aily Space Weather Summary (SUPARCO)



Wednesday, May 31, 2023, 12:06 PST

		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (SON)		
Critical Frequency of F2 layer (foF2)				10.4 MHz				
Virtual Height of F2 layer (h`F2)				280 km				
Total Electron Content (TEC)				48 TECU				
Maxim	num Usable	e Frequency	(MUF) and	Optimum Tra	ffic Frequence	cy (FOT) for v	various dist	ances
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 con	ditions are no	ormal as comp	ared to the pre	edicted monthly	median MUF.			
			LOCAL GE	OMAGNETIC (CONDITIONS			
K-index				0 (Quiet)				
Total Field (F) (Son/Isb)				45515/50025 nT				
The local geo	omagnetic fie	ld is quiet at tl	ne moment.					
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				144				
Solar radio flux (F10.7)				162 sfu				
Solar wind speed				379.2 km/s (varied in the past 24 hrs between 338 & 427 km/s)				
Solar x-ray flares				C3.2 (max flare in the past 24 hrs (M1, 1338 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+7.5 nT (varied in the past 12 hrs between +4.4 nT & +8.1 nT) +5.5 nT (varied in the past 12 hrs between -5.1 nT & +5.8 nT)				
Solar conditi	ons are at mo	oderate levels	with backgrou	nd X-ray flux at	C-class level.			

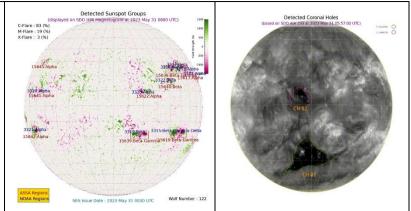
Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

Daily Sun: 31 May 2023

There is one active region AR3315 present on the Sun capable of producing strong M and X-class solar flares having chances of 19% and 3% respectively.

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



DISCUSSION:

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