



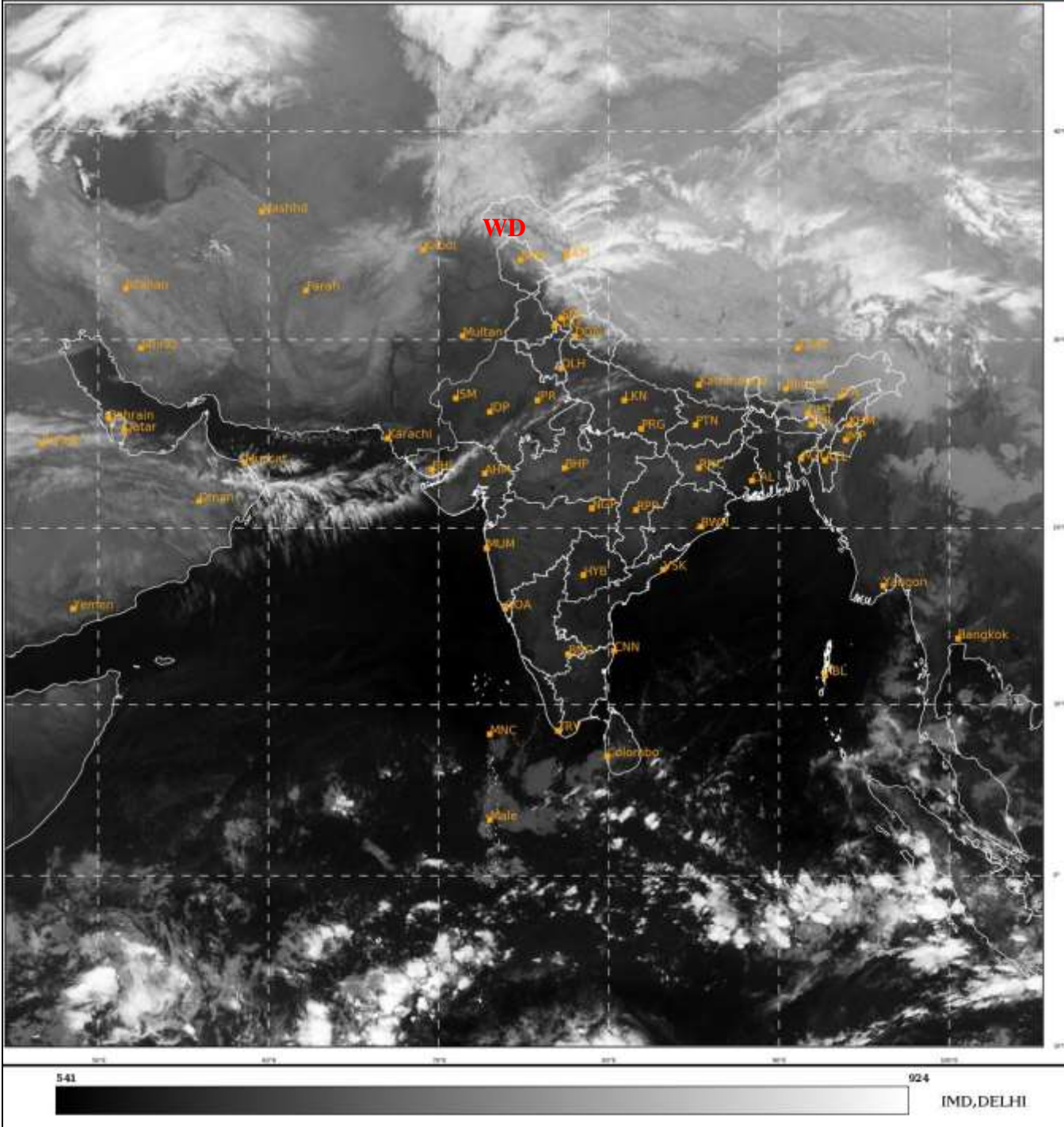
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय
India Meteorological Department
Ministry of Earth Sciences



**SATELLITE BULLETIN BASED ON SATELLITE
IMAGERIES AND PRODUCTS**
21.02.2023 TIME 0000 UTC

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

21-02-2023/(0000 to 0026) GMT
21-02-2023/(0530 to 0556) IST



TCIN50 DEMS 210000

SATELLITE BULLETIN BASED ON INSAT-3D PIC OF 210000 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 TO BKN MULTILAYERED CLOUDS OVER PAK LADAKH J&K PJB HP UTRKND TIBET ADJ CHINA & N/HOOD IN ASSW **WD** OVER THE AREA (.)



INSAT-3D 21-FEB-2023 00:00 WV IMG

WATER VAPOUR WIND

(1Kt = 0.5 m/s)

10 Kt

15 Kt

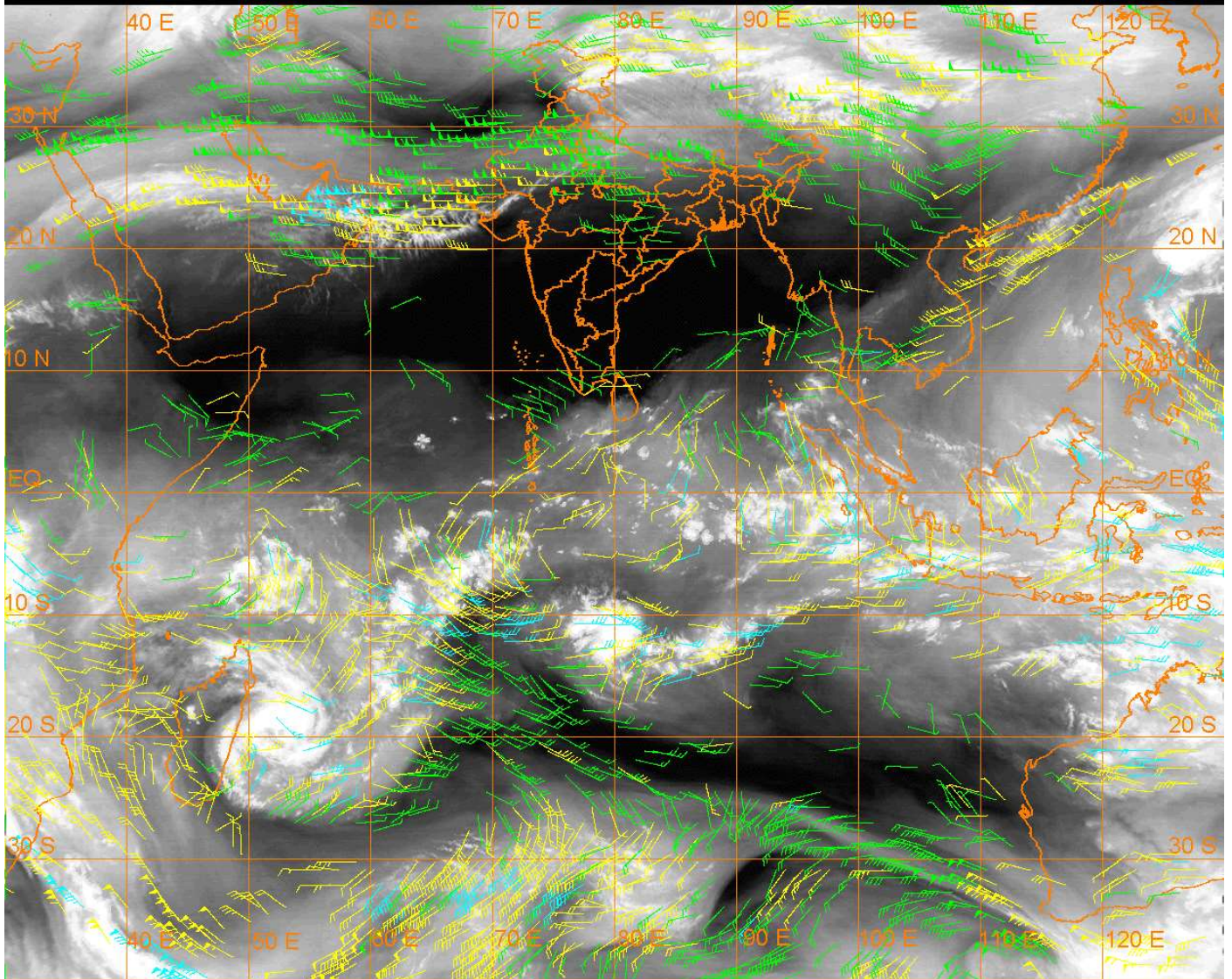
20 Kt

50 Kt

100-250 hPa

251-350 hPa

351-500 hPa



CLOUDS DESCRIPTION WITHIN INDIA:-

NORTH:-

SCT TO BKN LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER LADAKH E J&K E HP N UTRKND (.) SCT LOW/MED CLOUDS WITH EMBDD WK TO MOD CONVTN OVER W HP SW UTRKND N ADJ C PJB NW UP (.) SCT LOW/MED CLOUDS OVER S PJB HARY DLH E UP (.)

EAST:-

SCT TO BKN LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER CENTRAL ARUPR (.) SCT LOW/MED CLOUDS WITH EMBDD WK CONVTN OVER SKM REST ARUPR NE ASSAM W MEGHA NAGA (.)SCT LOW/MED CLOUDS OVER E MEGHA REST ASSAM MANI (.)

WEST:-

SCT LOW/MED CLOUDS WITH EMBDD WK CONVTN OVER W & NE RAJ (.) SCT LOW/MED CLOUDS OVER SE RAJ NW MP (.)

SOUTH:-

SCT LOW/MED CLOUDS OVER SIK KER TN (.)

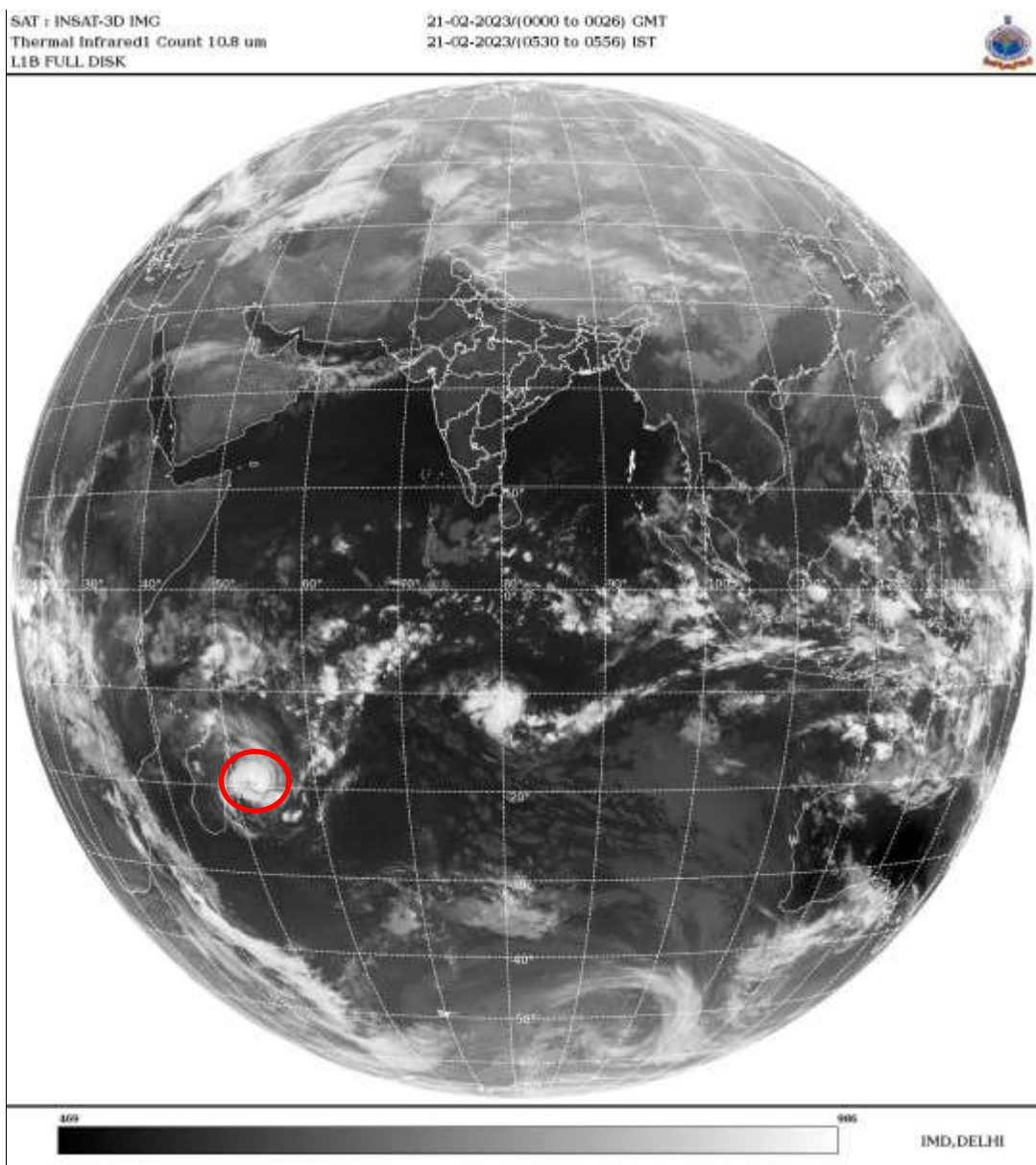
ARABIAN SEA:-

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER COMORIN AREA AND ISOL WK TO MOD CONVTN OVER NW ARSEA (.)

BAY OF BENGAL & ANDAMAN SEA:-

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER SW BAY SOUTH OF LAT 08.0N AND ISOL WK CONVTN OVER SE BAY ANDAMAN SEA (.)

CLOUDS DESCRIPTION OUTSIDE INDIA:-



VORTEX (FREDDY) OVER SOUTH INDIAN OCEAN:-

VORTEX (**FREDDY**) OVER SOUTH INDIAN OCEAN (**AREA D55 ADJ D60**) CENTERED NEAR **19.7S / 53.0E** (.) INTENSITY **T5.5/6.0** (.) 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 15.0S TO 23.5S LONG 51.0E TO 57.0E (.)

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER SRI LANKA N PAK NEPAL BHUTAN TIBET CHINA E CHINA SEA MYANMAR S THAILAND GULF OF THAILAND 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 EQ TO LAT 26.0S LONG 40.0E TO 70.0E AND BET LAT 5.0N TO 15.0S LONG 70.0E TO 120.0E (.)

TOO 21/0715 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 |