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



Tuesday, January 24, 2023, 12:27 PST

								JUPARCO
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (	SON)		
Critical Frequency of F2 layer (foF2)				11.0 MHz				
Virtual Height of F2 layer (h`F2)				335 km				
Total Electron Content (TEC)				48 TECU				
Maxim	num Usable	Frequency	(MUF) and	Optimum Tra	ffic Frequence	cy (FOT) for	various dist	ances
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	11.1	11.4	12.5	14.0	15.8	17.6	22.0	27.7
FOT (MHz)	9.4	9.7	10.6	11.9	13.4	15.0	18.7	23.6
Local HF conditions are enhanced as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
K-index				0 (Quiet)				
Total Field (F) (Son/Isb)				45525/50035 nT				
The local geo	omagnetic fie	ld is quiet at tl	ne moment.	·				
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				144				
Solar radio flux (F10.7)				189 sfu				
Solar wind speed				476.4 km/s (varied in the past 24 hrs between 353 & 552 km/s)				
Solar x-ray flares				C2.3 (max flare in the past 24 hrs: (C6, 0426 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+4.8 nT (varied in the past 12 hrs between +4.5 nT & +6.3 nT) +0.1 nT (varied in the past 12 hrs between -4.4 nT & +4.1 nT)				
Solar conditi	ons are at lov	v to moderate	levels with ba	ckground X-ray	flux at C-class l	evel.		

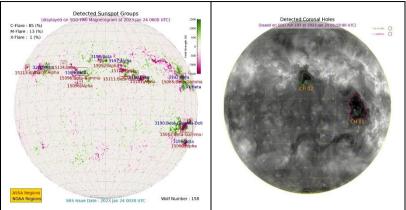
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

## Daily Sun: 24 January 2023

There is one active region AR3190 present on the Sun capable of producing strong C and M-class solar flares having chances of 85% and 13% respectively.

02 Coronal Holes (CHs) are 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. Light to slightly elevated solar wind speed and quiet geomagnetic activity is expected. HF conditions are enhanced.