

Daily Space Weather Summary (SUPARCO)

Wednesday, March 30, 2022, 12:20 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)		12.4 MHz						
Virtual Height of F2 layer (h`F2)		373 km						
Total Electron Content (TEC)		49 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)	12.5	12.8	13.9	15.5	17.3	19.3	24.1	29.3
FOT (MHz)	10.6	10.9	11.8	13.2	14.7	16.4	20.5	24.9
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)		45579/50085 nT						
The local geomagnetic field is quite at the moment.								
LATEST SOLAR CONDITIONS								
Sunspot Number (SN)		124						
Solar radio flux (F10.7)		149 sfu						
Solar wind speed		409.4 km/s (varied in the past 24 hrs between 382 & 432 km/s)						
Solar x-ray flares		C1.2 (max flare in the past 24 hrs: M1 2152 UT Mar 29)						
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)		2.6 nT (varied in the past 12 hrs between 2.2 nT & 4.1 nT) -0.7 nT (varied in the past 12 hrs between -1.2 nT & 1.7 nT)						
Solar conditions are at moderate to high levels with background X-ray flux at C-class level.								

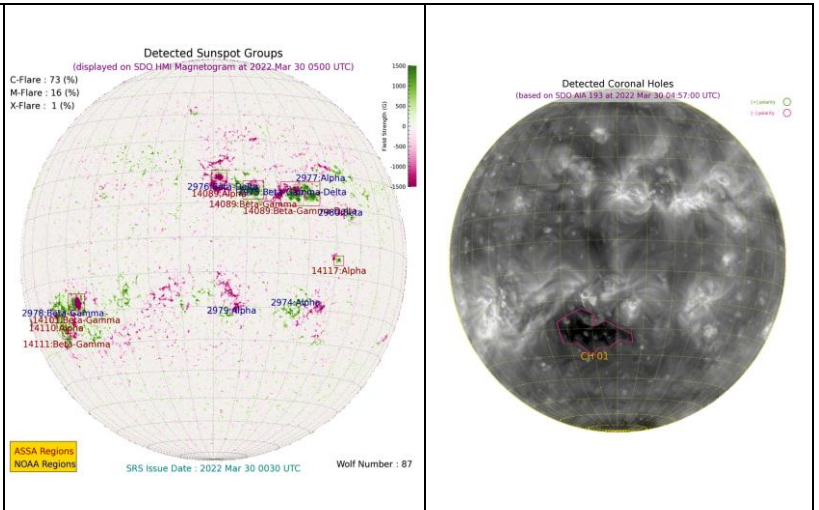
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 30 March 2022

There is one active region AR2975 present on the Sun capable of producing strong M and X-Class solar flares having 21% and 4% chances respectively. The strongest flare from this region was M4.0 on 28th March.

01 Coronal Hole (CH) is detected on the solar disk.



DISCUSSION:

Solar activity is expected to remain at moderate to high levels. Low solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are normal.