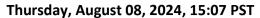
Daily Space Weather Summary (SUPARCO)





								SUPARCU	
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				7.4 MHz					
Virtual Height of F2 layer (h`F2)				274 km					
Total Electron Content (TEC)				50 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	8.4	9.1	11.3	13.7	16.2	21.8	26.3	
FOT (MHz)	6.4	7.1	7.8	9.6	11.7	13.8	18.5	23.8	

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	1 (Quiet)			
Total Field (F) (Son/Isb)	45656/50765 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	242			
Solar radio flux (F10.7)	303 sfu			
Solar wind speed	382.3 km/s (varied in the past 24 hrs between 352 & 450 km/s)			
Solar x-ray flares	C4.9 (max flare in the past 24 hrs (M4, 1854 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+5.68 nT (varied in the past 12 hrs between +4.73 nT & +5.75 nT) -5.3 nT (varied in the past 12 hrs between -4.12 nT & +5.31 nT)			
Solar conditions are at moderate to high levels with background X-ray flux at C-class level.				

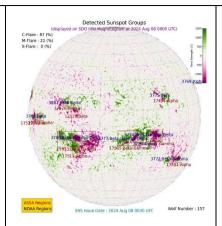
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

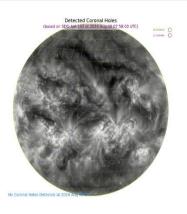
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 8 August 2024

There are five active regions AR3772, AR3774, AR3777, AR3880 and AR3881 present on the Sun capable of producing strong C and M-class solar flares having chances of 87% and 21% respectively.

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





DISCUSSION:

Solar activity is expected to be at moderate to high levels. Few M-class solar flares, have already occurred from the region mentioned above. In case of more M/X-class solar flares, minor to moderate radio blackouts may be observed. Low to moderate solar wind speed and quiet to unsettled geomagnetic activity is expected to prevail. HF conditions are slightly enhanced.