

# Daily Space Weather Summary (SUPARCO)

Monday, August 15, 2022, 12:12 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)			7.9 MHz					
Virtual Height of F2 layer (h`F2)			363 km					
Total Electron Content (TEC)			24 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)	8.0	8.2	9.0	10.1	11.4	12.7	16.1	19.1
FOT (MHz)	6.8	7.0	7.6	8.6	9.7	10.8	13.7	16.2
Local HF conditions are normal as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
K-index			1 (Quiet)					
Total Field (F) (SON/ISB)			45589/50099 nT					
The local geomagnetic field is quiet at the moment.								
LATEST SOLAR CONDITIONS								
Sunspot Number (SN)			104					
Solar radio flux (F10.7)			126 sfu					
Solar wind speed			480.1 km/s (varied in the past 24 hrs between 467 & 525 km/s)					
Solar x-ray flares			C1.5 (max flare in the past 24 hrs: C5, 1400 UT)					
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)			4.6 nT (varied in the past 12 hrs between 4.4 nT & 5.5 nT) 1.8 nT (varied in the past 12 hrs between -0.8 nT & 2.6 nT)					
Solar conditions are at moderate levels with background X-ray flux at C-class level.								

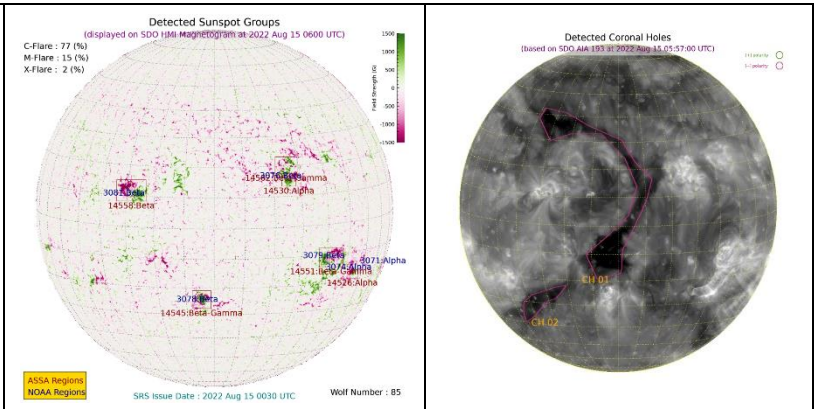
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

Notes: Credits: [www.spaceweather.go.kr](http://www.spaceweather.go.kr), [www.sws.bom.gov.au](http://www.sws.bom.gov.au), [www.spaceweather.com](http://www.spaceweather.com), [www.solen.info](http://www.solen.info)

## Daily Sun: 15 August 2022

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

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



## DISCUSSION:

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