

Daily Space Weather Summary (SUPARCO)

Thursday, June 15, 2023, 12:15 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)		11.0 MHz						
Virtual Height of F2 layer (h`F2)		298 km						
Total Electron Content (TEC)		49 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)	11.2	11.6	13.1	15.1	17.5	19.9	25.4	28.3
FOT (MHz)	9.5	9.9	11.1	12.8	14.9	16.9	21.6	24.1
Local HF conditions are normal as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
K-index		0 (Quiet)						
Total Field (F) (Son/Isb)		45514/50024 nT						
The local geomagnetic field is quiet at the moment.								
LATEST SOLAR CONDITIONS								
Sunspot Number (SN)		107						
Solar radio flux (F10.7)		144 sfu						
Solar wind speed		351.9 km/s (varied in the past 24 hrs between 313 & 384 km/s)						
Solar x-ray flares		C2.0 (max flare in the past 24 hrs (C6, 2259 UT)						
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)		+6.7 nT (varied in the past 12 hrs between +5.4 nT & +6.5 nT) -4.2 nT (varied in the past 12 hrs between -3.3 nT & +1.1 nT)						
Solar conditions are at low levels with background X-ray flux at C-class level.								

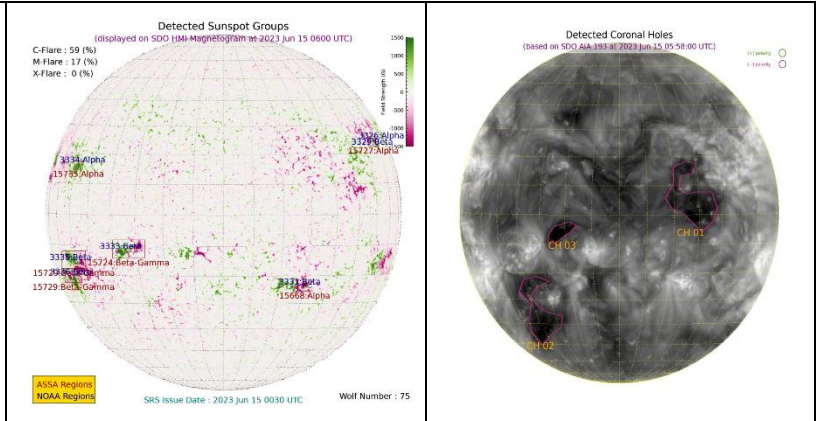
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 15 June 2023

There is no active region present on the Sun capable of producing strong solar flares.

03 Coronal Holes (CHs) are detected on the solar disk.



DISCUSSION:

Solar activity is expected to be at low levels. In case of solar flares, shortwave fadeouts may be observed. Low solar wind speed and quiet geomagnetic activity is expected. HF conditions are normal.