



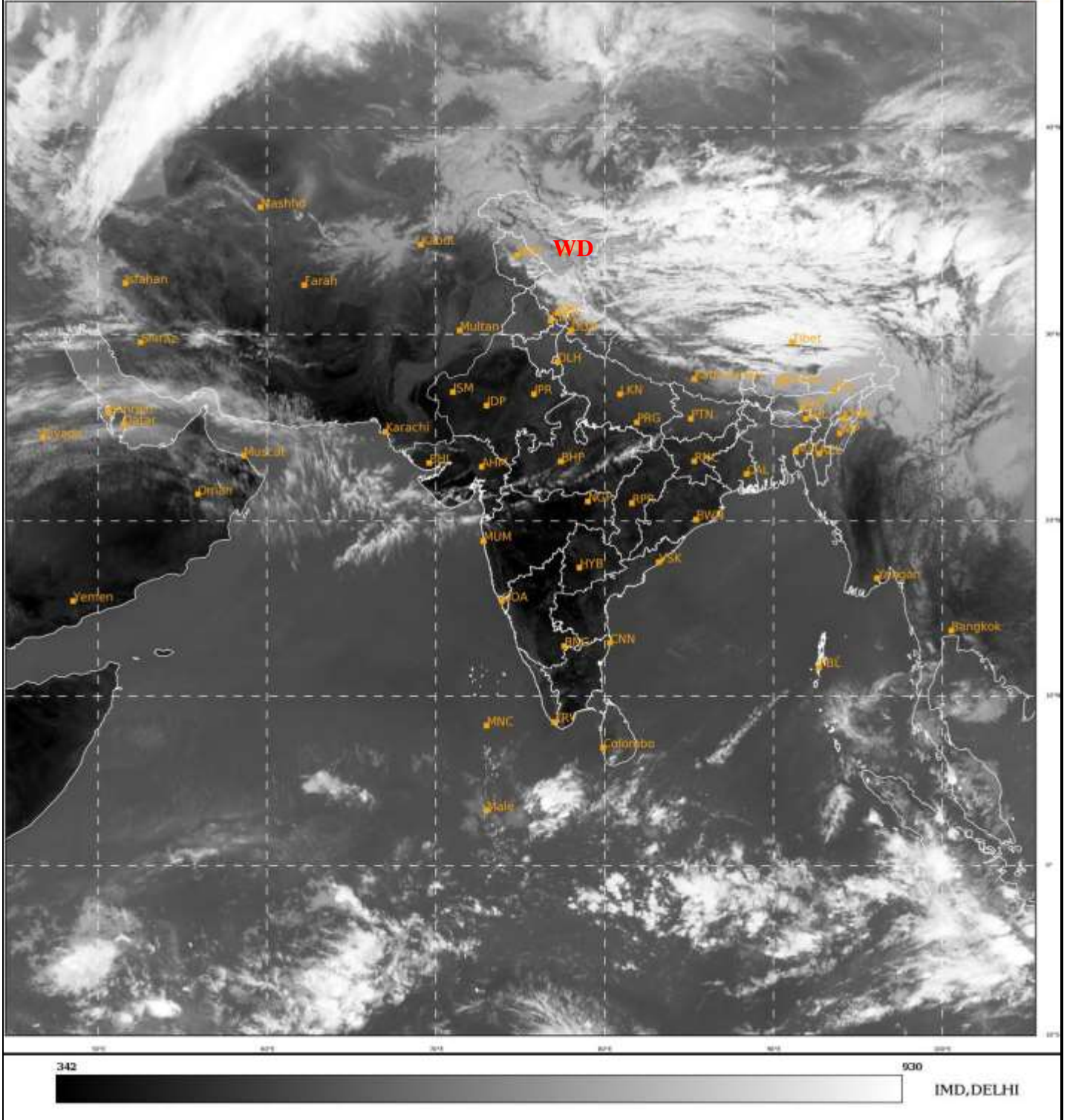
भारत मौसम विज्ञान विभाग  
पृथ्वी विज्ञान मंत्रालय  
India Meteorological Department  
Ministry of Earth Sciences



**SATELLITE BULLETIN BASED ON SATELLITE  
IMAGERIES AND PRODUCTS**  
**21.02.2023 TIME 0900 UTC**

SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

21-02-2023/(0830 to 0857) GMT  
21-02-2023/(1400 to 1427) IST



TCIN50 DEMS 210900

SATELLITE BULLETIN BASED ON INSAT-3D PIC OF 210830 UTC (.)

REGION COVERED BETWEEN LAT 50.0°N TO 35.0°S AND LONG 40.0°E TO 125.0°E (.)

**SALIENT FEATURES:-**

**WESTERN DISTURBANCE (WD):-**

SCT MULTILAYERED CLOUDS OVER LADAKH J&K HP UTRKND TIBET ADJ CHINA IN ASSW  
**WD** OVER THE AREA (.)



INSAT-3D 21-FEB-2023 08:30 WV IMG

WATER VAPOUR WIND

(1Kt = 0.5 m/s)

10 Kt

15 Kt

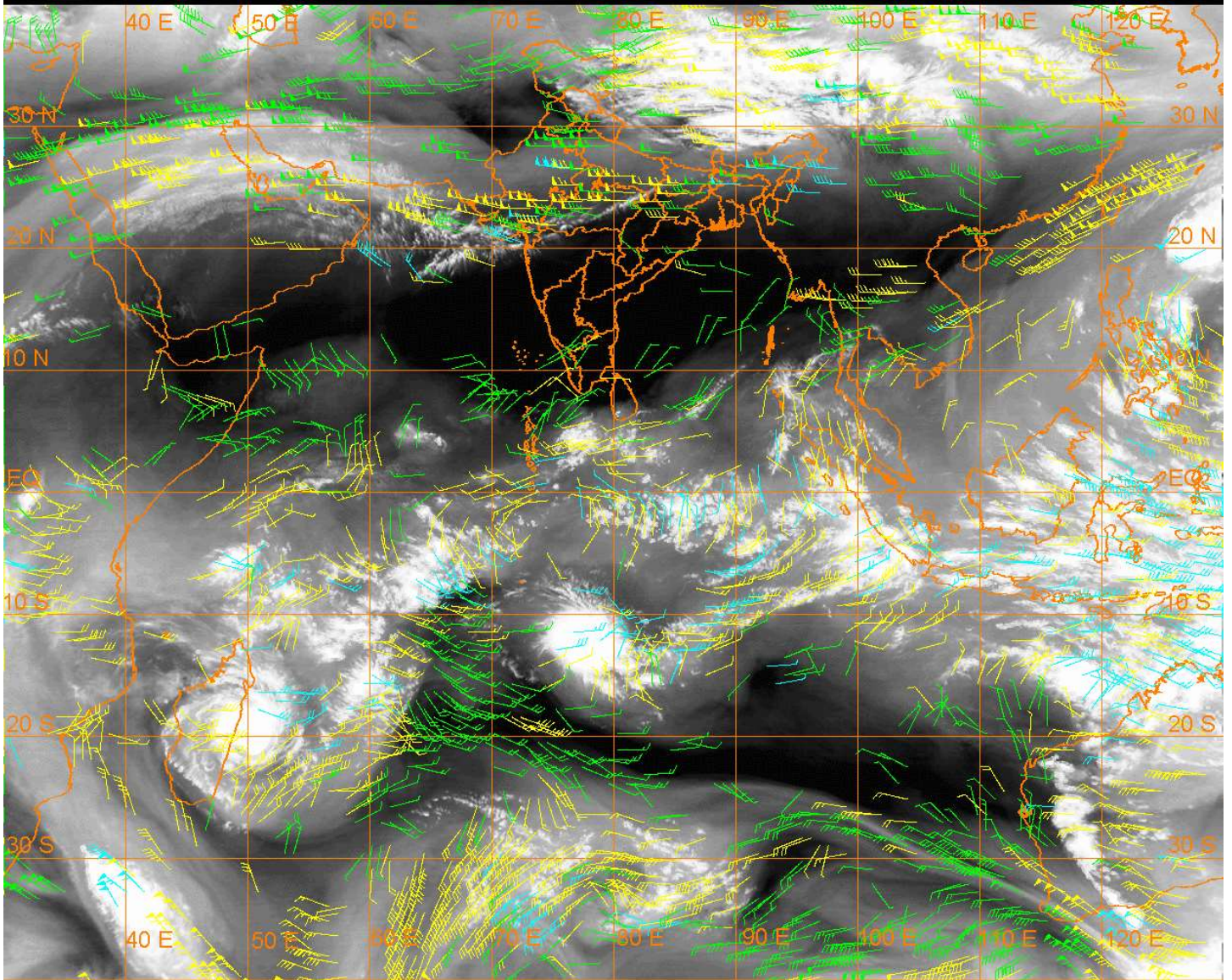
20 Kt

50 Kt

100-250 hPa

251-350 hPa

351-500 hPa



**CLOUDS DESCRIPTION WITHIN INDIA:-**

**NORTH:-**

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER LADAKH J&K HP N UTRKND (.) SCT LOW/MED CLOUDS OVER S UTRKND EXTREME SE UP (.)

**EAST:-**

SCT TO BKN LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER N SHWB SKM ARUPR ASSAM MEGHA NAGA N MANI (.) SCT LOW/MED CLOUDS OVER BHR S SHWB SE GWB REST NE STATES (.)

**WEST:-**

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER SW & E MP S GUJ EXTREME NORTH MADHYA MAHA (.) SCT LOW/MED CLOUDS OVER N GUJ N KKN (.)

**SOUTH:-**

SCT LOW/MED CLOUDS OVER KER S TN ANDAMAN & NICOBAR ILS (.)

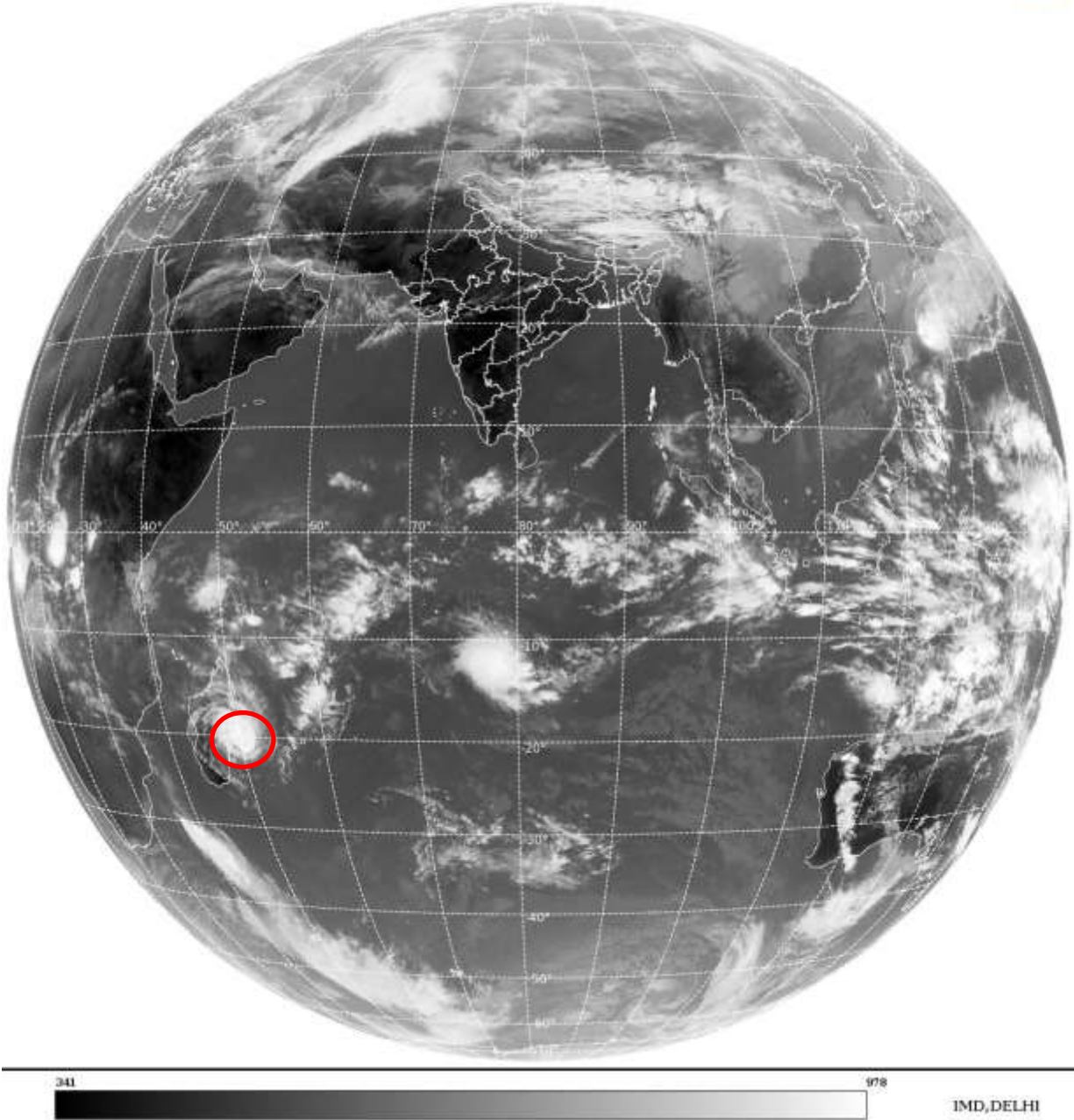
**ARABIAN SEA:-**

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER NORTH ARSEA (.)

**BAY OF BENGAL & ANDAMAN SEA:-**

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK TO MOD CONVTN OVER SOUTH BAY AND SOUTH ANDAMAN SEA (.)

**CLOUDS DESCRIPTION OUTSIDE INDIA:-**



**VORTEX (FREDDY) OVER SOUTH INDIAN OCEAN OFF E MADAGASCAR COAST:-**

**VORTEX (FREDDY) OVER SOUTH INDIAN OCEAN (AREA D55 ADJ D50) CENTERED NEAR 20.3S / 51.2E (.) INTENSITY T5.5/5.5 (.) EYE PATTERN (.) CORRESPONDING MAXIMUM SUSTAINED WINDS OF 90-119 KNOTS (.) ASSTD BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER AREA BET LAT 17.0S TO 22.0S LONG 47.0E TO 52.0E & MADAGASCAR (.)**

**SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER N NEPAL BHUTAN TIBET CHINA SUMATRA STR OF MALACCA MALAYSIA BORNEO JAVA ILS & SEA CELEBES ILS & SEA PHILIPPINES MADAGASCAR AND OVER INDIAN OCEAN BET LAT 5.0N TO 20.0S LONG 45.0E TO 125.0E (.)**

**TOO 21/1530 HRS IST=**

**NNNN**

**LEGEND:-**

REGION	NORTH	J&K HP PJB HARY DLH UP UTRKND
	EAST	BHR JHRKND CHTGH OR WB SKM NORTH- EAST STATES
	WEST	RAJ MP GUJ MAHA GOA
	SOUTH	TLNGN AP KRNTK KER TN LKSDP ANDAMAN & NICOBAR ILS

CLOUD DISTRIBUTION	ISOL	ISOLATED (LESS THAN 25%)	
	SCT	SCATTERED (25 TO 50%)	
	BKN	BROKEN (51 TO 75%)	
	SLD	SOLID (GREATER THAN 75%)	
CLOUDS TOP TEMPERATURE	CTT	CLOUD TOP TEMPERATURE	
CONVECTION	WK CONVTN	WEAK CONVECTION (CTT GREATER THAN $-25^{\circ}\text{C}$ )	
	MOD CONVTN	MODERATE CONVECTION (CTT BETWEEN $-25^{\circ}\text{C}$ TO $-40^{\circ}\text{C}$ )	
	INT CONVTN	INTENSE CONVECTION (CTT BETWEEN $-41^{\circ}\text{C}$ TO $-70^{\circ}\text{C}$ )	
	V INT CONVTN	VERY INTENSE CONVECTION (CTT LESS THAN $-70^{\circ}\text{C}$ )	
METEOROLOGICAL SUB-DIVISIONS, STATES & UNION TERRITORIES	ARUPR	ARUNACHAL PRADESH	
	BHR	BIHAR	
	CHTGH	CHHATTISGARH	
	COTL AP	COASTAL ANDHRA PRADESH	
	COTL KRNTK	COASTAL KARNATAKA	
	COTL ORS	COASTAL ORISSA	
	GUJ	GUJARAT	
	GWB	GANGETIC WEST BENGAL	
	HARY	HARYANA	
	DLH	DELHI	
	HP	HIMACHAL PRADESH	
	J&K	JAMMU AND KASHMIR	
	JHRKND	JHARKHAND	
	KER	KERALA	
	KKN	KONKAN	
	LKSDP	LAKSHADWEEP	
	M MAHA	MADHYA MAHARASHTRA	
	MAHA	MAHARASHTRA	
	MANI	MANIPUR	
	MEGHA	MEGHALAYA	
	MIZO	MIZORAM	
	MP	MADHYA PRADESH	
		MRTHWD	MARATHWADA
		NAGA	NAGALAND
N COTL AP		NORTH COASTAL ANDHRA PRADESH	
NIK		NORTH INTERIOR KARNATAKA	
ORS		ORISSA	
PJB		PUNJAB	
RAJ		RAJASTHAN	
RYLSM		RAYALASEEMA	
SAU & KUTCH		SAURASHTRA & KUTCH	
SHWB		SUB-HIMALAYAN WEST BENGAL	
SIK		SOUTH INTERIOR KARNATAKA	
SKM		SIKKIM	

	TLNGN	TELANGANA
	TN	TAMIL NADU
	TRP	TRIPURA
	UP	UTTAR PRADESH
	UTRKND	UTTARAKHAND
	VID	VIDHARBHA
	SHWB	SUB HIMALAYAN WEST BENGAL
	GWB	GANGETIC WEST BENGAL
	ARSEA	ARABIAN SEA
	ILS	ISLANDS
MISCELLANEOUS	ASSW	IN ASSOCIATION WITH
	ASSTD	ASSOCIATED
	LLC	LOW LEVEL CIRCULATION
	EMBDD	EMBEDDED
	N/HOOD	NEIGHBOURHOOD
	EXT	EXTREME