

Daily Space Weather Summary (SUPARCO)

Monday, June 03, 2024, 13:11 PST



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
FOT (MHz)	7.9	8.2	9.4	10.9	12.8	14.5	18.6	22.4

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)	45648/50658 nT

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	186
Solar radio flux (F10.7)	180 sfu
Solar wind speed	294.9 km/s (varied in the past 24 hrs between 303 & 346 km/s)
Solar x-ray flares	C2.3 (max flare in the past 24 hrs (M1, 0850 UT))
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+5.6 nT (varied in the past 12 hrs between +2.8 nT & +5.6 nT) -2.1 nT (varied in the past 12 hrs between -3.8 nT & +4.2 nT)

Solar conditions are at low to 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

