

Daily Space Weather Summary (SUPARCO)

Thursday, March 24, 2022, 12:15 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	9.8 MHz							
Virtual Height of F2 layer (h`F2)	285 km							
Total Electron Content (TEC)	30 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)	10.2	10.6	12.1	14.1	16.3	18.6	23.8	30.7
FOT (MHz)	8.7	9.0	12.3	12.0	13.9	15.8	20.2	26.1

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	1 (Quiet)
Total Field (F) (SON/ISB)	45580/50090 nT

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	27
Solar radio flux (F10.7)	106 sfu
Solar wind speed	526.8 km/s (varied in the past 24 hrs between 343 & 547 km/s)
Solar x-ray flares	B5.8 (max flare in the past 24 hrs: C8 0145 UT Mar 24)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	8.0 nT (varied in the past 12 hrs between 6.9 nT & 9.3 nT) 5.3 nT (varied in the past 12 hrs between -3.6 nT & 6.6 nT)

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

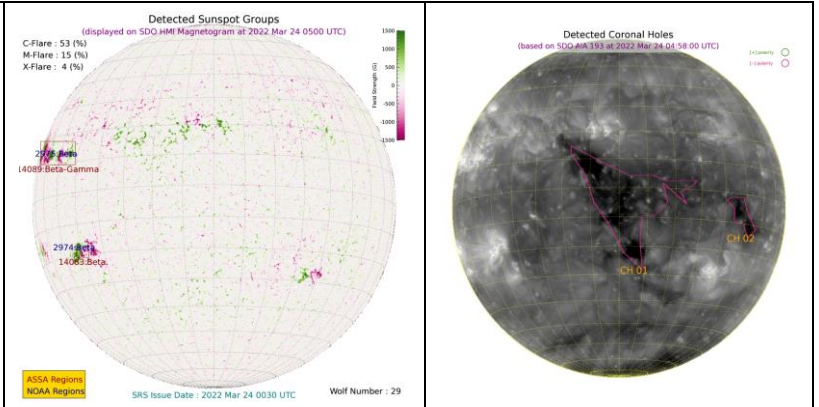
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 24 March 2022

There is no active region 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 low levels. Moderate solar wind speed is expected due to the presence of CH. Geomagnetic activity is expected to be quiet. Local HF conditions are slightly enhanced.