



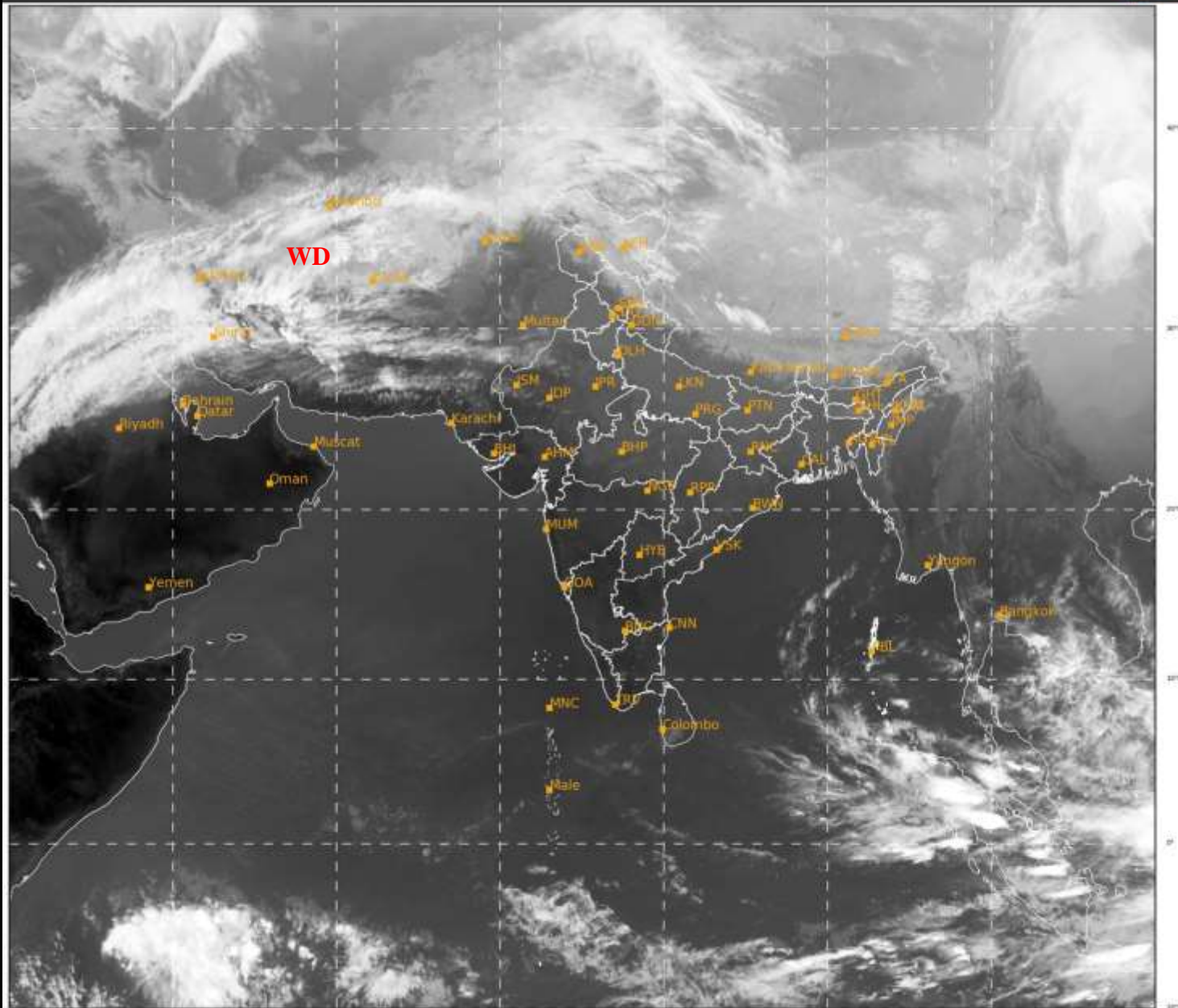
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय
India Meteorological Department
Ministry of Earth Sciences



**SATELLITE BULLETIN BASED ON SATELLITE
IMAGERIES AND PRODUCTS**
13.02.2023 TIME 1200 UTC

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

13-02-2023/(1200 to 1226) GMT
13-02-2023/(1730 to 1756) IST



368

932

IMD, DELHI

TCIN50 DEMS 131200

SATELLITE BULLETIN BASED ON INSAT-3D PIC OF 131200 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 IRAN AFGAN ADJ PAK J&K N HP LADAKH AND N/HOOD
IN ASSW **WD** OVER THE AREA (.)



INSAT-3DR 13-FEB-2023 11:45 WV IMG

WATER VAPOUR WIND

(1Kt = 0.5 m/s)

10 Kt

15 Kt

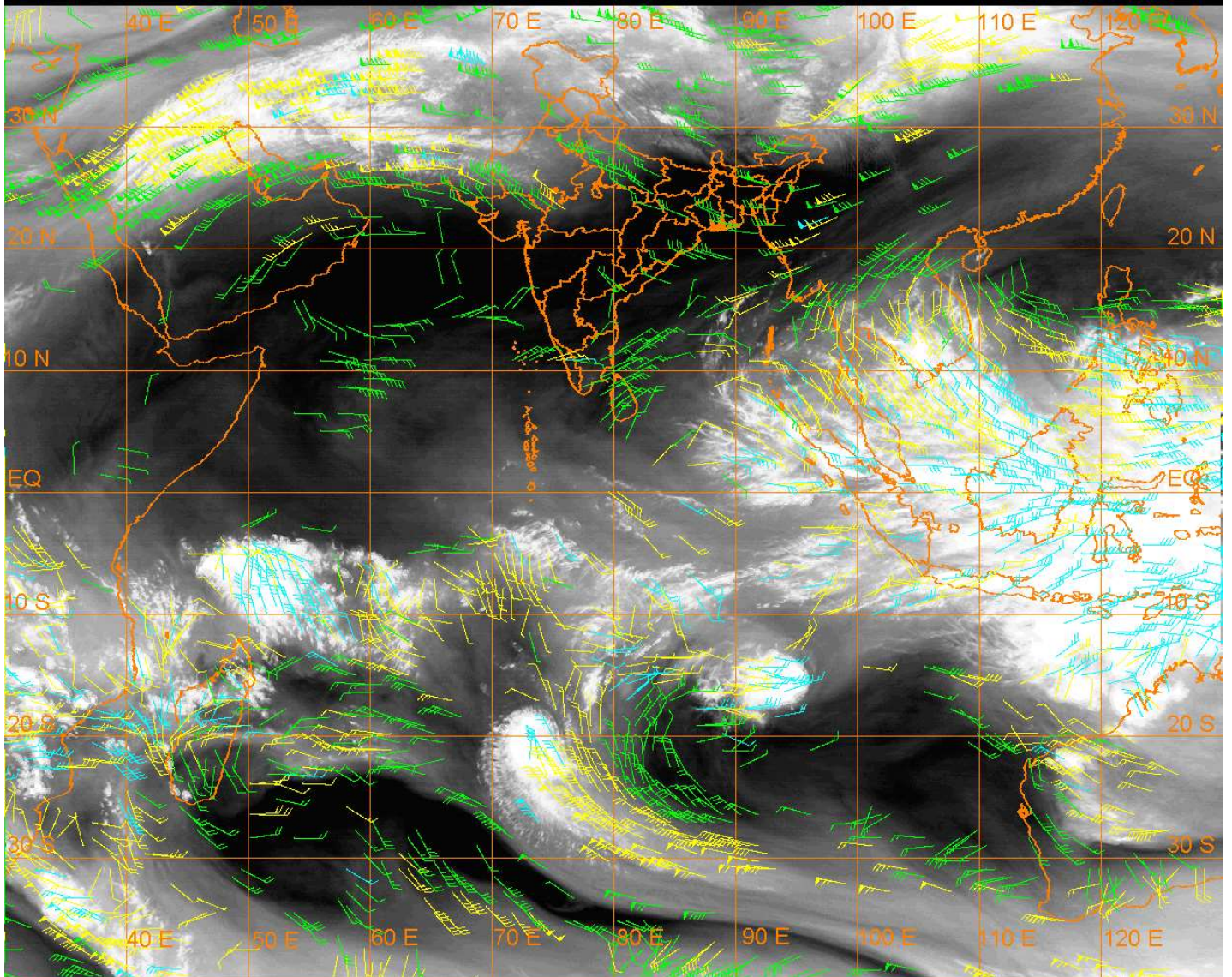
20 Kt

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 N HP AND ISOL WK TO MOD CONVTN OVER J&K S HP N UTRKND (.)

EAST:-

SCT LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER SKM ARUPR (.) SCT LOW/MED CLOUDS OVER N SHWB REST NE STATES (.)

WEST:-

SCT LOW/MED CLOUDS OVER W RAJ (.)

SOUTH:-

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK CONVTN OVER ANDAMAN & NICOBAR ILS (.) SCT LOW/MED CLOUDS OVER S TN (.)

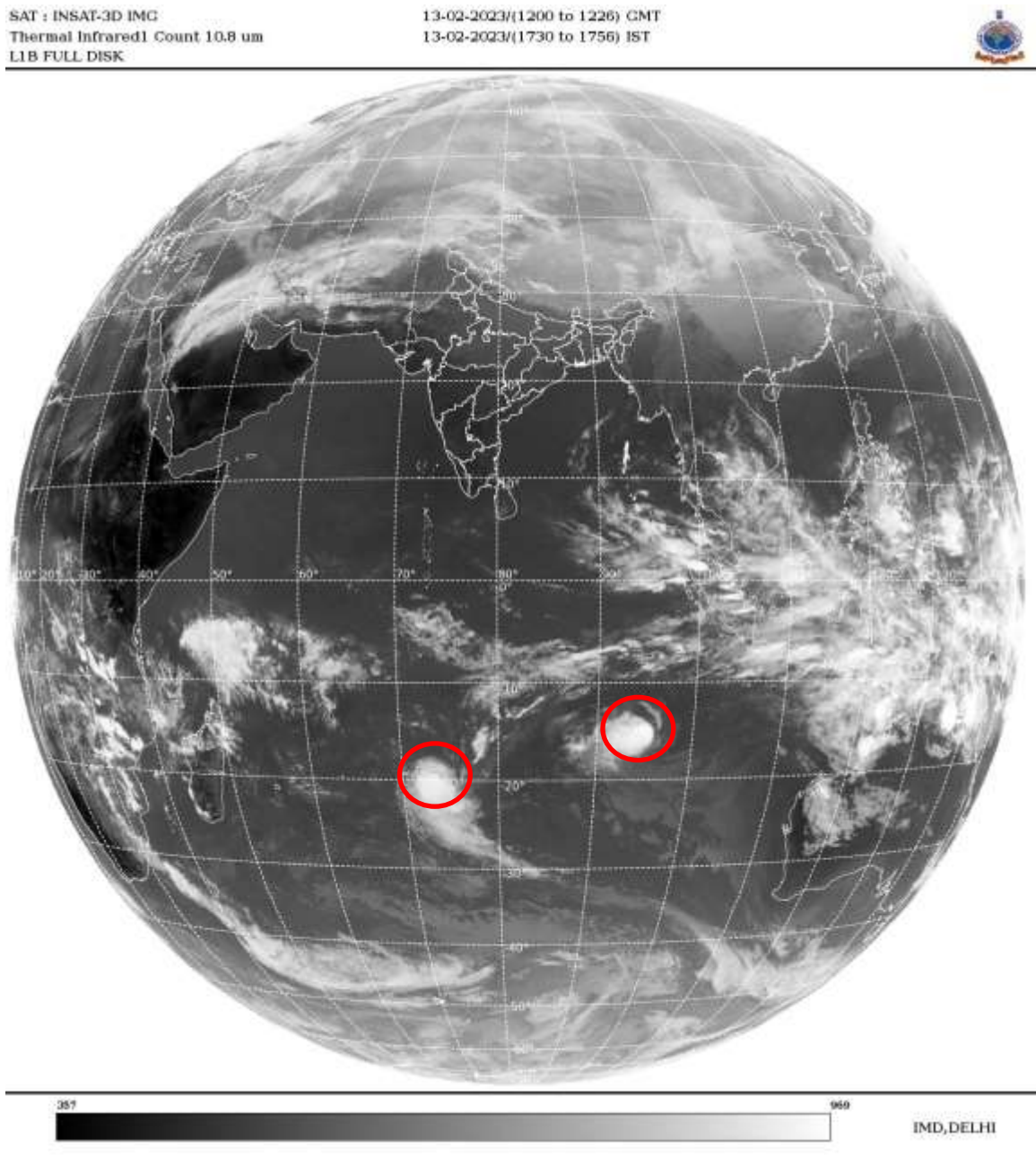
ARABIAN SEA:-

NO SIGNIFICANT CLOUDS OVER THE AREA (.)

BAY OF BENGAL & ANDAMAN SEA:-

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER SE BAY S ANDAMAN SEA (.)

CLOUDS DESCRIPTION OUTSIDE INDIA:-



VORTEX (FREDDY) OVER SOUTH INDIAN OCEAN:-

VORTEX (**FREDDY**) OVER SOUTH INDIAN OCEAN (**AREA G25 ADJ H05**) CENTERED NEAR **15.2S / 94.9E** (.) INTENSITY **T5.5/5.5** (.) CORRESPONDING MAXIMUM SUSTAINED WINDS OF **90-119 KTS** (.) ASSTD BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER AREA BET LAT 13.0S TO 17.0S LONG 92.0E TO 96.0E (.)

ANOTHER VORTEX (DINGANI) OVER SOUTH INDIAN OCEAN:-

ANOTHER VORTEX (**DINGANI**) OVER SOUTH INDIAN OCEAN (**AREA E80 ADJ E90**) CENTERED NEAR **19.9S / 73.3E** (.) INTENSITY **T4.5/4.5** (.) CORRESPONDING MAXIMUM SUSTAINED WINDS OF **90-119 KTS** (.) ASSTD BKN LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER AREA BET LAT 18.0S TO 23.0S LONG 71.0E TO 76.0E (.)

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER PAK TIBET CHINA S THAILAND GULF OF THAILAND CAMBODIA S VIETNAM SUMATRA STR OF MALACCA MALAYSIA BORNEO SOUTH CHINA SEA JAVA ILS & SEA CELEBES ILS & SEA PHILIPPINES SULU SEA MADAGASCAR MOZAMBIQUE CHANNEL AND OVER INDIAN OCEAN BET LAT 3.0S TO 25.0S LONG 40.0E TO 80.0E AND BET LAT 5.0N TO 18.0S LONG 80.0E TO 110.0E (.)

TOO 13/1830 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°C)
	MOD CONVTN	MODERATE CONVECTION (CTT BETWEEN -25°C TO -40°C)
	INT CONVTN	INTENSE CONVECTION (CTT BETWEEN -41°C TO -70°C)
	V INT CONVTN	VERY INTENSE CONVECTION (CTT LESS THAN -70°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