

Daily Space Weather Summary (SUPARCO)

Tuesday, March 08, 2022, 12:04 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SONMIANI)

Critical Frequency of F2 layer (foF2)	9.2 MHz							
Virtual Height of F2 layer (h`F2)	273 km							
Total Electron Content (TEC)	21 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)	9.4	9.8	11.4	13.5	15.8	18.2	23.6	31.8
FOT (MHz)	7.9	8.3	9.7	11.5	13.5	15.5	20.0	27.1

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	2 (Quiet)
Total Field (F) (Son/Isb)	45572/50083 nT

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	84
Solar radio flux (F10.7)	118 sfu
Solar wind speed	436 km/sec (varied in the past 24 hrs between 430 & 537 km/s)
Solar x-ray flares	B 6.6 (max flare in the past 24 hrs: C 2.0 0313 UT Mar 08)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	3.9 nT (varied in the past 12 hrs between 1.6 nT & 4.7 nT) +0.4 nT (varied in the past 12 hrs between -3.5 nT & +0.8 nT)

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

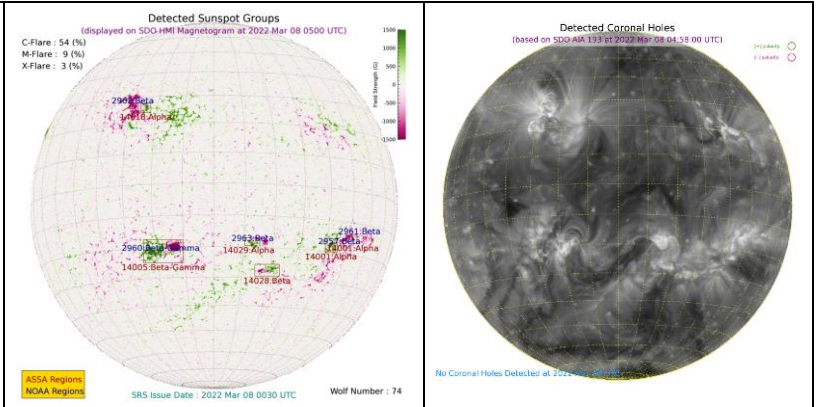
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 8 March 2022

AR 2960 has 54%, 9% and 3% chances to produce C, M and X-class strong solar flares respectively.

No Coronal Holes (CHs) are detected on the solar disk.



DISCUSSION:

Solar activity is expected to be low with a slight chance of M-class flares. Moderate to low solar wind speed and quiet to unsettled geomagnetic activity is expected due to waning CH HSS influence. Local HF conditions are normal.