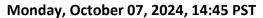
Daily Space Weather Summary (SUPARCO)





30.6

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LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				14.4 MHz					
Virtual Height of F2 layer (h`F2)				378 km					
Total Electron Content (TEC)				78 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)	14.5	14.8	16.1	17.9	20.1	22.5	28.3	36.0	

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

13.7

12.6

LOCAL GEOMAGNETIC CONDITIONS				
K-index	2 (Quiet)			
Total Field (F) (Son/Isb)	45615/51728 nT			

15.2

17.1

19.1

24.1

The local geomagnetic field is quiet at the moment.

12.3

FOT

(MHz)

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	167			
Solar radio flux (F10.7)	265 sfu			
Solar wind speed	480.0 km/s (varied in the past 24 hrs between 623 & 368 km/s)			
Solar x-ray flares	C6.6 (max flare in the past 24 hrs (M1, 2119 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+11.24 nT (varied in the past 12 hrs between +8.79 nT & +13.76 nT) -0.3 nT (varied in the past 12 hrs between -11.14 nT & +3.58 nT)			
Solar conditions are at moderate levels with background X-ray flux at C-class level.				

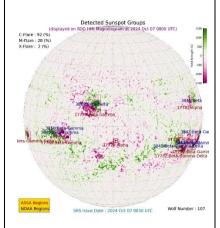
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

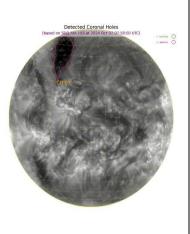
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 7 October 2024

There are six active regions AR3842, AR3843, AR3844, AR3848, AR3849 and AR3850 present on the Sun capable of producing strong C and M-class solar flares having chances of 28% and 2% respectively.

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





DISCUSSION:

Solar activity is expected to be at moderate levels. Multiple M-class solar flares, have already occurred from the regions present on the solar limb. 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 to unsettled geomagnetic conditions are expected. HF conditions are enhanced.