Daily Space Weather Summary (SUPARCO)



Thursday, May 26, 2022, 12:12 PST

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				9.7 MHz					
Virtual Height of F2 layer (h`F2)				408 km					
Total Electron Content (TEC)				45 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)	9.8	10.0	10.8	11.9	13.2	14.6	18.2	22.2	
FOT (MHz)	8.3	8.5	9.2	10.1	11.2	12.4	15.5	18.9	

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	0 (Quiet)			
Total Field (F) (SON/ISB)	45102/50112 nT			

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	93			
Solar radio flux (F10.7)	137 sfu			
Solar wind speed	344.2 km/s (varied in the past 24 hrs between 335 & 390 km/s)			
Solar x-ray flares	C1.0 (max flare in the past 24 hrs: M1 1824 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	3.5 nT (varied in the past 12 hrs between 2.9 nT & 5.4 nT) -0.7 nT (varied in the past 12 hrs between -1.5 nT & 3.0 nT)			
Solar conditions are at moderate levels with background X-ray flux at C-class level.				

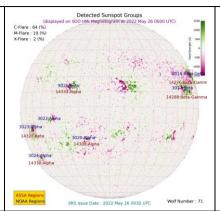
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

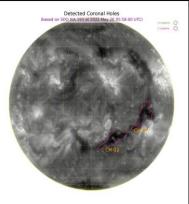
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 26 May 2022

There is one active region AR3014 present on the Sun capable of producing strong C and M-Class solar flares having chances of 64% and 10% respectively.

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





DISCUSSION:

Solar activity is expected to remain at moderate levels. Low solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are slightly depressed. Minor radio blackouts may be observed in case of solar flares.