

Daily Space Weather Summary (SUPARCO)

Wednesday, March 11, 2020, 14:39 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS OVER PAKISTAN ^a

Critical Frequency of F2 layer (foF2)	9.2 MHz							
Virtual Height of F2 layer (h`F2)	245 km							
Total Electron Content (TEC)	25 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)	9.4	9.9	11.8	14.3	17.0	19.7	25.5	33.8
FOT (MHz)	8.0	8.4	10.0	12.2	14.4	16.7	21.7	28.7

Local ionospheric conditions are nominal with better MUF conditions.

LOCAL GEOMAGNETIC CONDITIONS OVER PAKISTAN ^{ab}

K-index	1 (max K in 24 hrs: 1)
Total Field Value (F)	45410/49935 nT
Declination (D)	1.00/1.68 degrees

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	0
Solar radio flux (F10.7)	71 sfu
Solar wind speed	297 km/sec (varied in the past 24 hrs between 296 & 337 km/s)
Solar x-ray flares	A 1.8 (max flare in the past 48 hrs: A 8.0 0011 UT Mar 09)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	2.4 nT (varied in the past 24 hrs between 0.7 nT & 5.3 nT) -1.1 nT (varied in the past 24 hrs between -2.7 nT & +3.7 nT)

Solar conditions are at **low** levels with background X-ray flux at A-class level. Local HF working frequencies are nominal as compared to monthly average predicted values.

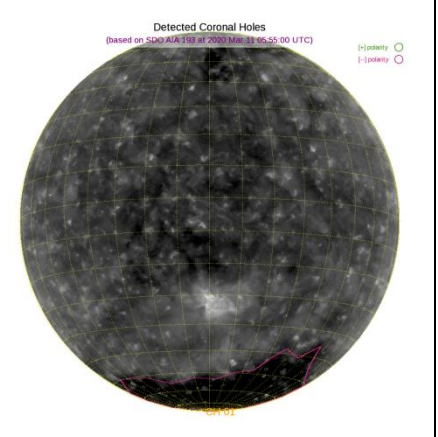
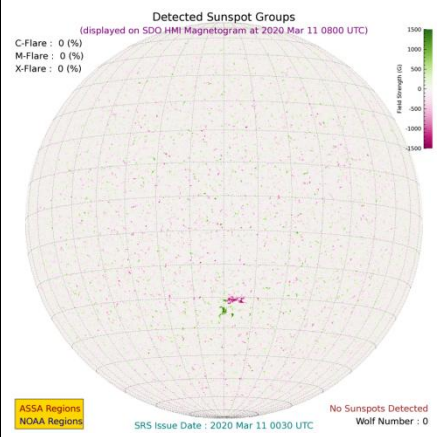
^aSonmiani (SON): 25.2° N, 66.75 E° ^bIslamabad (ISB): 33.7° N, 73.13 E°

Notes: Credits: www.spaceweather.go.kr, www.sws.bom.gov.au, www.spaceweather.com, www.solarmonitor.org

Daily Sun: 11 March 2020

There are no active regions on the Sun capable of producing strong solar flares.

01 Coronal Hole (CH) is detected on the southern solar limb at the moment.



DISCUSSION:

Solar activity is at low levels. The solar wind speed is currently at nominal levels. Quiet geomagnetic conditions are expected with a chance of unsettled periods. Local HF conditions are better.