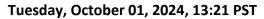
Daily Space Weather Summary (SUPARCO)





								SOFARCO	
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				13.5 MHz					
Virtual Height of F2 layer (h`F2)				363 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)	13.6	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 GEOMAGNETIC CONDITIONS				
K-index	1 (Quiet)			
Total Field (F) (Son/Isb)	45667/50725 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	150			
Solar radio flux (F10.7)	214 sfu			
Solar wind speed	442.6 km/s (varied in the past 24 hrs between 379 & 552 km/s)			
Solar x-ray flares	C2.9 (max flare in the past 24 hrs (M7, 2359 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.19 nT (varied in the past 12 hrs between +5.12 nT & +6.81 nT) +4.38 nT (varied in the past 12 hrs between -3.44 nT & +5.68 nT)			
Solar conditions are at low to moderate levels with background X-ray flux at C-class level.				

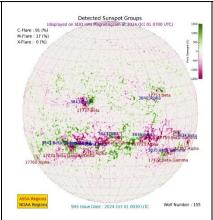
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

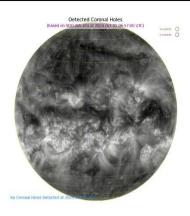
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 1 October 2024

There are two active regions AR3835 and AR3842 present on the Sun capable of producing strong C and M-class solar flares having chances of 91% and 17% respectively.

No Coronal Hole (CH) is 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 to moderate solar wind speed and quiet geomagnetic activity is expected. HF conditions are slightly enhanced.