

# Daily Space Weather Summary (SUPARCO)

Wednesday, March 25, 2026, 01:00 PST



Radio Blackouts			Solar Radiation Storms			Geomagnetic Storms		
-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	-24 Hr	Current	Predicted
R0 / R1	R0	R1 – R2	S0	S0	S0	G0	G0	G0 / G1

## 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>	275 km							
<b>Total Electron Content (TEC)</b>	70 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

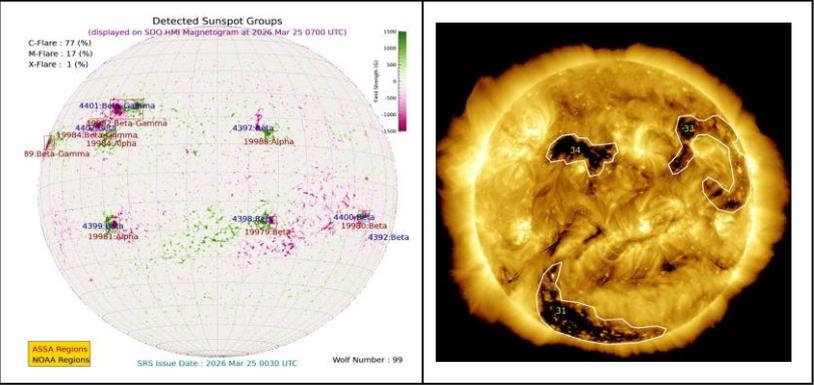
<b>Sunspot Number (SN)</b>	113
<b>Solar radio flux (F10.7)</b>	128 sfu
<b>Solar wind speed</b>	567.7 km/s (varied in the past 24 hrs between 495 & 637 km/s)
<b>Solar x-ray flares</b>	C1.1 (max flare in the past 24 hrs (C7, 1754 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	+8.77 nT (varied in the past 12 hrs between +2.52 nT & +7.03 nT) +6.6 nT (varied in the past 12 hrs between -4.62 nT & +2.68 nT)

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

**Daily Sun: 25 March 2026**

There is one active region AR4401 present on the Sun capable of producing strong M and X-class solar flares having chances of 15% and 3% respectively.

03 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, R1-R2 level HF radio blackouts may be observed. Slightly elevated levels of solar wind speed are expected due to the presence of coronal holes. Geomagnetic activity is expected to be at quite to unsettled 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**

<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>