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



Monday, January 22, 2024, 13:27 PST

		LOO	CAL CURRENT	IONOSPHERIC	CONDITIONS (	SON)		
Critical Frequency of F2 layer (foF2)				8.2 MHz				
Virtual Height of F2 layer (h`F2) Total Electron Content (TEC)				278 km 32 TECU				
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	8.4	8.7	9.3	11.4	14.7	17.1	20.2	24.7
FOT (MHz)	7.1	7.4	8.0	9.7	12.5	14.5	17.2	21.0
Local HF con	ditions are n	ormal as comp	ared to the pre	edicted monthly	median MUF.			
			LOCAL GE	OMAGNETIC	CONDITIONS			
K-index				0 (Quiet)				
Total Field (F) (Son/Isb)				45613/50623 nT				
The local geo	omagnetic fie	eld is quiet at t	he moment.	·				
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				150				
Solar radio flux (F10.7)				179 sfu				
Solar wind speed				416.1 km/s (varied in the past 24 hrs between 329 & 471 km/s)				
Solar x-ray flares				C2.7 (max flare in the past 24 hrs (M1, 0622 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+5.2 nT (varied in the past 12 hrs between +5.2 nT & +6. nT) -4.5 nT (varied in the past 12 hrs between -4.3 nT & +4. nT)				
Solar conditi	ons are at lo	w levels with <b>k</b>	ackground X-r	ay flux at C-clas	s level.			

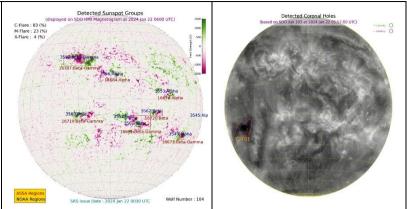
Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

## Daily Sun: 22 January 2024

There is one active region AR3559 present on the Sun capable of producing strong M and X-class solar flares having chances of 23% and 4% respectively.

01 Coronal Hole (CH) is 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 to moderate solar wind speed and quiet to unsettled geomagnetic activity is expected. HF conditions are normal.