

Daily Space Weather Summary (SUPARCO)

Monday, February 02, 2026, 14:49 PST



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

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	12.0 MHz
Virtual Height of F2 layer (h`F2)	298km
Total Electron Content (TEC)	70 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)	9.8	10.2	11.6	13.6	15.9	18.2	23.6	32.4
FOT (MHz)	8.3	8.6	9.9	11.6	13.5	15.5	20.0	27.5

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)	45710/50705 nT

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

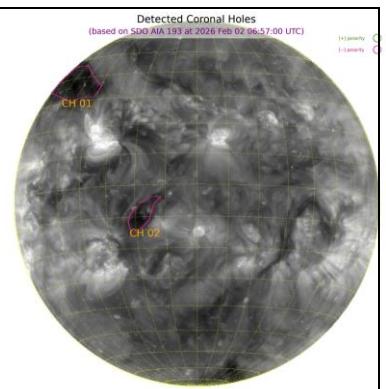
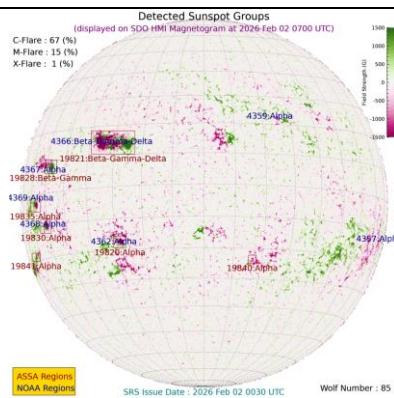
Sunspot Number (SN)	97
Solar radio flux (F10.7)	162 sfu
Solar wind speed	405.4 km/s (varied in the past 24 hrs between 300 & 405 km/s)
Solar x-ray flares	M1.17 (max flare in the past 24 hrs (X8, 2357 UT)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.0 nT (varied in the past 12 hrs between +4.0 nT & +7.0 nT) -3.0 nT (varied in the past 12 hrs between -5.0 nT & +2.0 nT)

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

Daily Sun: 2 February 2026

There is one active region on the Sun capable of producing strong solar flares.

Two Coronal Holes (CHs) is detected on the solar disk.



DISCUSSION:

Solar activity is expected to be at moderate to enhanced levels. Minor level HF radio blackouts may be observed. Low levels of solar wind speed and quiet levels of geomagnetic activity is expected. HF conditions are expected to be normal. HF radio blackouts may be observed in case of M/X class flares.

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

<u>Radio Blackouts</u>				
Minor	Moderate	Strong	Severe	Extreme
R1	R2	R3	R4	R5
<u>Solar Radiation Storms</u>				
Minor	Moderate	Strong	Severe	Extreme
S1	S2	S3	S4	S5
<u>Geomagnetic Storms</u>				
Minor	Moderate	Strong	Severe	Extreme
G1	G2	G3	G4	G5