

# Daily Space Weather Summary (SUPARCO)

Tuesday, August 02, 2022, 12:30 PST



## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	9.3 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	353 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>	9.4	9.6	10.5	11.9	13.5	15.1	19.1	23.3
<b>FOT (MHz)</b>	8.0	8.2	8.9	10.1	11.5	12.8	16.2	19.8

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

## LOCAL GEOMAGNETIC CONDITIONS

<b>K-Index</b>	1 (quiet)
<b>Total Field (F) (SON/ISB)</b>	45589 /50099 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

<b>Sunspot Number (SN)</b>	32
<b>Solar radio flux (F10.7)</b>	95 sfu
<b>Solar wind speed</b>	471.1 km/s (varied in the past 24 hrs between 434 & 534 km/s)
<b>Solar x-ray flares</b>	B5.6 (max flare in the past 24 hrs: B9, 1443 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	6.6 nT (varied in the past 12 hrs between 6.6 nT & 7.5 nT) -4.2 nT (varied in the past 12 hrs between -3.8 nT & 2.3 nT)

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

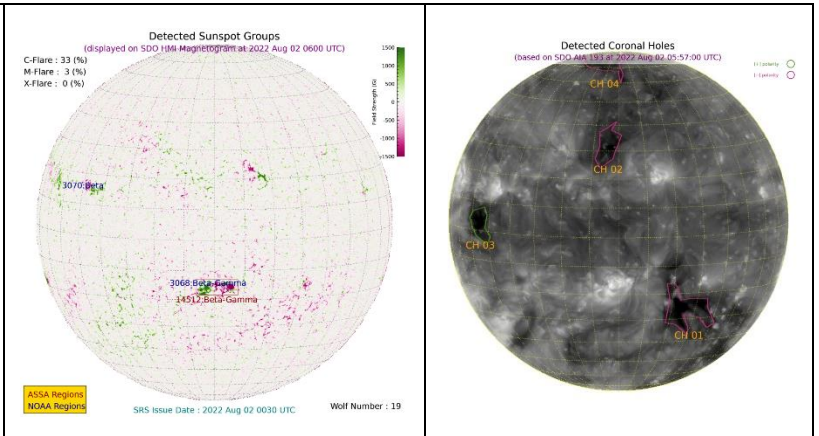
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

Notes: Credits: [www.spaceweather.go.kr](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: 2 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 33% and 3% respectively.

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



### DISCUSSION:

Solar activity is expected to remain at low levels. Moderate solar wind speed is expected to prevail due to the presence of coronal holes. Quiet geomagnetic activity is expected. Local HF conditions are normal.