Daily Space Weather Summary (SUPARCO)



Wednesday, July 26, 2023, 12:00 PST

		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (SON)		JULANCO
Critical Frequency of F2 layer (foF2)				10.4 MHz				
Virtual Height of F2 layer (h`F2)				280 km				
Total Electron Content (TEC)				42 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)	10.6	11.0	12.6	14.7	17.1	19.6	21.9	26.4
FOT (MHz)	9.0	9.4	10.7	12.5	14.5	16.7	18.6	22.4
Local HF conditions are slightly depressed as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
K-index				2 (Quiet)				
Total Field (F) (Son/Isb)				45515/50025 nT				
The local geo	omagnetic fie	ld is quiet at tl	he moment.					
LATEST SOLAR CONDITIONS								
Sunspot Number (SN)				137				
Solar radio flux (F10.7)				169 sfu				
Solar wind speed				494.5 km/s (varied in the past 24 hrs between 362 & 556 km/s)				
Solar x-ray flares				C5.6 (max flare in the past 24 hrs (M1, 2116 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+10.2 nT (varied in the past 12 hrs between +6.5 nT & +13.2 nT) -5.9 nT (varied in the past 12 hrs between -11.0 nT & +7.5 nT)				
Solar conditi	ons are at lov	w levels with b	ackground X-r	ay flux at C-clas	s level.			

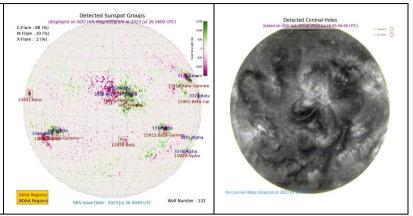
Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

Daily Sun: 26 July 2023

There is no active region present on the Sun capable of producing strong solar flares.

No Coronal Hole (CH) is detected on the solar disk.



DISCUSSION:

Solar activity is expected to be at low levels. In case of solar flares, shortwave fadeouts may be observed. Low solar wind speed and quiet geomagnetic activity is expected. HF conditions are slightly depressed.