Daily Space Weather Summary (SUPARCO)

Wednesday, April 15, 2026, 12:54 PST

SUPARCO

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

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)	
Critical Frequency of F2 layer (foF2)	12.3 MHz
Virtual Height of F2 layer (h`F2)	315 km
Total Electron Content (TEC)	75 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)	12.6	14.5	17.1	19.9	22.8	29.6	32.4	39.6
FOT (MHz)	10.7	12.3	14.5	16.9	19.4	25.2	27.5	33.7

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

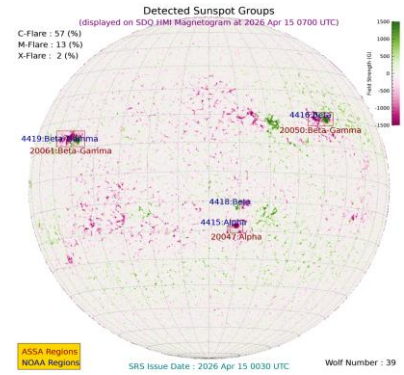
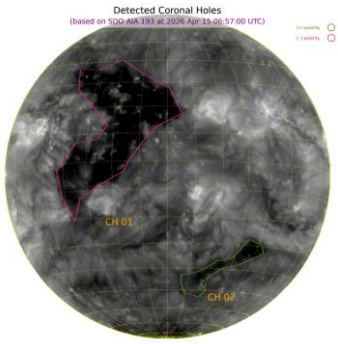
LOCAL GEOMAGNETIC CONDITIONS	
K-index	1 (Quiet)
Total Field (F) (Son/Isb)	45710/50705 nT

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS	
Sunspot Number (SN)	64
Solar radio flux (F10.7)	101 sfu
Solar wind speed	342.8 km/s (varied in the past 24 hrs between 340 & 410 km/s)
Solar x-ray flares	B4.2 (max flare in the past 24 hrs (B9, 0515 UT)
Interplanetary Magnetic Field (IMF) **Total Field (Bt)** **Z Component of Field (Bz)**	+5.45 nT (varied in the past 12 hrs between +4.62 nT & +5.13 nT) -0.1 nT (varied in the past 12 hrs between -3.35 nT & +1.35 nT)

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

Daily Sun: 15 April 2026

There is one active region AR4419 present on the Sun capable of producing strong M and X-class solar flares having chances of 6% and 1% respectively. 02 Coronal Holes (CHs) are detected on the solar disk.		

DISCUSSION:

Solar activity is expected to be at low levels. In case of M/X-class solar flares, shortwave fadeouts may be observed. Low to moderate levels of solar wind speed and quite to unsettled 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	**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**