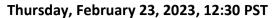
Daily Space Weather Summary (SUPARCO)





21.4

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				12.4 MHz					
Virtual Height of F2 layer (h`F2)				289 km					
Total Electron Content (TEC)				51 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	12.7	13.2	14.7	15.3	16.0	20.1	25.2	

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

9.5

LOCAL GEOMAGNETIC CONDITIONS				
K-index	2 (Quiet)			
Total Field (F) (Son/Isb)	45525/50035 nT			

10.8

12.2

13.6

17.1

The local geomagnetic field is quiet at the moment.

8.7

8.4

FOT

(MHz)

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	100			
Solar radio flux (F10.7)	161 sfu			
Solar wind speed	526.4 km/s (varied in the past 24 hrs between 413 & 587 km/s)			
Solar x-ray flares	C2.0 (max flare in the past 24 hrs (M2, 1350 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.6 nT (varied in the past 12 hrs between +6.3 nT & +10.0 nT) -0.4 nT (varied in the past 12 hrs between -5.6 nT & +7.4 nT)			
Solar conditions are at low to moderate levels with background V ray flux at C class level				

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

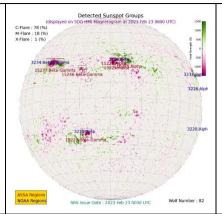
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

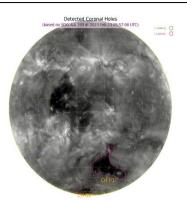
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 23 February 2023

There is one active region AR3234 present on the Sun capable of producing strong M and X-class solar flares having chances of 18% and 1% respectively.

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





DISCUSSION:

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