Daily Space Weather Summary (SUPARCO)

Tuesday, June 14, 2022, 12:31 PST

SUPARCO

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)	
Critical Frequency of F2 layer (foF2)	10.0 MHz
Virtual Height of F2 layer (h`F2)	358 km
Total Electron Content (TEC)	40 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	10.4	11.4	12.8	14.5	16.2	20.4	25.1
FOT (MHz)	8.6	8.8	9.7	10.9	12.3	13.8	17.3	21.3

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

LOCAL GEOMAGNETIC CONDITIONS	
K-Index	1 (Quiet)
Total Field (F) (SON/ISB)	45102 /50112 nT

The local geomagnetic field is quite at the moment.

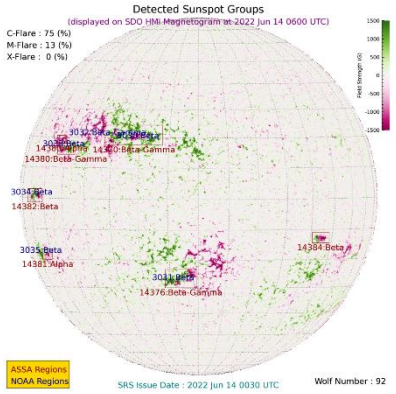
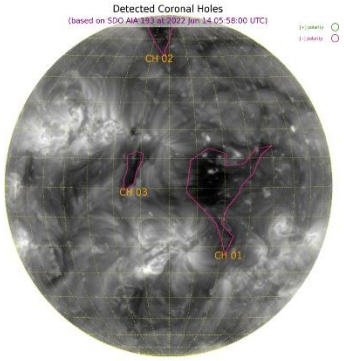
LATEST SOLAR CONDITIONS	
Sunspot Number (SN)	96
Solar radio flux (F10.7)	132 sfu
Solar wind speed	482.9 km/s (varied in the past 24 hrs between 436 & 558 km/s)
Solar x-ray flares	C1.5 (max flare in the past 24 hrs: C8, 0639 UT)
Interplanetary Magnetic Field (IMF) **Total Field (Bt)** **Z Component of Field (Bz)**	6.9 nT (varied in the past 12 hrs between 4.9 nT & 8.4 nT) -0.4 nT (varied in the past 12 hrs between -1.7 nT & 4.3 nT)

Solar conditions are at moderate levels with background X-ray flux at C-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: 14 June 2022

There is one active region AR3032 present on the Sun capable of producing strong C and M-Class solar flares with chances of 75% and 13%. 03 Coronal Holes (CHs) are detected on the solar disk.		

DISCUSSION:

Solar activity is expected to remain at moderate levels. Low to moderate solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are enhanced. Minor to moderate radio blackouts may be observed in case of solar flares.