Daily Space Weather Summary (SUPARCO)



Monday, January 30, 2023, 12:49 PST

								SUPARC
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (SON)		
Critical Frequency of F2 layer (foF2) Virtual Height of F2 layer (h`F2) Total Electron Content (TEC)				9.8 MHz				
				265 km 45 TECU				
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	10.0	10.5	11.9	13.9	16.0	18.9	23.0	28.2
FOT (MHz)	8.5	8.9	10.1	11.8	13.6	16.1	20.0	24.0
Local HF con	ditions are no	ormal as comp	ared to the pre	edicted monthly	median MUF.			
			LOCAL GE	OMAGNETIC (CONDITIONS			
K-index				1 (Quiet)				
Total Field (F) (Son/Isb)				45520/50080 nT				
The local geo	omagnetic fie	ld is quiet at tl	he moment.					
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				80				
Solar radio flux (F10.7)				137 sfu				
Solar wind speed				415 km/sec (varied in the past 24 hrs between 415 & 520 km/s)				
Solar x-ray flares				B 9.5 (max flare in the past 24 hrs: (C 2.0, 0607 UT Jan 30)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				4.3 nT (varied in the past 12 hrs between 2.1 nT & 5.8 nT -1.4 nT (varied in the past 12 hrs between -3.5 nT & 4.0 nT)				
Solar conditi	ions are at mo	derate to high	havels with ha	ckground X-ray	flux at B-class I	ovol		

Solar conditions are at moderate to high levels with background X-ray flux at B-class 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: 30 January 2023

There are no active regions present on the Sun capable of producing strong solar flares. 02 Coronal Holes (CHs) are detected on the solar disk.

DISCUSSION:

Solar activity is expected to be at moderate levels. In case of solar flares, shortwave fadeouts are possible. Solar wind speed is expected to be moderate. Geomagnetic activity is expected to be mostly quiet. HF conditions are normal.