Daily Space Weather Summary (SUPARCO)





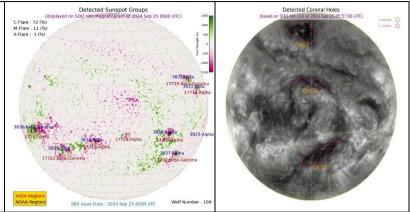
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (S	SON)		
Critical Frequency of F2 layer (foF2)				13. MHz				
Virtual Height of F2 layer (h`F2)				282 km				
Total Electron Content (TEC)				72 TECU				
Maxin	num Usable	Frequency	(MUF) and	Optimum Tra	affic Frequenc	y (FOT) for v	various dist	ances
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	9.2	9.7	11.6	14.1	16.9	19.8	26.4	29.6
FOT (MHz)	7.8	8.2	9.8	12.	14.4	16.9	22.5	26.3
Local HF con	ditions are No	ormal as comp	pared to the pre	edicted monthly	y median MUF.			
			LOCAL GE	OMAGNETIC	CONDITIONS			
K-index				5 (Storm)				
Total Field (F) (Son/Isb)				45659/51569 nT				
The local geo	omagnetic fie	ld is quiet at tl	he moment.					
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				123				
Solar radio flux (F10.7)				172 sfu				
Solar wind speed				498.7 km/s (varied in the past 24 hrs between 378 & 526 km/s)				
Solar x-ray flares				C6.91 (max flare in the past 24 hrs (C6 1146 UT Sep24)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+10.73 nT (varied in the past 12 hrs between +1.59 nT & +11.12 nT) -5.89 nT (varied in the past 12 hrs between -9.91 nT & +7.63 nT)				
Solar conditi	ions are at mo	oderate levels	with backgrou	nd X-ray flux at	C-class level.			

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

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

Daily Sun: 25 September 2024

There is one regions present on the Sun capable of producing strong M and X-class solar flares having chances of 11% and 1% respectively.



03 Coronal Hole (CH) are detected on the solar disk.

DISCUSSION:

Solar activity is expected to be at High levels. Some M-class solar flares, have already occurred from the regions mentioned. In case of more M/X-class solar flares, moderate radio blackouts may be observed. Moderate solar wind speed and quiet geomagnetic activity is expected. HF conditions are Enhanced.