

# Daily Space Weather Summary (SUPARCO)

Wednesday, March 16, 2022, 12:23 PST



LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)								
<b>Critical Frequency of F2 layer (foF2)</b>		10.7 MHz						
<b>Virtual Height of F2 layer (h`F2)</b>		288 km						
<b>Total Electron Content (TEC)</b>		32 TECU						
Maximum Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distances								
Distance (Km)	100	200	400	600	800	1000	1500	3000
<b>MUF (MHz)</b>	10.9	11.2	12.8	15.8	17.1	19.4	24.7	29.4
<b>FOT (MHz)</b>	9.3	9.5	10.9	13.4	14.5	16.5	21.0	25.0
Local HF conditions are normal with slightly enhanced MUF as compared to the predicted monthly median values.								
LOCAL GEOMAGNETIC CONDITIONS								
<b>K-index</b>		0 (Quiet)						
<b>Total Field (F) (SON/ISB)</b>		45584/50089 nT						
The local geomagnetic field is quite at the moment.								
LATEST SOLAR CONDITIONS								
<b>Sunspot Number (SN)</b>		71						
<b>Solar radio flux (F10.7)</b>		110 sfu						
<b>Solar wind speed</b>		429.4 km/s (varied in the past 24 hrs between 369 & 518 km/s)						
<b>Solar x-ray flares</b>		B3.1 (max flare in the past 24 hrs: M1 2246 UT Mar 15)						
<b>Interplanetary Magnetic Field (IMF)</b>		1.6 nT (varied in the past 12 hrs between 2.9 nT & 4.5 nT)						
<b>Total Field (Bt)</b>		1.4 nT (varied in the past 12 hrs between -2.9 nT & 3.2 nT)						
<b>Z Component of Field (Bz)</b>								
Solar conditions are at low to moderate levels with background X-ray flux at B-class level.								

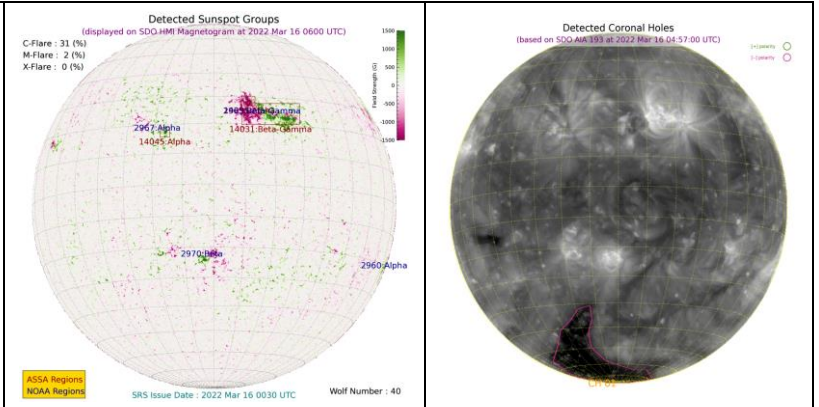
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

Notes: Credits: [www.spaceweather.go.kr](http://www.spaceweather.go.kr), [www.sws.bom.gov.au](http://www.sws.bom.gov.au), [www.spaceweather.com](http://www.spaceweather.com), [www.solen.info](http://www.solen.info)

## Daily Sun: 16 March 2022

There is one active region AR2965 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 to moderate levels. Low solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are slightly enhanced as compared to the predicted monthly median MUF.