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





32.7

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				11.3 MHz					
Virtual Height of F2 layer (h`F2)				265 km					
Total Electron Content (TEC)				50 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)	11.5	12.1	14.2	16.9	19.9	23.0	29.8	38.5	
FOT	0.0	10.2	10.1	1.4.4	16.0	10.6	25.2	22.7	

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

12.1

LOCAL GEOMAGNETIC CONDITIONS				
K-index	4 (Unsettled)			
Total Field (F) (Son/Isb)	45502/50012 nT			

14.4

19.6

25.3

16.9

The local geomagnetic field is unsettled at the moment.

10.3

9.8

(MHz)

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	12			
Solar radio flux (F10.7)	108 sfu			
Solar wind speed	578.3 km/sec (varied in the past 24 hrs between 308 & 693 km/s)			
Solar x-ray flares	B7.9 (max flare in the past 24 hrs: (C3, 1617 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	10.3 nT (varied in the past 12 hrs between 9.0 nT & 12.0 nT) -2.9 nT (varied in the past 12 hrs between -6.3 nT & +7.4 nT)			
Solar conditions are at low levels with background X-ray flux at B-class level.				

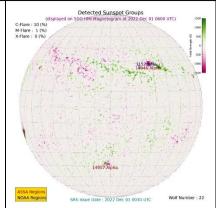
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

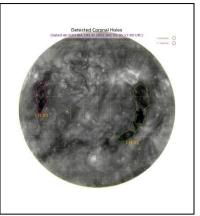
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

## Daily Sun: 1 December 2022

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 levels. In case of solar flares, shortwave fadeouts are possible. Moderate solar wind speed is expected to prevail due to the presence of coronal hole. Geomagnetic activity is expected to be quiet to unsettled. HF conditions are enhanced.