

Daily Space Weather Summary (SUPARCO)

Monday, April 04, 2022, 12:13 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	11.5 MHz							
Virtual Height of F2 layer (h`F2)	305 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)	11.7	13.1	14.5	16.5	18.8	21.1	26.6	30.7
FOT (MHz)	9.4	11.1	12.3	14.0	16.0	17.9	22.6	26.1

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	2 (Quiet)
Total Field (F) (SON/ISB)	45565/50076 nT

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	129
Solar radio flux (F10.7)	140 sfu
Solar wind speed	495.5 km/s (varied in the past 24 hrs between 444 & 532 km/s)
Solar x-ray flares	C2.5 (max flare in the past 24 hrs: C6 1309 UT Apr 03)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	6.8 nT (varied in the past 12 hrs between 5.9 nT & 7.5 nT) -3.2 nT (varied in the past 12 hrs between -3.9 nT & 1.0 nT)

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

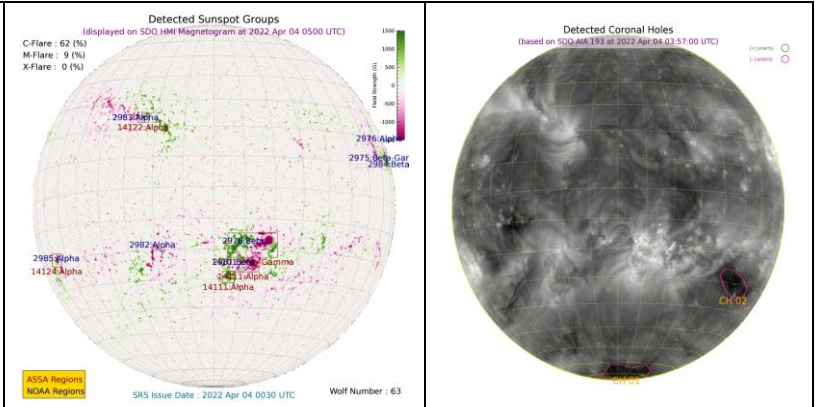
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 4 April 2022

There is one active region AR2975 present on the Sun capable of producing strong solar flares.

02 Coronal Holes (CHs) are detected on the solar disk.



DISCUSSION:

Solar activity is expected to remain at moderate levels. Moderate solar wind speed is expected due to the presence of coronal holes and CME impact. Quiet geomagnetic activity is expected. Local HF conditions are normal.