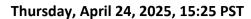
Daily Space Weather Summary (SUPARCO)





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)			16.0 MHz					
Virtual Height of F2 layer (h`F2)			325 km					
Total Electron Content (TEC) 32 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)	16.2	16.9	17.1	18.8	22.0	24.2	28.1	30.8
FOT (MHz)	14.1	14.5	15.2	17.2	19.8	22.1	24.3	26.0

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)	45775/50715 nT			

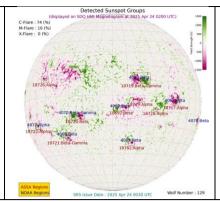
The local geomagnetic field is quiet at the moment.

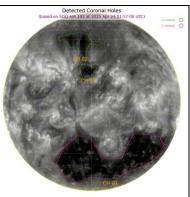
LATEST SOLAR CONDITIONS					
Sunspot Number (SN)	132				
Solar radio flux (F10.7)	163 sfu				
Solar wind speed	481.6 km/s (varied in the past 24 hrs between 433 & 636 km/s)				
Solar x-ray flares	C1.26 (max flare in the past 24 hrs (C3, 1455 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+7.79 nT (varied in the past 12 hrs between +5.0 nT 8 +15.0 nT) -2.35 nT (varied in the past 12 hrs between -6.0 nT & +7.0 nT)				
Solar conditions are at low levels with background X-ray flux at C-class level.					

Daily Sun: 24 April 2025

There is one active region present on the Sun capable of producing strong solar flares.

03 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 to moderate level radio blackouts may be observed. Moderate to slightly elevated solar wind speed is expected due to the presence of coronal hole. Geomagnetic activity is expected to be at quiet 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				