

Daily Space Weather Summary (SUPARCO)

Monday, April 11, 2022, 12:54 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	12.4 MHz							
Virtual Height of F2 layer (h`F2)	315 km							
Total Electron Content (TEC)	49 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)	13.0	13.4	14.9	17.1	19.6	22.2	28.2	36.8
FOT (MHz)	11.1	11.4	12.7	14.5	16.7	19.0	24.0	31.3

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	3 (unsettled)
Total Field (F) (SON/ISB)	45578/50088 nT

The local geomagnetic field is quite to unsettled at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	13
Solar radio flux (F10.7)	105 sfu
Solar wind speed	540.9 km/s (varied in the past 24 hrs between 438 & 582 km/s)
Solar x-ray flares	B5.6 (max flare in the past 24 hrs: C1 0521 UT Apr 11)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	4.5 nT (varied in the past 12 hrs between 3.4 nT & 6.4 nT) -2.8 nT (varied in the past 12 hrs between -1.4 nT & 3.2nT)

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

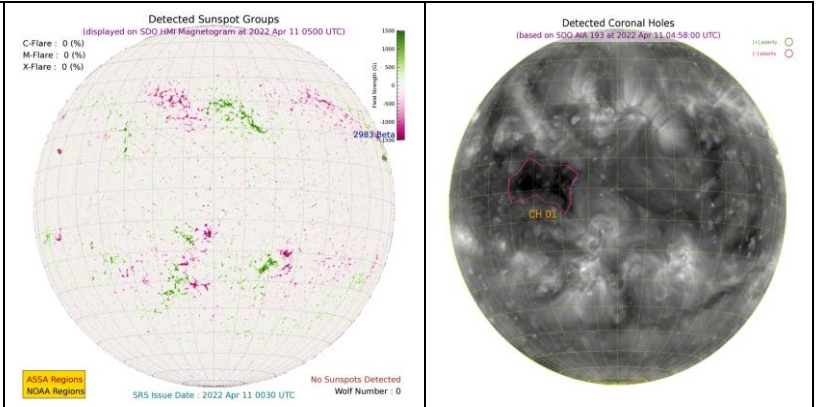
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 11 April 2022

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 remain at low levels. Moderate solar wind speed is expected due to the CME impact. Quiet to unsettled geomagnetic activity is expected. Local HF conditions are enhanced (possibly associated to post geomagnetic storm effect).