

Daily Space Weather Summary (SUPARCO)

Monday, August 29, 2022, 12:15 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	9.1 MHz							
Virtual Height of F2 layer (h`F2)	340 km							
Total Electron Content (TEC)	27 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)	9.2	9.5	10.4	11.9	13.5	15.2	19.2	23.3
FOT (MHz)	7.8	8.1	8.8	10.1	11.5	12.9	16.3	19.8

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	3 (quiet)
Total Field (F) (SON/ISB)	45575/50085 nT

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	79
Solar radio flux (F10.7)	252 sfu
Solar wind speed	433.3 km/s (varied in the past 24 hrs between 381 & 504 km/s)
Solar x-ray flares	C3.0 (max flare in the past 24 hrs: M6, 1619 UT)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	10.2 nT (varied in the past 12 hrs between 5.2 nT & 10.5 nT) 4.5 nT (varied in the past 12 hrs between -4.0 nT & 8.3 nT)

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

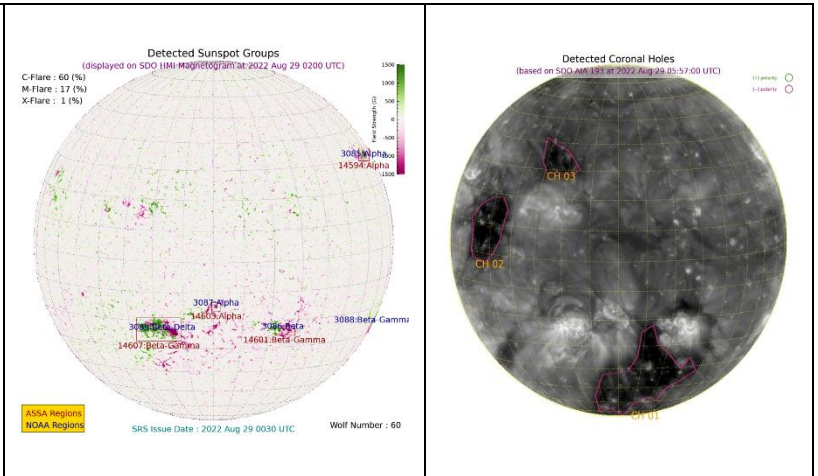
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 29 August 2022

There are two active regions AR3088 and AR3089 present on the Sun capable of producing strong solar M and X-Class flares having chances of 17% and 1% respectively.

03 Coronal Holes (CHs) are detected on the solar disk.



DISCUSSION:

Solar activity is expected to remain at moderate levels. Shortwave radio fadeouts are possible in case of solar flares. Geomagnetic activity is expected to be quiet. Local HF conditions are normal.