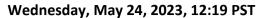
Daily Space Weather Summary (SUPARCO)





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LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				10.4 MHz					
Virtual Height of F2 layer (h`F2)				280 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)	10.6	11.0	12.6	14.7	17.1	19.6	21.9	26.4	
FOT (MHz)	9.0	9.4	10.7	12.5	14.5	16.7	18.6	22.4	

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

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

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	130			
Solar radio flux (F10.7)	155 sfu			
Solar wind speed	611.2 km/s (varied in the past 24 hrs between 518 & 617 km/s)			
Solar x-ray flares	C1.4 (max flare in the past 24 hrs (M3, 1213 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+4.8 nT (varied in the past 12 hrs between +3.4 nT & +5.3 nT) +3.4 nT (varied in the past 12 hrs between -4.9 nT & +3.9 nT)			
Solar conditions are at moderate levels with background X-ray flux at C-class level				

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

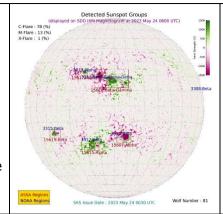
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

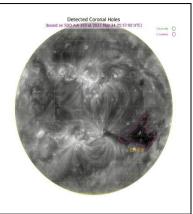
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 24 May 2023

There is one active region AR3311 present on the Sun capable of producing strong M and X-class solar flares having chances of 13% and 1% respectively.

01 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. Moderate to slightly elevated solar wind speed is expected due to the presence of coronal hole. Geomagnetic activity is expected to be quiet. HF conditions are normal.