Daily Space Weather Summary (SUPARCO)





26.5

								SUPARCU	
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				12.2 MHz					
Virtual Height of F2 layer (h`F2)				330 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)	12.3	12.7	14.0	15.9	18.0	20.3	25.6	31.2	
FOT	10.5	10.0	11.0	12.5	15.2	17.2	21.0	26.5	

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

11.9

10.8

LOCAL GEOMAGNETIC CONDITIONS				
K-index	2 (Quiet)			
Total Field (F) (Son/Isb)	45523/50033 nT			

13.5

15.3

17.3

21.8

The local geomagnetic field is quiet at the moment.

10.5

(MHz)

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	191			
Solar radio flux (F10.7)	188 sfu			
Solar wind speed	472.3 km/s (varied in the past 24 hrs between 440 & 681 km/s)			
Solar x-ray flares	C1.1 (max flare in the past 24-hr: C3, 0820 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+3.7 nT (varied in the past 12 hrs between +2.8 nT & +4.0 nT) -1.8 nT (varied in the past 12 hrs between -2.7 nT & +2.3 nT)			
Solar conditions are at moderate levels with background X-ray flux at C-class level.				

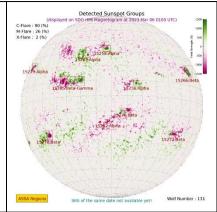
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

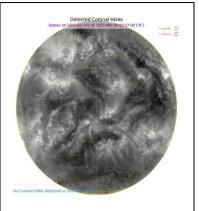
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 8 March 2023

There is one active region AR3242 present on the Sun capable of producing strong M and X-class solar flares having chances of 26% and 2% respectively.

No Coronal Hole (CH) is detected on the solar disk.





DISCUSSION:

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