

Daily Space Weather Summary (SUPARCO)

Thursday, March 25, 2021, 11:28 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS OVER PAKISTAN ^a								
Critical Frequency of F2 layer (foF2)		8.2 MHz						
Virtual Height of F2 layer (h ^o F2)		320 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)	8.3	8.6	9.6	11.1	12.8	14.6	18.7	25.9
FOT (MHz)	7.1	7.3	8.2	9.5	10.9	12.4	15.9	22.0
Local ionospheric conditions are nominal with normal MUF conditions.								
LOCAL GEOMAGNETIC CONDITIONS OVER PAKISTAN ^{ab}								
K-index		3						
Total Field Value (F)		45464/50025 nT						
The local geomagnetic field is quiet at the moment.								
LATEST SOLAR CONDITIONS								
Sunspot Number (SN)		26						
Solar radio flux (F10.7)		79 sfu						
Solar wind speed		414 km/sec (varied in the past 12 hrs between 370 & 454 km/s)						
Solar x-ray flares		A 4.2 (max flare in the past 24 hrs: B 3.0 2200 UT Mar 24)						
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)		3.8 nT (varied in the past 24 hrs between 3.6 nT & 7.9 nT) -2.3 nT (varied in the past 24 hrs between -5.0 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 nominal as compared to monthly average predicted values.								

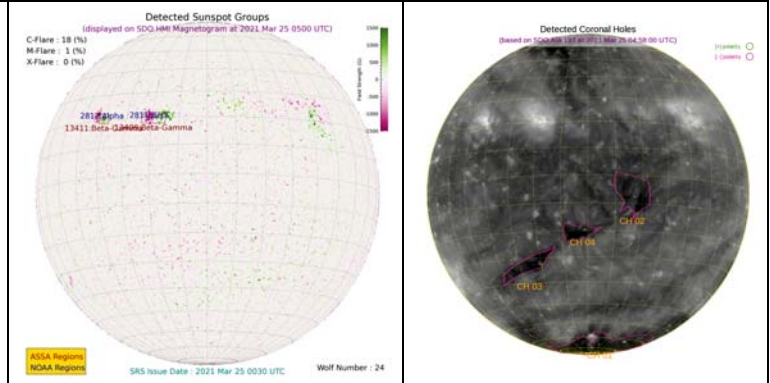
^aSonmiani (SON): 25.2° N, 66.75 E° ^bIslamabad (ISB): 33.7° N, 73.13 E°

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

Daily Sun: 25 March 2021

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

04 Coronal Holes (CHs) are detected on the solar disk.



DISCUSSION:

Solar activity is expected to remain at very low levels. Moderate to low solar wind speed and quiet geomagnetic conditions are expected. Local HF conditions are normal.