

# Daily Space Weather Summary (SUPARCO)

Monday, August 22, 2022, 12:13 PST



## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	8.7 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	313 km							
<b>Total Electron Content (TEC)</b>	22 TECU							
<b>Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances</b>								
<b>Distance (Km)</b>	<b>100</b>	<b>200</b>	<b>400</b>	<b>600</b>	<b>800</b>	<b>1000</b>	<b>1500</b>	<b>3000</b>
<b>MUF (MHz)</b>	8.8	9.1	10.2	11.7	13.5	15.3	19.5	23.4
<b>FOT (MHz)</b>	7.5	7.7	8.7	9.9	11.5	13.0	16.6	19.9

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

## LOCAL GEOMAGNETIC CONDITIONS

<b>K-index</b>	2 (Quiet)
<b>Total Field (F) (SON/ISB)</b>	45575/50085 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

<b>Sunspot Number (SN)</b>	56
<b>Solar radio flux (F10.7)</b>	97 sfu
<b>Solar wind speed</b>	566.4 km/s (varied in the past 24 hrs between 537 & 624 km/s)
<b>Solar x-ray flares</b>	C1.5 (max flare in the past 24 hrs: C2, 2341 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	6.5 nT (varied in the past 12 hrs between 5.8 nT & 6.8 nT) 0.6 nT (varied in the past 12 hrs between -5.5 nT & 1.3 nT)

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

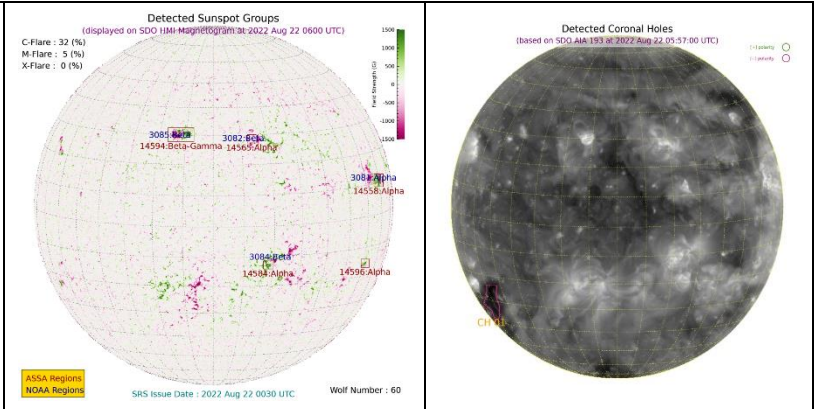
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

Notes: Credits: [www.spaceweather.go.kr](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: 22 August 2022

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 remain at low levels. Geomagnetic activity is expected to be quiet. Local HF conditions are slightly enhanced.