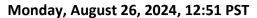
## **Daily Space Weather Summary (SUPARCO)**





								301 ARCO	
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (S	SON)			
Critical Frequency of F2 layer (foF2)				14.4 MHz					
Virtual Height of F2 layer (h`F2)				378 km					
Total Electron Content (TEC)				60 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)	14.5	14.8	16.1	17.9	20.1	22.5	28.3	36.0	
FOT	12.3	12.6	13.7	15.2	17.1	19.1	24.1	30.6	

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	0 (Quiet)			
Total Field (F) (Son/Isb)	45678/50770 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	178			
Solar radio flux (F10.7)	233 sfu			
Solar wind speed	307.2 km/s (varied in the past 24 hrs between 300 & 382 km/s)			
Solar x-ray flares	C6.1 (max flare in the past 24 hrs (C7, 0553 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+4.49 nT (varied in the past 12 hrs between +4.52 nT & +4.95 nT) -2.39 nT (varied in the past 12 hrs between -2.41 nT & +0.97 nT)			
Solar conditions are at low to moderate levels with background X-ray flux at C-class level.				

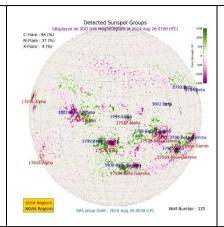
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

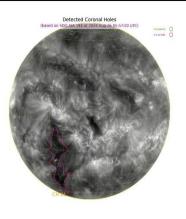
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 26 August 2024

There are five active regions AR3790, AR3796, AR3799, AR3800 and AR3801 present on the Sun capable of producing strong M and X-class solar flares having chances of 37% and 4% respectively.

01 Coronal Hole (CH) is detected on the solar disk.





## **DISCUSSION:**

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