

# Daily Space Weather Summary (SUPARCO)

Tuesday, August 26, 2025, 12:21 PST



Radio Blackouts			Solar Radiation Storms			Geomagnetic Storms		
-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	-24 Hr	Current	Predicted
R0 – R1	R0 / R1	R1 – R2	S0	S0	S0	G0	G0	G0

## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	11.2 MHz
Virtual Height of F2 layer (h`F2)	360 km
Total Electron Content (TEC)	74 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)	11.4	11.6	13.3	15.2	19.8	22.9	24.3	26.3
FOT (MHz)	9.7	9.9	11.3	13.2	16.9	19.6	20.7	22.4

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

## LOCAL GEOMAGNETIC CONDITIONS

K-index	2 (Quiet)
Total Field (F) (Son/Isb)	45775/50710 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

Sunspot Number (SN)	136
Solar radio flux (F10.7)	175 sfu
Solar wind speed	399.3 km/s (varied in the past 24 hrs between 366 & 457 km/s)
Solar x-ray flares	C8.5 (max flare in the past 24 hrs (M4, 0525 UT)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+5.3 nT (varied in the past 12 hrs between +5.46 nT & +7.21 nT) +1.71 nT (varied in the past 12 hrs between -6.09 nT & +5.35 nT)

Solar conditions are at low to moderate levels with background X-ray flux at C-class level.

There are two active regions AR4191 and AR4197 present on the Sun capable of producing strong M and X-class solar flares having chances of 28% and 1% respectively.

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

