

Daily Space Weather Summary (SUPARCO)

Monday, May 30, 2022, 12:09 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)		9.9 MHz						
Virtual Height of F2 layer (h`F2)		333 km						
Total Electron Content (TEC)		44 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)	10.0	10.3	11.4	12.9	14.6	16.4	20.8	26.0
FOT (MHz)	8.5	8.8	9.7	11.0	12.4	13.9	17.7	22.1
Local HF conditions are normal as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
K-index		2 (quiet)						
Total Field (F) (SON/ISB)		45598/50108 nT						
The local geomagnetic field is quiet at the moment.								
LATEST SOLAR CONDITIONS								
Sunspot Number (SN)		42						
Solar radio flux (F10.7)		98 sfu						
Solar wind speed		549.1 km/s (varied in the past 24 hrs between 479 & 628 km/s)						
Solar x-ray flares		B3.4 (max flare in the past 24 hrs: C1 0226 UT)						
Interplanetary Magnetic Field (IMF)		5.6 nT (varied in the past 12 hrs between 4.2 nT & 5.6 nT)						
Total Field (Bt)		5.4 nT (varied in the past 12 hrs between -2.4 nT & 5.2 nT)						
Z Component of Field (Bz)								
Solar conditions are at low levels with background X-ray flux at B-class level.								

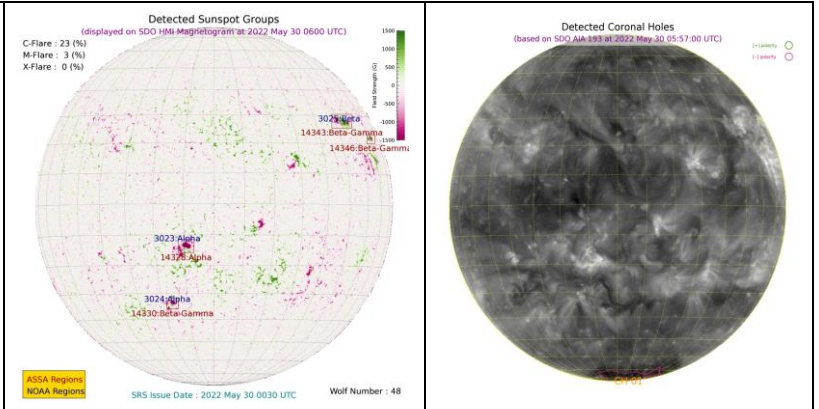
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 30 May 2022

There is no active region present on the Sun capable of producing strong solar flares.

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



DISCUSSION:

Solar activity is expected to remain at low levels. Moderate solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are normal.