Daily Space Weather Summary (SUPARCO)



Thursday, May 30, 2024, 14:36 PST

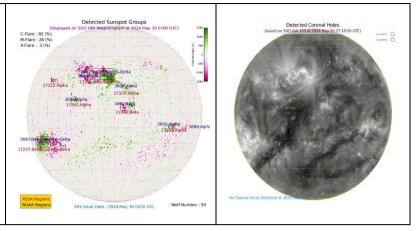
								JUPARC
		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (S	SON)		
Critical Frequency of F2 layer (foF2)				8.0 MHz				
Virtual Height of F2 layer (h`F2)				274 km				
Total Electron Content (TEC)				60 TECU				
Maxim	num Usable	e Frequency	(MUF) and	Optimum Tra	ffic Frequenc	y (FOT) for	various dist	ances
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	8.2	8.7	10.8	13.1	15.5	20.8	23.8	26.0
FOT (MHz)	7.0	7.4	9.2	11.1	13.1	17.7	20.2	22.1
Local HF con	ditions are no	ormal as comp	ared to the pre	edicted monthly	/ median MUF.			
			LOCAL GE	OMAGNETIC	CONDITIONS			
K-index				1 (Quiet)				
Total Field (F) (Son/Isb)				45664/50674 nT				
The local geo	omagnetic fie	ld is quiet at t	he moment.	·				
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				131				
Solar radio flux (F10.7)				171 sfu				
Solar wind speed				337.7 km/s (varied in the past 24 hrs between 315 & 428 km/s)				
Solar x-ray flares				C2.2 (max flare in the past 24 hrs (X1, 1437 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+6.9 nT (varied in the past 12 hrs between +6.3 nT & +9.9 nT) +0.5 nT (varied in the past 12 hrs between -5.3 nT & +4.7 nT)				
Solar conditi	ons are at mo	oderate to hig	h 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: 30 May 2024

There are two active regions AR3691 and AR3697present on the Sun capable of producing strong M and X-class solar flares having chances of 26% and 3% respectively.



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

DISCUSSION:

Solar activity is expected to be at moderate to high levels. Multiple M and X-class solar flares, have already occurred from the regions mentioned causing minor to moderate radio blackouts. In case of more M/X-class solar flares, minor to moderate radio blackouts may be observed. Low to moderate solar wind speed and quiet geomagnetic activity is expected. HF conditions are normal.