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





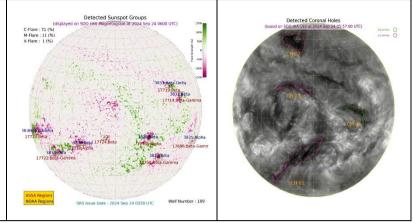
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (	SON)		JUPARCO
Critical Frequency of F2 layer (foF2)				13.5 MHz				
Virtual Height of F2 layer (h`F2)				363 km				
Total Electron Content (TEC)				65 TECU				
Maxin	num Usable	e Frequency	(MUF) and	Optimum Tra	offic Frequenc	y (FOT) for v	various dist	ances
Distance (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 (MHz)	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 GE	OMAGNETIC	CONDITIONS			
K-index				2 (Quiet)				
Total Field (F) (Son/Isb)				45692/50714 nT				
The local ge	omagnetic fie	ld is quiet at tl	he moment.					
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				224				
Solar radio flux (F10.7)				167 sfu				
Solar wind speed				466.6 km/s (varied in the past 24 hrs between 322 & 485 km/s)				
Solar x-ray flares				C1.7 (max flare in the past 24 hrs (M1, 1456 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+4.26 nT (varied in the past 12 hrs between +4.71 nT & +12.7 nT) -2.75 nT (varied in the past 12 hrs between +1.27 nT & +9.02 nT)				
Solar condit	ions are at lov	w to moderate	levels with ba	ckground X-ray	flux at C-class le	evel.		

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: 24 September 2024

There are two active regions AR3833 and AR3836 present on the Sun capable of producing strong M and X-class solar flares having chances of 11% and 1% respectively.



04 Coronal Holes (CHs) are detected on the solar disk.

## **DISCUSSION:**

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