

# Daily Space Weather Summary (SUPARCO)

Wednesday, March 02, 2022, 12:24 PST



## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	10.1 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	268 km							
<b>Total Electron Content (TEC)</b>	26 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>	10.3	10.8	12.4	14.5	16.9	19.2	24.6	28.9
<b>FOT (MHz)</b>	8.8	9.2	10.5	12.3	14.4	16.3	20.9	24.6

Local HF conditions are normal with slightly enhanced MUF as compared to the predicted monthly median values.

## LOCAL GEOMAGNETIC CONDITIONS

<b>K-index</b>	1 (Quiet)
<b>Total Field (F) (SON/ISB)</b>	45578/50074 nT

The local geomagnetic field is quite at the moment.

## LATEST SOLAR CONDITIONS

<b>Sunspot Number (SN)</b>	62
<b>Solar radio flux (F10.7)</b>	99 sfu
<b>Solar wind speed</b>	488.9 km/s (varied in the past 24 hrs between 481 & 545 km/s)
<b>Solar x-ray flares</b>	B3.2 (max flare in the past 24 hrs: C2 0415 UT Mar 02)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	2.8 nT (varied in the past 12 hrs between 1.0 nT & 4.3 nT) -0.1 nT (varied in the past 12 hrs between -0.3 nT & 3.4 nT)

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

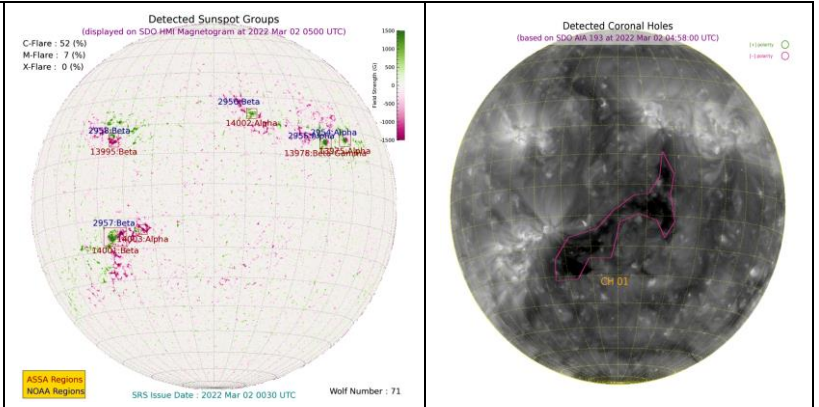
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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: 2 March 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 remain at low to moderate levels. Low solar wind speed is expected and quiet geomagnetic activity is expected. Local HF conditions are slightly enhanced as compared to the predicted monthly median MUF.