



Government of India
Ministry of Earth Sciences



India Meteorological Department

PRESS RELEASE – 2

Time of issue: 1430 hours IST

Dated: 7 December, 2022

Sub: Deep Depression over Southwest and adjoining Southeast Bay of Bengal (Pre-cyclone watch for north Tamilnadu, Puducherry and south Andhra Pradesh coasts)

Yesterday's Well Marked Low Pressure area concentrated into a Depression over Southeast Bay of Bengal in the evening (1730 hours IST) of 6th December. It moved west-northwestwards with a speed of 12 kmph, intensified into a Deep Depression over Southeast & adjoining Southwest Bay of Bengal, near latitude 8.6°N and longitude 86.4°E in the morning (0530 hours IST) of 7th December. It then moved west-northwestwards with a speed of 16 kmph during past 06 hours and lay centred at 1130 hours IST of today, the 07th December, 2022 over Southwest and adjoining Southeast Bay of Bengal, near latitude 8.7°N and longitude 85.5°E, about 470 km east of Trincomalee (Sri Lanka), about 610 km east-southeast of Jaffna (Sri Lanka), about 670 km east-southeast of Karaikal and about 750 km east-southeast of Chennai.

It is very likely to move west-northwestwards and intensify further gradually into a Cyclonic Storm around 07th December evening and reach Southwest Bay of Bengal off north Tamil Nadu-Puducherry & adjoining south Andhra Pradesh coasts by 08th December morning. It will continue to move west-northwestwards towards north Tamil Nadu-Puducherry & adjoining south Andhra Pradesh coasts during subsequent 48 hours.

Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
07.12.22/1130	8.7/85.5	55-65 gusting to 75	Deep Depression
07.12.22/1730	9.0/84.9	60-70 gusting to 80	Cyclonic Storm
07.12.22/2330	9.4/84.3	70-80 gusting to 90	Cyclonic Storm
08.12.22/0530	9.9/83.7	80-90 gusting to 100	Cyclonic Storm
08.12.22/1130	10.3/83.2	80-90 gusting to 100	Cyclonic Storm
08.12.22/2330	11.0/83.2	75-85 gusting to 95	Cyclonic Storm
09.12.22/1130	11.7/81.2	70-80 gusting to 90	Cyclonic Storm
09.12.22/2330	12.4/80.4	65-75 gusting to 85	Cyclonic Storm
10.12.22/1130	12.9/79.7	45-55 gusting to 65	Depression

Warnings:

(i) Rainfall (warning graphics enclosed)

- ❖ Light to moderate rainfall at most places with heavy to very heavy falls at isolated places very likely over coastal Tamilnadu, Puducherry & Karaikal and isolated heavy rainfall over adjoining areas of south coastal Andhra Pradesh and Rayalaseema on 08th December.
- ❖ Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places very likely over north coastal Tamilnadu,

Contact: Cyclone Warning Division, Office of the Director General of Meteorology,
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Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Puducherry and adjoining south Coastal Andhra Pradesh and isolated heavy to very heavy rainfall likely over north interior Tamilnadu and adjoining Rayalaseema on 09th December.

- ❖ It is likely to reduce to Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places likely over north Tamilnadu and Rayalaseema and south Andhra Pradesh on 10th December.

(ii) Wind warning:

- ❖ **Squally wind, speed reaching 50-60 kmph gusting to 70 kmph**, is likely to prevail over Southeast Bay of Bengal during next 24 hours and then reduce to **40-45 kmph gusting to 55 kmph on 8th Dec.**
- ❖ **Squally wind, speed reaching 50-60 kmph gusting to 70 kmph** prevailing over Southwest Bay of Bengal, would increase gradually becoming **60-70 kmph gusting to 80 kmph** from 7th evening. It would further increase becoming Gale wind, speed reaching **70-80 kmph gusting to 90 kmph**, over the region from 8th morning and **80-90 kmph gusting to 100 kmph** during 08th evening to 09th morning. It would decrease thereafter gradually.
- ❖ **Squally wind, speed reaching 40-50 kmph gusting to 60 kmph**, likely to commence along & off Tamilnadu, Puducherry, south Andhra Pradesh and north Sri Lanka coasts coast from 08th December morning, becoming **50-60 kmph gusting to 70 kmph** from 08th December evening, **70-80 kmph gusting to 90 kmph** from 09th December evening to 10th December morning. It is likely to reduce gradually to **50-60 kmph gusting to 70 kmph** by afternoon of 10th December and then to **40-50 kmph gusting to 60 kmph** by 10th December night.
- ❖ **Squally wind, speed reaching 40-50 kmph gusting to 60 kmph**, likely over Gulf of Mannar from 08th December evening becoming **50-60 kmph gusting to 70 kmph** from 09th December evening to 10th December morning. It is likely to reduce gradually thereafter.

(iii) Sea condition

- ❖ **Sea condition likely to be rough to very rough** over Southeast Bay of Bengal on 07th.
- ❖ **Sea condition likely to be rough to very rough** over Southwest and adjoining areas of Westcentral Bay of Bengal till 7th evening and very rough to high thereafter till 10th morning and improve gradually thereafter.
- ❖ **Sea condition likely to be rough to very rough** along & off South Andhra Pradesh, Tamil Nadu, Puducherry and Sri Lanka coasts on 07th, 08th and 10th and high on 9th December.

(iv) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into:

- ❖ Southeast Bay of Bengal on 07th December.
- ❖ Southwest Bay of Bengal during 07th-10th December
- ❖ Along & off Sri Lanka coast during 07th-09th December.
- ❖ Along & off Tamilnadu, Puducherry and South Andhra Pradesh coasts and Gulf of Mannar during 07th-10th December.
- ❖ Fishermen out at sea should return to the coast or move to the safe area.

(v) Adverse Weather Warning for onshore and off-shore operations

- ❖ Regulate on-shore and off-shore operations over Southeast Bay of Bengal on 07th and over Southwest Bay of Bengal during 07th-10th; along & off Tamilnadu-Puducherry-South Andhra Pradesh coasts and Gulf of Mannar during 08th-10th December.

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Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

(vi) Damage expected over Coastal Tamilnadu, Puducherry and adjoining south coastal Andhra Pradesh

- ❖ Damage to thatched houses/ huts. Unattached metal sheets may fly.
- ❖ Minor damage to power and communication lines.
- ❖ Major damage to Kutcha and some damage to Pucca roads. Flooding of escape routes.
- ❖ Breaking of tree branches, uprooting of small trees. Dead limbs blown from trees.
- ❖ Damage to banana and papaya trees and near coastal agriculture due to salt spray. Damage to paddy and other standing crops.
- ❖ Inundation/localized flooding in low lying areas due to heavy rains
- ❖ Traffic may be disrupted due to poor visibility in association with heavy rain

(vii) Action suggested over Coastal Tamilnadu, Puducherry and adjoining south coastal Andhra Pradesh

- ❖ Total suspension of fishing operations during 07th-10th December.
- ❖ Regulate onshore and off-shore operations during 7-10 Dec.
- ❖ People are advised to be cautious while going outside.
- ❖ Regulate traffic.
- ❖ People should not move nearby to vulnerable structures.

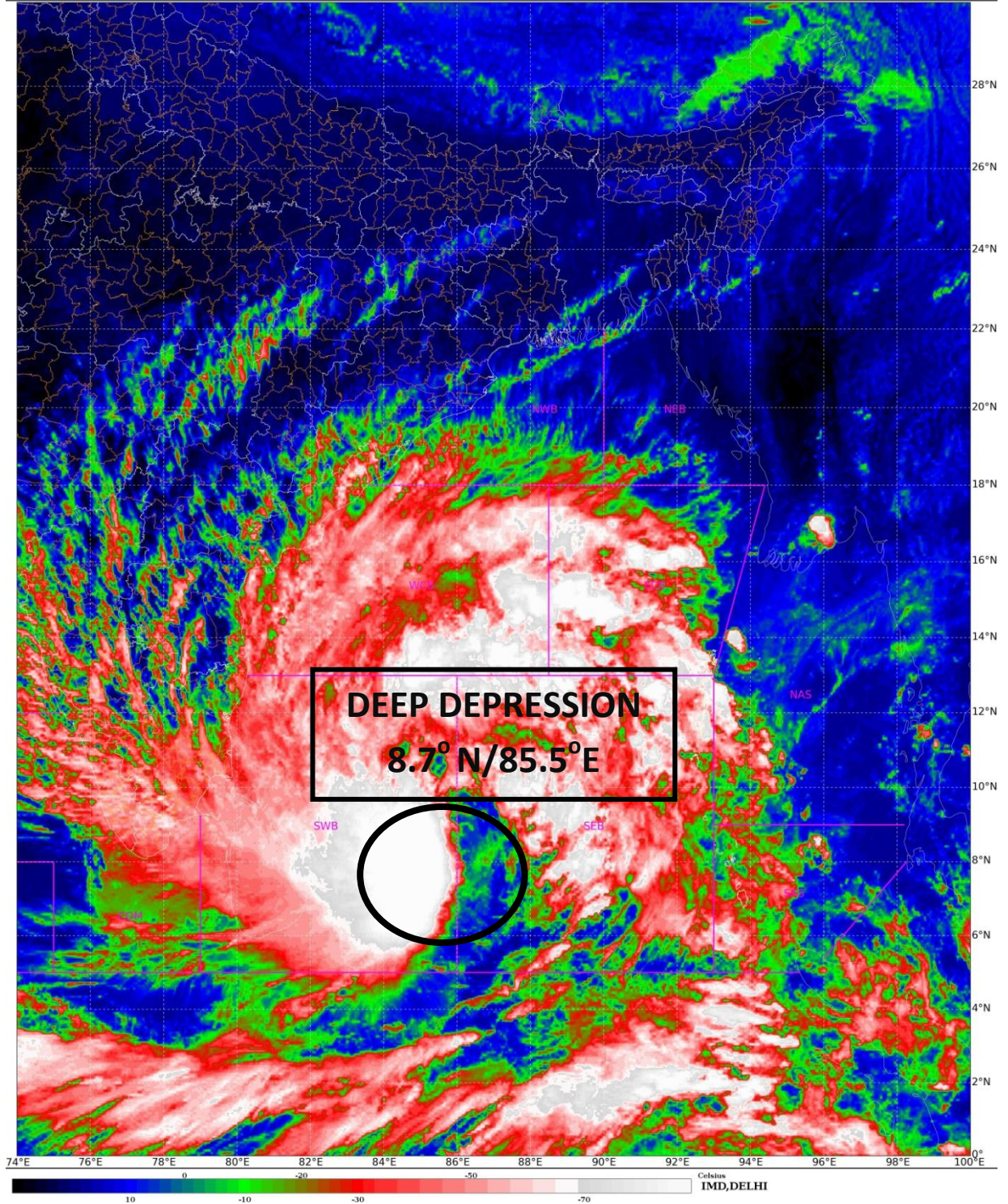
The system is under continuous surveillance and concerned state governments are being informed regularly. For updates kindly visit www.rsmcnewdelhi.imd.gov.in and www.mausam.imd.gov.in

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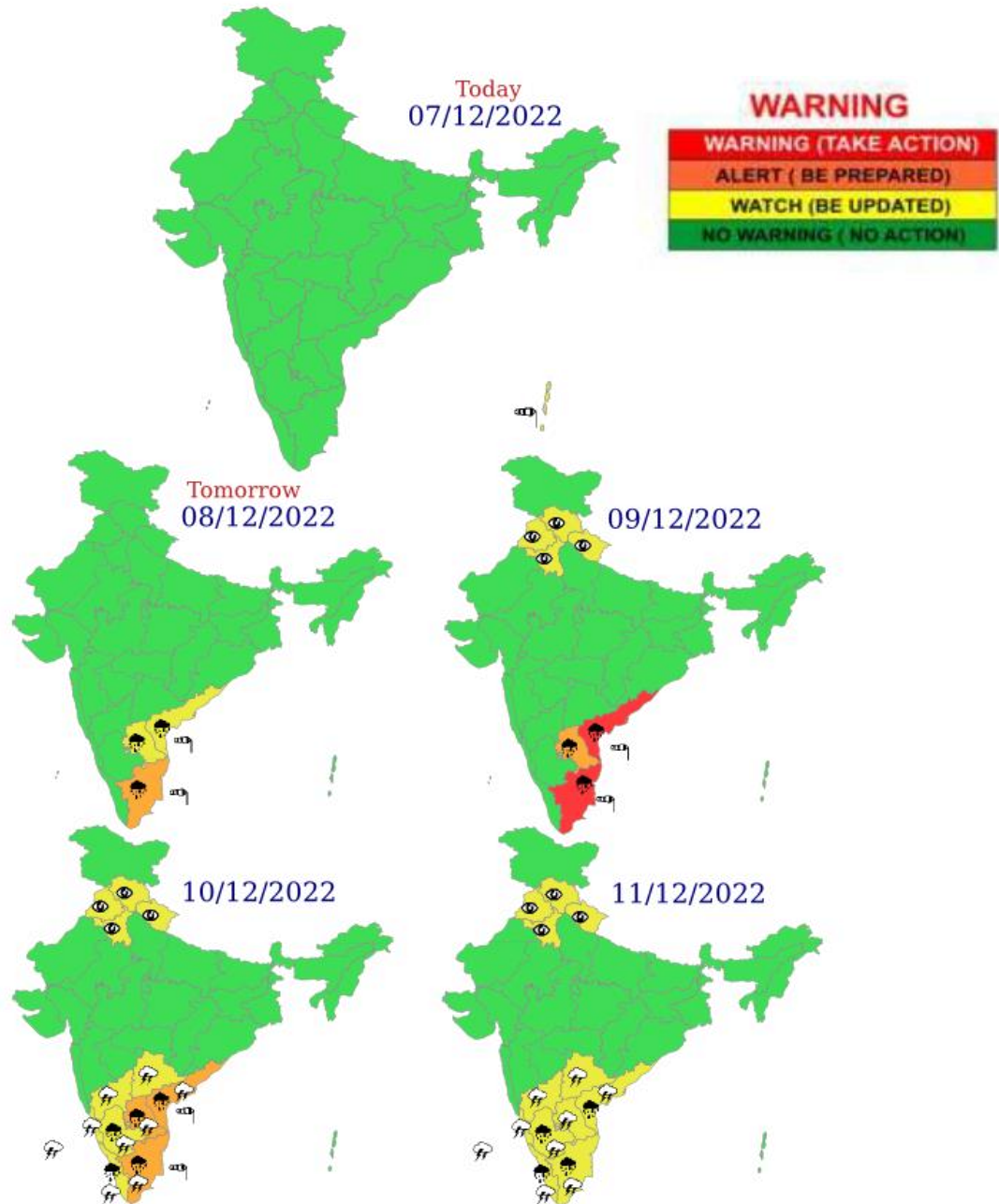
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Multi hazard Warning Graphics

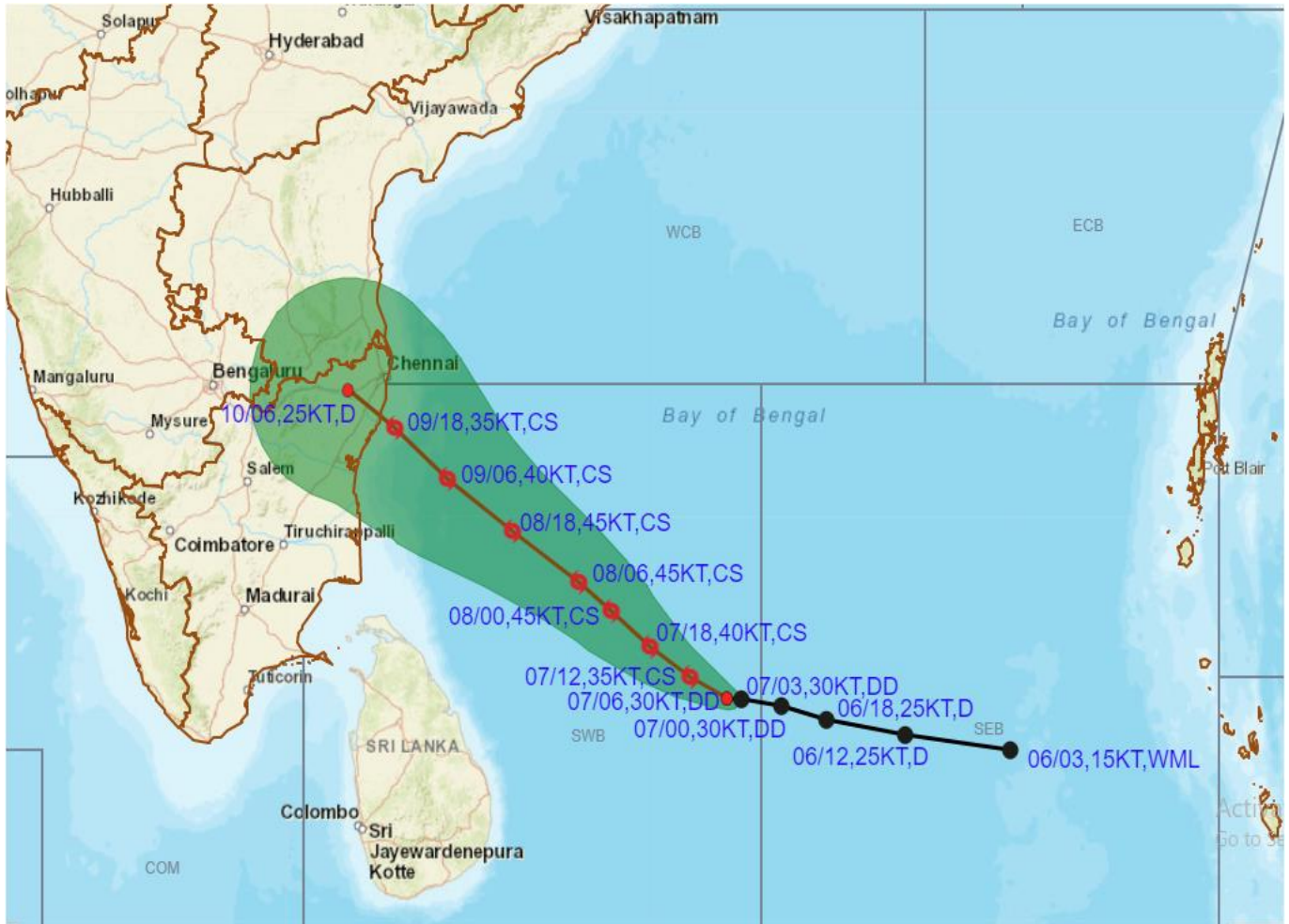


LEGEND: Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%
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|--|--|--|--|
|  Heavy Rain |  Heavy Snow |  Thunderstorm |  Dust Storm |
|  Strong Winds |  Visibility |  Cyclone |  Squall/ Hail |
|  Frost |  Cold Wave |  Heat Wave |  Sea State |



OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER SOUTHWEST AND ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 0600 UTC OF 07th DECEMBER, 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

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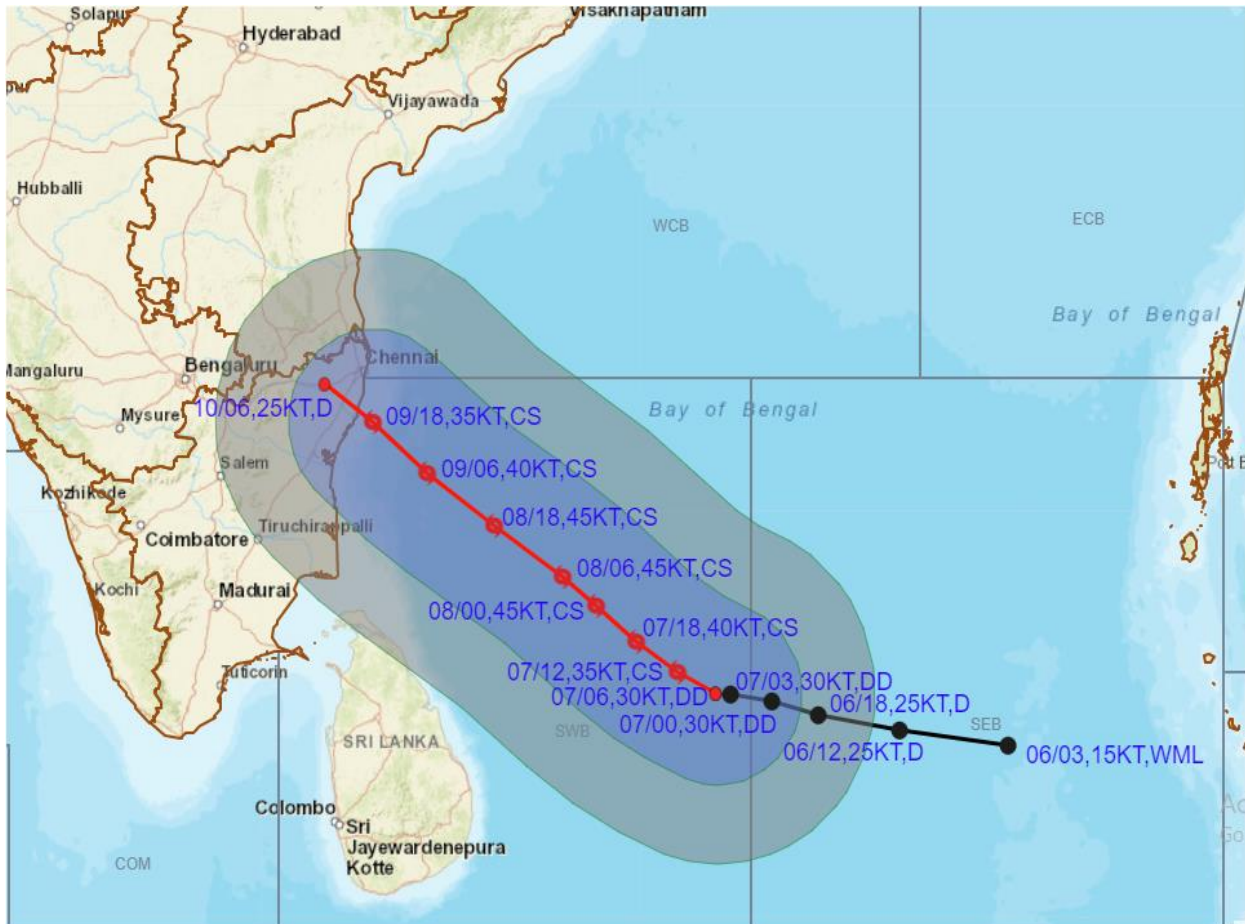
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Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER SOUTHWEST AND ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 0600 UTC OF 07th DECEMBER, 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)

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SuCS: SUPER CYCLONIC STORM \geq 120 KT)

- LESS THAN 34 KT
- 34-47 KT
- \geq 48 KT
- OBSERVED TRACK
- FORECAST TRACK
- ▲ CONE OF UNCERTAINTY
- AREA OF MAXIMUM SUSTAINED WIND SPEED:
- 28-33 KT (52-61 KMPH)
- 34-49 KT (62-91 KMPH)
- 50-63 KT (92-117 KMPH)
- \geq 64 KT (\geq 118 KMPH)

IMPACT OVER THE SEA

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

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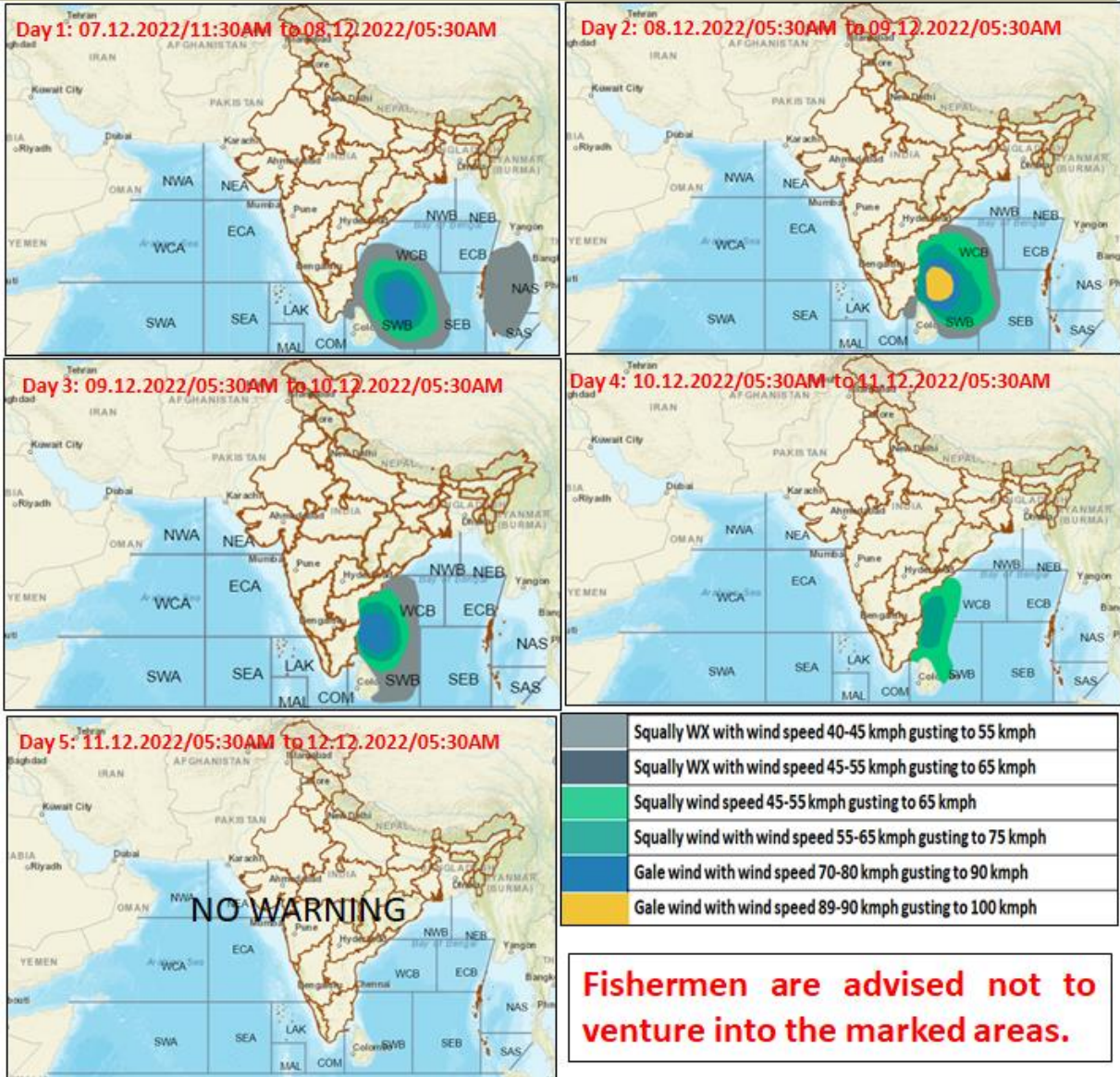
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Fishermen warning graphics



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