Daily Space Weather Summary (SUPARCO)



Monday, June 12, 2023, 12:15 PST

								JUPARCU
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (SON)		
Critical Frequency of F2 layer (foF2)				10.1 MHz				
Virtual Height of F2 layer (h`F2)				305 km				
Total Electron Content (TEC)				53 TECU				
Maxim	num Usable	e Frequency	(MUF) and	Optimum Tra	ffic Frequenc	cy (FOT) for v	various dista	ances
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	10.2	11.5	12.8	14.7	16.8	18.9	23.9	28.1
FOT (MHz)	8.7	9.8	10.9	12.5	14.3	16.1	20.3	23.9
Local HF con	ditions are no	ormal as comp	ared to the pre	edicted monthly	r 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)				116				
Solar radio flux (F10.7)				154 sfu				
Solar wind speed				454.7 km/s (varied in the past 24 hrs between 388 & 477 km/s)				
Solar x-ray flares				C1.9 (max flare in the past 24 hrs (C5, 0658 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+6.9 nT (varied in the past 12 hrs between +4.8 nT & +7.9 nT) +3.7 nT (varied in the past 12 hrs between -3.0 nT & +5.8 nT)				
Solar conditi	ons are at lov	w to moderate	e levels with ba	ackground X-ray	y flux at C-class l	evel.		

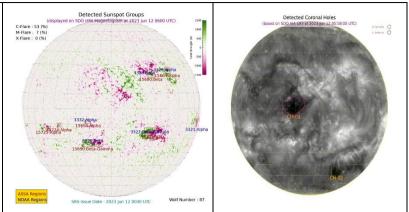
Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

Daily Sun: 12 June 2023

There is one active region AR3327 present on the Sun capable of producing strong C and M-class solar flares having chances of 53% and 7% respectively.

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



DISCUSSION:

Solar activity is expected to be at low to moderate levels. In case of solar flares, shortwave fadeouts may be observed. Low to moderate solar wind speed is expected due to the presence of coronal holes. Geomagnetic activity is expected to be quiet. HF conditions are normal.