

Daily Space Weather Summary (SUPARCO)

Monday, March 14, 2022, 12:22 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)		11.4 MHz						
Virtual Height of F2 layer (h`F2)		295 km						
Total Electron Content (TEC)		36 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)	11.6	11.7	13.2	14.3	17.6	20.1	25.6	31.1
FOT (MHz)	9.9	9.9	11.2	12.2	14.9	17.1	21.8	26.4
Local HF conditions are slightly enhanced as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
K-index		2 (Quiet)						
Total Field (F) (SON/ISB)		45557/50066 nT						
The local geomagnetic field is quite at the moment.								
LATEST SOLAR CONDITIONS								
Sunspot Number (SN)		64						
Solar radio flux (F10.7)		125 sfu						
Solar wind speed		417.5 km/s (varied in the past 24 hrs between 336 & 547 km/s)						
Solar x-ray flares		B8.9 (max flare in the past 24 hrs: C4 2341 UT Mar 13)						
Interplanetary Magnetic Field (IMF)		24.2 nT (varied in the past 12 hrs between 21.7 nT & 24.2 nT)						
Total Field (Bt)		22.9 nT (varied in the past 12 hrs between -13.7 nT & 22.1 nT)						
Z Component of Field (Bz)		22.1 nT						
Solar conditions are at low to moderate levels with background X-ray flux at B-class level.								

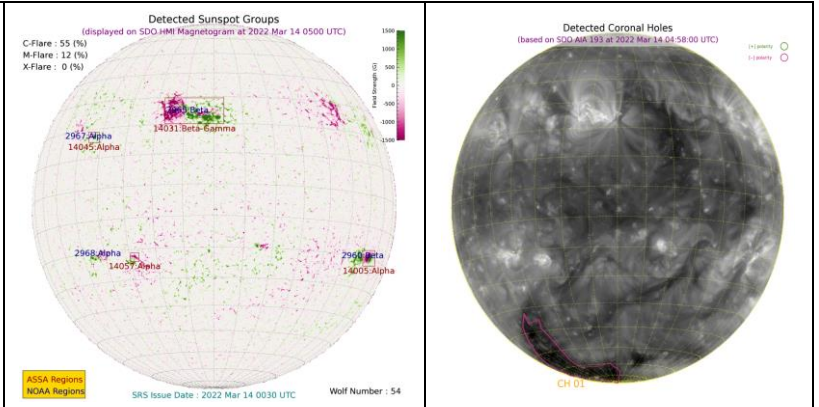
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 14 March 2022

There is no active region 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 low to moderate levels. Moderate solar wind speed is expected due to the CME impact. Geomagnetic activity is expected to be quiet. Local HF conditions are slightly enhanced.