Daily Space Weather Summary (SUPARCO)



Monday, March 21, 2022, 12:12 PST

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				10.8 MHz					
Virtual Height of F2 layer (h`F2)				295 km					
Total Electron Content (TEC)				30 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)	11.0	11.4	12.8	14.8	17.0	19.3	24.5	29.3	
FOT (MHz)	9.4	9.7	10.9	12.6	14.5	16.4	20.8	24.9	
FOT (MHz)					14.5		20.8	24	

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	0 (Quiet)			
Total Field (F) (SON/ISB)	45570/50082 nT			

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	39			
Solar radio flux (F10.7)	95 sfu			
Solar wind speed	312.0 km/s (varied in the past 24 hrs between 287 & 391 km/s)			
Solar x-ray flares	B2.8 (max flare in the past 24 hrs: C4 0745 UT Mar 20)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	7.3 nT (varied in the past 12 hrs between 4.7 nT & 9.8 nT) 4.1 nT (varied in the past 12 hrs between -4.3 nT & 6.3 nT)			
Solar conditions are at low levels with background X-ray flux at B-class level.				

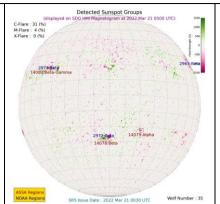
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

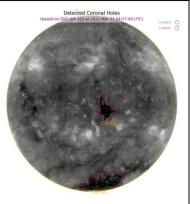
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 21 March 2022

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

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





DISCUSSION:

Solar activity is expected to remain at low to levels. Low solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are slightly enhanced.