

Daily Space Weather Summary (SUPARCO)

Thursday, January 08, 2026, 14:38 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 / G1

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	14.0 MHz							
Virtual Height of F2 layer (h`F2)	340 km							
Total Electron Content (TEC)	78 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)	14.2	14.8	17.0	20.1	23.4	26.9	34.8	39.6
FOT (MHz)	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

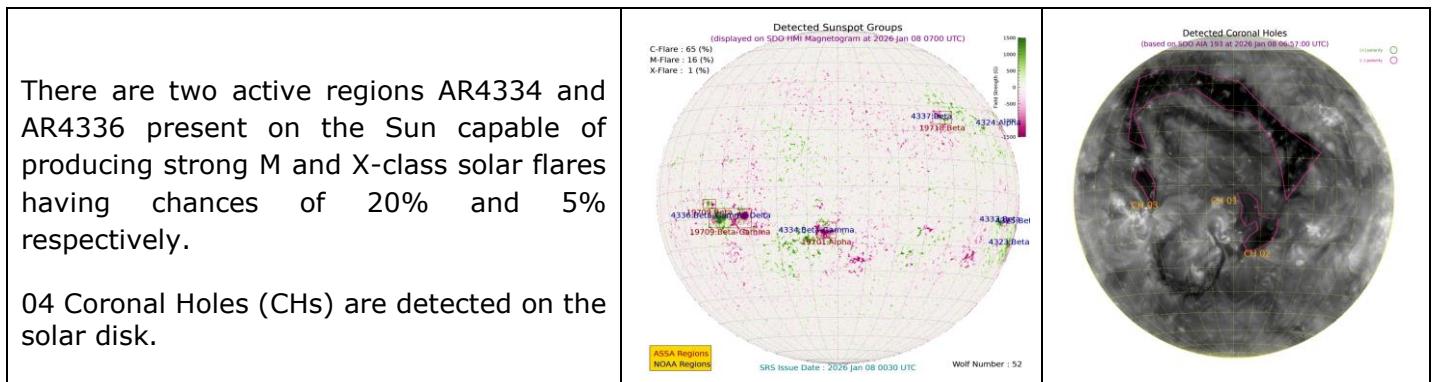
K-index	2 (Quiet)							
Total Field (F) (Son/Isb)	45703/50718 nT							

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	118							
Solar radio flux (F10.7)	135 sfu							
Solar wind speed	381.7 km/s (varied in the past 24 hrs between 330 & 455 km/s)							
Solar x-ray flares	B8.0 (max flare in the past 24 hrs (C4, 0542 UT)							
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.54 nT (varied in the past 12 hrs between +6.08 nT & +11.24 nT) +2.44 nT (varied in the past 12 hrs between -9.04 nT & +5.96 nT)							

Solar conditions are at moderate levels with background X-ray flux at B-class level.



DISCUSSION:

Solar activity is expected to be at moderate levels. In case of M/X-class solar flares, minor to moderate level HF radio blackouts may be observed. Moderate to slightly elevated levels of solar wind speed is expected to prevail due to the effect of coronal hole high speed stream (CH HSS). 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

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