Daily Space Weather Summary (SUPARCO)





							JUPARC	
	LOC	CAL CURREN	I IONOSPHERIC	CONDITIONS (SON)			
Critical Frequency of F2 layer (foF2) Virtual Height of F2 layer (h`F2) Total Electron Content (TEC)								
				290 km 43 TECU				
100	200	400	600	800	1000	1500	3000	
10.7	11.3	12.5	14.4	16.6	18.9	24.0	27.2	
9.1	9.1	10.6	12.4	14.1	16.1	20.4	23.1	
ditions are no	ormal as comp	ared to the p	redicted monthly	median MUF.				
		LOCAL G	EOMAGNETIC (CONDITIONS				
K-index				0 (Quiet)				
Total Field (F) (Son/Isb)			45613/50623 nT					
magnetic fie	eld is quiet at th	ne moment.	-					
		LATE	ST SOLAR CON	DITIONS				
Sunspot Number (SN)				94				
Solar radio flux (F10.7)				154 sfu				
Solar wind speed			476.0 km/s (varied in the past 24 hrs between 409 & 541 km/s)					
Solar x-ray flares			B9.6 (max flare in the past 24 hrs (C3, 0926 UT)					
Interplanetary Magnetic Field (IMF) Total Field (Bt) Z Component of Field (Bz)			+3.0 nT (varied in the past 12 hrs between +3.6 nT & +4. nT) -0.5 nT (varied in the past 12 hrs between -2.9 nT & +3. nT)					
	eight of F itron Cont ium Usable 100 10.7 9.1 ditions are n d (F) (Sou magnetic fiel Number (Sou o flux (F: d speed hy flares etary Mag d (Bt)	equency of F2 layer eight of F2 layer (h`) tron Content (TEC) num Usable Frequency 100 200 10.7 11.3 9.1 9.1 ditions are normal as comp d (F) (Son/Isb) magnetic field is quiet at the second	equency of F2 layer (foF2) eight of F2 layer (h`F2) tron Content (TEC) num Usable Frequency (MUF) and 100 200 400 10.7 11.3 12.5 9.1 9.1 10.6 ditions are normal as compared to the pro- LOCAL G d (F) (Son/Isb) magnetic field is quiet at the moment. LATE Number (SN) fo flux (F10.7) d speed ay flares etary Magnetic Field (IMF) d (Bt)	requency of F2 layer (foF2)10.5 MHzsight of F2 layer (h`F2)290 kmAtron Content (TEC)43 TECUnum Usable Frequency (MUF) and Optimum Tra10020040060010.711.312.514.49.19.110.612.4ditions are normal as compared to the predicted monthlyLOCAL GEOMAGNETIC O00Quiet)d (F) (Son/Isb)45613/506magnetic field is quiet at the moment.LATEST SOLAR CONNumber (SN)94o flux (F10.7)154 sfud speed476.0 km/swy flaresB9.6 (maxetary Magnetic Field (IMF)d (Bt)+3.0 nT (van T)-0.5 nT (van T)	requency of F2 layer (foF2) 10.5 MHz sight of F2 layer (h`F2) 290 km tron Content (TEC) 43 TECU num Usable Frequency (MUF) and Optimum Traffic Frequence 100 200 400 600 800 10.7 11.3 12.5 14.4 16.6 9.1 9.1 10.6 12.4 14.1 ditions are normal as compared to the predicted monthly median MUF. LOCAL GEOMAGNETIC CONDITIONS 0 Quiet) 45613/50623 nT magnetic field is quiet at the moment. LATEST SOLAR CONDITIONS Mumber (SN) 94 94 o flux (F10.7) 154 sfu d speed +3.0 nT (varied in the part of Field (B7) +3.0 nT (varied in the part of Field (B7)	Appendix of F2 layer (h`F2) 290 km tron Content (TEC) 43 TECU um Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for value 100 200 400 600 800 1000 10.7 11.3 12.5 14.4 16.6 18.9 9.1 9.1 10.6 12.4 14.1 16.1 USCAL GEOMAGNETIC CONDITIONS O (Quiet) d (F) (Son/Isb) 45613/50623 nT magnetic field is quiet at the moment. LATEST SOLAR CONDITIONS Mumber (SN) 94 94 o flux (F10.7) 154 sfu d speed 476.0 km/s (varied in the past 24 hr km/s) ay flares B9.6 (max flare in the past 24 hrs (C at the past 12 hrs bet nT) -0.5 nT (varied in the past 12 hrs bet nT)	equency of F2 layer (h°F2) 10.5 MHz eight of F2 layer (h°F2) 290 km tron Content (TEC) 43 TECU num Usable Frequency (MUF) and Optimum Traffic Frequency (FOT) for various dist. 100 200 400 600 800 1000 1500 10.7 11.3 12.5 14.4 16.6 18.9 24.0 9.1 9.1 10.6 12.4 14.1 16.1 20.4 ditions are normal as compared to the predicted monthly median MUF. LOCAL GEOMAGNETIC CONDITIONS 0 Quiet) 45613/50623 nT 0 0 Quiet) d (F) (Son/Isb) 94 Mumber (SN) 94 of flux (F10.7) 154 sfu d speed 476.0 km/s (varied in the past 24 hrs between 4 km/s) ny flares B9.6 (max flare in the past 12 hrs between +3.6 nT) -0.5 nT (varied in the past 12 hrs between +3.6 nT) -0.5 nT (varied in the past 12 hrs between -2.9	

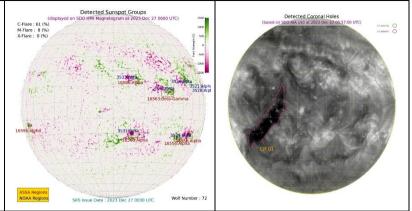
Sonmiani (SON): 25.2º N, 66.75º E, Islamabad (ISB): 33.7º N, 73.13º E

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

Daily Sun: 27 December 2023

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 be at low levels. In case of solar flares, shortwave fadeouts may be observed. Low to moderate solar wind speed and quiet to unsettled geomagnetic activity is expected. HF conditions are normal.