Daily Space Weather Summary (SUPARCO)





28.3

								JUFARCO	
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				12.8 MHz					
Virtual Height of F2 layer (h`F2)				350 km					
Total Electron Content (TEC)				70 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)	13.0	13.3	14.6	16.5	18.7	21.0	26.6	33.3	
FOT	44.4	11.2	12.4	14.0	15.0	17.0	22.6	20.2	

Local HF conditions are slightly enhanced as compared to the predicted monthly median MUF.

12.4

LOCAL GEOMAGNETIC CONDITIONS				
K-index	2 (Quiet)			
Total Field (F) (Son/Isb)	45669/50715 nT			

14.0

15.9

17.9

22.6

The local geomagnetic field is quiet at the moment.

11.3

11.1

(MHz)

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	160			
Solar radio flux (F10.7)	174 sfu			
Solar wind speed	424.2 km/s (varied in the past 24 hrs between 415 & 575 km/s)			
Solar x-ray flares	C1.9 (max flare in the past 24 hrs (M1, 2312 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+5.5 nT (varied in the past 12 hrs between +3.72 nT & +5.91 nT) -1.8 nT (varied in the past 12 hrs between -4.39 nT & -0.91 nT)			
Solar conditions are at low to moderate with background X-ray flux at C-class level.				

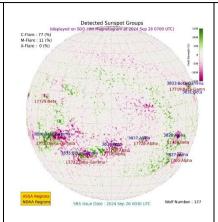
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

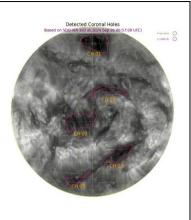
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 26 September 2024

There are three active regions AR3833, AR3835 and AR3836 present on the Sun capable of producing strong C and M-class solar flares having chances of 77% and 11% 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 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.