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



Monday, April 25, 2022, 12:11 PST

Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances				
1500	3000			
27.7	34.0			
23.5	28.9			
rar	<b>1500</b> 27.7			

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

LOCAL GEOMAGNETIC CONDITIONS		
K-index	1 (quiet)	
Total Field (F) (SON/ISB)	45579/50089 nT	

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS		
Sunspot Number (SN)	112	
Solar radio flux (F10.7)	159 sfu	
Solar wind speed	455.4 km/s (varied in the past 24 hrs between 428 & 526 km/s)	
Solar x-ray flares	C1.4 (max flare in the past 24 hrs: M1 0201 UT Apr 25)	
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	5.0 nT (varied in the past 12 hrs between 4.8 nT & 5.6 nT) 4.6 nT (varied in the past 12 hrs between 1.6 nT & 4.5 nT)	
Solar conditions are at high levels with background X-ray flux at C-class level.		

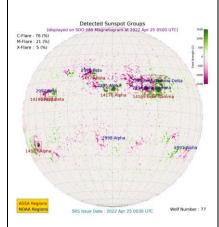
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

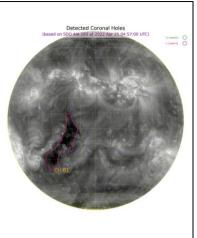
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 25 April 2022

There are two active regions AR2993 and AR2994 present on the Sun capable of producing strong X and M-Class solar flares having chances of 5% and 21% respectively.

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





## **DISCUSSION:**

Solar activity is expected to remain at high levels. Low to moderate solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are enhanced. Minor radio blackouts may be observed in case of solar flares.