Daily Space Weather Summary (SUPARCO)



Monday, April 18, 2022, 12:33 PST

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				10.7 MHz					
Virtual Height of F2 layer (h`F2)				310 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)	10.9	11.3	12.6	14.4	16.5	18.6	23.6	32.0	
FOT (MHz)	9.3	9.6	10.7	12.2	14.0	15.8	20.0	27.0	
Local DE conditions are substantial as a common data the condition of the describing of the MODE									

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	2 (quiet)			
Total Field (F) (SON/ISB)	45566/50076 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	74			
Solar radio flux (F10.7)	135 sfu			
Solar wind speed	571.6 km/s (varied in the past 24 hrs between 453 & 594 km/s)			
Solar x-ray flares	C1.6 (max flare in the past 24 hrs: M4 2234 UT Apr 17)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	6.5 nT (varied in the past 12 hrs between 6.4 nT & 9.3 nT) 3.2 nT (varied in the past 12 hrs between -0.4 nT & 5.7 nT)			
Solar conditions are at moderate levels with background X-ray flux at C-class level.				

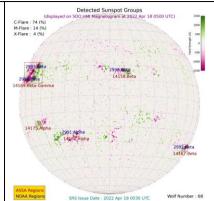
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

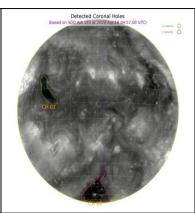
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 18 April 2022

There is no active region present on the Sun capable of producing strong 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 and quiet geomagnetic activity is expected. Local HF conditions are enhanced.