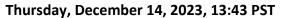
Daily Space Weather Summary (SUPARCO)





								SUPARCU
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)				9.4 MHz				
Virtual Height of F2 layer (h`F2)				272 km				
Total Electron Content (TEC)				37 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)	9.5	9.9	11.3	13.3	15.6	17.8	22.8	27.4
FOT (MHz)	8.1	8.4	9.6	11.3	13.3	15.1	19.4	23.3

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	3 (Quiet)			
Total Field (F) (Son/Isb)	45625/50635 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	114			
Solar radio flux (F10.7)	135 sfu			
Solar wind speed	350.1 km/s (varied in the past 24 hrs between 313 & 451 km/s)			
Solar x-ray flares	C8.8 (max flare in the past 24 hrs (M5, 0744 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+9.2 nT (varied in the past 12 hrs between +7.9 nT & +14.9 nT) -5.4 nT (varied in the past 12 hrs between -11.3 nT & -4.0 nT)			
Solar conditions are at low level with background X-ray flux at C-class level				

Solar conditions are at low level with background X-ray flux at C-class level.

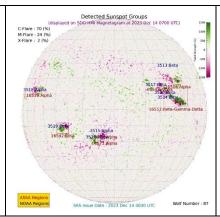
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

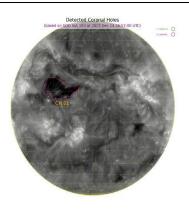
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 14 December 2023

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

01 Coronal Hole (CH) is detected on the solar disk.





DISCUSSION:

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