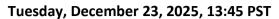
Daily Space Weather Summary (SUPARCO)





Radio Blackouts			Solar Radiation Storms			Geomagnetic Storms		
-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	-24 Hr	Current	Predicted
R0 / R1	R0	R0 / R1	S0	S0	S0	G0	G0	G0/G1

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				11.3 MHz					
Virtual Height of F2 layer (h`F2)				280 km					
Total Electron Content (TEC)				54 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)	11.6	12.1	14.0	16.6	19.5	22.4	29.1	32.2	
FOT (MHz)	9.9	10.3	11.9	14.1	16.6	19.0	24.7	27.4	

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)	45703/50718 nT				

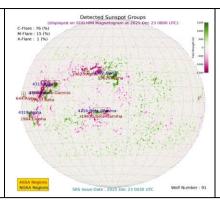
The local geomagnetic field is quiet at the moment.

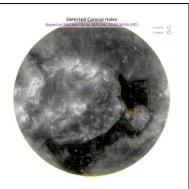
LATEST SOLAR CONDITIONS						
Sunspot Number (SN)	80					
Solar radio flux (F10.7)	133 sfu					
Solar wind speed	701.1 km/s (varied in the past 24 hrs between 660 & 868 km/s)					
Solar x-ray flares	C1.0 (max flare in the past 24 hrs (C8, 2231 UT)					
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.54 nT (varied in the past 12 hrs between +5.21 nT & +6.87 nT) -1.12 nT (varied in the past 12 hrs between -4.34 nT & +2.03 nT)					
Solar conditions are at low to moderate levels with background X-ray flux at C-class level.						

Daily Sun: 23 December 2025

There is one active region AR4316 present on the Sun capable of producing strong M and X-class solar flares having chances of 10% and 3% respectively.

02 Coronal Holes (CHs) are 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 level HF radio blackouts may be observed. Slightly elevated levels of solar wind speed are expected to prevail due to the effect of co-rotating interactive region (CIR). Quiet to unsettled levels 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

	Radio Blackouts							
Minor	Minor Moderate		Severe	Extreme				
R1	R1 R2		R4	R5				
	Storms							
Minor	Moderate	Strong	Severe	Extreme				
S1	S2	S3	S4	S5				
	Geomagnetic Storms							
Minor	Moderate	Strong	Severe	Extreme				
G1	G2	G3	G4	G5				