## **Daily Space Weather Summary (SUPARCO)**





LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)			8.3 MHz						
Virtual Height of F2 layer (h`F2)			310 km						
Total Electron Content (TEC)				30 TECU					
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances									
Distance (Km)	100	200	400	600	800	1000	1500	3000	

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MUF (MHz)	8.4	8.7	9.8	11.3	12.9	13.7	18.7	22.4
FOT (MHz)	7.1	7.4	8.3	9.6	11.0	11.6	15.9	19.0

Local HF conditions are normal as compared to the predicted monthly median MUF.

LOCAL GEOMAGNETIC CONDITIONS		
K-index	1 (Quiet)	
Total Field (F) (Son/Isb)	45578/50088 nT	

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS		
Sunspot Number (SN)	78	
Solar radio flux (F10.7)	99 sfu	
Solar wind speed	439.8 km/sec (varied in the past 24 hrs between 335 & 470 km/s)	
Solar x-ray flares	B1.9 (max flare in the past 24 hrs: (C8, 1535 UT)	
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	6.4 nT (varied in the past 12 hrs between 5.1 nT & 7.4 nT) 0.1 nT (varied in the past 12 hrs between -5.5 nT & 1.3 nT)	
Solar conditions are at low levels with background X-ray flux at B-class level.		

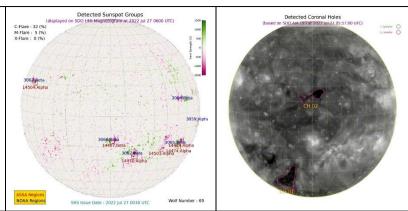
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

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

Daily Sun: 27 July 2022

There is no active region 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 remain at low levels. Low solar wind speed and quiet geomagnetic activity is expected. HF conditions are normal.