

# Daily Space Weather Summary (SUPARCO)

Wednesday, November 23, 2022, 12:19 PST



## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	9.4 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	250 km							
<b>Total Electron Content (TEC)</b>	35 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>	9.6	10.1	11.6	13.6	15.9	18.1	23.0	27.9
<b>FOT (MHz)</b>	8.2	8.6	9.9	11.6	13.5	15.4	19.6	23.8

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

## LOCAL GEOMAGNETIC CONDITIONS

<b>K-index</b>	0 (Quiet)
<b>Total Field (F) (Son/Isb)</b>	45525/50035 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

<b>Sunspot Number (SN)</b>	61
<b>Solar radio flux (F10.7)</b>	116 sfu
<b>Solar wind speed</b>	302.6 km/sec (varied in the past 24 hrs between 312 & 473 km/s)
<b>Solar x-ray flares</b>	B5.9 (max flare in the past 24 hrs: (C7, 0727 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	0.6 nT (varied in the past 12 hrs between 1.2 nT & 5.0 nT) +0.2 nT (varied in the past 12 hrs between -0.6 nT & +2.5 nT)

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

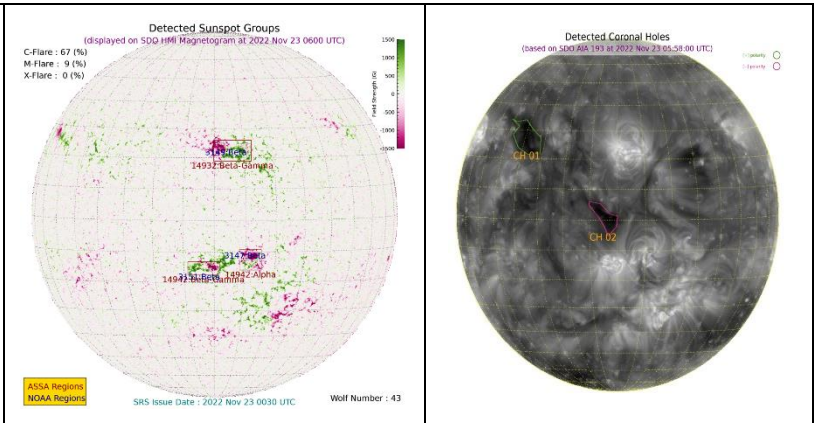
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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: 23 November 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 be at low levels. Light to moderated solar wind speed and quiet to geomagnetic activity is expected. HF conditions are normal.