

Daily Space Weather Summary (SUPARCO)

Thursday, March 03, 2022, 12:27 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
Critical Frequency of F2 layer (foF2)		13.4 MHz						
Virtual Height of F2 layer (h`F2)		253 km						
Total Electron Content (TEC)		48 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)	13.7	14.3	16.7	19.7	23.1	26.4	33.9	40.5
FOT (MHz)	11.6	12.2	14.2	16.7	19.6	22.4	28.8	34.5
Local HF conditions are enhanced as compared to the predicted monthly median MUF.								
LOCAL GEOMAGNETIC CONDITIONS								
K-index		0 (Quiet)						
Total Field (F) (SON/ISB)		45573/50074 nT						
The local geomagnetic field is quite at the moment.								
LATEST SOLAR CONDITIONS								
Sunspot Number (SN)		66						
Solar radio flux (F10.7)		110 sfu						
Solar wind speed		397.1 km/s (varied in the past 24 hrs between 483 & 395 km/s)						
Solar x-ray flares		B5.0 (max flare in the past 24 hrs: M2 1739 UT Mar 02)						
Interplanetary Magnetic Field (IMF)		2.2 nT (varied in the past 12 hrs between 2.9 nT & 3.6 nT)						
Total Field (Bt)		0.4 nT (varied in the past 12 hrs between -0.9 nT & 1.5 nT)						
Z Component of Field (Bz)								
Solar conditions are at moderate levels with background X-ray flux at B-class level.								

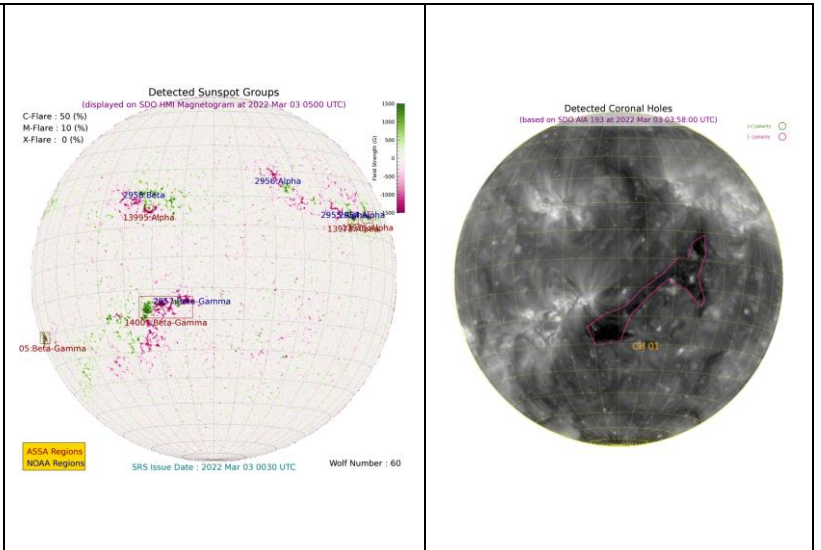
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

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

Daily Sun: 3 March 2022

There is one active region AR2957 present on the Sun along with two more active regions in magnetically complex states. They are capable of producing strong C- and M-Class solar flares having 50% and 10% chances respectively in the next 24-hrs.

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



DISCUSSION:

Solar activity is expected to remain at moderate levels. Low solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are enhanced.