



**India Meteorological Department
(Ministry of Earth Sciences)**

BULLETIN NO. : 07 (BOB/07/2022)

TIME OF ISSUE: 0830 HOURS IST **DATED: 20.08.2022**
FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)
TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)
CONTROL ROOM NDMA (FAX.NO. 26701729)
CABINET SECRETARIAT (FAX.NO.23012284, 23018638)
PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)
SECRETARY, MOES (FAX NO. 24629777)
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DIRECTOR GENERAL, AIR (23421105, 23421219)
PIB MOES (FAX NO. 23389042)
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D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)
DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)
CHIEF SECRETARY, ODISHA (FAX NO. 0674-2536660)
CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)
CHIEF SECRETARY, CHATTISGARH (FAX NO.)
CHIEF SECRETARY, JHARKHAND (FAX NO.)
CHIEF SECRETARY, GOVT. OF MADHYA PRADESH (FAX NO. 755-2441076)
CHIEF SECRETARY, GOVT. OF MAHARASHTRA (FAX NO. 022- 22028594)

Sub: Deep Depression over south Jharkhand and adjoining North Odisha and West Bengal

The Deep Depression over coastal areas of West Bengal & adjoining north Odisha moved west-northwestwards during past 06 hours with a speed of 18 kmph and lay centered at 0530 hrs IST of today, the 20th August, 2022 over south Jharkhand and adjoining North Odisha and West Bengal near latitude 22.5°N and longitude 86.0°E, about 40 km south-southwest of Jamshedpur (Jharkhand), about 120 km southeast of Ranchi (Jharkhand) and about 220 km east-northeast of Jharsuguda (Odisha).

It would continue to move west-northwestwards across Jharkhand & adjoining north Odisha and North Chhattisgarh towards north Madhya Pradesh during next 24 hours and weaken gradually.

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
20.08.22/0530	22.5/86.0	50-60 gusting to 70	Deep Depression
20.08.22/1130	22.9/84.8	45-55 gusting to 65	Deep Depression
20.08.22/1730	23.2/83.6	45-55 gusting to 65	Deep Depression
20.08.22/2330	23.6/82.4	40-50 gusting to 60	Depression
21.08.22/0530	23.8/81.2	40-50 gusting to 60	Depression

Warnings:

Rainfall:

20th August: Rainfall at most places with **heavy to very heavy rainfall** at a few places and **extremely heavy** rainfall at isolated places is very likely over North Chattisgarh & East Madhya Pradesh. Rainfall at most places is very likely with **heavy to very heavy rainfall** at a few places over Northwest Odisha, Jharkhand & Vidarbha. Rainfall at most places with heavy rainfall at

isolated places is very likely over remaining parts of Odisha, south Chhattisgarh and West Madhya Pradesh.

21st August: Rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places is very likely over West Madhya Pradesh and adjoining East Madhya Pradesh. Rainfall at most places is very likely with heavy to very heavy rainfall at isolated places over remaining parts of East Madhya Pradesh & East Rajasthan and heavy rainfall at isolated places is very likely over Chhattisgarh & Vidarbha.

22nd August: Rainfall at most places is likely with heavy to very heavy rainfall at isolated places over East Rajasthan & adjoining southwest Madhya Pradesh and heavy rainfall at isolated places is likely over remaining parts of West Madhya Pradesh.

23rd August: Rainfall at most places with heavy to very heavy rainfall at isolated places is likely over West Rajasthan & adjoining East Rajasthan.

Wind:

- **Squally wind speed reaching 40-50 kmph** gusting to 60 kmph over Northwest Bay of Bengal and along & off north Odisha coasts is likely during next 12 hours and decrease gradually thereafter.
- **Squally wind speed reaching 40-50 gusting to 60 kmph** is likely over south Jharkhand, North Odisha & adjoining Gangetic West Bengal and North Chhattisgarh during next 12 hours.
- **Strong Winds speed reaching 30-40 kmph gusting to 50 kmph** is likely to prevail over interior districts of north Odisha during next 12 hours and over East Madhya Pradesh & adjoining West Madhya Pradesh during next 24 hours.

Damage expected over Chattisgarh, Madhya Pradesh & Northwest Odisha and Jharkhand:

- Damage to loose/unsecured structures. Some breaches in Kutcha road & embankments due to flooding.
- Damage to small trees like Banana, Papaya etc. and near coastal agriculture due to salt spray. Damage to standing crops and horticulture.
- Localized Flooding of roads, water logging in low lying areas and closure of underpasses.
- Reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads.
- Localized Landslide/Mudslides.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Next message will be issued at 1130 hours IST of today, the 20th August, 2022.

(R. K. Jenamani)
Scientist F, Cyclone Warning Division, New Delhi

Copy to: ACWC Mumbai/ ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWCVisakhapatnam/ / MO Port Blair/MC Raipur/MC Bhopal/MC Hyderabad/RMC Nagpur/

LEGEND: Heavy Rainfall: 64.5 to 115.5mm, **Very Heavy Rainfall:** 115.6 to 204.4mm **Most Places:** more than 76% of total stations, **Isolated Places:** Less than 25% of total

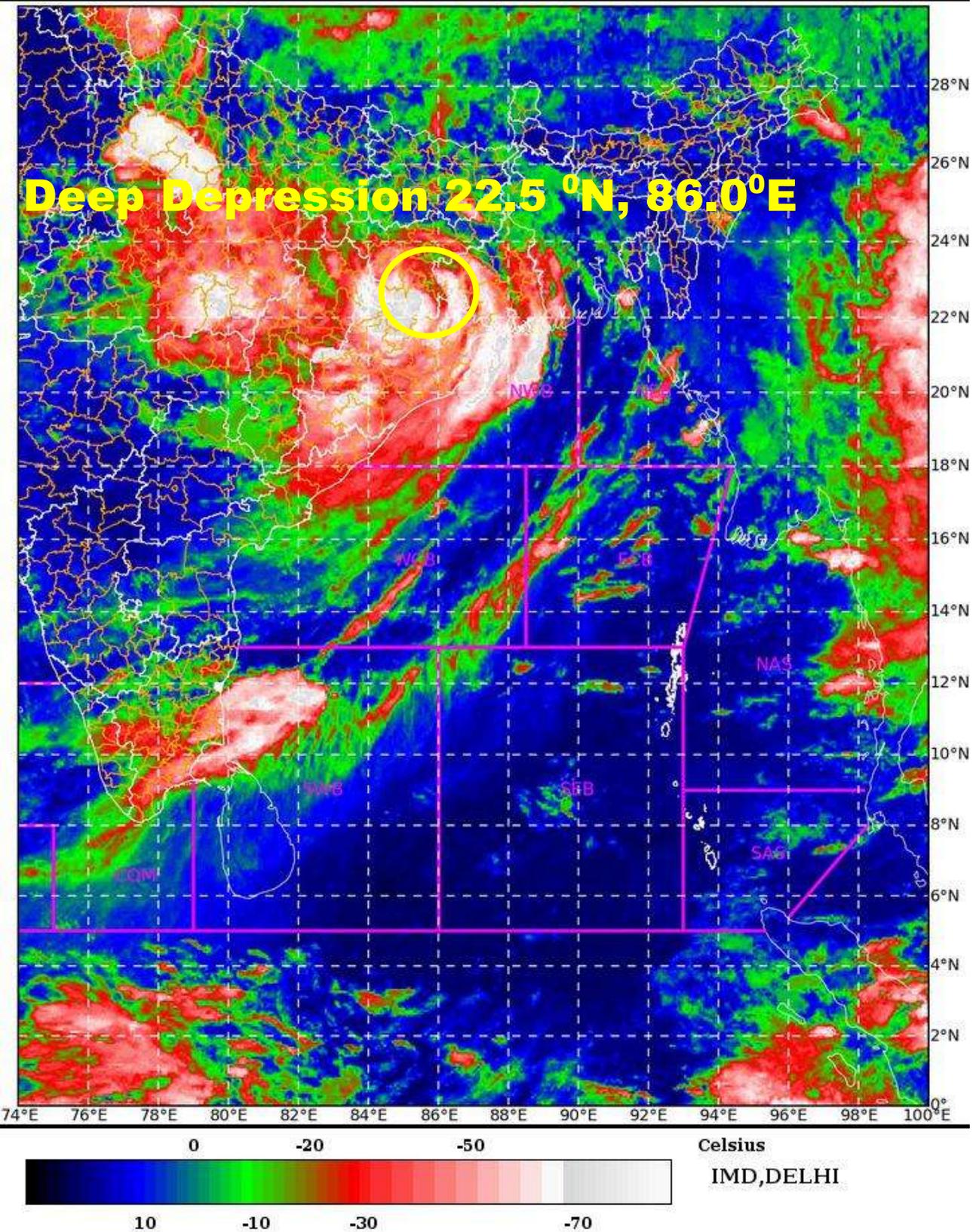
SAT : INSAT-3D IMG

20-08-2022/(0200 to 0226) GMT

IMG_TIR1_TEMP 10.8 um

20-08-2022/(0730 to 0756) IST

L1C Mercator





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION OVER SOUTH JHARKHAND AND ADJOINING NORTH ODISHA & WEST BENGAL BASED ON 0000 UTC OF 20th AUGUST, 2022



DATE/TIME IN UTC

IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

DD: DEEP DEPRESSION (28-33 KT)

CS: CYCLONIC STORM (34-47 KT)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM (≥ 120 KT)



LESS THAN 34 KT



34-47 KT



≥ 48 KT



OBSERVED TRACK



FORECAST TRACK



CONE OF UNCERTAINTY



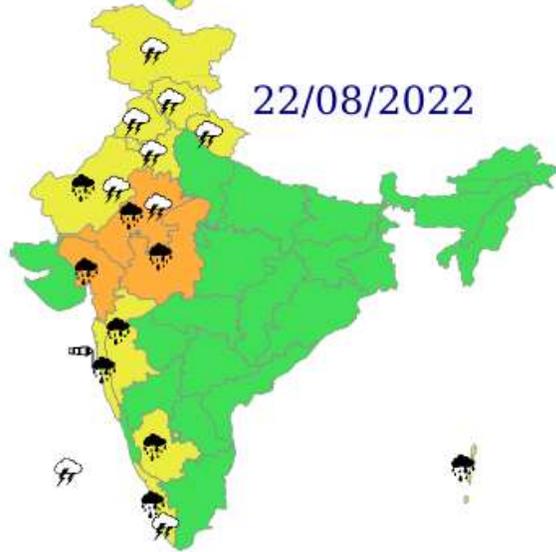
WARNING

WARNING (TAKE ACTION)

ALERT (BE PREPARED)

WATCH (BE UPDATED)

NO WARNING (NO ACTION)



-  Heavy Rain
-  Strong Winds
-  Frost

-  Heavy Snow
-  Visibility
-  Cold Wave

-  Thunderstorm
-  Cyclone
-  Heat Wave

-  Dust Storm
-  Squall/ Hail
-  Sea State

Fishermen warning graphics

Day 1: 19.08.2022/11:30 AM to 20.08.2022/05:30 AM



Day 2: 20.08.2022/05:30 AM to 21.08.2022/05:30 AM



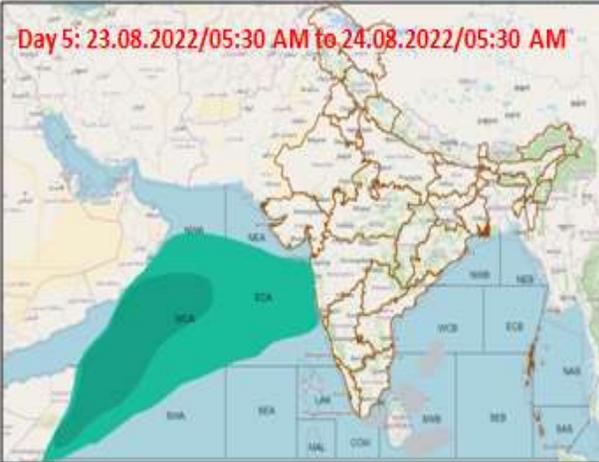
Day 3: 21.08.2022/05:30 AM to 22.08.2022/05:30 AM



Day 4: 22.08.2022/05:30 AM to 23.08.2022/05:30 AM



Day 5: 23.08.2022/05:30 AM to 24.08.2022/05:30 AM



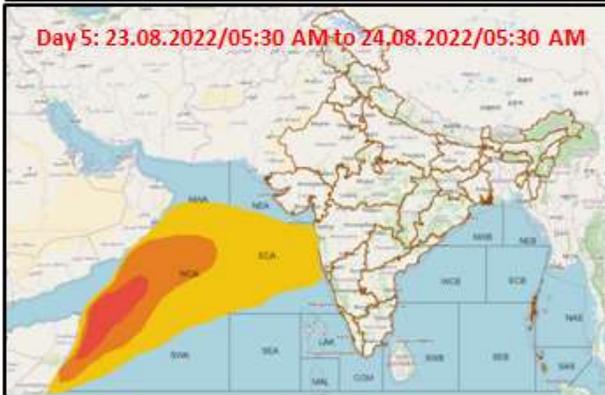
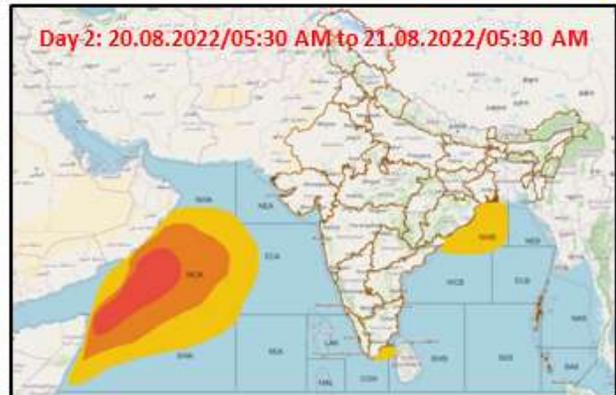
Squally WX with wind speed 40-45 gusting to 55 kmph

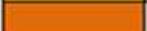
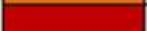
Squally wind speed 40-50 kmph gusting to 60 kmph

Squally wind speed 45-55 kmph gusting to 65 kmph

Squally wind speed 55-65 kmph gusting to 75 kmph

Probability of exceedance of maximum sustained winds ≥ 45 kmph



	Probability of exceedance
	Low (1-33%)
	Moderate (34-67%)
	High (68-100%)