

# Daily Space Weather Summary (SUPARCO)

Wednesday, June 29, 2022, 12:18 PST



## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	9.3 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	325 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>	9.4	9.7	10.8	12.3	14.2	15.9	20.2	24.6
<b>FOT (MHz)</b>	8.0	8.2	9.2	10.5	12.1	13.5	17.2	20.9

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>	45113/50123 nT

The local geomagnetic field is quiet at the moment.

## LATEST SOLAR CONDITIONS

<b>Sunspot Number (SN)</b>	71
<b>Solar radio flux (F10.7)</b>	96 sfu
<b>Solar wind speed</b>	510.4 km/sec (varied in the past 24 hrs between 383 & 554 km/s)
<b>Solar x-ray flares</b>	B1.7 (max flare in the past 24 hrs: B6, 0750 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	5.8 nT (varied in the past 12 hrs between 2.6 nT & 5.4 nT) -0.5 nT (varied in the past 12 hrs between -3.7 nT & 0.7 nT)

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

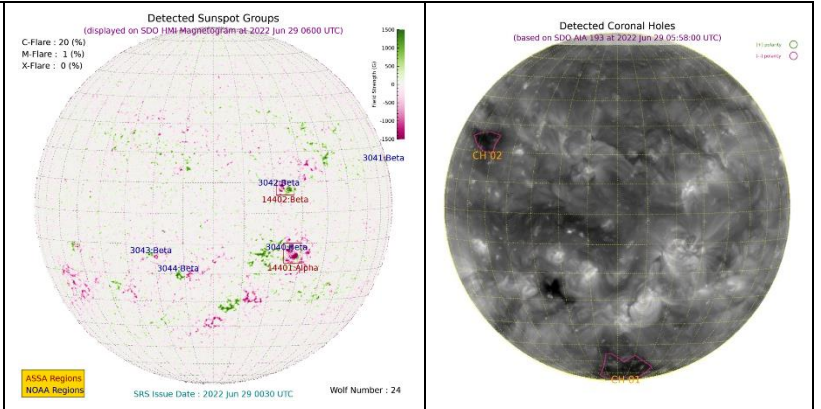
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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: 29 June 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. Mildly moderate solar wind speed and quiet geomagnetic activity is expected. HF conditions are enhanced.