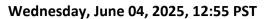
Daily Space Weather Summary (SUPARCO)





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

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)			7.8 MHz					
Virtual Height of F2 layer (h`F2)			420 km					
Total Electron Content (TEC) 20 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)	8.0	8.7	9.5	11.3	13.4	17.6	21.3	24.5
FOT (MHz)	6.8	7.4	8.1	9.6	11.4	15.0	18.1	20.8

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	2 (Quiet)			
Total Field (F) (Son/Isb)	45770/50714 nT			

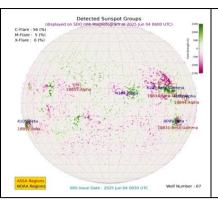
The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS					
Sunspot Number (SN)	95				
Solar radio flux (F10.7)	135 sfu				
Solar wind speed	564.6 km/s (varied in the past 24 hrs between 469 & 804 km/s)				
Solar x-ray flares	C1.1 (max flare in the past 24 hrs (M1, 1303 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+7.03 nT (varied in the past 12 hrs between +3.96 nT (+6.71 nT) +5.51 nT (varied in the past 12 hrs between -5.33 nT (+4.48 nT)				
Solar conditions are at low to moderate levels with background X-ray flux at C-class level.					

Daily Sun: 4 June 2025

There is one active region AR4100 present on the Sun capable of producing strong C and M-class solar flares having chances of 56% and 5% respectively.

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





DISCUSSION:

Solar activity is expected to be at low to moderate levels. Some M-class solar flares have occurred from the region present on the solar disk causing R1-R2 levels radio blackouts. In case of more M/X-class solar flares, minor to moderate level radio blackouts may be observed. Moderate to slightly elevated solar wind speed is expected due to the presence of coronal holes. 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 S		Severe	Extreme				
R1	R2	R3	R4	R5				
	Solar Radiation Storms							
Minor	Moderate	derate Strong Seve		Extreme				
S1	S2	S3	S4	S5				
	Geomagnetic Storms							
Minor	Moderate	Strong	Severe	Extreme				
G1	G2	G3	G4	G5				