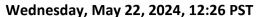
Daily Space Weather Summary (SUPARCO)





OFFARE									
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				9.0 MHz					
Virtual Height of F2 layer (h`F2)				260 km					
Total Electron Content (TEC)				60 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)	9.2	9.7	11.2	13.2	15.5	17.7	23.0	27.3	
FOT (MHz)	7.8	8.2	9.5	11.2	13.2	15.0	19.6	23.2	

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)	45384/50484 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	146			
Solar radio flux (F10.7)	200 sfu			
Solar wind speed	373.1 km/s (varied in the past 24 hrs between 355 & 467 km/s)			
Solar x-ray flares	C3.5 (max flare in the past 24 hrs (M2, 0404 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.0 nT (varied in the past 12 hrs between +5.6 nT & +7.6 nT) +2.1 nT (varied in the past 12 hrs between -4.2 nT & +4.2 nT)			
Solar conditions are at low to moderate levels with background X-ray flux at C-class level.				

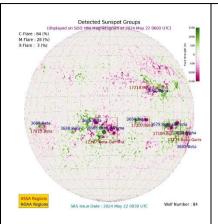
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

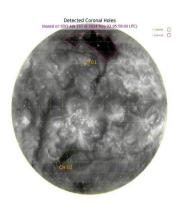
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 22 May 2024

There are two active regions AR3679 and AR3685 present on the Sun capable of producing strong M and X-class solar flares having chances of 28% and 3% respectively.

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





DISCUSSION:

Solar activity is expected to be at low to moderate levels. In case of solar flares, minor to moderate radio blackouts may be observed. Low solar wind speed and quiet geomagnetic activity is expected. HF conditions are slightly enhanced.