



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

BULLETIN NO. : 02 (BOB/07/2022)

TIME OF ISSUE: 1030 HOURS IST **DATED: 19.08.2022**
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)
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DIRECTOR GENERAL, AIR (23421105, 23421219)
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D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)
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CHIEF SECRETARY, CHATTISGARH (FAX NO.)
CHIEF SECRETARY, JHARKHAND (FAX NO.)
CHIEF SECRETARY, GOVT. OF MADHYA PRADESH (FAX NO. 755-2441076)
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CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029, 08645-246600)
CHIEF SECRETARY, PUDUCHERRY (FAX NO 0413-2334145)

Sub: Depression over Northwest & adjoining Northeast Bay of Bengal

The Depression over Northwest & adjoining Northeast Bay of Bengal moved west-northwestwards during past 03 hours with a speed of 20 kmph and lay centered at 0830 hrs IST of today, the 19th August, 2022 over northwest & adjoining northeast Bay of Bengal near latitude 20.8°N and longitude 89.2°E, about 250 km east-southeast of Balasore (Odisha), 190 km east-southeast of Digha (West Bengal) and 150 km southeast of Sagar Islands (West Bengal).

It is very likely to move west-northwestwards and intensify into a Deep Depression during next 06 hours. Continuing to move in the same direction, it is likely to cross West Bengal and Odisha coasts between Balasore & Sagar Islands around evening of today the 19th August, 2022. After landfall, it would continue to move west-northwestwards across north Odisha, West Bengal and Jharkhand towards north Chhattisgarh 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
19.08.22/0830	20.8/89.2	45-55 gusting to 65	Depression
19.08.22/1130	21.1/88.6	55-65 gusting to 75	Deep Depression
19.08.22/1730	21.6/87.5	55-65 gusting to 75	Deep Depression
19.08.22/2330	22.0/86.4	50-60 gusting to 70	Deep Depression
20.08.22/0530	22.3/85.3	45-55 gusting to 65	Depression

Warnings:

Rainfall:

19th 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 Odisha**. Rainfall at most places with heavy to very heavy rainfall at a few places over South Odisha & Gangetic West Bengal; isolated heavy to very heavy rainfall over Jharkhand & Chattisgarh and heavy rainfall at isolated places over East Madhya Pradesh.

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 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 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. Rainfall at most places with heavy to very heavy rainfall at isolated places over East Madhya Pradesh & East Rajasthan. Rainfall at most places with heavy rainfall at isolated places over Chattisgarh & Vidarbha.

22nd August: Rainfall at most places with heavy to very heavy rainfall at isolated places over East Rajasthan. Rainfall at most places with heavy rainfall at isolated places over West Madhya Pradesh.

22nd August: Rainfall at most places with heavy to very heavy rainfall at isolated places over Rajasthan. Rainfall at many places with heavy rainfall at isolated places over West Madhya Pradesh.

Wind:

- **Squally wind speed reaching 45-55 kmph gusting to 65 kmph** very likely over North Bay of Bengal and along & off West Bengal, Odisha & Bangladesh coasts during next 03 hours. It is likely to increase becoming 55-65 kmph gusting to 75 kmph from noon till midnight of today over North Bay of Bengal and along & off north Odisha (**Balasore, Bhadrak and adjoining Mayurbhanj Districts**) and West Bengal (**North & South 24 Parganas, East & West Medinipur Districts**) coasts.
- **Squally wind speed reaching 45-55 gusting to 65 kmph** during the same period along & off remaining districts of coastal Odisha & West Bengal. It would improve gradually becoming squally wind speed reaching 40-50 kmph gusting to 65 kmph over Northwest Bay of Bengal along & off West Bengal and Odisha coasts from 20th forenoon for subsequent 24 hours.
- **Strong Winds speed reaching 30-40 kmph gusting to 50 kmph** likely to prevail over interior districts of north Odisha, Gangetic West Bengal and adjoining areas of south Jharkhand from tonight for subsequent 12 hours.

Sea condition:

Sea condition is likely to be rough to very rough over North Bay of Bengal and along & off West Bengal, Odisha & Bangladesh coasts on 19th. Sea condition would gradually improve becoming rough over Northwest Bay of Bengal and along & off West Bengal & Odisha coasts from 20th August.

Fishermen Warnings: (for graphics please visit <https://rsmcnewdelhi.imd.gov.in>)

Fishermen are advised not to venture into North Bay of Bengal and along & off West Bengal, Odisha & Bangladesh coasts till 20th August.

Damage expected in Odisha and West Bengal:

- Damage to loose/unsecured structures. Some breaches in Kutcha road & embankments due to flooding.
- Damage to Banana trees 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 1430 hours IST of today, the 19th August, 2022.

(Ananda Kumar Das)
Scientist E, Cyclone Warning Division, New Delhi

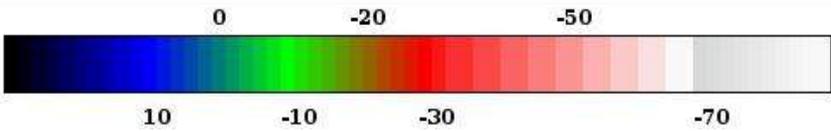
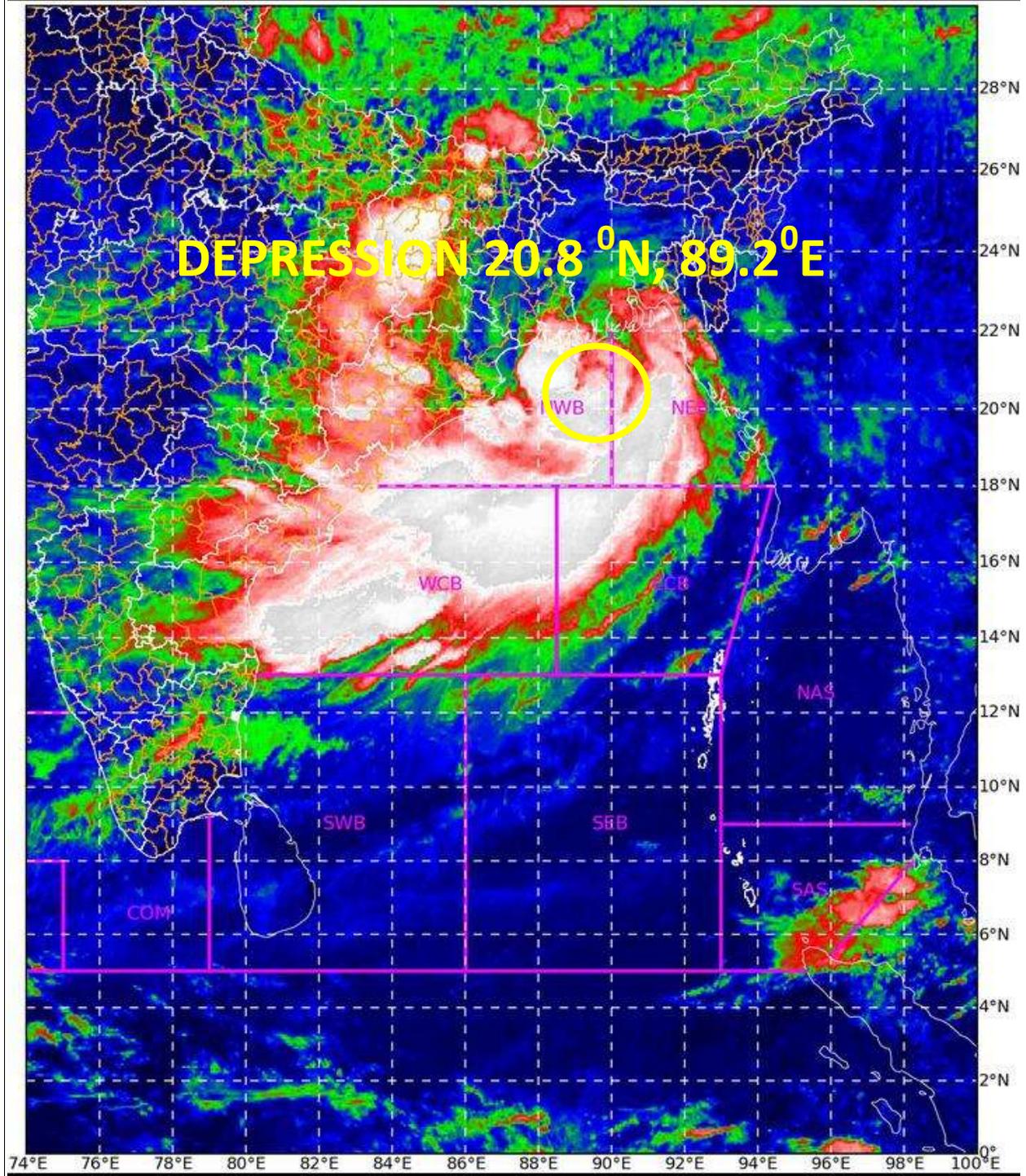
**Copy to: ACWC Mumbai/ ACWC Kolkata/ ACWC Chennai/ CWC
Bhubaneswar/CWCVisakhapatnam/ / MO Port Blair/MC Raipur/MC Bhopal/MC
Hyderabad/RMC Nagpur/**

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 19-08-2022/(0400 to 0426) GMT

IMG_TIR1_TEMP 10.8 um 19-08-2022/(0930 to 0956) IST

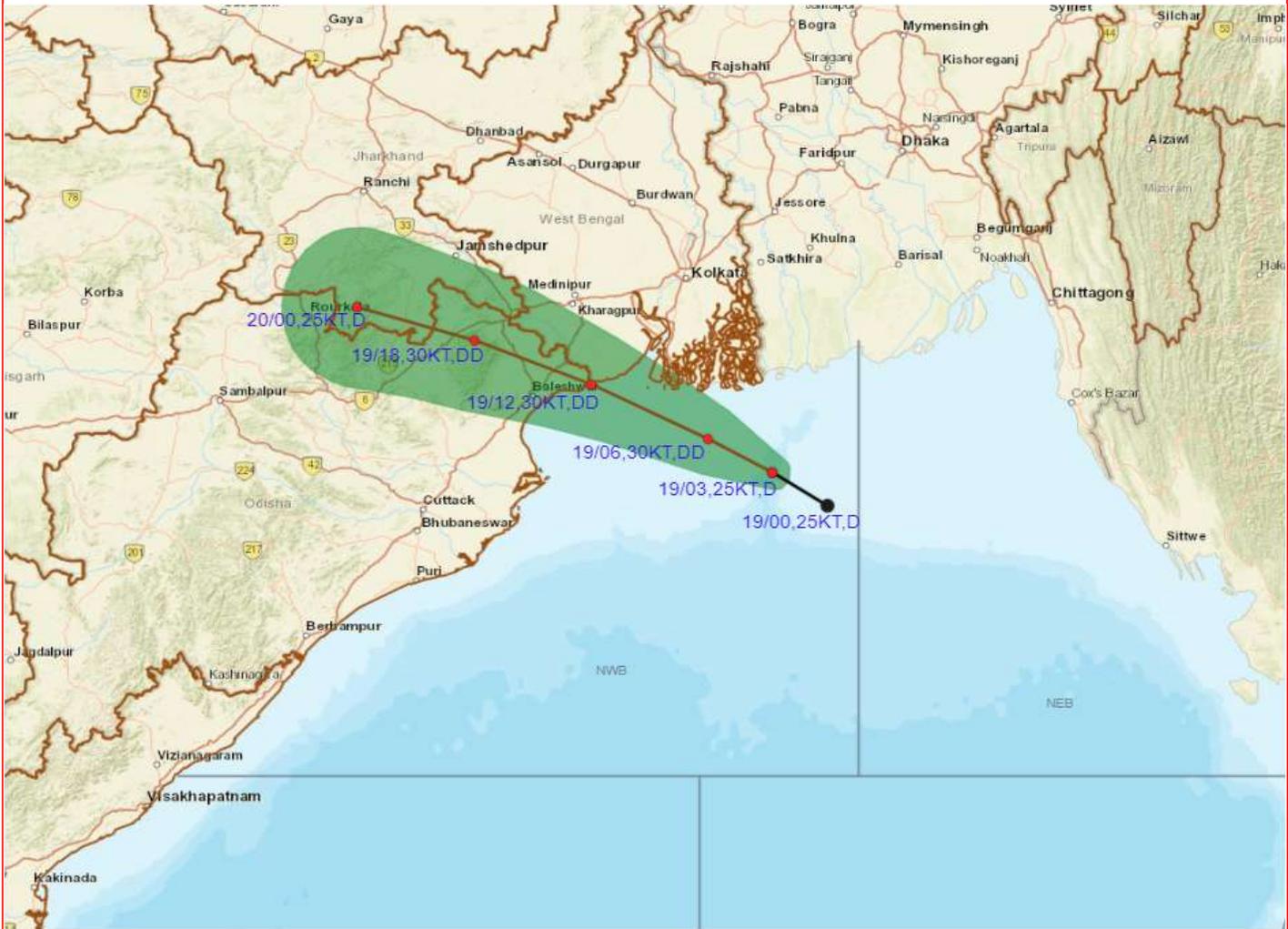
L1C Mercator



Celsius
IMD, DELHI



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTHWEST AND ADJOINING NORTHEAST BAY OF BENGAL BASED ON 0300 UTC OF 19th 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 (\geq 120 KT)

 **LESS THAN 34 KT**

 **34-47 KT**

 **\geq 48 KT**

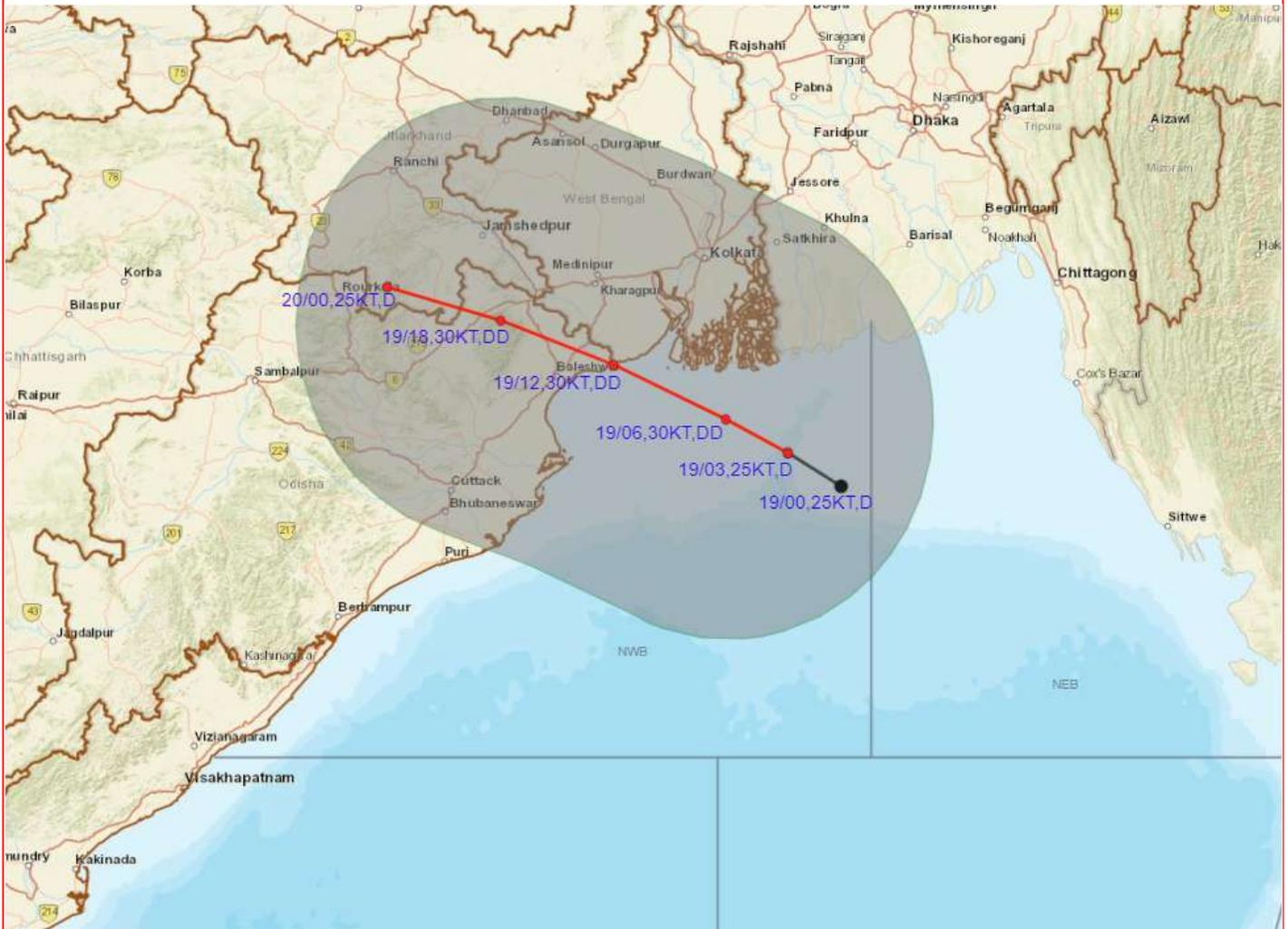
 **OBSERVED TRACK**

 **FORECAST TRACK**

 **CONE OF UNCERTAINTY**



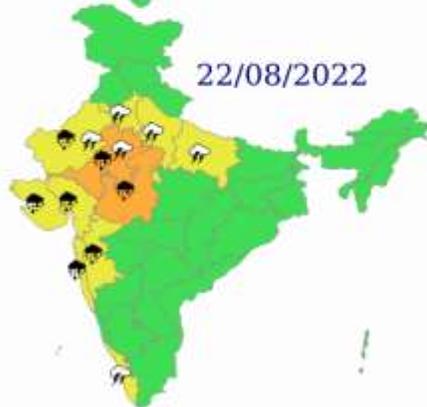
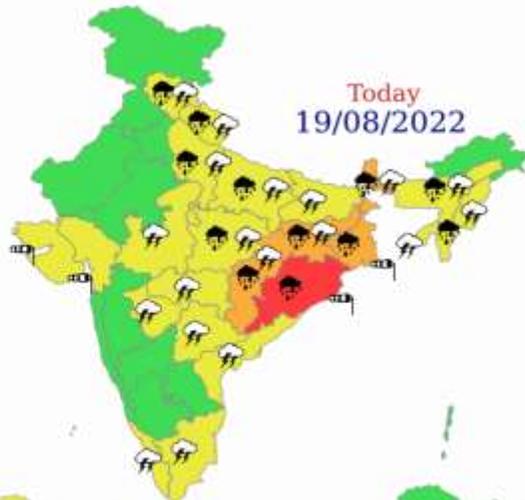
OBSERVED AND FORECAST TRACK ALONG WITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER NORTHWEST AND ADJOINING NORTHEAST BAY OF BENGAL BASED ON 0300 UTC OF 19th AUGUST, 2022



DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
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- LESS THAN 34 KT
- 34-47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations



Fishermen warning graphics

Day 1 19.08.2022/05:30 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



	Squally WX with wind speed 40-50 gusting to 60 kmph
	Squally wind speed 55-65 gusting to 75
	Squally wind speed 45-55kmph gusting to 65 kmph
	Squally wind speed 50-60kmph gusting to 70 kmph