Thursday, November 07, 2024, 14:31 PST

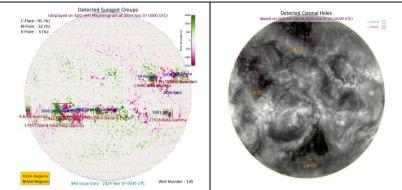


Radio Blackouts		Solar Radiation Storms			Geomagnetic Storms				
-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	-24 Hr	Current	Predicted	
R1 – R2	R0	R1 - R2	<b>S0</b>	<b>S0</b>	S0 / <mark>S1</mark>	G0	G0	G0 / <mark>G1</mark>	
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				13.5 MHz					
Virtual Height of F2 layer (h`F2)				320 km					
Total Electron Content (TEC)				75 TECU					
Maxin	num Usable	e Frequency (M	1UF) and C	Optimum Tra	ffic Frequenc	y (FOT) fo	r various di	stances	
Distance (Km)	100	200	400	600	800	1000	1500	3000	
MUF (MHz)	13.7	14.1	15.9	18.3	21.1	24.0	30.9	35.0	
FOT (MHz)	11.6	12.0	13.5	15.6	17.9	20.4	26.2	29.8	
Local HF conditions are enhanced as compared to the predicted monthly median MUF.									
			LOCAL GE	OMAGNETIC (	CONDITIONS				
K-index				0 (Quiet)					
Total Field (F) (Son/Isb)				45674/50714 nT					
The local geomagnetic field is quiet at the moment.									
LATEST SOLAR CONDITIONS									
Sunspot Number (SN)				155					
Solar radio flux (F10.7)				260 sfu					
Solar wind speed				388.4 km/s (varied in the past 24 hrs between 447 & 622 km/s)					
Solar x-ray flares				C3.5 (max flare in the past 24 hrs (X2, 1340 UT)					
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)				+2.81 nT (varied in the past 12 hrs between +1.8 nT & +4.72 nT) -2.2 nT (varied in the past 12 hrs between -0.19 nT & -4.53 nT)					
Solar conditions are at high levels with background X-ray flux at C-class level.									

## Daily Sun: 7 November 2024

There are two active regions AR3883 and AR3886 present on the Sun capable of producing strong M and X-class solar flares having chances of 32% and 3% respectively.

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



## **DISCUSSION:**

Solar activity is expected to be at high levels. M/X-class solar flares, have already occurred from the regions present on the solar disk. In case of more M/X flares, minor to moderate radio blackouts may be observed. Solar wind speed is expected to be at moderate to slightly elevated levels due to the effect of coronal holes. Geomagnetic activity is expected to be at quiet to unsettled levels. HF conditions are enhanced.

## Credits:

Solar conditions courtesy to SOHO, DSCOVR and GOES-16 missions. NOAA SWPC is acknowledged for solar radio flux conditions. Korean Space Weather Centre is acknowledged for solar disk and coronal hole images.

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

	NGG DEITEED										
	<u>Radio Blackouts</u>										
Minor	Moderate	Strong	Severe	Extreme							
<b>R1</b>	<b>R2</b>	<b>R3</b>	<b>R4</b>	<b>R5</b>							
Solar Radiation Storms											
Minor	Moderate	Strong	Severe	Extreme							
<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>							
Geomagnetic Storms											
Minor	Moderate	Strong	Severe	Extreme							
<b>G1</b>	<b>G2</b>	<b>G3</b>	<b>G4</b>	<b>G5</b>							

## RSG SCALES