

Government of India Ministry of Earth Sciences



India Meteorological Department

PRESS RELEASE-6

Time of issue: 1430 hours IST

Dated: 29th November, 2024

Sub: Deep Depression over Southwest Bay of Bengal (Cyclone Alert: Orange Message for North Tamil Nadu, Puducherry and adjoining south Andhra Pradesh Coasts)*

Yesterday's **Deep Depression** over Southwest Bay of Bengal moved nearly northwards and lay centred at 0830 hours IST of today, the 29th November 2024 over the same region near latitude 10.6°N and longitude 82.6°E, about 270 km north-northeast of Trincomalee, 300 km east of Nagappattinam, 340 km east-southeast of Puducherry and 380 km southeast of Chennai.

It is likely to move northwestwards and intensify into a **cyclonic storm** during next 06 hours. Thereafter, it is likely to continue to move northwestwards and cross north Tamil Nadu-Puducherry coasts between Karaikal and Mahabalipuram close to Puducherry as a cyclonic storm with a wind speed of 70-80 kmph gusting to 90 kmph during afternoon 30th November.

The system is being continuously monitored.

Date/ Time (IST)	Position (Lat. ⁰ N/ long. ⁰]	Maximum sustained surfa wind speed (Kmph)	Category of cyclonic disturbance
29.11.24/0830		55-65 gusting to 75	Deep Depression
29.11.24/1130	10.7/82.4	55-65 gusting to 75	Deep Depression
29.11.24/1730	11.0/81.9	60-70 gusting to 80	Cyclonic Storm
29.11.24/2330	11.3/81.2	65-75 gusting to 85	Cyclonic Storm
30.11.24/0530	11.7/80.4	70-80 gusting to 90	Cyclonic Storm
30.11.24/1730	12.2/79.3	55-65 gusting to 75	Deep Depression

Forecast track and intensity are given in the following table:

Warnings:

(i) Rainfall Warning:

Tamil Nadu & Puducherry: Light to moderate rainfall at many places with heavy to very heavy rainfall with extremely falls at isolated places over north Tamil Nadu – Puducherry is likely on 29^{th} November; heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places over north Tamil Nadu – Puducherry on 30^{th} November; heavy to very heavy rainfall at isolated places over interior Tamil Nadu on 01^{st} December, and heavy rainfall at isolated places over Tamil Nadu on 02^{nd} and 03^{rd} December.

Coastal Andhra Pradesh: Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places is likely over south coastal Andhra Pradesh on 29th November; heavy to very heavy

rainfall with extremely heavy rainfall at isolated places over south coastal Andhra Pradesh on 30^{th} November, and heavy rainfall at isolated places on 01^{st} December.

Rayalaseema: Light to moderate rainfall at many places with heavy to very heavy rainfall with extremely heavy rainfall at isolated places is likely on $29^{th} \& 30^{th}$ November; heavy rainfall at isolated places on 01^{st} December.

South interior Karnataka: Light to moderate rainfall at many places with isolated heavy rainfall is likely on 30^{th} November, heavy to very heavy rainfall at isolated places on $01^{\text{st}} \& 2^{\text{nd}}$ December.

Kerala: Light to moderate rainfall at many places with isolated heavy rainfall is likely on 30^{th} November, heavy to very heavy rainfall at isolated places on $01^{\text{st}} \& 2^{\text{nd}}$ December.

(ii) Wind warning:

- Southwest Bay of Bengal: Squally wind speed reaching 55-65 kmph gusting to 75 kmph is prevailing over southwest Bay of Bengal. It is likely to increase becoming Gale wind speed reaching 60-70 kmph gusting to 80 kmph from evening of 29th and 70-80 kmph gusting to 90 kmph by morning of 30th November. Thereafter, it is likely to decrease becoming 55-65 kmph gusting to 75 kmph by evening of 30th November.
- Adjoining areas of westcentral Bay of Bengal: Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over adjoining areas of westcentral Bay of Bengal till evening of 30th November. It is likely to decrease thereafter.
- Along & off North Tamil Nadu Puducherry and adjoining South Andhra Pradesh coasts: Squally wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing along & off North Tamil Nadu - Puducherry and adjoining South Andhra Pradesh coasts. It is likely to increase becoming Gale wind speed reaching 60-70 kmph gusting to 80 kmph from evening of 29th and 70-80 kmph gusting to 90 kmph from 30th November morning to evening of 30th November. It is likely to decrease thereafter.
- Along & off East Sri Lanka coasts: Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely to prevail Along & off East Sri Lanka coasts till 29th November. It would decrease thereafter.
- Along & off South Tamil Nadu coast and Gulf of Mannar: Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail till 30th evening and gradually decrease thereafter.

(iii) Sea condition:

Rough to very Rough Sea conditions is very likely over southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and East Sri Lanka coasts till afternoon of 30th November. It is likely to become very rough to high thereafter till 30th evening. It will gradually improve thereafter.

(iv) Storm surge Warning:

Storm surge of about 1 metre above the astronomical tide is likely inundate the low lying areas of the coastal districts of north Tamil Nadu, Puducherry and adjoining south Andhra Pradesh during the time of landfall.

(v) Fisherman warning:

- Total suspension of fishing operations.
- Fishermen are advised not venture into southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and East Sri Lanka coasts till 30th November evening.
- Fishermen out at sea are advised to return to coast.

(vi) Impact Expected [over coastal districts of north Tamil Nadu – Puducherry and adjoining south Andhra Pradesh]

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above 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.
- Damage to horticulture and standing crops in some areas due to inundation.
- Partial disruption of power and communication lines.
- Breaking of tree branches, uprooting of small tress including banana, papaya and drumstick.

(vii) Action Suggested

- Total suspension of fishing operations.
- Fishermen are advised not venture into southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and East Sri Lanka coasts till 30th November evening.
- Fishermen out at sea are advised to return to coast.
- The ships plying over the area need to regulated.
- People should stay in safe places during 30th morning to evening.
- 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.
- Special care may be taken for fishing ponds and poultries over coastal areas.
- Avoid staying in vulnerable structure.

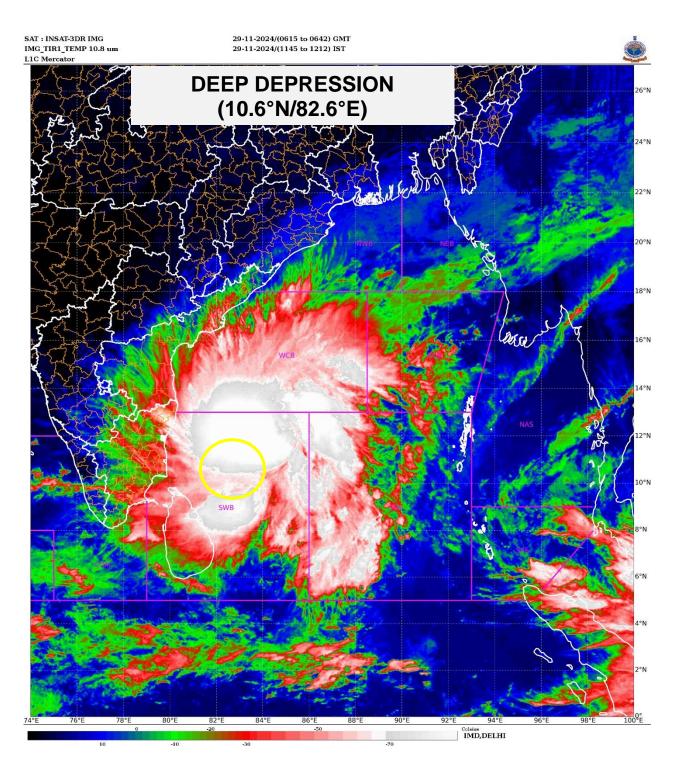
(viii) Agromet advisories [over coastal districts of Tamil Nadu – Puducherry and adjoining south Andhra Pradesh]

Provide adequate drainage facilities for the removal of excess water from rice, cotton, sugarcane, turmeric and vegetable fields, coconut and banana orchards. Provide mechanical support to banana plants to prevent lodging.

- Make arrangements to drain out excess water from the standing crop fields and fruit orchards in Kerala and Coastal Andhra Pradesh.
- Harvest the matured crops and keep it in safe place.
- Provide mechanical support to horticultural crops and staking to vegetables.

All associated graphics have been kept in Annexure-I.

Next Press Release will be issued at 1430 hours IST of tomorrow, the 30th November, 2024.

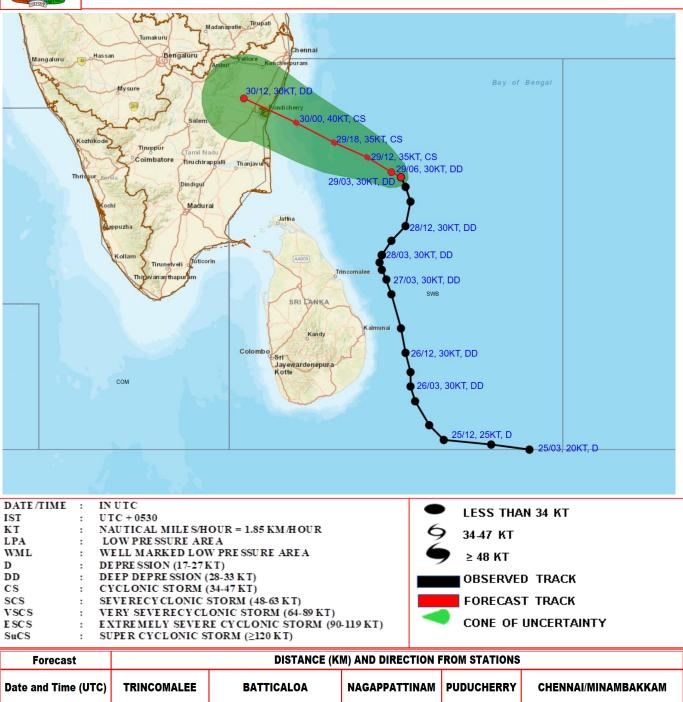


Contact: Cyclone Warning Division, Office of the Director General of Meteorology, India Meteorological Department, Ministry of Earth Sciences, E-mail:cyclonewarningdivision@gmail.com, Website: rsmcnewdelhi.imd.gov.in, Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%, Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Annexure - I



OBSERVED AND FORECAST TRACK ALONG WITH CONE OF UNCERTAINITY OF DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0300 UTC (0830 HRS. IST) OF 29TH NOVEMBER, 2024



Contact: Cyclone Warning Division, Office of the Director General of Meteorology, India Meteorological Department, Ministry of Earth Sciences, E-mail:cyclonewarningdivision@gmail.com, Website: rsmcnewdelhi.imd.gov.in, 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.

300, E

120, NNE

340, ESE

70, ESE

380, SE

150, S

340, NNE

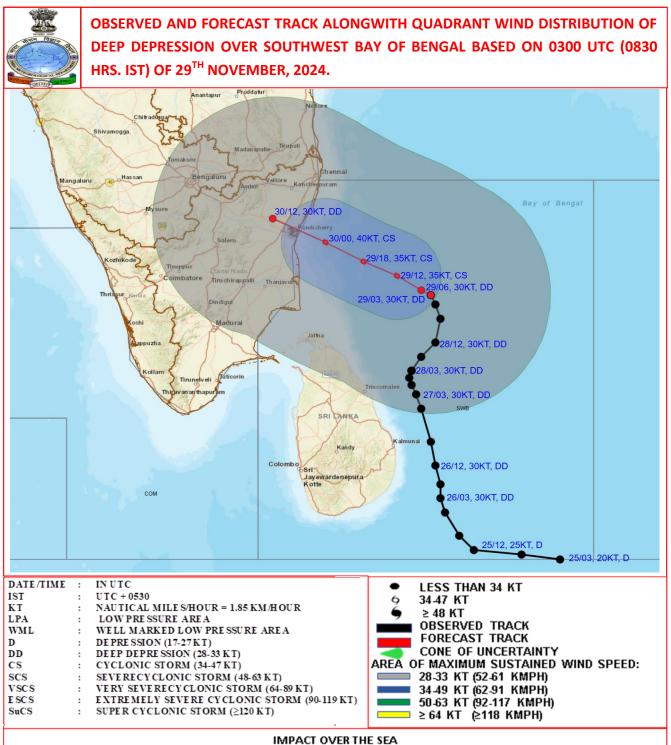
470, NNW

270, NNE

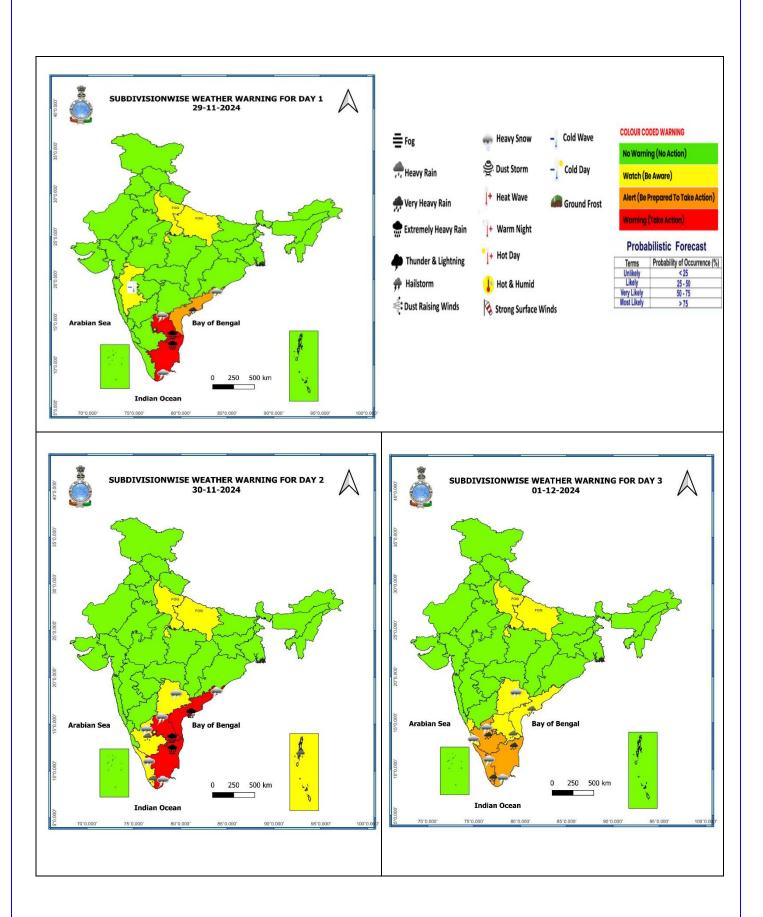
360, NNW

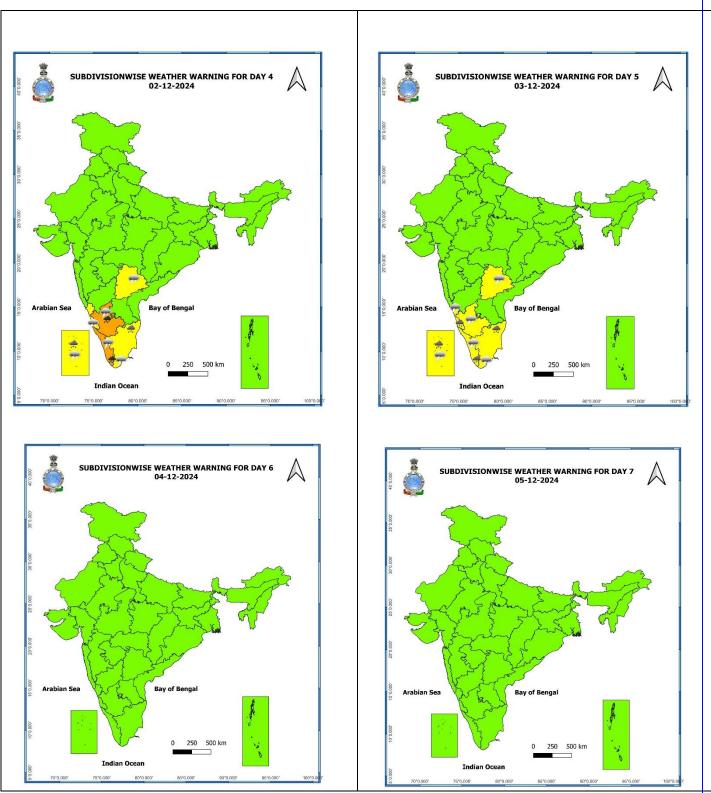
29.11.24/0300

30.11.24/0000



MSW (knot/kr	nph) 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	
<u>≥ 64 (≥118)</u>	Phenomenal	Total suspension of fishing operations	

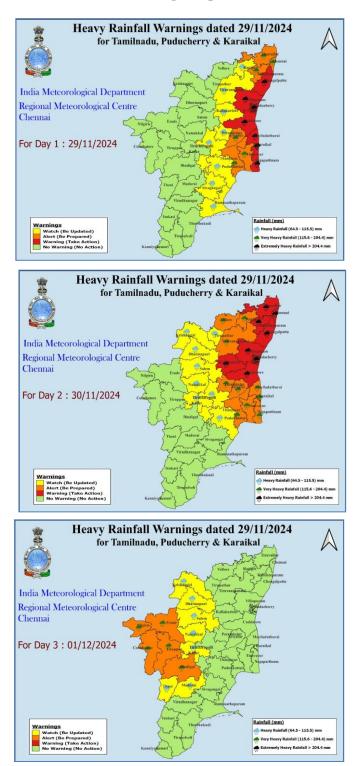




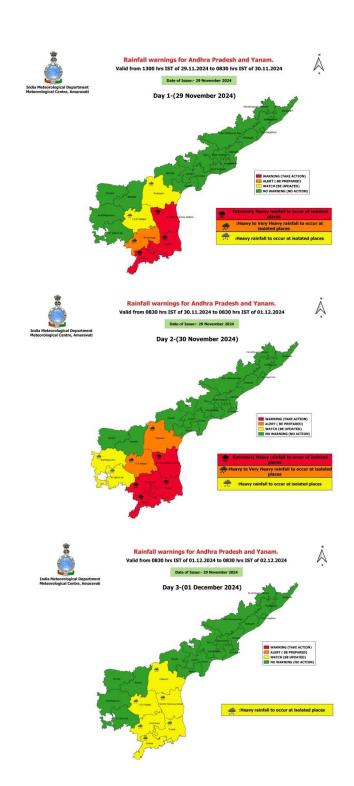
• Action may be taken based on ORANGE AND RED COLOUR warnings.

• Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.

• As the lead period increases forecast accuracy decreases.



District-Wise Warning Graphics of Tamil Nadu & Puducherry



District-Wise Warning Graphics of Andhra Pradesh

Flash Flood Guidance

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 30-11-2024:

Moderate to high flash flood risk likely over few watersheds & neighbourhoods of following Meteorological subdivision in next 24 hours.

Coastal Andhra Pradesh – Thirupati and Nellore district **Rayalaseema** – Chittoor, Annamaya and Kadapa district

Tamil Nadu, Puducherry & Karaikal -Chennai, Kanchipuram, Vellupuram, Cuddalore, Vellore, Tiruvannamalai and Tiruvallur districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern as shown in map due to expected rainfall occurrence in next 24 hours.

