

Daily Space Weather Summary (SUPARCO)

Wednesday, November 05, 2025, 12:00 PST



Radio Blackouts			Solar Radiation Storms			Geomagnetic Storms		
-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	-24 Hr	Current	Predicted
R0 – R3	R0 / R1	R1 – R2	S0	S0	S1	G0	G0	G0

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	13.5 MHz
Virtual Height of F2 layer (h`F2)	285 km
Total Electron Content (TEC)	90 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)	13.5	15.2	17.7	20.5	23.3	25.6	27.8	30.4
FOT (MHz)	11.5	12.9	15.2	17.5	19.8	21.8	23.7	25.9

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	4 (Unsettled)
Total Field (F) (Son/Isb)	45725/50720 nT

The local geomagnetic field is quiet to unsettled at the moment.

LATEST SOLAR CONDITIONS

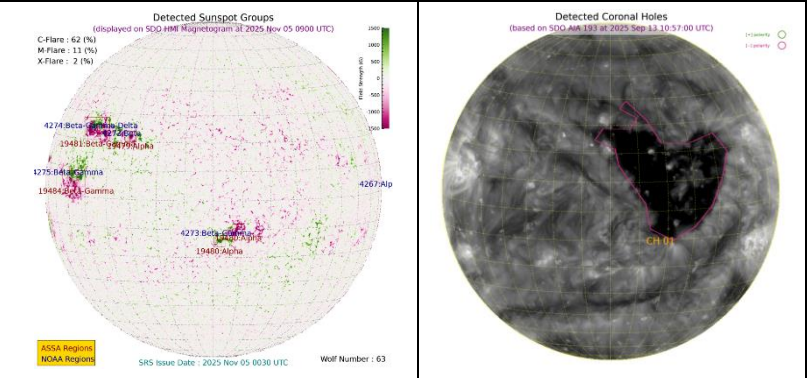
Sunspot Number (SN)	91
Solar radio flux (F10.7)	159 sfu
Solar wind speed	351.8 km/s (varied in the past 24 hrs between 347 & 433 km/s)
Solar x-ray flares	C2.2(max flare in the past 24 hrs (X1, 1734 UT)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.15nT (varied in the past 12 hrs between +5.18 nT & +6.15 nT) -3.3 nT (varied in the past 12 hrs between -5.24 nT & +3.3 nT)

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

Daily Sun: 5 November 2025

There are three active region present on the Sun capable of producing strong solar flares.

01 Coronal Hole (CH) is detected on the solar disk.



DISCUSSION:

Solar activity is expected to be at low levels. In case of M/X-class solar flares, minor level HF radio blackouts may be observed. Low levels of solar wind speed and quiet to unsettled geomagnetic activity is expected. HF conditions are normal.

Credits:

Solar conditions courtesy to SOHO, DSCOVR and GOES-16 missions.
NOAA SWPC is acknowledged for solar radio flux conditions.
Korean Space Weather Centre is acknowledged for solar disk and coronal hole images.

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

RSG SCALES

Radio Blackouts				
Minor	Moderate	Strong	Severe	Extreme
R1	R2	R3	R4	R5

Solar Radiation Storms				
Minor	Moderate	Strong	Severe	Extreme
S1	S2	S3	S4	S5

Geomagnetic Storms				
Minor	Moderate	Strong	Severe	Extreme
G1	G2	G3	G4	G5