

# Daily Space Weather Summary (SUPARCO)

Thursday, June 08, 2023, 12:18 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>		49 TECU						
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances								
Distance (Km)	100	200	400	600	800	1000	1500	3000
<b>MUF (MHz)</b>	11.2	11.6	13.1	15.1	17.5	19.9	25.4	28.3
<b>FOT (MHz)</b>	9.5	9.9	11.1	12.8	14.9	16.9	21.6	24.1
Local HF conditions are normal as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
<b>K-index</b>		1 (Quiet)						
<b>Total Field (F) (Son/Isb)</b>		45515/50025 nT						
The local geomagnetic field is quiet at the moment.								
LATEST SOLAR CONDITIONS								
<b>Sunspot Number (SN)</b>		177						
<b>Solar radio flux (F10.7)</b>		172 sfu						
<b>Solar wind speed</b>		332.4 km/s (varied in the past 24 hrs between 321 & 458 km/s)						
<b>Solar x-ray flares</b>		C1.2 (max flare in the past 24 hrs (M4, 1146 UT)						
<b>Interplanetary Magnetic Field (IMF)</b>		+6.5 nT (varied in the past 12 hrs between +5.0 nT & +9.4 nT)						
<b>Total Field (Bt)</b>		-2.3 nT (varied in the past 12 hrs between -6.3 nT & +1.6 nT)						
<b>Z Component of Field (Bz)</b>								
Solar conditions are at moderate levels with background X-ray flux at C-class level.								

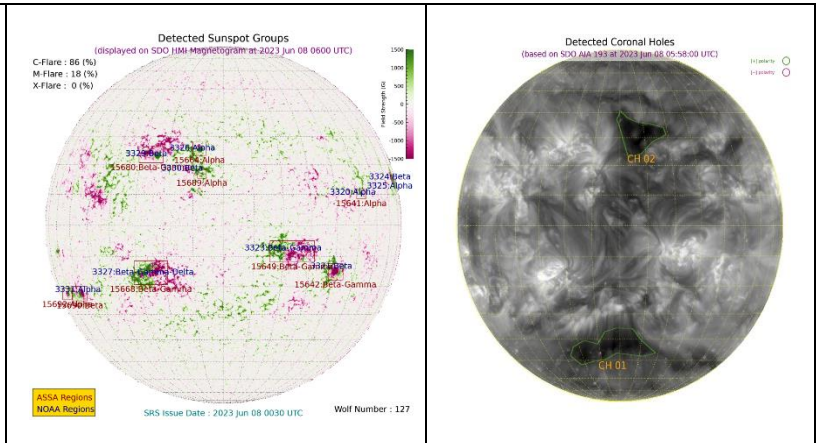
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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: 8 June 2023

There are two active regions AR3323 and AR3327 present on the Sun capable of producing strong C and M-class solar flares having chances of 86% and 18% respectively.

02 Coronal Holes (CHs) are detected on the solar disk.



### DISCUSSION:

Solar activity is expected to be at moderate levels. In case of solar flares, shortwave fadeouts may be observed. Low to moderate solar wind speed is expected due to the presence of coronal holes. Geomagnetic activity is expected to be quiet. HF conditions are normal.