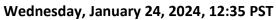
Daily Space Weather Summary (SUPARCO)





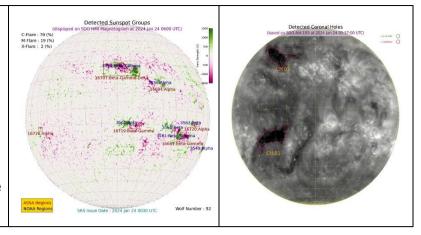
								SULANCO
		LUU	LAL CURRENT		CONDITIONS (S	SON)		
		of F2 layer		10.5 MHz				
Virtual Height of F2 layer (h`F2)				290 km				
Total Electron Content (TEC)				43 TECU				
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances								
Distance (Km)	100	200	400	600	800	1000	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 conditions are slightly enhanced as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
K-index				2 (Quiet)				
Total Field (F) (Son/Isb)				45613/50623 nT				
The local geo	omagnetic fie	ld is quiet at t	he moment.					
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				123				
Solar radio flux (F10.7)				180 sfu				
Solar wind speed				466.3 km/s (varied in the past 24 hrs between 372 & 470 km/s)				
Solar x-ray flares				C3.4 (max flare in the past 24 hrs (M4, 1640 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+2.5 nT (varied in the past 12 hrs between +2.3 nT & +7.3 nT) +0.9 nT (varied in the past 12 hrs between -4.6 nT & +3.5 nT)				
Solar conditi	ions are at mo	oderate to hig	h levels with ba	ackground X-ray	y flux at C-class l	evel.		

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: 24 January 2024

There are two active regions AR3559 and AR3561 present on the Sun capable of producing strong M and X-class solar flares having chances of 19% and 2% respectively.



02 Coronal Holes (CHs) are detected on the solar disk.

DISCUSSION:

Solar activity is expected to be at moderate to high levels. Multiple M-class solar flares have already occurred from the regions present on the solar limb. In case of more M/X-class solar flares, minor to moderate radio blackouts may be observed. Moderate to slightly solar wind speed is expected to prevail due the combine effect of CME and coronal holes. Quiet to unsettled geomagnetic activity is expected. HF conditions are slightly enhanced.