Daily Space Weather Summary (SUPARCO)





							SOLARCO	
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)			13.5 MHz					
Virtual Height of F2 layer (h`F2)			363 km					
Total Electron Content (TEC)			68 TECU					
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances								
100	200	400	600	800	1000	1500	3000	
13.6	14.0	15.3	17.1	19.3	21.6	27.3	34.4	
11.6	11.9	13.0	14.5	16.4	18.4	23.2	29.3	
	eight of F2 ctron Cont num Usable 100	requency of F2 layer eight of F2 layer (h`ctron Content (TEC) num Usable Frequency 100 200 13.6 14.0	requency of F2 layer (foF2) eight of F2 layer (h`F2) ctron Content (TEC) num Usable Frequency (MUF) and 100 200 400 13.6 14.0 15.3	requency of F2 layer (foF2) eight of F2 layer (h`F2) ctron Content (TEC) num Usable Frequency (MUF) and Optimum Tra 100 200 400 600 13.6 14.0 15.3 17.1	requency of F2 layer (foF2) eight of F2 layer (h`F2) ctron Content (TEC) num Usable Frequency (MUF) and Optimum Traffic Frequency 100 200 400 600 800 13.6 14.0 15.3 17.1 19.3	requency of F2 layer (foF2) eight of F2 layer (h`F2) ctron Content (TEC) num Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for volume 100 200 400 600 800 1000 13.6 14.0 15.3 17.1 19.3 21.6	requency of F2 layer (foF2) 13.5 MHz eight of F2 layer (h`F2) 363 km ctron Content (TEC) 68 TECU num Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distantantantantantantantantantantantantant	

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	0 (Quiet)			
Total Field (F) (Son/Isb)	45707/50807 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	202			
Solar radio flux (F10.7)	232 sfu			
Solar wind speed	248.0 km/s (varied in the past 24 hrs between 247 & 309 km/s)			
Solar x-ray flares	C2.4 (max flare in the past 24 hrs (M1, 1141 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+3.1 nT (varied in the past 12 hrs between +2.02 nT & +3.21 nT) -0.94 nT (varied in the past 12 hrs between -2.37 nT & -0.46 nT)			
Solar conditions are at low to moderate levels with background X-ray flux at C-class level.				

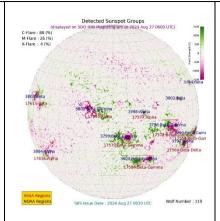
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

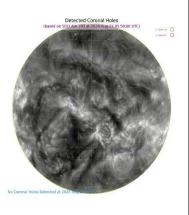
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 27 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 88% and 4% respectively.

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





DISCUSSION:

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