Daily Space Weather Summary (SUPARCO)

Wednesday, July 02, 2025, 13:55 PST



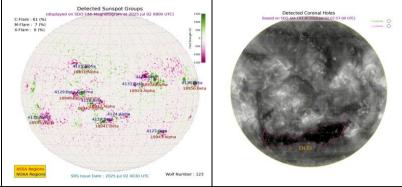
Radio Blackouts			Solar Radiation Storms			Geomagnetic Storms		
-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	-24 Hr	Current	Predicted
R0 – R1	R0 / R1	R1 – R2	S0	S0	S0	G0	G0	G0 / <mark>G1</mark>

		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (SON)			
Critical Frequency of F2 layer (foF2)				11.4 MHz					
Virtual Height of F2 layer (h`F2) Total Electron Content (TEC)				340 km 58 TECU					
Distance (Km)	100	200	400	600	800	1000	1500	3000	
MUF (MHz)	11.6	13.3	15.2	17.2	19.8	22.9	25.4	28.0	
FOT (MHz)	9.9	11.3	13.2	14.9	16.9	19.6	22.1	24.4	
Local HF con	ditions are no	ormal as comp	ared to the pre	edicted monthly	/ median MUF.				
			LOCAL GE	OMAGNETIC (CONDITIONS				
K-index				1 (Quiet)					
Total Field (F) (Son/Isb)				45775/50710 nT					
The local geo	omagnetic fie	ld is quiet at t	he moment.						
			LATES	ST SOLAR CON	DITIONS				
Sunspot Number (SN)				144					
Solar radio flux (F10.7)				128 sfu					
Solar wind speed				375.9 km/s (varied in the past 24 hrs between 342 & 526 km/s)					
Solar x-ray flares			C1.2 (max flare in the past 24 hrs (C1, 0032 UT)						
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)			+6.75 nT (varied in the past 12 hrs between +4.97 nT & +6.12 nT) -3.96 nT (varied in the past 12 hrs between -3.01 nT & +0.35 nT)						
Solar conditi	ons are at lov	w to moderate	e levels with ba	ckground X-ray	flux at C-class l	evel.			

Daily Sun: 2 July 2025

There is one active region AR4129 present on the Sun capable of producing strong C and M-class solar flares having chances of 61% and 7% 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, minor to moderate levels radio blackouts may be observed. Low to moderate solar wind is expected to prevail due to the presence of coronal hole. Geomagnetic activity is expected to be at quiet to unsettled levels. 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				
S1	S2	S3	S4	S5				
	Geomagnetic Storms							
Minor	Moderate	Strong	Severe	Extreme				
G1	G2	G3	G4	G5				