

Daily Space Weather Summary (SUPARCO)

Tuesday, April 12, 2022, 12:15 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	11.3 MHz							
Virtual Height of F2 layer (h`F2)	325 km							
Total Electron Content (TEC)	45 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)	11.4	11.8	13.1	15.0	17.2	20.0	24.8	32.9
FOT (MHz)	9.7	10.0	11.1	12.8	14.6	17.0	21.0	28.0

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	0 (Quiet)
Total Field (F) (SON/ISB)	45572 /50082 nT

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	24
Solar radio flux (F10.7)	99 sfu
Solar wind speed	463.8 km/s (varied in the past 24 hrs between 412 & 518 km/s)
Solar x-ray flares	B4.6(max flare in the past 24 hrs: C1 0012 UT Apr 12)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	4.0 nT (varied in the past 12 hrs between 32.3 nT & 4.4 nT) 3.6 nT (varied in the past 12 hrs between -2.5 nT & 3.8 nT)

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

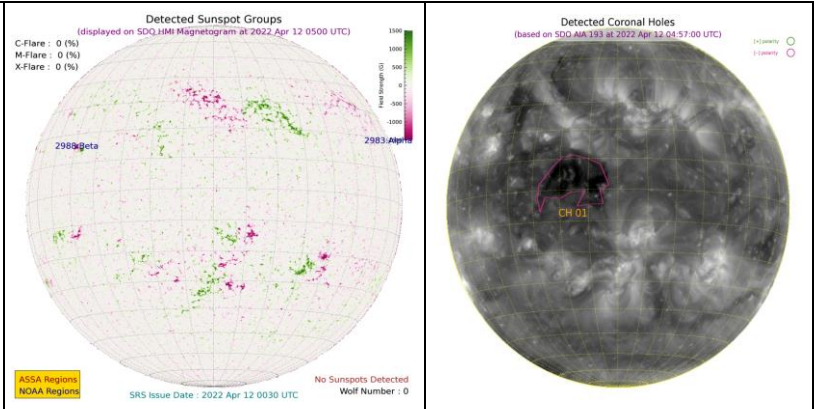
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 12 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. Low solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are enhanced.