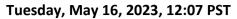
## **Daily Space Weather Summary (SUPARCO)**





								301 ARCO
LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)				10.4 MHz				
Virtual Height of F2 layer (h`F2)				288 km				
Total Electron Content (TEC)				49 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)	10.5	11.0	12.5	14.5	16.8	19.2	24.7	30.0
FOT (MHz)	8.8	9.4	10.6	12.3	14.3	16.3	21.0	25.5

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

LOCAL GEOMAGNETIC CONDITIONS				
K-index	1 (Quiet)			
Total Field (F) (Son/Isb)	45515/50025 nT			

The local geomagnetic field is quiet at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	103			
Solar radio flux (F10.7)	135 sfu			
Solar wind speed	479.3 km/s (varied in the past 24 hrs between 446 & 517 km/s)			
Solar x-ray flares	B8.1 (max flare in the past 24 hrs (C2, 0811 UT)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	+6.7nT (varied in the past 12 hrs between +2.6nT & +6.8 nT) +5.5 nT (varied in the past 12 hrs between -2.0 nT & +3.6 nT)			
Solar conditions are at low to moderate levels with background X-ray flux at R-class level				

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

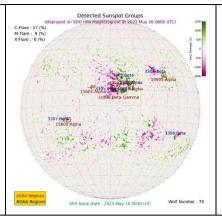
Sonmiani (SON): 25.20 N, 66.750 E, Islamabad (ISB): 33.70 N, 73.130 E

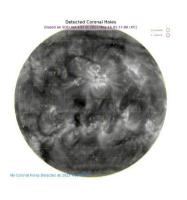
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 16 May 2023

There is one active region AR3305 present on the Sun capable of producing strong C and M-class solar flares having chances of 57% and 9% respectively.

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





## **DISCUSSION:**

Solar activity is expected to be at low to moderate levels. In case of solar flares, shortwave fadeouts may be observed. Low solar wind speed and quiet geomagnetic activity is expected. HF conditions are slightly enhanced.