



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

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Sub: Depression over southeast Bay of Bengal: Pre-Cyclone Watch for north Andhra Pradesh and Odisha coasts.

The Well Marked Low Pressure Area over southeast Bay of Bengal moved west-northwestwards, concentrated into a **Depression** and lay centered at 1730 hrs IST of today, the 2nd December 2021, over southeast Bay of Bengal near Lat. 11.0°N and Long. 89.0°E, about 960 km south-southeast of Vishakhapatnam (Andhra Pradesh), 1020 km south-southeast of Gopalpur (Odisha) & 1060 km south-southeast of Paradip (Odisha).

It is likely to move northwestwards and intensify into a Cyclonic Storm over central parts of the Bay of Bengal during next 24 hours. It is likely to reach west-central Bay of Bengal off north Andhra Pradesh – south Odisha coasts around 4th December morning. Thereafter it is likely to move north-northeastwards.

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
02.12.21/1730	11.0/89.0	45-55 gusting to 65	Depression
03.12.21/0530	12.9/86.2	50-60 gusting to 70	Deep Depression
03.12.21/1730	14.4/84.6	60-70 gusting to 80	Cyclonic Storm
04.12.21/0530	16.1/83.7	80-90 gusting to 100	Cyclonic Storm
04.12.21/1730	17.7/84.0	90-100 gusting to 110	Severe Cyclonic Storm
05.12.21/0530	19.3/85.4	80-90 gusting to 100	Cyclonic Storm

Warnings:

(i) Rainfall (warning graphics enclosed)

2nd Dec.: Light to moderate rainfall at most places with heavy rainfall at isolated places likely over Andaman & Nicobar Islands.

3rd Dec.: Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places over south coastal Odisha and heavy rainfall at isolated places over north coastal Andhra Pradesh.

4th Dec.: Light to moderate rainfall at most places with heavy to very heavy rainfall & extremely heavy falls at isolated places very likely over south coastal Odisha and heavy to very heavy rainfall at isolated places over north coastal Andhra Pradesh, north coastal Odisha & adjoining interior districts and also over coastal districts of Gangetic west Bengal.

5th Dec.: Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places likely over Gangetic West Bengal & north Odisha and heavy rainfall at isolated places over Assam & Meghalaya and Tripura.

6th Dec.: Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places likely over Assam & Meghalaya, Mizoram and Tripura.

(ii) Wind warning

- Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail over southeast Bay of Bengal & adjoining Andaman Sea during next 6 hours.
- It would further increase to wind speed reaching 50-60 kmph gusting to 70 kmph over southeast & adjoining east-central Bay of Bengal, from 3rd December morning.
- Gale winds speed reaching 65-75 kmph gusting to 85 kmph likely to prevail over central Bay of Bengal from the morning of 3rd December evening and gradually increase becoming 90-100 kmph gusting to 110 kmph over northwest & adjoining west-central Bay of Bengal from the morning of 4th December for the subsequent 24 hours.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to commence along & off North Andhra Pradesh – Odisha coasts from the mid-night of 3rd December and increase gradually becoming 70-80 kmph gusting to 90 kmph from 4th morning, for the subsequent 12 hours.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph also likely to commence along & off West Bengal coast from 4th December morning and become Gale wind speed reaching 60-70 kmph gusting to 80 kmph from the evening of 4th December for the subsequent 12 hours.

(iii) Sea condition

- Sea condition will be very rough to High over southeast & adjoining east-central Bay of Bengal, Andaman & Nicobar Islands & Andaman Sea during next 12 hours.
- Sea condition would be High over central Bay of Bengal on 3rd December and High to very High over west-central & northwest Bay of Bengal from the early morning of 4th December for the subsequent 24 hours.
- Sea condition will be rough to very rough over along & off North Andhra Pradesh – Odisha coast from the mid-night of 3rd December and become High to very High from 4th Afternoon, for the subsequent 12 hours.
- It will be rough to very rough along & off West Bengal coast from 4th morning and High from the same evening for the subsequent 12 hours.

(iv) Fishermen Warning (in association with the likely intensification of the system)

Fishermen are advised not to venture into Andaman Sea on 2nd December 2021, into southeast & adjoining east-central Bay of Bengal on 2nd & 3rd December, over west-central &

northwest Bay of Bengal and along & off north Andhra Pradesh - Odisha- West Bengal coasts during 3rd - 5th December 2021 (Graphics enclosed).

(v) Advisory to along & off shore Installations

The off-shore & alongshore operations along north Andhra Pradesh, Odisha & West Bengal coasts are advised to be judiciously regulated on 3rd December and to be suspended on 4th December 2021, to ensure safety of life & property.

(vi) EXPECTED IMPACT & ACTION SUGGESTED

A. Impact Expected

- Major damage to thatched houses/ huts.
- Breaking of tree branches, uprooting of trees.
- Minor damage to power and communication lines.
- Localized Flooding of roads, inundation and water logging in low lying areas and closure of underpasses mainly in urban areas of the affected region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation. Damage to banana, Papaya & Moringa (Drumstick) trees.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

B. Action Suggested

- Total suspension of fishing operations.
- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.
- Harvest the ripen crops like Paddy & Horticultural crops and also secure the harvested crops securely from the damage due to rain and strong winds.

Next Bulletin will be issued at 0230 hrs IST of tomorrow, the 3rd December 2021.

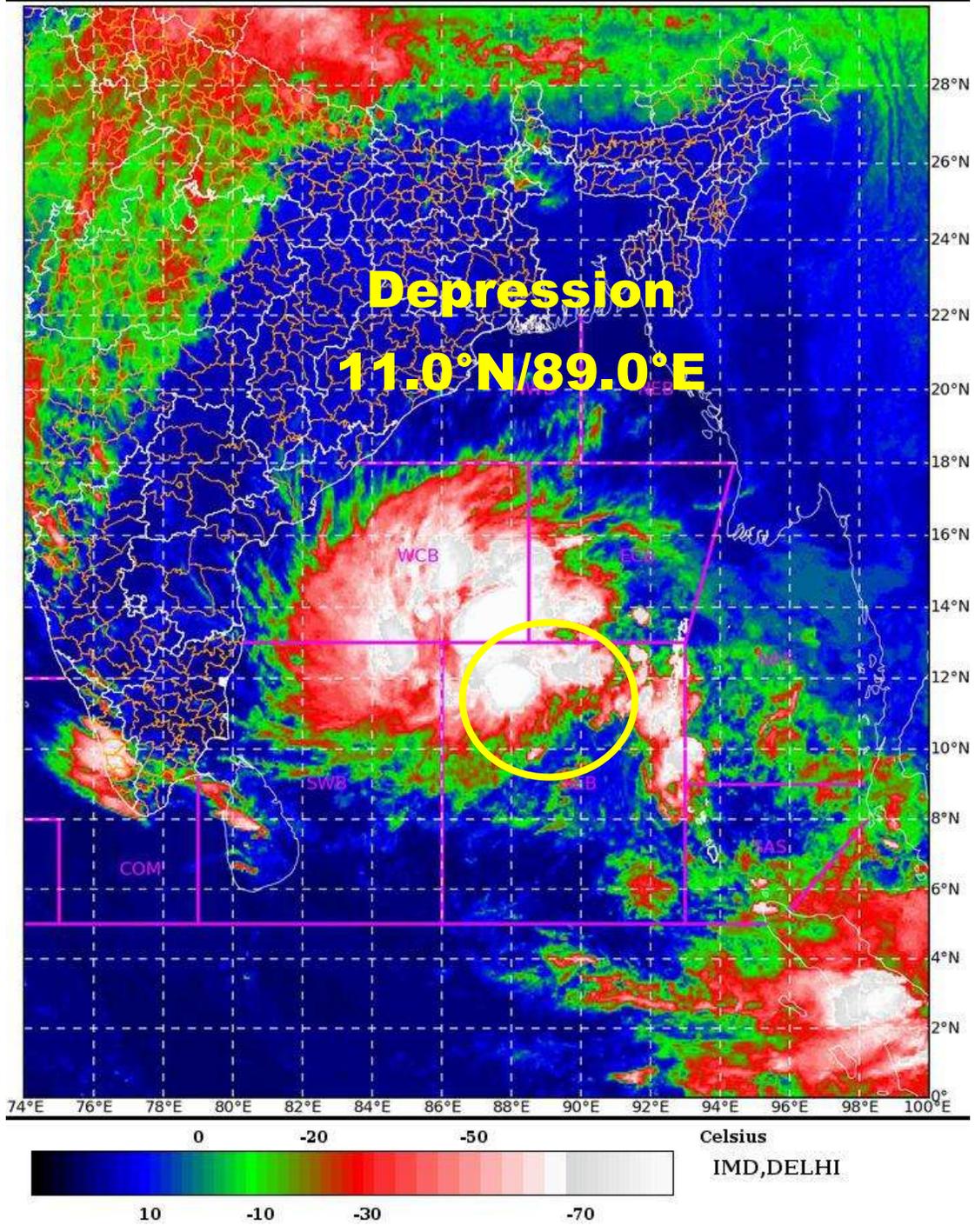
(Sunitha Devi. S)
Scientist-F, RSMC, New Delhi

Copy to: ACWC Kolkata/ CWC Vishakhapatnam/CWC Bhubaneswar/RMC Guwahati
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 stations

SAT : INSAT-3D IMG 02-12-2021/(1200 to 1226) GMT

IMG_TIR1_TEMP 10.8 um 02-12-2021/(1730 to 1756) IST

L1C Mercator





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER SOUTHEAST BAY OF BENGAL BASED ON 1200 UTC OF 2nd DECEMBER, 2021

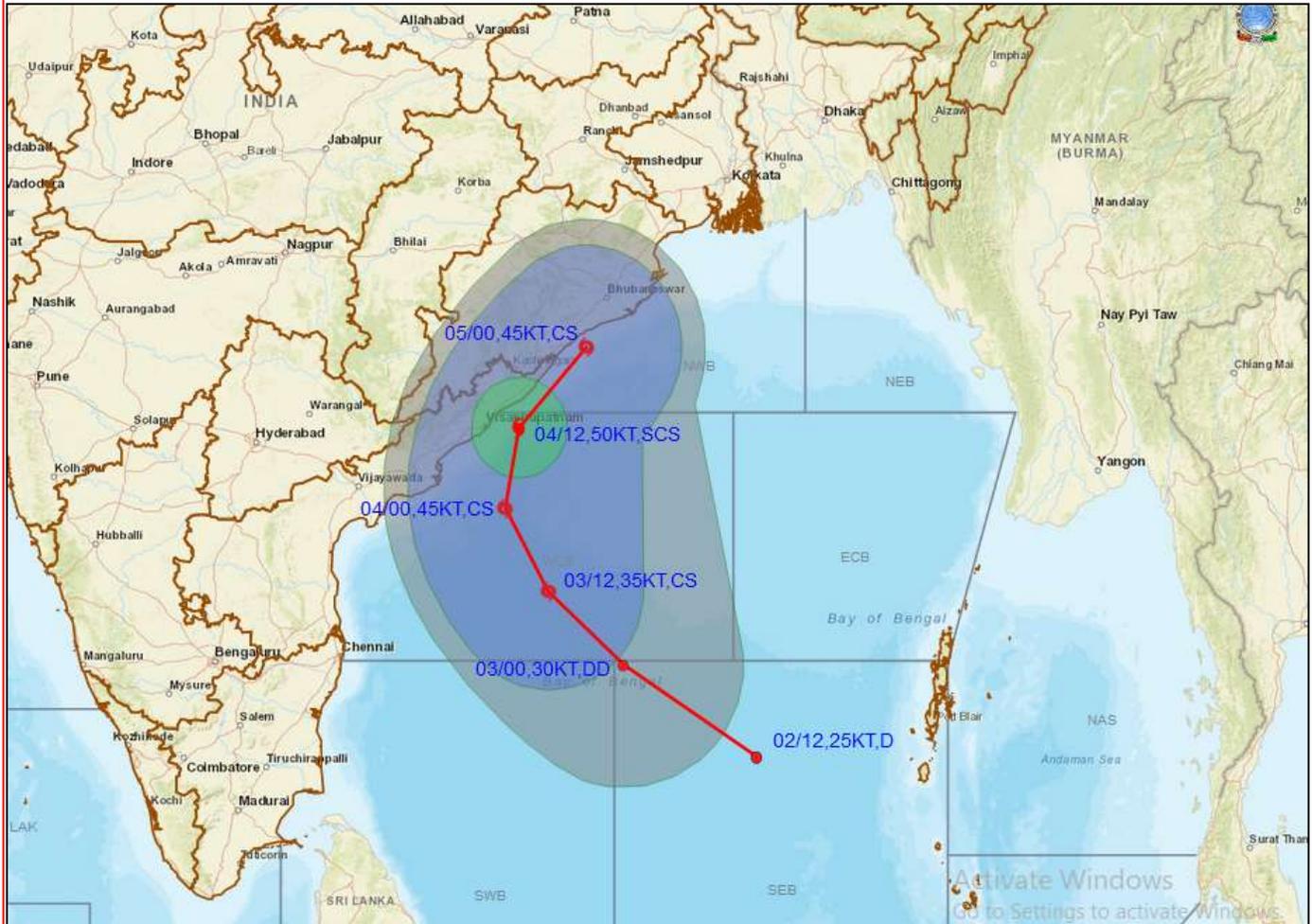


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
SuCS: SUPER CYCLONIC STORM (≥ 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- ≥ 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER SOUTHEAST BAY OF BENGAL BASED ON 1200 UTC OF 2nd DECEMBER, 2021



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

Sub-division wise heavy rainfall warning for next 5 days

