

Daily Space Weather Summary (SUPARCO)

Thursday, August 04, 2022, 12:13 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	7.1 MHz							
Virtual Height of F2 layer (h`F2)	375 km							
Total Electron Content (TEC)	15 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)	7.2	7.3	8.0	8.8	10.0	11.2	14.1	19.6
FOT (MHz)	6.1	6.2	6.8	7.5	8.5	9.5	12.0	16.7

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	0 (Quiet)
Total Field (F) (SON/ISB)	45567/50077nT

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	37
Solar radio flux (F10.7)	98 sfu
Solar wind speed	445.1 km/s (varied in the past 24 hrs between 441 & 550 km/s)
Solar x-ray flares	B3.1 (max flare in the past 24 hrs: (C7, 1708 UT)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	6.3 nT (varied in the past 12 hrs between 4.2 nT & 6.7 nT) 1.9 nT (varied in the past 12 hrs between -0.6 nT & 3.3 nT)

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

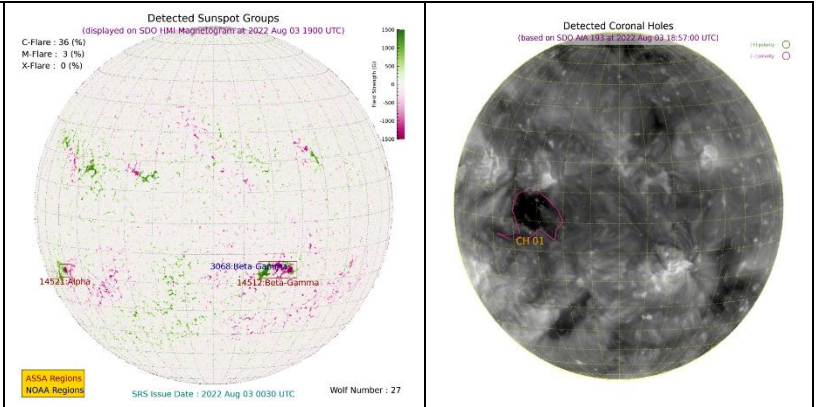
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 4 August 2022

There is one active region AR3068 present on the Sun capable of producing strong C and M-class solar flares having chances of 36% and 3% respectively.

01 Coronal Hole (CH) is detected on the solar disk.



DISCUSSION:

Solar activity is expected to remain at low levels. Low solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are normal.