

# Daily Space Weather Summary (SUPARCO)

Tuesday, February 10, 2026, 14:40 PST



Radio Blackouts			Solar Radiation Storms			Geomagnetic Storms		
-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	-24 Hr	Current	Predicted
R0	R0	R0 / R1	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>	310 km							
<b>Total Electron Content (TEC)</b>	64 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>	0 (Quiet)
<b>Total Field (F) (Son/Isb)</b>	45710/50705 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

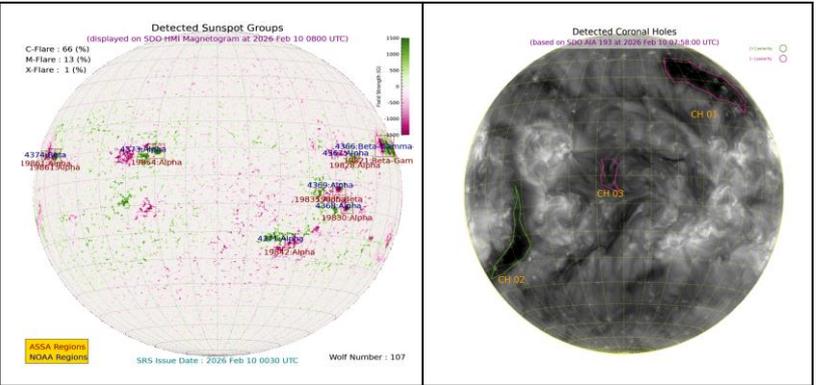
<b>Sunspot Number (SN)</b>	107
<b>Solar radio flux (F10.7)</b>	144 sfu
<b>Solar wind speed</b>	431.8 km/s (varied in the past 24 hrs between 351 & 486 km/s)
<b>Solar x-ray flares</b>	C1.6 (max flare in the past 24 hrs (M2, 2302 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	+6.73 nT (varied in the past 12 hrs between +6.26 nT & +9.18 nT) -4.66 nT (varied in the past 12 hrs between +1.51 nT & +4.96 nT)

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

**Daily Sun: 10 February 2026**

There is one active region AR4336 present on the Sun capable of producing strong M and X-class solar flares having chances of 42% and 10% respectively.

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



**DISCUSSION:**

Solar activity is expected to be at moderate to high levels. In case of M/X-class solar flares, minor level HF radio blackouts may be observed. Low levels of solar wind speed and quiet 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