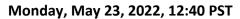
Daily Space Weather Summary (SUPARCO)





LOCAL CURRENT IONOSPHERIC CONDITIONS (SONMIANI)									
Critical Frequency of F2 layer (foF2)				10.4 MHz					
Virtual Height of F2 layer (h`F2)				365 km					
Total Electron Content (TEC)				40 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)	10.5	10.8	11.8	13.4	15.1	17.0	21.7	30.4	
FOT (MHz)	8.9	9.2	10.1	11.4	12.8	14.5	18.4	25.9	
1									

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	1 (Quiet)			
Total Field (F) (Son/Isb)	45580/50095 nT			

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	138			
Solar radio flux (F10.7)	167 sfu			
Solar wind speed	536 km/sec (varied in the past 24 hrs between 472 & 566 km/s)			
Solar x-ray flares	C1.5 (max flare in the past 24 hrs: C4 2340 UT May 22)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	5.2 nT (varied in the past 12 hrs between 4.1 nT & 5.2 nT) -3.0 nT (varied in the past 12 hrs between -3.0 nT & +2.8 nT)			
Solar conditions are at moderate levels with background X-ray flux at C-class level				

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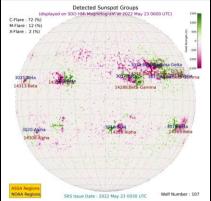
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

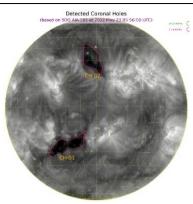
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 23 May 2022

AR 3014 active region present on the Sun has 53%, 15% and 3% tendency to producing C, M and X-class solar flares.

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





DISCUSSION:

Solar activity is expected to remain at moderate levels. Moderate solar wind speed and quiet to unsettled geomagnetic activity is expected. Local HF conditions are enhanced.