

Daily Space Weather Summary (SUPARCO)

Tuesday, July 04, 2023, 12:30 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	10.4 MHz							
Virtual Height of F2 layer (h`F2)	288 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)	10.5	11.0	12.5	14.5	16.8	19.2	24.7	28.2
FOT (MHz)	8.8	9.4	10.6	12.3	14.3	16.3	21.0	24.0

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	1 (Quiet)
Total Field (F) (Son/Isb)	45525/50035 nT

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	117
Solar radio flux (F10.7)	173 sfu
Solar wind speed	383.0 km/s (varied in the past 24 hrs between 494 & 342 km/s)
Solar x-ray flares	C3.7 (max flare in the past 24 hrs (C8, 2112 UT))
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+5.3 nT (varied in the past 12 hrs between +5.6 nT & +6.6 nT) +0.1 nT (varied in the past 12 hrs between -3.3 nT & +0.5 nT)

Solar conditions are at moderate 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

