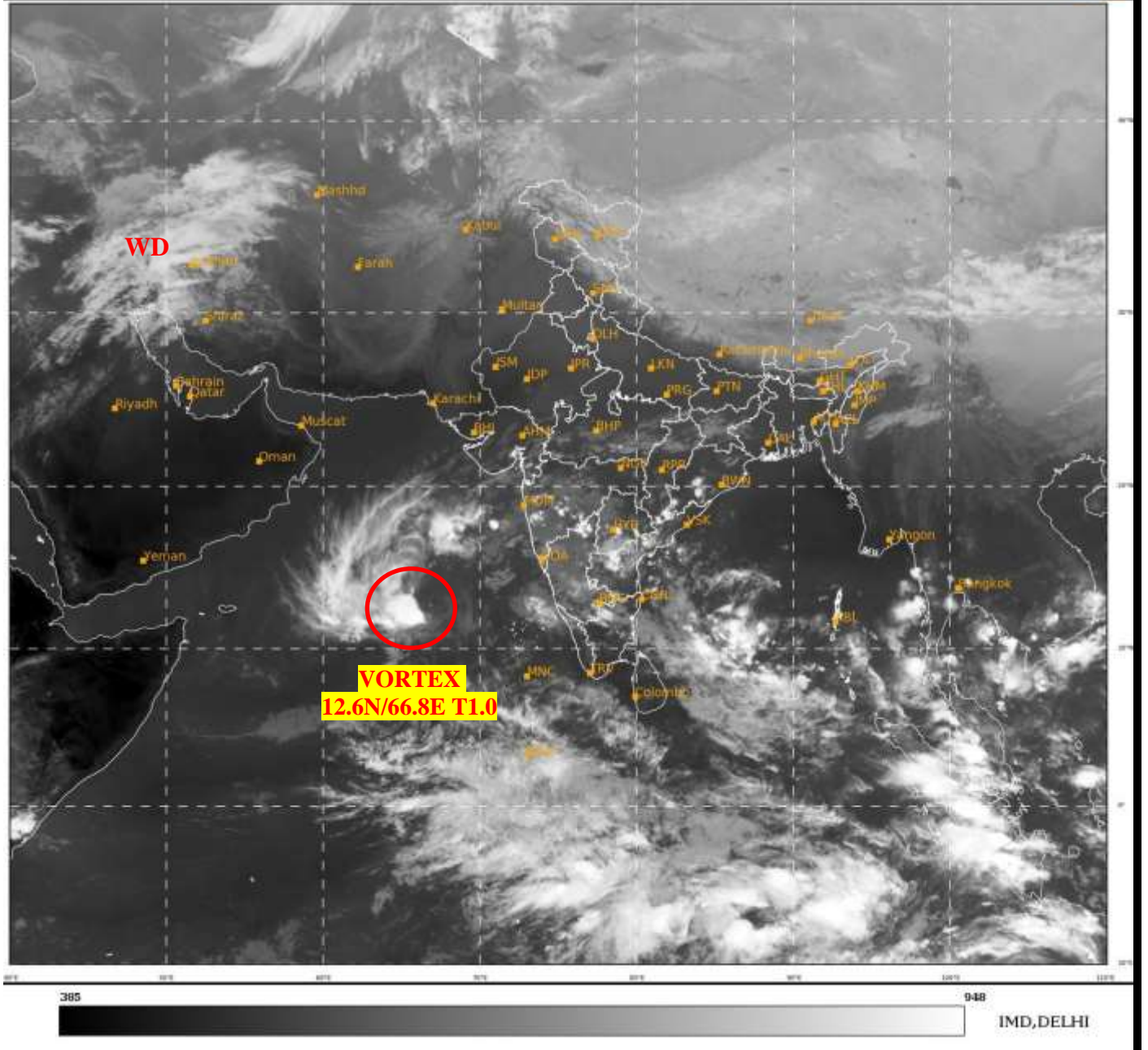




**SATELLITE BULLETIN BASED ON SATELLITE**  
**IMAGERIES AND PRODUCTS**  
**21.11.2021 TIME 1200 UTC**

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

21-11-2021/(1200 to 1226) GMT  
21-11-2021/(1730 to 1756) IST



TCIN50 DEMS 211200

SATELLITE BULLETIN BASED ON INSAT-3D PIC OF 211200 UTC (.)

REGION COVERED BETWEEN LAT 50.0°N TO 30.0°S AND LONG 40.0°E TO 125.0°E (.)

**SALIENT FEATURES:-**

**VORTEX (WML) OVER EC ARSEA:-**

VORTEX (WML) OVER EC ARSEA CENTERED WITHIN HALF A DEGREE OF **12.6N/66.8E** (.) INTENSITY **T1.0** (.) ASSTD SCT LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER CENTRAL ADJ S ARSEA BET LAT 10.0N TO 15.0N LONG 61.0E TO 67.0E (.) MINIMUM CTT MINUS **90** DEG C (.) THE ASSOCIATED CONVECTION HAS SLIGHTLY INCREASED IN SW SECTOR TO THE CENTRE DURING LAST 3 HRS (.)

**WESTERN DISTURBANCE (WD):-**

SCT MULTILAYERED CLOUDS OVER CASPIAN SEA NW IRAN AND N/HOOD IN ASSW **WD** OVER THE AREA (.)





INSAT-3D 21-NOV-2021 12:00 WV IMG

WATER VAPOUR WIND

(1Kt = 0.5 m/s)

10 Kt

15 Kt

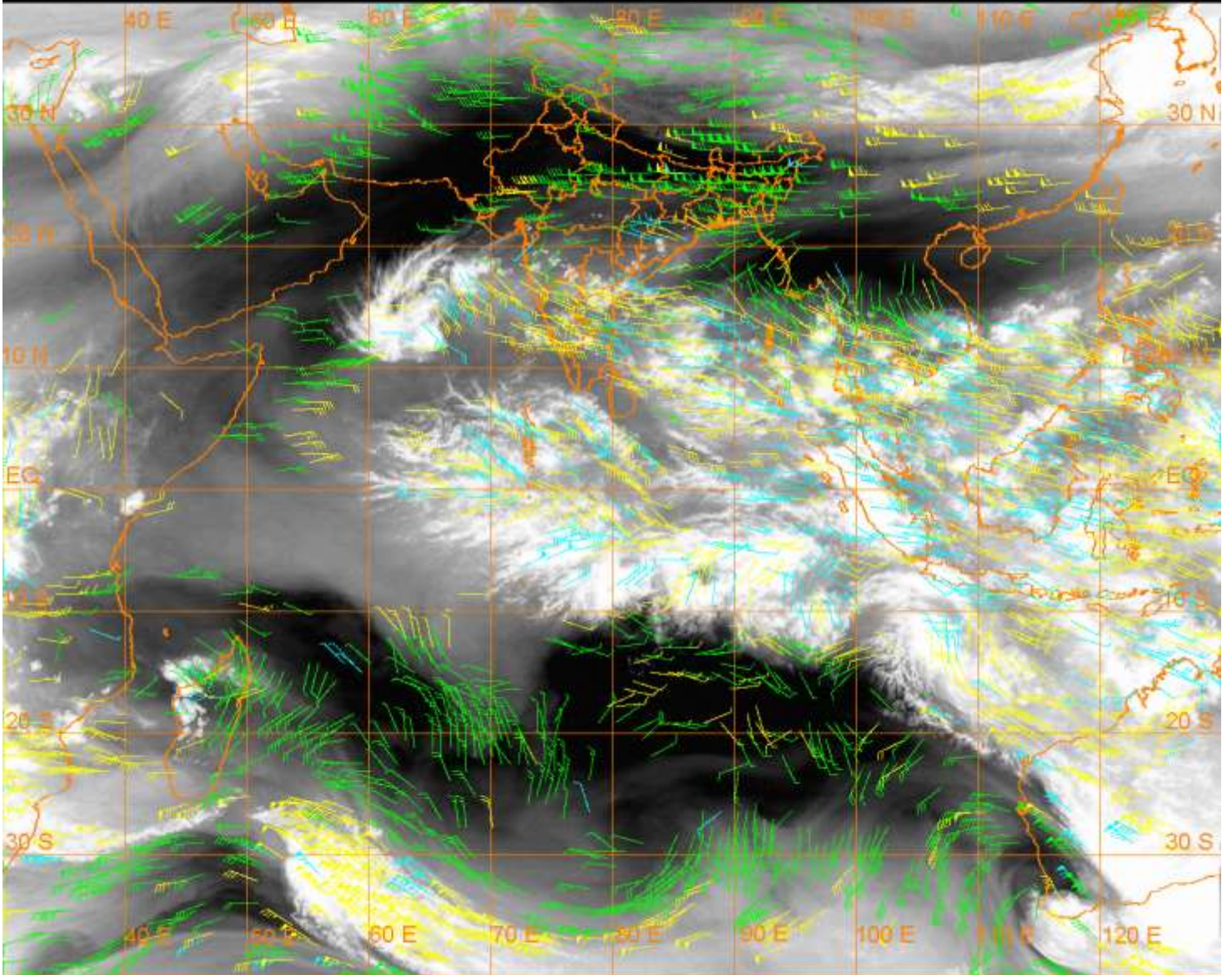
20 Kt

50 Kt

100-250 hPa

251-350 hPa

351-500 hPa



### CLOUDS DESCRIPTION WITHIN INDIA:-

#### NORTH:-

SCT LOW/MED CLOUDS WITH EMBDD ISOL WK CONVTN OVER LADAKH (.) SCT LOW/MED CLOUDS OVER J&K HP UTRKND (.)

#### EAST:-

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER S ORS AND SOL WK CONVTN OVER CHTGH JHRKND SKM ARUPR NE ASSAM (.) SCT LOW/MED CLOUDS OVER N ORS GWB N SHWB REST NE STATES (.)

#### WEST:-

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER MADHYA MAHA MRTHWD AND ISOL WK TO MOD CONVTN OVER S MP SE GUJ (.) SCT LOW/MED CLOUDS OVER SE RAJ REST GUJ REST MP REST MAHA & GOA (.)

#### SOUTH:-

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER S TLNGN N RYLISM COTL AP NE NIK N TN AND ISOL WK TO MOD CONVTN OVER SIK N KER ANDAMAN & NICOBAR ILS (.) SCT LOW/MED CLOUDS OVER N TLNGN S RYLISM REST KRNTK S KER S TN & LKSDP (.)

#### ARABIAN SEA:-

SCT LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER CENTRAL ADJ S ARSEA BET LAT 10.0N TO 18.0N LONG 60.0E TO 70.0E (.) MINIMUM CTT MINUS 90 DEG C (.)

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

SCT LOW/MED CLOUDS WITH EMBDD INT TO V INT CONVTN OVER C PARTS OF S BAY AND MOD TO INT CONVTN OVER REST S BAY WC BAY & ANDAMAN SEA (.)

**CLOUDS DESCRIPTION OUTSIDE INDIA:-**

SCT LOW/MED CLOUDS WITH EMBDD MOD TO INT CONVTN OVER MALDIVES TIBET THAILAND GULF OF THAILAND CAMBODIA S VIETNAM SUMATRA STR OF MALACCA MALAYSIA JAVA ILS & SEA CELEBES ILS & SEA BORNEO SOUTH CHINA SEA PHILIPPINES SULU SEA E CHINA SEA YELLOW SEA AND OVER INDIAN OCEAN AND BET LAT 5.0N TO 10.0S EAST OF LONG 63.0E AND BET LAT 10.0S TO 20.0S LONG 100.0E TO 120.0E (.)

TOO 21/1820EF=

NNNN

**LEGEND:-**

REGION	NORTH	J&K HP PJB HARY DLH UP UTRKND
	EAST	BHR JHRKND CHTGH ORS 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

	<b>DLH</b>	<b>DELHI</b>
	<b>HP</b>	<b>HIMACHAL PRADESH</b>
	<b>J&amp;K</b>	<b>JAMMU AND KASHMIR</b>
	<b>JHRKND</b>	<b>JHARKHAND</b>
	<b>KER</b>	<b>KERALA</b>
	<b>KKN</b>	<b>KONKAN</b>
	<b>LKSDP</b>	<b>LAKSHADWEEP</b>
	<b>M MAHA</b>	<b>MADHYA MAHARASHTRA</b>
	<b>MAHA</b>	<b>MAHARASHTRA</b>
	<b>MANI</b>	<b>MANIPUR</b>
	<b>MEGHA</b>	<b>MEGHALAYA</b>
	<b>MIZO</b>	<b>MIZORAM</b>
	<b>MP</b>	<b>MADHYA PRADESH</b>
	<b>MRTHWD</b>	<b>MARATHWADA</b>
	<b>NAGA</b>	<b>NAGALAND</b>
	<b>N COTL AP</b>	<b>NORTH COASTAL ANDHRA PRADESH</b>
	<b>NIK</b>	<b>NORTH INTERIOR KARNATAKA</b>
	<b>ORS</b>	<b>ORISSA</b>
	<b>PJB</b>	<b>PUNJAB</b>
	<b>RAJ</b>	<b>RAJASTHAN</b>
	<b>RYLSM</b>	<b>RAYALASEEMA</b>
	<b>SAU &amp; KUTCH</b>	<b>SAURASHTRA &amp; KUTCH</b>
	<b>SHWB</b>	<b>SUB-HIMALAYAN WEST BENGAL</b>
	<b>SIK</b>	<b>SOUTH INTERIOR KARNATAKA</b>
	<b>SKM</b>	<b>SIKKIM</b>
	<b>TLNGN</b>	<b>TELANGANA</b>
	<b>TN</b>	<b>TAMIL NADU</b>
	<b>TRP</b>	<b>TRIPURA</b>
	<b>UP</b>	<b>UTTAR PRADESH</b>
	<b>UTRKN</b>	<b>UTTARAKHAND</b>
	<b>VID</b>	<b>VIDHARBHA</b>
	<b>SHWB</b>	<b>SUB HIMALAYAN WEST BENGAL</b>
	<b>GWB</b>	<b>GANGETIC WEST BENGAL</b>
	<b>ARSEA</b>	<b>ARABIAN SEA</b>
	<b>ILS</b>	<b>ISLANDS</b>
<b>MISCELLANEOUS</b>	<b>ASSW</b>	<b>IN ASSOCIATION WITH</b>
	<b>ASSTD</b>	<b>ASSOCIATED</b>
	<b>LLC</b>	<b>LOW LEVEL CIRCULATION</b>
	<b>EMBDD</b>	<b>EMBEDDED</b>
	<b>N/HOOD</b>	<b>NEIGHBOURHOOD</b>
	<b>EXT</b>	<b>EXTREME</b>