Daily Space Weather Summary (SUPARCO)



Thursday, January 26, 2023, 13:07 PST

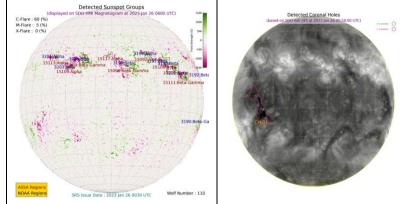
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (S	SON)		
Critical Frequency of F2 layer (foF2)				9.8 MHz				
Virtual Height of F2 layer (h`F2)				323 km				
Total Electron Content (TEC)				48 TECU				
Maxin	num Usable	e Frequency	(MUF) and	Optimum Tra	ffic Frequenc	y (FOT) for v	various dista	ances
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	9.9	10.2	11.2	12.7	14.3	16.0	20.1	25.2
FOT (MHz)	8.4	8.7	9.5	10.8	12.2	13.6	17.1	21.4
Local HF con	ditions are sli	ightly enhance	d as compared	l to the predicte	ed monthly medi	an MUF.		
			LOCAL GE	OMAGNETIC (CONDITIONS			
K-index				2 (Quiet)				
Total Field (F) (Son/Isb)				45515/50025 nT				
The local geo	omagnetic fie	ld is quiet at tl	ne moment.					
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				140				
Solar radio flux (F10.7)				172 sfu				
Solar wind speed				479.9 km/s (varied in the past 24 hrs between 368 & 523 km/s)				
Solar x-ray flares				C2.2 (max flare in the past 24 hrs: (M4, 1011 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+8.4 nT (varied in the past 12 hrs between +7.0 nT 8 +8.9 nT) -3.9 nT (varied in the past 12 hrs between -6.5 nT 8 +5.4 nT)				
Solar conditi	ions are at lov	w levels with b	ackground X-r	ay flux at C-clas	s level.			

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

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

Daily Sun: 26 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 60% and 5% respectively.



01 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 to prevail. HF conditions are slightly enhanced.