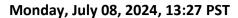
## **Daily Space Weather Summary (SUPARCO)**





22.4

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				9.2 MHz					
Virtual Height of F2 layer (h`F2)				286 km					
Total Electron Content (TEC)				60 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)	9.3	9.7	11.0	12.9	15.1	17.1	21.9	26.7	

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

8.2

9.4

LOCAL GEOMAGNETIC CONDITIONS				
K-index	1 (Quiet)			
Total Field (F) (Son/Isb)	45645/50745 nT			

10.9

12.8

14.5

18.6

The local geomagnetic field is quiet at the moment.

7.9

FOT

(MHz)

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	119			
Solar radio flux (F10.7)	171 sfu			
Solar wind speed	393.4 km/s (varied in the past 24 hrs between 325 & 417 km/s)			
Solar x-ray flares	C3.4 (max flare in the past 24 hrs (M2, 2231 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+8.5 nT (varied in the past 12 hrs between +3.2 nT & +7.5 nT) +0.7 nT (varied in the past 12 hrs between -5.9 nT & +1.5 nT)			
Solar conditions are at low to moderate levels with background X-ray flux at C-class level.				

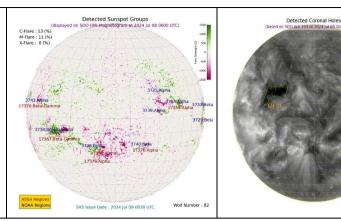
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

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

Daily Sun: 8 July 2024

There is one active region AR3738 present on the Sun capable of producing strong C and M-class solar flares having chances of 53% and 11% 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 above. 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.