Daily Space Weather Summary (SUPARCO)





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LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				10.5 MHz					
Virtual Height of F2 layer (h`F2)				290 km					
Total Electron Content (TEC)				43 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)	10.7	11.3	12.5	14.4	16.6	18.9	24.0	27.2	
FOT	9.1	9.1	10.6	12.4	14.1	16.1	20.4	23.1	

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	1 (Quiet)			
Total Field (F) (Son/Isb)	45619/50629 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS					
Sunspot Number (SN)	80				
Solar radio flux (F10.7)	126 sfu				
Solar wind speed	378.9 km/s (varied in the past 24 hrs between 331 & 401 km/s)				
Solar x-ray flares	C1.3 (max flare in the past 24 hrs (C8, 1342 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+7.1 nT (varied in the past 12 hrs between +5.8 nT & +7.6 nT) -4.4 nT (varied in the past 12 hrs between -4.5 nT & +6.9 nT)				
Solar conditions are at low levels with background X-ray flux at C-class level.					

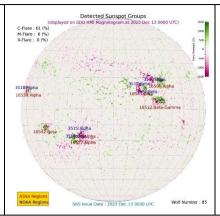
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

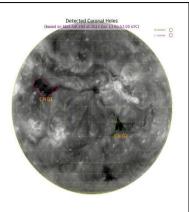
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 13 December 2023

There is no active region present on the Sun capable of producing strong solar flares.

02 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 normal.