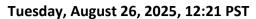
Daily Space Weather Summary (SUPARCO)





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	G0	G0

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				11.2 MHz					
Virtual Height of F2 layer (h`F2)			360 km						
Total Electron Content (TEC)				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)	11.4	11.6	13.3	15.2	19.8	22.9	24.3	26.3	
FOT (MHz)	9.7	9.9	11.3	13.2	16.9	19.6	20.7	22.4	

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			

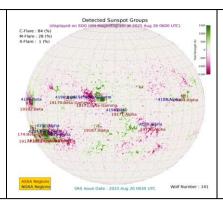
The local geomagnetic field is quiet at the moment.

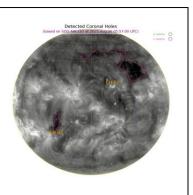
LATEST SOLAR CONDITIONS					
Sunspot Number (SN)	136				
Solar radio flux (F10.7)	175 sfu				
Solar wind speed	399.3 km/s (varied in the past 24 hrs between 366 & 457 km/s)				
Solar x-ray flares	C8.5 (max flare in the past 24 hrs (M4, 0525 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+5.3 nT (varied in the past 12 hrs between +5.46 nT 8 +7.21 nT) +1.71 nT (varied in the past 12 hrs between -6.09 nT 8 +5.35 nT)				
Solar conditions are at low to moderate levels with background X-ray flux at C-class level.					

Daily Sun: 26 August 2025

There are two active regions AR4191 and AR4197 present on the Sun capable of producing strong M and X-class solar flares having chances of 28% and 1% respectively.

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





DISCUSSION:

Solar activity is expected to be at low to moderate levels. Multiple M-class solar flares, have already occurred from the regions present on the solar disk causing minor levels radio blackouts. In case of more 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	Strong Severe				
S1	S2	S3	S4	S5			
	Geomagnetic Storms						
Minor	Moderate	Strong	Severe	Extreme			
G1	G2	G3	G4	G5			