

# Daily Space Weather Summary (SUPARCO)

Monday, November 07, 2022, 12:07 PST



SUPARCO

## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	10.8 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	273 km							
<b>Total Electron Content (TEC)</b>	52 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>	11.0	11.4	12.9	15.0	17.3	19.6	24.8	30.6
<b>FOT (MHz)</b>	9.4	9.7	11.0	12.8	14.7	16.7	21.1	26.0

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>	45581/50091 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

<b>Sunspot Number (SN)</b>	78
<b>Solar radio flux (F10.7)</b>	131 sfu
<b>Solar wind speed</b>	384.8 km/sec (varied in the past 24 hrs between 388 & 588 km/s)
<b>Solar x-ray flares</b>	B7.1 (max flare in the past 24 hrs: (M5, 0011 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	9.3 nT (varied in the past 12 hrs between 3.1 nT & 7.5 nT) 7.7 nT (varied in the past 12 hrs between -2.0 nT & +3.3 nT)

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

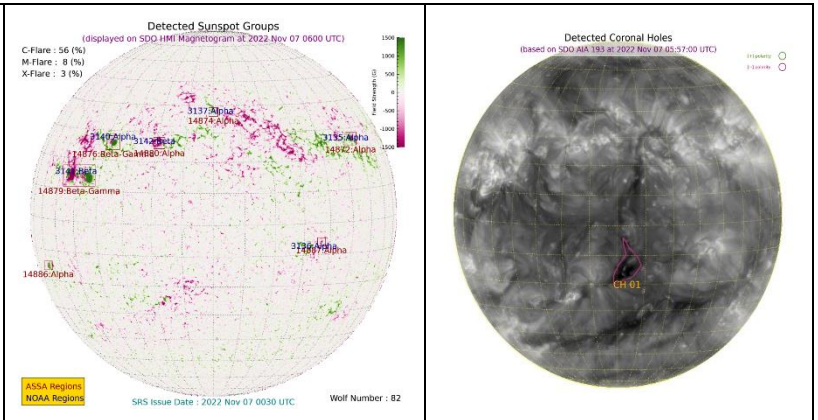
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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: 7 November 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 be at low levels. In case of solar flares, shortwave fadeouts are possible. Low to moderate solar wind speed is expected to prevail due to the combine effect of CME and coronal hole. Geomagnetic activity is expected to be quiet. HF conditions are normal.