Daily Space Weather Summary (SUPARCO)



Tuesday, February 07, 2023, 12:37 PST

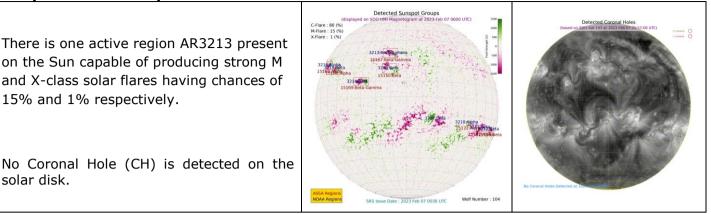
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)						
Critical Frequency of F2 layer (foF2)	9.8 MHz	9.8 MHz				
Virtual Height of F2 layer (h`F2)	323 km	323 km				
Total Electron Content (TEC)	48 TECU	48 TECU				
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances						
Distance 100 200 400 (Km)	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)8.48.79.5	10.8	12.2	13.6	17.1	21.4	
Local HF conditions are slightly enhanced as compared to the predicted monthly median MUF.						
LOCAL GEOMAGNETIC CONDITIONS						
K-index	2 (Quiet)	2 (Quiet)				
Total Field (F) (Son/Isb)	45515/500	45515/50025 nT				
The local geomagnetic field is quiet at the moment						
LA	TEST SOLAR CON	DITIONS				
Sunspot Number (SN)	139	139				
Solar radio flux (F10.7)	158 sfu	158 sfu				
Solar wind speed	491.6 km 582 km/s)					
Solar x-ray flares	C2.3 (max	C2.3 (max flare in the past 24 hrs (C7, 1212 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz) Solar conditions are at low to moderate levels with	+11.2 nT) +0.5 nT (v +8.3 nT)	+0.5 nT (varied in the past 12 hrs between -7.2 nT & +8.3 nT)				

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: 7 February 2023

There is one active region AR3213 present on the Sun capable of producing strong M and X-class solar flares having chances of 15% and 1% respectively.



DISCUSSION:

solar disk.

Solar activity is expected to be at low to moderate 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.