

# Daily Space Weather Summary (SUPARCO)

Wednesday, September 07, 2022, 12:10 PST



## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	11.0 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	298 km							
<b>Total Electron Content (TEC)</b>	25 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>	11.1	11.5	12.7	14.6	16.9	19.2	25.5	29.7
<b>FOT (MHz)</b>	9.4	9.8	10.8	12.4	14.4	16.3	21.7	25.3

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

## LOCAL GEOMAGNETIC CONDITIONS

<b>K-index</b>	1 (Quiet)
<b>Total Field (F) (Son/Isb)</b>	45563/50073 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>	126 sfu
<b>Solar wind speed</b>	551.4 km/sec (varied in the past 24 hrs between 408 & 669 km/s)
<b>Solar x-ray flares</b>	B6.2 (max flare in the past 24 hrs: (C3, 1833 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	5.1 nT (varied in the past 12 hrs between 4.8 nT & 5.8 nT) 3.4 nT (varied in the past 12 hrs between -1.4 nT & 4.9 nT)

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

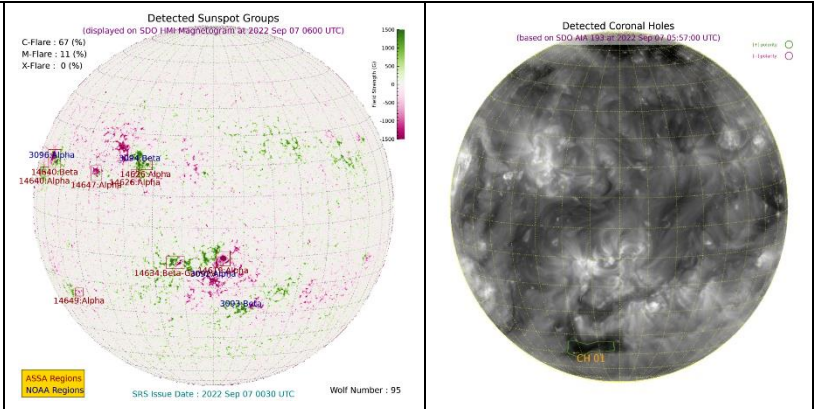
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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 September 2022

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

01 Coronal Hole (CH) is detected on the solar disk.



### DISCUSSION:

Solar activity is expected to remain at low levels. Short wave fadeouts will be observed in case of solar flares. Moderate solar wind speed is expected to prevail. Quiet geomagnetic activity is expected. HF conditions are enhanced.