be at least the snout vent length plus half the tail length.

These containers must be rigid and able to support the entire weight of all the other containers when stacked upright and if turned upside down, without failing structurally (without bending, cracking or collapsing). The size of these containers must enable the animals to have contact with their whole ventral surface to the floor of the container.

Arboreal geckos will be provided the use of the surface area of the floor and wall space of rigid containers.

Large Animals

Lizards whose length range from 90–120 cm (36–48 in) SVL require double bags for shipping.

Lizards of 120 cm (48 in) SVL or more in length must follow the same primary enclosure requirements as crocodiles excluding the taping or banding of the mouth.

The direction of the head should be indicated on the outer enclosure.

4 1

 ∞

Lizard species that should be packed singly because they are either aggressive, cannibalistic or delicate:

Malagasy leaf geckoes (Uroplates spp.)

New Caledonian giant geckoes (Rhacodactylus spp.)

Asian gliding agamid (Draco spp.)

Sail-finned lizard (Hydrosaurus spp.)

Angle-headed dragon (Gonocephalus spp.)

Helmeted basiliscs (Corytophanes spp.; basilicus spp.)–(except hatchlings and juveniles)

Caiman lizard (Dracaena spp.)

Emerald tree monitor lizard (Varanus prasinus)

Black tree monitor lizard (Varanus beccari)

Solomon Island pre-hensile tailed skink (Corucia zebrata)

Specific Requirements for Chameleons including African Dwarf Chameleons (Rhamphoelon) and Malagasy Dwarf Chameleons (Brookesia)

All species with the exception of young and small specimens (see below) must be packed individually.

Chameleons 10 cm (4 in) or greater in SVL need to be packed in adequate space to rest naturally. The enclosure needs to conform to the body shape and size. Specimens should be packed one per inner enclosure. The inner enclosure may be cloth, woven material, or rigid container. Crushed or crumpled paper must fill at least 25% of inner enclosure.

Chameleons of 2.5–10 cm (1–4 in) in SVL must be packed one per inner enclosure. Inner enclosures may be fibrous woven tubes with each open end of tube securely enclosed in a manner that can be resealed, cloth, rigid container, or heavy gauge paper enclosures. Heavy gauge paper should be defined as a container that is sufficient to hold specimens without escape.

Inner enclosures must be easily opened and closed. If heavy gauge paper enclosures are used as inner enclosures, they must be secured to a frame of support bars in the primary or outer enclosure with tacks or nails with head diameter of at least 0.6 cm (1/4 in). No burlap (hessian) bags as inner enclosures are permitted.

Chameleons less than 2.5 cm (1 in) SVL can be packed with a maximum of 10 per 0.5 liter rigid enclosure. At all times, the specimens must be able to have full contact with the container floor. At least 50% of the inner enclosure must be filled with loosely crumpled paper.

Crushed or crumpled paper must be provided to ensure a foothold for the animal.

Since farmed Green Iguanas (Iguana iguana) are usually in good condition, free of diseases and used to handling, the use of following special packing density is allowed.

Packing Density for Farmed Green Iguanas (Iguana iguana)

| Snout-vent- length (SVL) | Maximum no. of animals per bag/box | Minimum box size | Minimum bag size |
|-----------------------------|--|---|---|
| > 25 cm (10 in) | point that at a sulfact of | Depending on the size of the animal | o) nor but Transactus |
| > 20 cm (8 in) | 6 | 45 × 85 cm (18 × 34 in) | imenu <u>er</u> ala |
| > 17.5 cm (7 in) | 6 | 30 × 60 cm (12 × 24 in) | 20 × 40 × 9 cm (8 × 16 × 3 3/8) |
| > 12.5 cm (5 in) | 20 | 30 × 45 cm (12 × 18 in) | 20 × 40 × 6.5 cm (8 × 16 × 2 3/8) |
| > 10 cm (4 in) | 30 | 30 × 45 cm (12 × 18 in) | 20 × 40 × 4.5 cm (8 × 16 × 1 ³ / ₄) |
| > 8.75 cm (3.5 in) | 40 | 30 × 45 cm (12 × 18 in) | 20 × 40 × 4.5 cm (8 × 16 × 1 ³ / ₄) |
| 0-8.75 cm (3.5 in) | 50 | 30 × 45 cm (12 × 18 in) | 20 × 40 × 4.5 cm (8 × 16 × 1¾) |

ALTO COM INNY ROLE DISCOUNT

temperature fluctuations

osed. If enclosbars in alls with burlap

packed e. At all contact e inner per.

ensure

usually andling, owed.

anas

imum 3 size

0 × 9 cm 6 × 3 3/8)) × 6.5 cm 6 × 2 3/8) 0 × 4.5 cm 16 × 1 3/4) 0 × 4.5 cm 16 × 13/4)

0 × 4.5 cm 16 × 1³/₄)

NUARY 2023

EDITION 49, JANUARY 2023

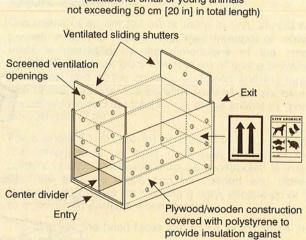
EXAMPLE:

Inside of ends to be smooth

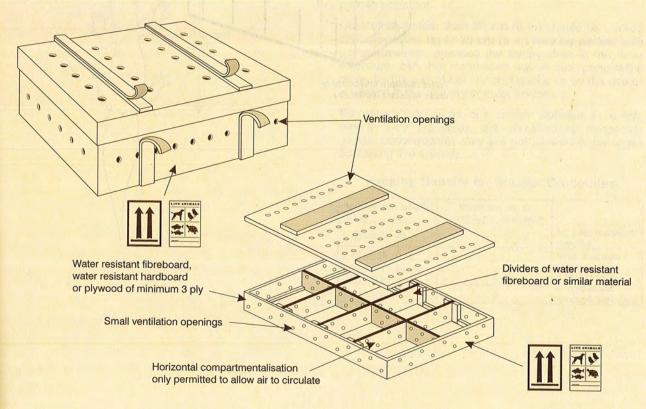
Plywood

Wood frame

MULTIPLE CONTAINER (suitable for small or young animals



EXAMPLE:



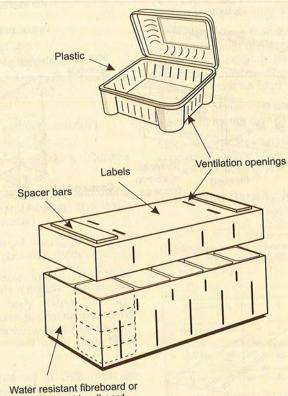
Screened

ventilation

openings

EXAMPLE:

MULTICOMPARTMENT CONTAINER



Water resistant fibreboard or water resistant hardboard

[EXTERNAL] RE: US CITES Management Authority - Response to Fiji Iguana Relocation San Diego Zoo - CS7841639

Correa Villalona, Angel Jose <acorrea3@tragsa.es>

Mon 7/29/2024 4:56 AM

To:Ketram, Natchanon N < natchanon_ketram@fws.gov>

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good morning Natchanon,

Sorry I did not reply earlier, I just came back from holidays. I am very pleased to meet you. Thank you for all the recap about the process and the estimated dates. I confirm that the iguana with the transponder # 941000023065134 is *B. fasciatus*. I mentioned wrong on the email, the application of the San Diego Zoo is correct. If you need more information, do not hesitate to contact me again.

Best regards,







Correa Villalona, Angel Jose

TSUP Cal Ev Amb y Med Natural Calidad/Ev.Ambiental/M.Natural / G. Calidad Evaluacion Ambienta Grupo Tragsa - SEPI

Calle JULIAN CAMARILLO 6 B - 28006 Madrid

Tel.: - 80230 / +34 610559265

acorrea3@tragsa.es

www.tragsa.es

AVISO LEGAL

POLITICA DE PRIVACIDAD, de conformidad con el Reglamento UE 2016/679 y la Ley Orgánica 3/2018

De: Ketram, Natchanon N < natchanon_ketram@fws.gov>

Enviado el: viernes, 26 de julio de 2024 20:03

Para: Correa Villalona, Angel Jose <acorrea3@tragsa.es>

Asunto: US CITES Management Authority - Response to Fiji Iguana Relocation San Diego Zoo - CS7841639

Dear colleague,

My name is Natchanon Ketram, the permit biologist who is reviewing San Diego Zoo's application to import Fijian iguanas from Spain. I was forwarded Rosemarie Gnam communication with you and I am reaching out to you to give a status update on this application as well inform you of what the process will be going forward. First up, I want to inform you that this application is a high priority for our office and that we are aware of the timeline you have presented. The good news is that our office had issued another permit for 6 iguanas that were part of the same seized shipment and the new application contains many of the same information from the other application. This means that there will be fewer back and forth between us and the applicant as we already asked questions of them in the prior application.

That said, as part of our domestic law, the Endangered Species Act (ESA), the import of any species listed as Endangered under the ESA needs to be published in the Federal Register in order to give the public the opportunity to provide theirs comments to us. Of the 3 iguanas that were submitted as part of this application, one of them was identified as *Brachylophus fasciatus*, which is listed under the ESA. This application has been put into queue for publication whereupon after publication, there will be an additional 30 day period for the public to provide their comments. Once the FR notice publish, we do anticipate a quick turnaround around. While the ESA process is underway, the CITES review will continue concurrently.

Given where the application is in the process, we do anticipate the review being completed in September although we do not have an exact timeframe within that month.

Having said all that, there is one question we have for you. Looking at the forwarded email, you mentioned correction you need to make on your export permit for three *Brachylophus bulabula* under the Transponder # 941000023065134, 941000023065238, and 941000023065239. In the application San Diego Zoo submitted, the iguana with the Transponder # 941000023065134 was identified as being *Brachylophus fasciatus*. Can you confirm if this animal is *B. bulabula* or *B. fasciatus*?

Thank you for any assistance you can provide and please don't hesitate to reach out to me if you have any questions.

Natchanon Ketram
Permit Biologist
Branch of Permits
Division of Management Authority
International Affairs Program
U.S. Fish and Wildlife Service
Falls Church, VA, USA

[EXTERNAL] Re: Inquiry Regarding CS7841639 - 3-200-37a: Import of live animals (ESA)

Brett Baldwin < BBaldwin@sdzwa.org>

Tue 8/13/2024 2:57 PM

To:Ketram, Natchanon N < natchanon_ketram@fws.gov>

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Hi Natchanon, here are the answers to your questions:

- 1. Can you confirm the number of individuals for the *Brachylophus spp. (B. fasciatus* and *B. bulabula*) you currently have at your facility? If possible, can you break this down by individual species? **We currently only have 27** *Brachylophus bulabula*.
 - a. Additionally, were the other six seized iguanas from Spain that we issued a permit under PER5681188 (24US56888E/9) imported into the US? If so, does the above total includes these new iguanas? No, they have not been imported into the US yet. We would like to import those 6 and the additional 3 at the same time.
 - b. Have there been any births or death that occurred within the last couple of months? We have not had any births within last couple of months.

 The last death was a male 31 May 2024.

Thanks, Brett

From: Ketram, Natchanon N <natchanon_ketram@fws.gov>

Sent: Monday, August 12, 2024 8:09 AM **To:** Brett Baldwin <BBaldwin@sdzwa.org>

Subject: Inquiry Regarding CS7841639 - 3-200-37a: Import of live animals (ESA)

Good morning,

The USFWS has questions regarding your application for a permit. I will provide these questions below:

- 1. Can you confirm the number of individuals for the *Brachylophus spp. (B. fasciatus* and *B. bulabula*) you currently have at your facility? If possible, can you break this down by individual species?
 - a. Additionally, were the other six seized iguanas from Spain that we issued a permit under PER5681188 (24US56888E/9) imported into the US? If so, does the above total includes these new iguanas?
 - b. Have there been any births or death that occurred within the last couple of months?

In accordance with 50 CFR 13.11(e), if the requested information is not received by this office by **September 26**, **2024**, your application will be abandoned and administratively closed. Once a file is closed you will need to

submit a new application and all required fees for the Service to consider your proposed activity. Please refer to permit application number CS7841639 in your correspondence.

Thank you,

Natchanon Ketram
Permit Biologist
Branch of Permits
Division of Management Authority
International Affairs Program
U.S. Fish and Wildlife Service
Falls Church, VA, USA