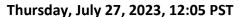
Daily Space Weather Summary (SUPARCO)





								SUPARC
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (S	SON)		
Critical Frequency of F2 layer (foF2)				10.0 MHz				
Virtual Height of F2 layer (h`F2)				300 km				
Total Electron Content (TEC)				38 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)	10.1	10.4	11.8	15.8	17.9	19.8	23.7	27.8
FOT (MHz)	8.6	8.8	10.0	13.4	15.2	16.8	20.4	23.6
		_						

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	0 (Quiet)			
Total Field (F) (Son/Isb)	45515/50025 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	147			
Solar radio flux (F10.7)	167 sfu			
Solar wind speed	469.6 km/s (varied in the past 24 hrs between 470 & 586 km/s)			
Solar x-ray flares	C3.7 (max flare in the past 24 hrs (M4, 1037 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+7.4 nT (varied in the past 12 hrs between +6.9 nT & +7.5 nT) +2.3 nT (varied in the past 12 hrs between -1.3 nT & +3.2 nT)			
Solar conditions are at low levels with background X-ray flux at C-class level.				

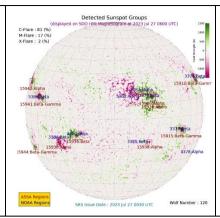
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

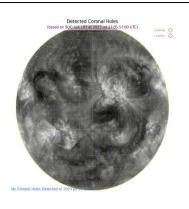
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 27 July 2023

There is no active region present on the Sun capable of producing strong solar flares.

No Coronal Hole (CH) is detected on the solar disk.





DISCUSSION:

Solar activity is expected to be at low levels. In case of solar flares, shortwave fadeouts may be observed. Low solar wind speed and quiet geomagnetic activity is expected. HF conditions are normal.