

Daily Space Weather Summary (SUPARCO)

Monday, April 15, 2024, 12:26 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	10.0 MHz							
Virtual Height of F2 layer (h`F2)	286 km							
Total Electron Content (TEC)	38 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)	10.1	10.6	12.6	14.3	16.3	19.3	22.3	27.5
FOT (MHz)	8.6	9.0	10.7	12.2	13.9	16.4	19.0	23.4

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)	45634/50644 nT

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	152
Solar radio flux (F10.7)	178 sfu
Solar wind speed	334.5 km/s (varied in the past 24 hrs between 306 & 415 km/s)
Solar x-ray flares	C2.6 (max flare in the past 24 hrs (M1, 0118 UT))
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+3.3 nT (varied in the past 12 hrs between +1.3 nT & +4.5 nT) +0.3 nT (varied in the past 12 hrs between -3.3 nT & +3.5 nT)

Solar conditions are at low to moderate levels with background X-ray flux at C-class level.

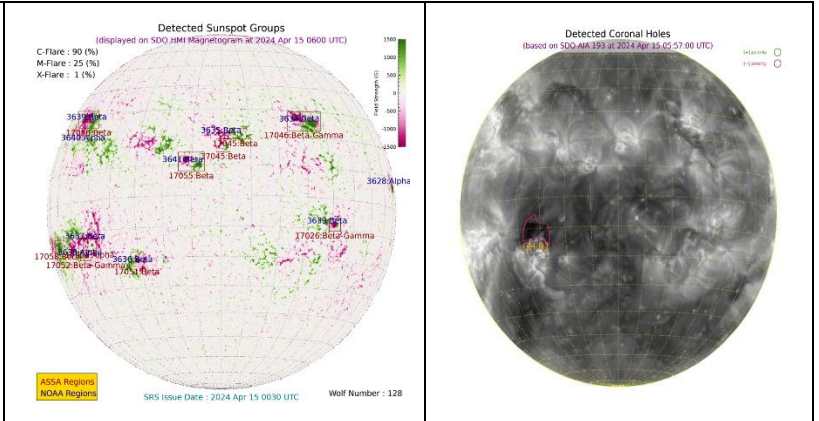
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

Notes: Credits: www.spaceweather.go.kr, www.sws.bom.gov.au, www.spaceweather.com, www.solen.info

Daily Sun: 15 April 2024

There is no active region present on the Sun capable of producing strong solar flares.

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 solar flares, shortwave fadeouts may be observed. Low to moderate solar wind speed and quiet geomagnetic activity is expected. HF conditions are normal.