

# Daily Space Weather Summary (SUPARCO)

Monday, September 26, 2022, 12:12 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)				10.3 MHz				
Virtual Height of F2 layer (h` F2)				273 km				
Total Electron Content (TEC)				60 TECU				
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances								
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	10.5	11.0	12.5	14.6	17.0	19.4	24.7	29.2
FOT (MHz)	8.9	9.4	10.6	12.1	14.5	16.5	21.0	24.8
Local HF conditions are normal as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
K-index				0 (Quiet)				
Total Field (F) (SON/ISB)				45560/50070 nT				
The local geomagnetic field is quiet at the moment.								
LATEST SOLAR CONDITIONS								
Sunspot Number (SN)				96				
Solar radio flux (F10.7)				135 sfu				
Solar wind speed				301.2 km/s (varied in the past 24 hrs between 298 & 515 km/s)				
Solar x-ray flares				B8.6 (max flare in the past 24 hrs: C6, 0706 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				4.2 nT (varied in the past 12 hrs between 3.5 nT & 6.0 nT) 1.7 nT (varied in the past 12 hrs between -0.2 nT & 2.4 nT)				
Solar conditions are at low to moderate with background X-ray flux at B-class level.								

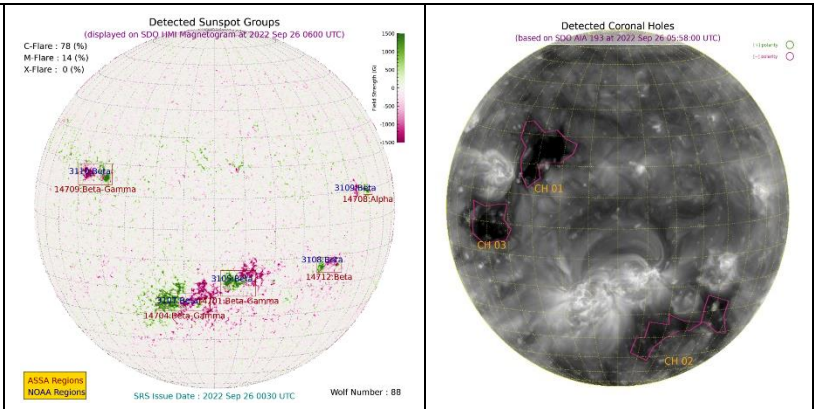
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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: 26 September 2022

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

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



## DISCUSSION:

Solar activity is expected to remain at low to moderate levels. In case of solar flares, shortwave fadeouts may be observed. Low solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are normal.