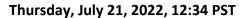
Daily Space Weather Summary (SUPARCO)





								301 ARCO	
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (S	SON)			
Critical Frequency of F2 layer (foF2)				7.4 MHz					
Virtual Height of F2 layer (h`F2)				418 km					
Total Electron Content (TEC)				28 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)	7.5	7.7	8.2	9.0	10.0	11.1	13.7	16.0	
FOT (MHz)	6.4	6.5	7.0	7.7	8.5	9.4	11.6	13.6	

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	0 (Quiet)			
Total Field (F) (SON/ISB)	45599/50109nT			

The local geomagnetic field is quite at the moment.

(MHz)

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	129			
Solar radio flux (F10.7)	133 sfu			
Solar wind speed	378.0 km/s (varied in the past 24 hrs between 357 & 433 km/s)			
Solar x-ray flares	C1.0 (max flare in the past 24 hrs: (C5, 0111 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	9.6 nT (varied in the past 12 hrs between 6.4 nT & 9.8 nT) -2.2 nT (varied in the past 12 hrs between -2.2 nT & 3.6 nT)			

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

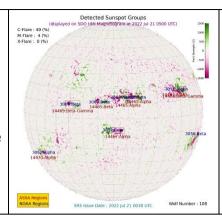
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

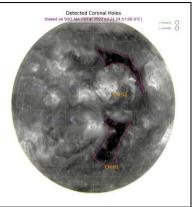
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 21 July 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 low to moderate levels. Solar wind speed may increase due to the impact of coronal holes. Geomagnetic activity is expected to be quiet. Local HF conditions are depressed. Minor radio blackouts may be observed in case of solar flares as the number of sunspots is high today.