

# Daily Space Weather Summary (SUPARCO)

Thursday, May 07, 2026, 14:50 PST



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

## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	14.3 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	300 km							
<b>Total Electron Content (TEC)</b>	88 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>	14.6	16.5	19.1	21.9	24.8	31.6	34.4	41.6
<b>FOT (MHz)</b>	12.1	14.0	16.2	18.6	21.1	26.9	29.2	35.4

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

## LOCAL GEOMAGNETIC CONDITIONS

<b>K-index</b>	0 (Quiet)
<b>Total Field (F) (Son/Isb)</b>	45710/50705 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

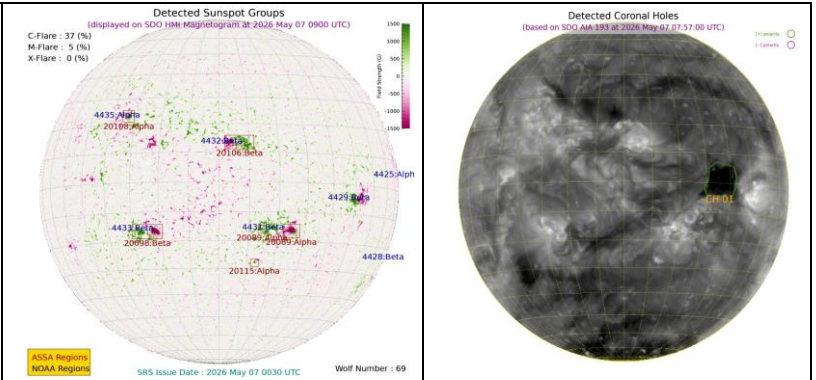
<b>Sunspot Number (SN)</b>	105
<b>Solar radio flux (F10.7)</b>	120 sfu
<b>Solar wind speed</b>	346.6 km/s (varied in the past 24 hrs between 326 & 396 km/s)
<b>Solar x-ray flares</b>	B8.0 (max flare in the past 24 hrs (C4, 0214 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	+4.66 nT (varied in the past 12 hrs between +3.56 nT & +5.98 nT) +2.07 nT (varied in the past 12 hrs between +1.48 nT & +4.64 nT)

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

**Daily Sun: 7 May 2026**

There is no 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, R1 level HF radio blackouts may be observed. Low to moderate levels of solar wind speed and quite level of 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
R1	R2	R3	R4	R5

<b><u>Solar Radiation Storms</u></b>				
Minor	Moderate	Strong	Severe	Extreme
S1	S2	S3	S4	S5

<b><u>Geomagnetic Storms</u></b>				
Minor	Moderate	Strong	Severe	Extreme
G1	G2	G3	G4	G5