

# Daily Space Weather Summary (SUPARCO)

Tuesday, January 13, 2026, 14:22 PST



Radio Blackouts			Solar Radiation Storms			Geomagnetic Storms		
-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	-24 Hr	Current	Predicted
R0	R0	R0	S0	S0	S0	G0	G0	G0

## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	11.4 MHz
Virtual Height of F2 layer (h`F2)	290 km
Total Electron Content (TEC)	68 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)	11.6	12.1	14.0	16.6	19.5	22.4	29.1	32.2
FOT (MHz)	9.9	10.3	11.9	14.1	16.6	19.0	24.7	27.4

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)	45703/50718 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

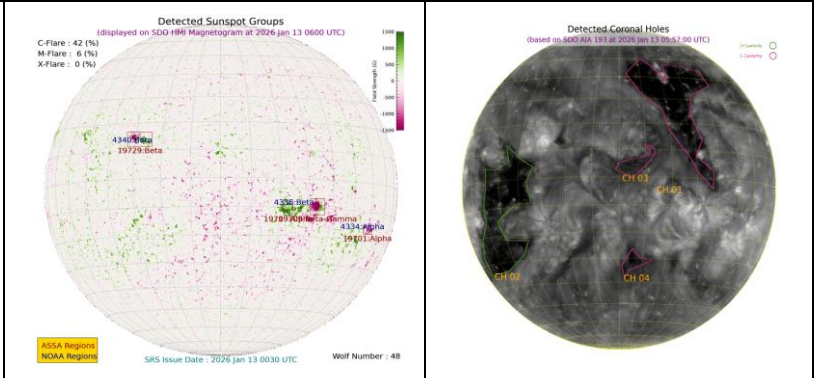
Sunspot Number (SN)	52
Solar radio flux (F10.7)	113 sfu
Solar wind speed	591.7 km/s (varied in the past 24 hrs between 471 & 665 km/s)
Solar x-ray flares	B7.4 (max flare in the past 24 hrs (C5, 1015 UT)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+7.13 nT (varied in the past 12 hrs between +5.54 nT & +7.68 nT) +3.29 nT (varied in the past 12 hrs between -3.79 nT & +6.04 nT)

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

## Daily Sun: 13 January 2026

There is no active region present on the Sun capable of producing strong solar flares.

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



### DISCUSSION:

Solar activity is expected to be at low to moderate levels. In case of M/X-class solar flares, shortwave fadeouts may be observed. Moderate to slightly elevated levels of solar wind speed is expected to prevail due to the impact of coronal hole high speed stream (CH HSS). Geomagnetic activity is expected to be at quiet levels. HF conditions are expected to be 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

<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