Daily Space Weather Summary (SUPARCO)



Wednesday, February 23, 2022, 12:20 PST

		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (SON)		
Critical Frequency of F2 layer (foF2)				10.4 MHz				
Virtual Height of F2 layer (h`F2)				293 km				
Total Electron Content (TEC)				28 TECU				
Maxim	num Usable	e Frequency	(MUF) and	Optimum Tra	ffic Frequence	cy (FOT) for v	various dist	ances
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	10.6	11.0	12.3	14.1	16.1	18.1	22.9	28.3
FOT (MHz)	9.0	9.4	10.5	12.0	13.7	15.4	19.5	24.1
Local HF con	ditions are no	ormal with slig	htly enhanced	MUF as compa	red to the predi	cted monthly m	edian values.	
			LOCAL GE	OMAGNETIC (CONDITIONS			
K-index				0 (Quiet)				
Total Field (F) (SON/ISB)				45555/50069 nT				
The local geo	omagnetic fie	ld is quite at tl	he moment.					
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				38				
Solar radio flux (F10.7)				95 sfu				
Solar wind speed				509.2 km/s (varied in the past 24 hrs between 461 & 575 km/s)				
Solar x-ray flares				B1.7 (max flare in the past 24 hrs: B4 0244 UT Feb 23)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				5.5 nT (varied in the past 12 hrs between 3.8 nT & 5.7 nT) 1.6 nT (varied in the past 12 hrs between -2.2 nT & 3.3 nT)				
Solar conditi	ons are at lov	w levels with b	ackground X-r	ay flux at B-clas	s level.			

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

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

Daily Sun: 23 February 2022

There is no active region present on the Sun capable of producing strong solar flares. 01 Coronal Hole (CH) is detected on the solar disk.

DISCUSSION:

Solar activity is expected to remain at low levels. Moderate solar wind speed is expected due to the presence of coronal hole. Geomagnetic activity is expected to be quiet. Local HF conditions are normal.