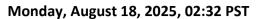
# **Daily Space Weather Summary (SUPARCO)**





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

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)			10.2 MHz					
Virtual Height of F2 layer (h`F2)			360 km					
<b>Total Electron Content (TEC)</b> 74 TECU								
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances								
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	10.4	10.9	11.6	13.3	15.2	19.8	22.9	25.0
FOT (MHz)	8.8	9.3	9.9	11.3	13.2	16.9	19.6	21.3

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

LOCAL GEOMAGNETIC CONDITIONS					
K-index	2 (Quiet)				
Total Field (F) (Son/Isb)	45775/50710 nT				

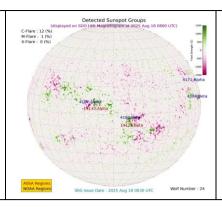
The local geomagnetic field is quiet at the moment.

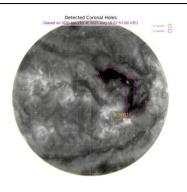
LATEST SOLAR CONDITIONS					
Sunspot Number (SN)	53				
Solar radio flux (F10.7)	117 sfu				
Solar wind speed	332.1 km/s (varied in the past 24 hrs between 289 & 414 km/s)				
Solar x-ray flares	B5.6 (max flare in the past 24 hrs (C3, 1958 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+7.87 nT (varied in the past 12 hrs between +5.37 nT & +7.58 nT) -1.12 nT (varied in the past 12 hrs between +0.04 nT & +6.26 nT)				
Solar conditions are at low to moderate levels with background X-ray flux at B-class level.					

### Daily Sun: 18 August 2025

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

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