

Daily Space Weather Summary (SUPARCO)

Monday, February 06, 2023, 12:09 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	10.4 MHz							
Virtual Height of F2 layer (h`F2)	289 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)	10.5	10.7	11.2	12.7	14.3	16.0	20.1	25.2
FOT (MHz)	8.4	8.7	9.5	10.8	12.2	13.6	17.1	21.4

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	2 (Quiet)
Total Field (F) (Son/Isb)	45515/50025 nT

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	79
Solar radio flux (F10.7)	114 sfu
Solar wind speed	431.0 km/s (varied in the past 24 hrs between 339 & 429 km/s)
Solar x-ray flares	B8.2 (max flare in the past 24 hrs (C6, 1051 UT))
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+11.5 nT (varied in the past 12 hrs between +3.9 nT & +11.8 nT) -5.1 nT (varied in the past 12 hrs between -11.0 nT & +8.1 nT)

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

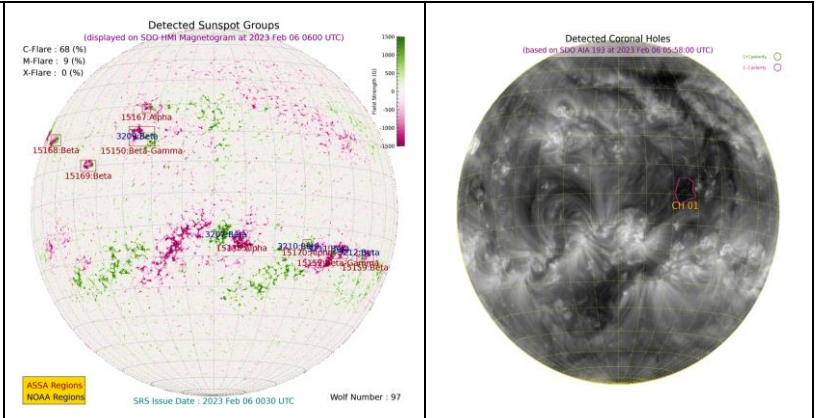
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 6 February 2023

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 be at low levels. Low solar wind speed and quiet geomagnetic activity is expected to prevail. HF conditions are slightly enhanced.