Daily Space Weather Summary (SUPARCO)



Thursday, September 12, 2024, 13:00 PST

								JUPARC
		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 70 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 compare	d to the predicte	d monthly med	lian MUF.		
			LOCAL GI	EOMAGNETIC (CONDITIONS			
K-index				3 (Quiet)				
Total Field (F) (Son/Isb)				45627/50712 nT				
The local geo	omagnetic fie	ld is quiet at tl	ne moment.					
			LATE	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				179				
Solar radio flux (F10.7)				207 sfu				
Solar wind speed				389.7 km/s (varied in the past 24 hrs between 334 & 462 km/s)				
Solar x-ray flares				C6.2 (max flare in the past 24 hrs (M4, 0012 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+12.61 nT (varied in the past 12 hrs between +6.29 nT a +12.95 nT) -2.9 nT (varied in the past 12 hrs between -11.36 nT a +6.88 nT)				
Solar conditi	ons are at m	oderate to higi	n levels with b	ackground X-ray	flux at C-class	level.		

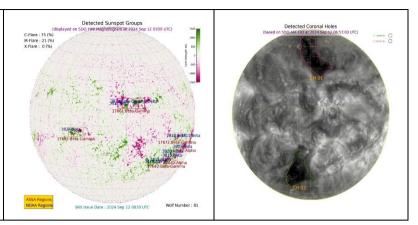
Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

Daily Sun: 12 September 2024

There is one active region AR3814 present on the Sun capable of producing strong C and M-class solar flares having chances of 75% and 21% respectively.

02 Coronal Holes (CHs) are 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 to moderate solar wind speed and quiet to unsettled geomagnetic activity is expected. HF conditions are slightly enhanced.