

# Daily Space Weather Summary (SUPARCO)

Tuesday, July 05, 2022, 12:20 PST



## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	6.5 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	358 km							
<b>Total Electron Content (TEC)</b>	30 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>	6.6	6.8	7.4	8.3	9.4	10.6	13.3	15.4
<b>FOT (MHz)</b>	5.6	5.8	6.3	7.1	8.0	9.0	11.3	13.1

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

## LOCAL GEOMAGNETIC CONDITIONS

<b>K-Index</b>	0 (Quiet)
<b>Total Field (F) (SON/ISB)</b>	45103 /50113 nT

The local geomagnetic field is quite at the moment.

## LATEST SOLAR CONDITIONS

<b>Sunspot Number (SN)</b>	79
<b>Solar radio flux (F10.7)</b>	104 sfu
<b>Solar wind speed</b>	406.0 km/s (varied in the past 24 hrs between 347 & 485 km/s)
<b>Solar x-ray flares</b>	B7.6 (max flare in the past 24 hrs: M1, 0407 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	2.9 nT (varied in the past 12 hrs between 2.5 nT & 7.9 nT) -1.1 nT (varied in the past 12 hrs between -5.6 nT & 2.7 nT)

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

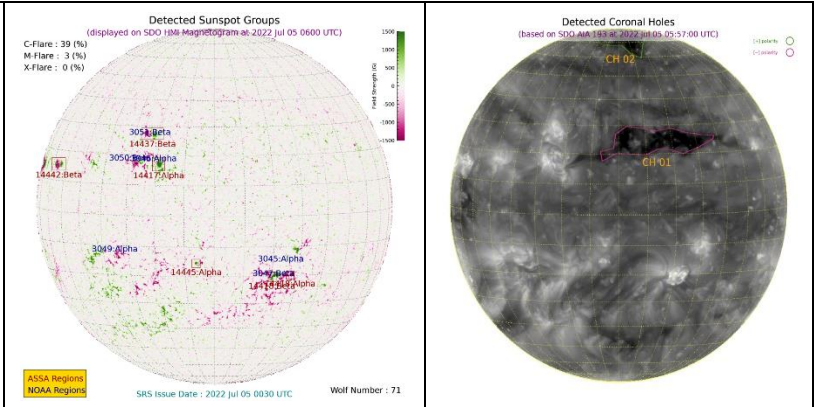
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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: 5 July 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 remain at moderate levels. Minor radio blackouts may be observed in case of solar flares. Low to moderate solar wind speed is expected due to the presence of coronal hole. Geomagnetic activity is expected to be quiet. Local HF conditions are slightly depressed.