

# Daily Space Weather Summary (SUPARCO)

Wednesday, February 25, 2026, 13:42 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)

<b>Critical Frequency of F2 layer (foF2)</b>	14.0 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	298 km							
<b>Total Electron Content (TEC)</b>	78 TECU							
<b>Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances</b>								
<b>Distance (Km)</b>	<b>100</b>	<b>200</b>	<b>400</b>	<b>600</b>	<b>800</b>	<b>1000</b>	<b>1500</b>	<b>3000</b>
<b>MUF (MHz)</b>	14.2	14.8	17.0	20.1	23.4	26.9	34.8	39.6
<b>FOT (MHz)</b>	12.1	12.6	14.5	17.1	19.9	22.9	29.6	33.7

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

## LOCAL GEOMAGNETIC CONDITIONS

<b>K-index</b>	2 (Quiet)
<b>Total Field (F) (Son/Isb)</b>	45710/50705 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

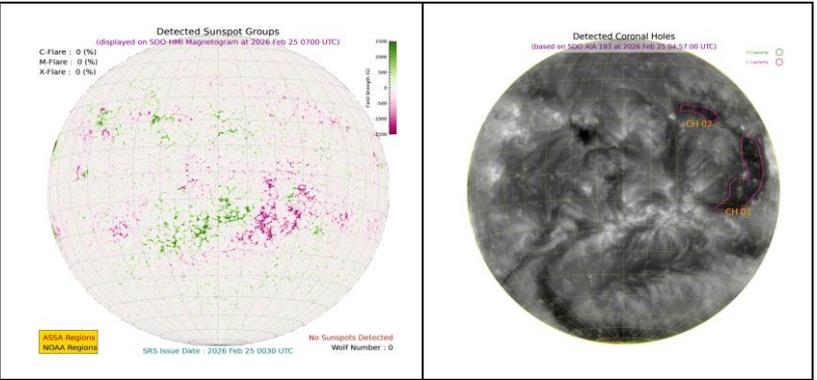
<b>Sunspot Number (SN)</b>	0
<b>Solar radio flux (F10.7)</b>	120 sfu
<b>Solar wind speed</b>	562.3 km/s (varied in the past 24 hrs between 500 & 648 km/s)
<b>Solar x-ray flares</b>	B8.4 (max flare in the past 24 hrs (C5, 0045 UT))
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	+4.61 nT (varied in the past 12 hrs between +2.8 nT & +5.42 nT) +1.23 nT (varied in the past 12 hrs between -3.06 nT & +4.23 nT)

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

**Daily Sun: 25 February 2026**

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

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



**DISCUSSION:**

Solar activity is expected to be at low levels. In case of M/X-class solar flares, shortwave fadeouts may be observed. Low to moderate levels of solar wind speed and quite geomagnetic activity is expected. 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**

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