

Daily Space Weather Summary (SUPARCO)

Wednesday, June 12, 2019, 14:55 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS OVER PAKISTAN ^a

Critical Frequency of F2 layer (foF2)	6.7 MHz							
Virtual Height of F2 layer (h`F2)	370 km							
Total Electron Content (TEC)	19 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)	6.8	6.9	7.6	8.6	9.7	10.9	13.8	19.4
FOT (MHz)	5.7	5.9	6.5	7.3	8.2	9.3	11.8	16.5

Local ionospheric conditions are nominal with slightly depressed MUF conditions.

LOCAL GEOMAGNETIC CONDITIONS OVER PAKISTAN ^{ab}

K-index	1 (max K in 24 hrs: 1)	
Total Field Value (F)	45353/49845 nT	
Declination (D)	0.57/0.7 degrees	

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS

Sunspot Number (SN)	0
Solar radio flux (F10.7)	70 sfu
Solar wind speed	320 km/sec (varied in the past 24 hrs between 297 & 320 km/s)
Solar x-ray flares	A 7.3 (max flare in the past 24 hrs: A 8.0 0601 UT Jun 12)
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	6.9 nT (varied in the past 24 hrs between 1.7 nT & 6.9 nT) -2 nT (varied in the past 24 hrs between -2.6 nT & +1.3 nT)

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

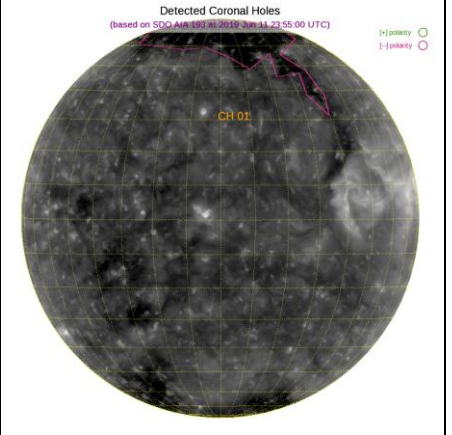
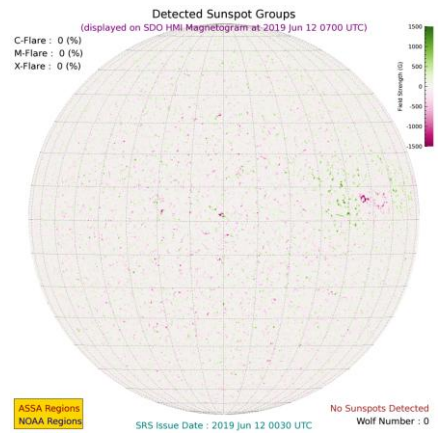
^aSonmiani (SON): 25.2° N, 66.75 E° ^bIslamabad (ISB): 33.7° N, 73.13 E°

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

Daily Sun: 12 June 2019

None of the regions are active on the solar disk.

Currently, 01 Coronal Hole (CH) is detected on the northern solar limb.



DISCUSSION:

Solar activity is at very low levels. Local MUF conditions are mildly depressed. The solar wind speed is currently normal but may become moderately enhanced today due to coronal hole effect. Local geomagnetic conditions are quiet at the moment.