

# Daily Space Weather Summary (SUPARCO)

Thursday, April 30, 2026, 14:57 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

## 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>	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>	14.6	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

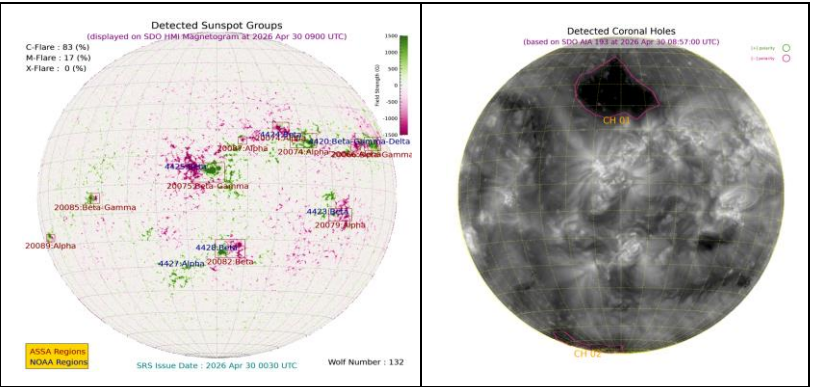
<b>Sunspot Number (SN)</b>	142
<b>Solar radio flux (F10.7)</b>	143 sfu
<b>Solar wind speed</b>	375.9 km/s (varied in the past 24 hrs between 298 & 393 km/s)
<b>Solar x-ray flares</b>	C3.8 (max flare in the past 24 hrs (C5, 0031 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	+7.25 nT (varied in the past 12 hrs between +5.62 nT & +8.86 nT) -3.2 nT (varied in the past 12 hrs between -3.3 nT & +5.42 nT)

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

**Daily Sun: 30 April 2026**

There is one active region AR4420 present on the Sun capable of producing strong M and X-class solar flares having chances of 45% and 10% respectively.

01 Coronal Hole (CH) is 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. Low to moderate levels of solar wind 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