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



Monday, January 15, 2024, 12:12 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 cond	ditions are no	ormal as comp	pared to the pre	edicted monthly	median MUF.			
			LOCAL GE	OMAGNETIC (	CONDITIONS			
K-index				0 (Quiet)				
Total Field (F) (Son/Isb)				45618/50628 nT				
The local geo	magnetic fie	ld is quiet at t	he moment.					
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				183				
Solar radio flux (F10.7)				188 sfu				
Solar wind speed				337.7 km/s (varied in the past 24 hrs between 292 & 490 km/s)				
Solar x-ray flares				C1.3 (max flare in the past 24 hrs (C9, 1206 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+3.6 nT (varied in the past 12 hrs between +2.5 nT & +5.7 nT) -1.8 nT (varied in the past 12 hrs between -4.9 nT & -0.4 nT)				
Solar condition	ons are at lov	w levels with <b>b</b>	oackground X-r	ay flux at C-clas	s level.			

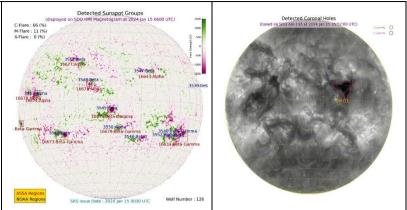
Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

## Daily Sun: 15 January 2024

There is one active region AR3540 present on the Sun capable of producing strong C and M-class solar flares having chances of 66% and 11% 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 solar wind speed and quiet geomagnetic activity is expected. HF conditions are normal.