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





LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)			8.8 MHz						
Virtual Height of F2 layer (h`F2)				258 km					
Total Electron Content (TEC)				35 TECU					
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances									
Distance	100	200	400	600	800	1000	1500	3000	

Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	9.0	9.4	10.4	12.6	14.6	16.6	21.1	25.7
FOT (MHz)	7.7	8.0	8.8	10.7	12.4	14.1	17.9	21.8

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

LOCAL GEOMAGNETIC CONDITIONS		
K-index	2 (Quiet)	
Total Field (F) (Son/Isb)	45512/50022 nT	

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS		
Sunspot Number (SN)	93	
Solar radio flux (F10.7)	144 sfu	
Solar wind speed	508.2 km/sec (varied in the past 24 hrs between 486 & 700 km/s)	
Solar x-ray flares	C1.0 (max flare in the past 24 hrs: (C2, 0530 UT)	
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	4.4 nT (varied in the past 12 hrs between 4.3 nT & 5.6 nT) -1.0 nT (varied in the past 12 hrs between -4.0 nT & +3.5 nT)	

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

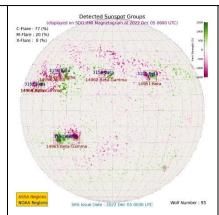
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

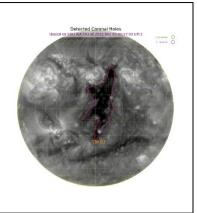
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 5 December 2022

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 to moderte levels. Moderate solar wind speed is expected to prevail due to the presence of coronal hole. Geomagnetic activity is expected to be quiet. HF conditions are normal.