

# Daily Space Weather Summary (SUPARCO)

Tuesday, June 28, 2022, 12:38 PST



## LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

<b>Critical Frequency of F2 layer (foF2)</b>	7.9 MHz							
<b>Virtual Height of F2 layer (h`F2)</b>	370 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>	8.0	8.2	9.0	10.0	11.3	12.5	15.8	18.8
<b>FOT (MHz)</b>	6.8	7.0	7.7	8.5	9.6	10.6	13.4	16.0

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

## LOCAL GEOMAGNETIC CONDITIONS

<b>K-Index</b>	2 (Quiet)
<b>Total Field (F) (SON/ISB)</b>	45113 /50123 nT

The local geomagnetic field is quite at the moment.

## LATEST SOLAR CONDITIONS

<b>Sunspot Number (SN)</b>	32
<b>Solar radio flux (F10.7)</b>	98 sfu
<b>Solar wind speed</b>	516.2 km/s (varied in the past 24 hrs between 404 & 574 km/s)
<b>Solar x-ray flares</b>	B2.3 (max flare in the past 24 hrs: C1, 1843 UT)
<b>Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)</b>	3.7 nT (varied in the past 12 hrs between 4.6 nT & 5.6 nT) 1.2 nT (varied in the past 12 hrs between -2.7 nT & 4.1 nT)

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

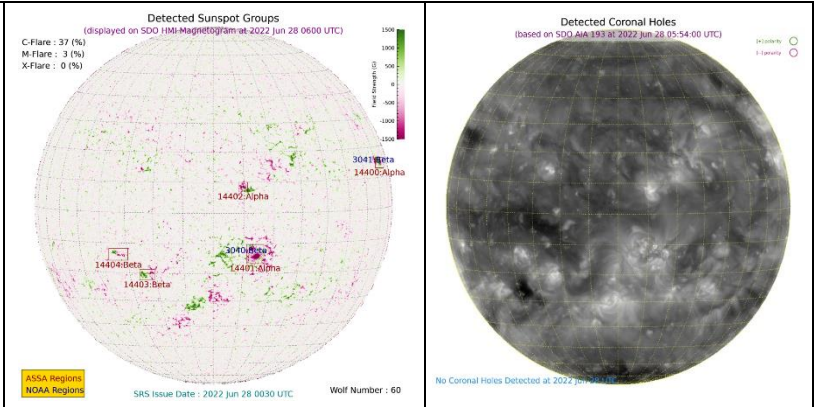
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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: 28 June 2022

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

No Coronal Hole (CH) is detected on the solar disk.



### DISCUSSION:

Solar activity is expected to remain at low levels. Moderate solar wind speed is expected. Quiet geomagnetic activity is expected. Local HF conditions are slightly depressed.