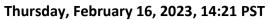
Daily Space Weather Summary (SUPARCO)





	LOC	CAL CURRENT	IONOSPHERIC	CONDITIONS (SON)			
Critical Frequency of F2 layer (foF2) Virtual Height of F2 layer (h`F2)				12.4 MHz 289 km				
um Usable	e Frequency	(MUF) and	Optimum Tra	ffic Frequenc	cy (FOT) for v	various dista	ances	
100	200	400	600	800	1000	1500	3000	
12.5	12.7	13.2	14.7	15.3	16.0	20.1	25.2	
8.4	8.7	9.5	10.8	12.2	13.6	17.1	21.4	
litions are sli	ightly enhance	d as compare	d to the predicte	d monthly med	ian MUF.			
		LOCAL G	EOMAGNETIC (CONDITIONS				
K-index				2 (Quiet)				
Total Field (F) (Son/Isb)			45515/50025 nT					
magnetic fie	ld is quiet at tl	ne moment.						
		LATE	ST SOLAR CONI	DITIONS				
Sunspot Number (SN)				140				
Solar radio flux (F10.7)				174 sfu				
Solar wind speed				437.4 km/s (varied in the past 24 hrs between 312 & 482 km/s)				
Solar x-ray flares			C3.1 (max flare in the past 24 hrs (M1, 0032 UT)					
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)			+12.1 nT (varied in the past 12 hrs between +5.4 nT +14.7 nT) -10.2 nT (varied in the past 12 hrs between -3.1 nT & +3. nT)					
	ight of F2 ight of F2 tron Cont um Usable 100 12.5 8.4 itions are sl itions are sl I (F) (Sou magnetic fie umber (Sou b flux (F2 d speed y flares etary Mag	equency of F2 layer ight of F2 layer (h` tron Content (TEC) um Usable Frequency 100 200 12.5 12.7 8.4 8.7 itions are slightly enhance I (F) (Son/Isb) magnetic field is quiet at the lumber (SN) o flux (F10.7) d speed y flares etary Magnetic Field I (Bt)	equency of F2 layer (foF2) ight of F2 layer (h`F2) tron Content (TEC) um Usable Frequency (MUF) and 100 200 400 12.5 12.7 13.2 8.4 8.7 9.5 itions are slightly enhanced as compare LOCAL G I (F) (Son/Isb) magnetic field is quiet at the moment. LATE umber (SN) o flux (F10.7) d speed y flares etary Magnetic Field (IMF) I (Bt)	equency of F2 layer (foF2)12.4 MHzight of F2 layer (h`F2)289 kmitron Content (TEC)50 TECUum Usable Frequency (MUF) and Optimum Tra10020040060012.512.712.512.713.214.78.48.78.48.79.510.8itions are slightly enhanced as compared to the predictedLOCAL GEOMAGNETIC OP2 (Quiet)2 (Quiet)1 (F) (Son/Isb)45515/5002magnetic field is quiet at the moment.140of flux (F10.7)174 sfu4 speed437.4 km/s km/s)y flaresC3.1 (maxetary Magnetic Field (IMF) l (Bt)+12.1 nT (+14.7 nT) -10.2 nT (v.	equency of F2 layer (foF2) 12.4 MHz ight of F2 layer (h`F2) 289 km tron Content (TEC) 50 TECU um Usable Frequency (MUF) and Optimum Traffic Frequence 100 200 400 600 800 12.5 12.7 13.2 14.7 15.3 8.4 8.7 9.5 10.8 12.2 itions are slightly enhanced as compared to the predicted monthly med LOCAL GEOMAGNETIC CONDITIONS 2 (Quiet) 1 (F) (Son/Isb) 45515/50025 nT magnetic field is quiet at the moment. LATEST SOLAR CONDITIONS 140 o flux (F10.7) 174 sfu 437.4 km/s (varied in the km/s) y flares C3.1 (max flare in the p +12.1 nT (varied in the +14.7 nT) -10.2 nT (varied in the +14.7 nT) -10.2 nT (varied in the p	equency of F2 layer (foF2) 12.4 MHz ight of F2 layer (h`F2) 289 km tron Content (TEC) 50 TECU um Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for version of the second	Equency of F2 layer (h°F2) 12.4 MHz ight of F2 layer (h°F2) 289 km tron Content (TEC) 50 TECU um Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various distance in the predict of the	

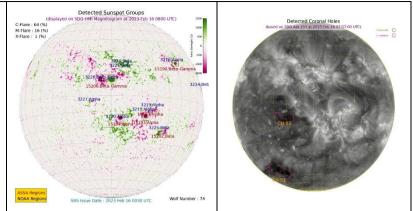
Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

Daily Sun: 16 February 2023

There is one active region AR3226 present on the Sun capable of producing strong M and X-class solar flares having chances of 16% and 1% respectively.

02 Coronal Holes (CHs) are detected on the solar disk.



DISCUSSION:

Solar activity is expected to be at low to moderate levels. Low solar wind speed and quiet geomagnetic activity is expected to prevail. HF conditions are slightly enhanced.