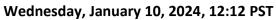
## **Daily Space Weather Summary (SUPARCO)**





		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (S	SON)		JUPARCO
Critical Frequency of F2 layer (foF2)				10.5 MHz				
Virtual Height of F2 layer (h`F2)				290 km				
Total Electron Content (TEC)				43 TECU				
Maxin	num Usable	e Frequency	(MUF) and	Optimum Tra	affic Frequenc	y (FOT) for v	various dist	ances
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	10.7	11.3	12.5	14.4	16.6	18.9	24.0	27.2
FOT (MHz)	9.1	9.1	10.6	12.4	14.1	16.1	20.4	23.1
Local HF con	ditions are no	ormal as comp	ared to the pre	edicted monthly	y median MUF.			
			LOCAL GE	OMAGNETIC (	CONDITIONS			
K-index				1 (Quiet)				
Total Field (F) (Son/Isb)				45608/50618 nT				
The local geo	omagnetic fie	ld is quiet at tl	ne moment.					
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				183				
Solar radio flux (F10.7)				176 sfu				
Solar wind speed				399.2 km/s (varied in the past 24 hrs between 353 & 457 km/s)				
Solar x-ray flares				C4.8 (max flare in the past 24 hrs (C9, 0325 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+7.4 nT (varied in the past 12 hrs between +5.1 nT & +6.7 nT) -3.3 nT (varied in the past 12 hrs between -2.7 nT & +5.8 nT)				
Solar conditi	ions are at lov	w levels with b	ackground X-r	ay flux at C-clas	s level.			

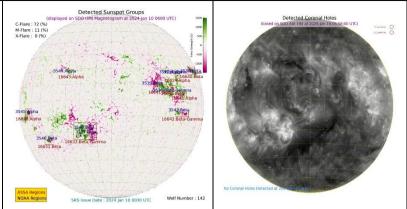
Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

## Daily Sun: 10 January 2024

There is one active region AR3536 present on the Sun capable of producing strong C and M-class solar flares having chances of 72% and 11% respectively.

No Coronal Hole (CH) is detected on the solar disk.



## **DISCUSSION:**

Solar activity is expected to be at low 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.