

Daily Space Weather Summary (SUPARCO)

Tuesday, March 29, 2022, 12:16 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)

Critical Frequency of F2 layer (foF2)	13.6 MHz							
Virtual Height of F2 layer (h`F2)	350 km							
Total Electron Content (TEC)	48 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)	13.7	14.1	15.5	17.3	19.5	21.8	27.5	33.8
FOT (MHz)	11.6	12.0	13.2	14.7	16.6	18.5	23.4	28.7

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

LOCAL GEOMAGNETIC CONDITIONS

K-index	1 (Quiet)
Total Field (F) (SON/ISB)	45568 /50078 nT

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	125
Solar radio flux (F10.7)	156 sfu
Solar wind speed	423.4 km/s (varied in the past 24 hrs between 402 & 566 km/s)
Solar x-ray flares	C2.1 (max flare in the past 24 hrs: M4 1129 UT Mar 28)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	4.1 nT (varied in the past 12 hrs between 2.7 nT & 4.8 nT) 2.8 nT (varied in the past 12 hrs between -0.7 nT & 3.2 nT)

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

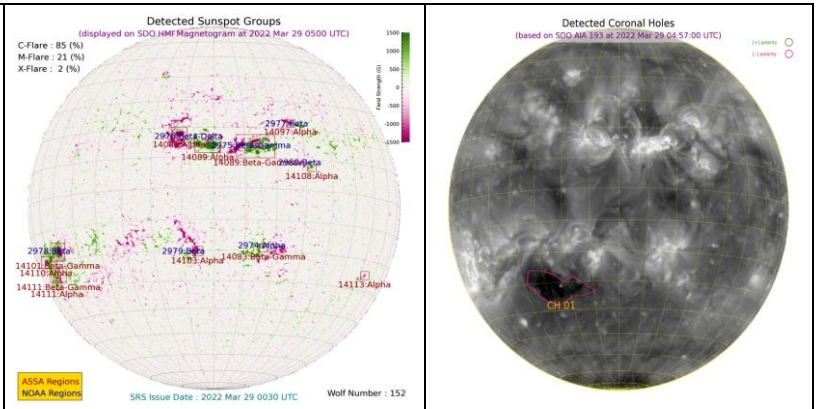
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

Notes: Credits: www.spaceweather.go.kr, www.sws.bom.gov.au, www.spaceweather.com, www.solen.info

Daily Sun: 29 March 2022

There is one active region AR2975 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 moderate levels. Moderate solar wind speed is expected due to the presence of coronal hole. Quiet geomagnetic activity is expected. Local HF conditions are slightly enhanced.