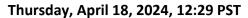
Daily Space Weather Summary (SUPARCO)





18.0

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)				7.2 MHz				
Virtual Height of F2 layer (h`F2)				254 km				
Total Electron Content (TEC)				32 TECU				
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances								
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	7.4	7.7	8.8	10.4	12.2	13.8	17.4	21.1

Local HF conditions are normal as compared to the predicted monthly median MUF.

7.5

6.5

LOCAL GEOMAGNETIC CONDITIONS				
K-index	0 (Quiet)			
Total Field (F) (Son/Isb)	45546/50656 nT			

8.8

10.4

11.7

14.8

The local geomagnetic field is quiet at the moment.

6.3

FOT

(MHz)

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	199			
Solar radio flux (F10.7)	217 sfu			
Solar wind speed	375.0 km/s (varied in the past 24 hrs between 320 & 481 km/s)			
Solar x-ray flares	C3.4 (max flare in the past 24 hrs (M2, 0248 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.9 nT (varied in the past 12 hrs between +6.7 nT & +9.6 nT) +6.8 nT (varied in the past 12 hrs between +4.3 nT & +7.5 nT)			
Solar conditions are at low to moderate levels with background V ray flux at C class level				

Solar conditions are at low to moderate levels with background X-ray flux at C-class level.

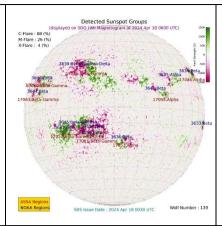
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

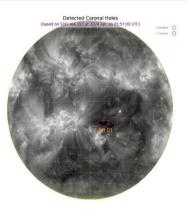
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 18 April 2024

There are two active regions AR3639 and AR3645 present on the Sun capable of producing strong M and X-class solar flares having chances of 26% and 4% respectively.

01 Coronal Hole (CH) is detected on the solar disk.





DISCUSSION:

Solar activity is expected to be at low to moderate levels. Multiple M-class solar flares, have already occurred from the regions mentioned. In case of more M/X-class solar flares, minor to moderate radio blackouts may be observed. Low to moderate solar wind speed and quiet geomagnetic activity is expected. HF conditions are normal.