Daily Space Weather Summary (SUPARCO)





								JUPARCO	
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)				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)	13.6	14.0	15.3	17.1	19.3	21.6	27.3	34.4	
FOT	11.6	11.9	13.0	14.5	16.4	18.4	23.2	29.3	

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)	45672/50772 nT			

The local geomagnetic field is quiet at the moment.

(MHz)

LATEST SOLAR CONDITIONS					
Sunspot Number (SN)	200				
Solar radio flux (F10.7)	226 sfu				
Solar wind speed	402.7 km/s (varied in the past 24 hrs between 377 & 497 km/s)				
Solar x-ray flares	C3.2 (max flare in the past 24 hrs (M2, 1343 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+10.27 nT (varied in the past 12 hrs between +7.55 nT & +12.02 nT) -2.64 nT (varied in the past 12 hrs between -5.53 nT & +8.16 nT)				
Solar conditions are at moderate to high levels with background X-ray flux at C-class level.					

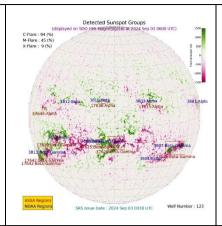
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

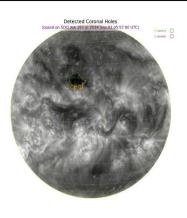
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 3 September 2024

There are three active regions AR3806, AR3807 and AR3813 present on the Sun capable of producing strong M and X-class solar flares having chances of 45% and 9% respectively.

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





DISCUSSION:

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