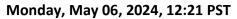
Daily Space Weather Summary (SUPARCO)





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		LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (S	SON)		
Critical Frequency of F2 layer (foF2)				10.0 MHz				
Virtual Height of F2 layer (h`F2)				286 km				
Total Electron Content (TEC)				38 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)	10.1	10.6	12.6	14.3	16.3	19.3	22.3	27.5
FOT	8.6	9.0	10.7	12.2	13.9	16.4	19.0	23.4

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	1 (Quiet)			
Total Field (F) (Son/Isb)	45695/50705 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	152			
Solar radio flux (F10.7)	152 sfu			
Solar wind speed	421.1 km/s (varied in the past 24 hrs between 305 & 419 km/s)			
Solar x-ray flares	X1.0 (max flare in the past 24 hrs (X4, 0635 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+15.6 nT (varied in the past 12 hrs between +10.4 nT & +15.1 nT) -2.0 nT (varied in the past 12 hrs between -11.2 nT & +3.7 nT)			
Solar conditions are at moderate to high levels with background Y-ray flux at Y-class level				

Solar conditions are at moderate to high levels with background X-ray flux at X-class level.

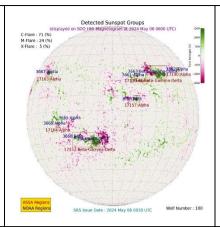
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

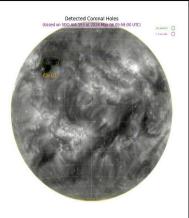
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 6 May 2024

There are two active regions AR3663 and AR3664 present on the Sun capable of producing strong M and X-class solar flares having chances of 24% and 5% respectively.

01 Coronal Hole (CH) is detected on the solar disk.





DISCUSSION:

Solar activity is expected to be at moderate to high levels. Multiple M/X-class solar flares, have already occurred from the regions mentioned. These caused 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 to unsettled geomagnetic activity is expected. HF conditions are normal.