Daily Space Weather Summary (SUPARCO)





								SOLARCO	
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				10.5 MHz					
Virtual Height of F2 layer (h`F2)				290 km					
Total Electron Content (TEC)				43 TECU					
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances									
Distance (Km)	100	200	400	600	800	1000	1500	3000	
MUF (MHz)	10.7	11.3	12.5	14.4	16.6	18.9	24.0	27.2	
FOT (MHz)	9.1	9.1	10.6	12.4	14.1	16.1	20.4	23.1	

Local HF conditions are normal as compared to the predicted monthly median MUF.

LOCAL GEOMAGNETIC CONDITIONS				
K-index	0 (Quiet)			
Total Field (F) (Son/Isb)	45546/50556 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	149			
Solar radio flux (F10.7)	178 sfu			
Solar wind speed	514.1 km/s (varied in the past 24 hrs between 436 & 876 km/s)			
Solar x-ray flares	C2.7 (max flare in the past 24 hrs (M1, 1330 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+1.1 nT (varied in the past 12 hrs between +1.7 nT & +4.4 nT) +0.3 nT (varied in the past 12 hrs between -0.6 nT & +2.1 nT)			
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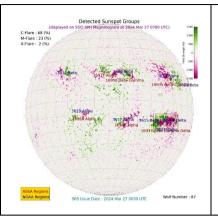
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

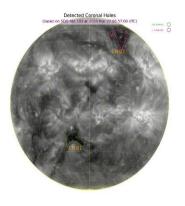
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 27 March 2024

There is one active region AR3615 present on the Sun capable of producing strong M and X-class solar flares having chances of 23% and 2% respectively.

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





DISCUSSION:

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