

Daily Space Weather Summary (SUPARCO)

Monday, March 06, 2023, 12:14 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	12.1 MHz							
Virtual Height of F2 layer (h`F2)	318 km							
Total Electron Content (TEC)	50 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)	12.2	12.4	13.7	15.5	17.6	19.8	24.9	31.6
FOT (MHz)	10.4	10.5	11.6	13.2	15.0	16.8	21.2	26.7

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	2 (Quiet)
Total Field (F) (Son/Isb)	45525/50035 nT

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	137
Solar radio flux (F10.7)	182 sfu
Solar wind speed	589.1 km/s (varied in the past 24 hrs between 552 & 611 km/s)
Solar x-ray flares	C2.3 (max flare in the past 24 hrs: M5, 0228 UT)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+5.5 nT (varied in the past 12 hrs between +9.2 nT & +19.6 nT) +1.0 nT (varied in the past 12 hrs between -14.1 nT & +5.3 nT)

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

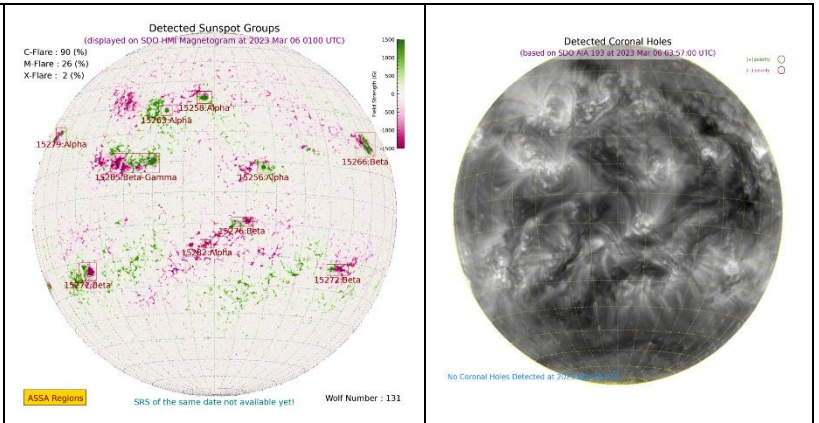
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 6 March 2023

There is no active region present on the Sun capable of producing strong solar flares.

No Coronal Hole (CH) is detected on the solar disk.



DISCUSSION:

Solar activity is expected to be at low levels. In case of solar flares, shortwave fadeouts may be observed. Moderate solar wind speed and quiet geomagnetic activity is expected to prevail. HF conditions are enhanced.