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



Tuesday, April 11, 2023, 12:20 PST

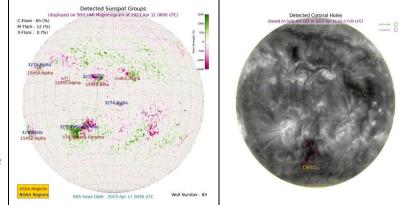
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		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (	SON)		
Critical Frequency of F2 layer (foF2)				13.2 MHz				
Virtual Height of F2 layer (h`F2)				325 km				
Total Electron Content (TEC)				60 TECU				
Maxim	num Usable	e Frequency	(MUF) and	Optimum Tra	affic Frequence	cy (FOT) for v	various dist	ances
Distance (Km)	100	200	400	600	800	1000	1500	3000
MUF (MHz)	13.3	13.7	15.2	17.3	19.6	22.1	28.0	32.2
FOT (MHz)	11.3	11.6	12.9	14.7	16.7	18.8	23.8	27.4
Local HF con	ditions are er	nhanced as co	mpared to the	predicted mont	thly median MU	F.		
			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 t	he moment.	·				
			LATES	ST SOLAR CON	DITIONS			
Sunspot Number (SN)				92				
Solar radio flux (F10.7)				140 sfu				
Solar wind speed				461.3 km/s (varied in the past 24 hrs between 424 & 557 km/s)				
Solar x-ray flares				B7.9 (max flare in the past 24 hrs (C6, 0307 UT)				
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+6.2 nT (varied in the past 12 hrs between +4.5 nT & +9.0 nT) -0.5 nT (varied in the past 12 hrs between -2.0 nT & +4.8 nT)				
Solar conditi	ons are at lov	w to moderate	e levels with ba	ckground X-ray	flux at B-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: 11 April 2023

There is one active region AR3272 present on the Sun capable of producing strong C and M-class solar flares having chances of 65% and 12% respectively.



01 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. Slightly elevated solar wind speed and quiet geomagnetic activity is expected. HF conditions are enhanced.