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



Thursday, September 05, 2024, 12:28 PST

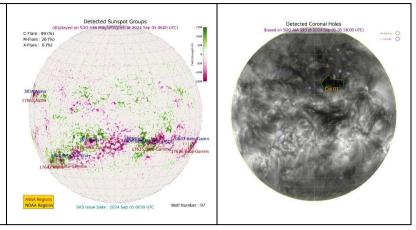
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (	SON)		
Critical Frequency of F2 layer (foF2)				12.8 MHz				
Virtual Height of F2 layer (h`F2) Total Electron Content (TEC)				350 km 60 TECU				
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	13.0	13.3	14.6	16.5	18.7	21.0	26.6	33.3
FOT (MHz)	11.1	11.3	12.4	14.0	15.9	17.9	22.6	28.3
Local HF con	ditions are sl	ightly enhance	d as compared	to the predicte	d monthly med	ian MUF.		
			LOCAL GE	EOMAGNETIC (	CONDITIONS			
K-index				1 (Quiet)				
Total Field (F) (Son/Isb)				450318/50423 nT				
The local geo	omagnetic fie	ld is quiet at tl	ne moment.					
			LATES	ST SOLAR CONI	DITIONS			
Sunspot Number (SN)				151				
Solar radio flux (F10.7)				242 sfu				
Solar wind speed				378.4 km/s (varied in the past 24 hrs between 319 & 456 km/s)				
Solar x-ray flares				C3.9 (max flare in the past 24 hrs (M1, 2000 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+7.9 nT (varied in the past 12 hrs between +8.84 nT $+10.96$ nT) +.35 nT (varied in the past 12 hrs between -4.3 nT $+9.77$ nT)				
Solar conditi	ions are at mo	oderate to high	n levels with b	ackground X-ray	flux at C-class	evel.		

Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

## Daily Sun: 5 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 26% and 6% 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.