Daily Space Weather Summary (SUPARCO)



Thursday, February 24, 2022, 12:21 PST

LOCAL CURRENT IONOSPHERIC CONDITIONS (SON)									
Critical Frequency of F2 layer (foF2)				9.3 MHz					
Virtual Height of F2 layer (h`F2)				288 km					
Total Electron Content (TEC)				19 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)	9.5	9.8	11.0	12.7	14.5	16.4	20.7	25.5	
FOT (MHz)	8.1	8.3	9.4	10.8	12.3	13.9	17.6	21.7	
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Local HF conditions are slightly enhanced as compared to the predicted monthly median MUF.

LOCAL GEOMAGNETIC CONDITIONS				
K-index	2 (Quiet)			
Total Field (F) (SON/ISB)	45560/50084 nT			

The local geomagnetic field is quite at the moment.

LATEST SOLAR CONDITIONS				
Sunspot Number (SN)	38			
Solar radio flux (F10.7)	95 sfu			
Solar wind speed	511.4 km/s (varied in the past 24 hrs between 539 & 424 km/s)			
Solar x-ray flares	B1.5 (max flare in the past 24 hrs: B9 0255 UT Feb 24)			
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)	3.9 nT (varied in the past 12 hrs between 3.8 nT & 5.5 nT) 0.8 nT (varied in the past 12 hrs between -0.2 nT & -3.4 nT)			
Solar conditions are at low levels with background X-ray flux at B-class level.				

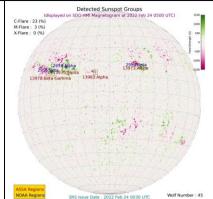
Sonmiani (SON): 25.2° N, 66.75° E, Islamabad (ISB): 33.7° N, 73.13° E

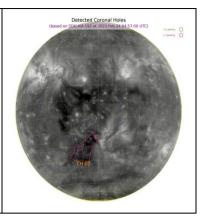
Notes: Credits: www.spaceweather.go.kr,www.sws.bom.gov.au,www.spaceweather.com,www.solen.info

Daily Sun: 24 February 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. Low solar wind speed and quiet geomagnetic activity is expected. Local HF conditions are slightly enhanced.