

India Meteorological Department (Ministry of Earth Sciences)

NATIONAL BULLETIN NO. 21 (BOB/07/2024)

TIME OF ISSUE: 1245 HOURS IST

DATED: 29.11.2024

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) H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147) **DIRECTOR GENERAL, DOORDARSHAN (23385843)** DIRECTOR GENERAL, AIR (23421105, 23421219) PIB MOES (FAX NO. 23389042) UNI (FAX NO. 23355841) D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260) DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503) CHIEF SECRETARY, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192-232656) CHIEF SECRETARY, TAMIL NADU (FAX NO. 044-25672304) CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029) CHIEF SECRETARY, PUDUCHERRY (FAX NO. 0413-2334145) CHIEF SECRETARY, ODISHA (FAX NO. 0674-2536660)

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

The Deep Depression over Southwest Bay of Bengal moved north-northwestwards with a speed of 8 Kmph during past 6 hours 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.

Position Maximum sustained surface Category of cyclonic Date/ Time (IST) (Lat. ⁰N/ long. ⁰E) wind speed (Kmph) disturbance 29.11.24/0830 55-65 gusting to 75 Deep Depression 10.6/82.6 Deep Depression 29.11.24/1130 10.7/82.4 55-65 gusting to 75 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 Cyclonic Storm 11.7/80.4 70-80 gusting to 90 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 29th November; heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places over north Tamil Nadu – Puducherry on 30th November; heavy to very heavy rainfall at isolated places over interior Tamil Nadu on 01st December, and heavy rainfall at isolated places over Tamil Nadu on 02nd and 03rd 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 30th November, and heavy rainfall at isolated places on 01st 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 29th & 30th November; heavy rainfall at isolated places on 01st December.

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

Kerala: Light to moderate rainfall at many places with isolated heavy rainfall is likely on 30th November, heavy to very heavy rainfall at isolated places on 01st & 2nd 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

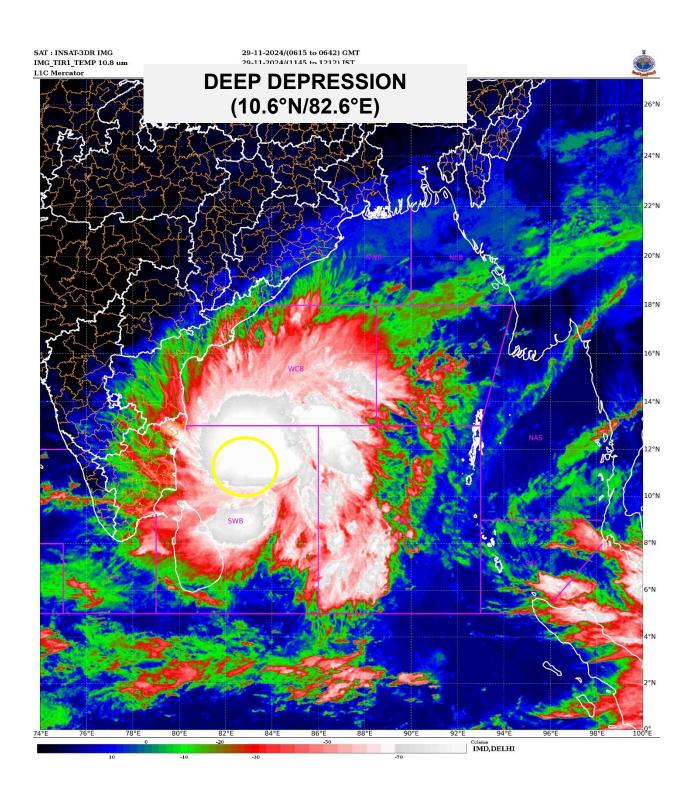
- Total suspension of fishing operations.
- Fishermen are advised not venture into southwest Bay of Bengal adjoining areas of westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu-Puducherry, South Andhra Pradesh and East Sri Lanka coasts till 30th November evening.
- Fishermen out at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

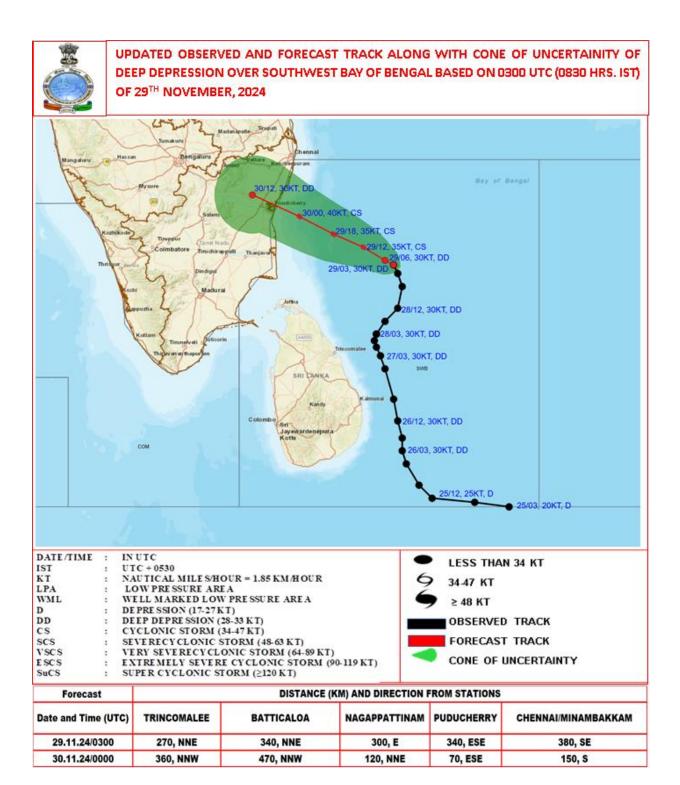
(viii) Agromet advisories [over coastal districts of Tamil Nadu – Puducherry and adjoining south Andhra Pradesh]

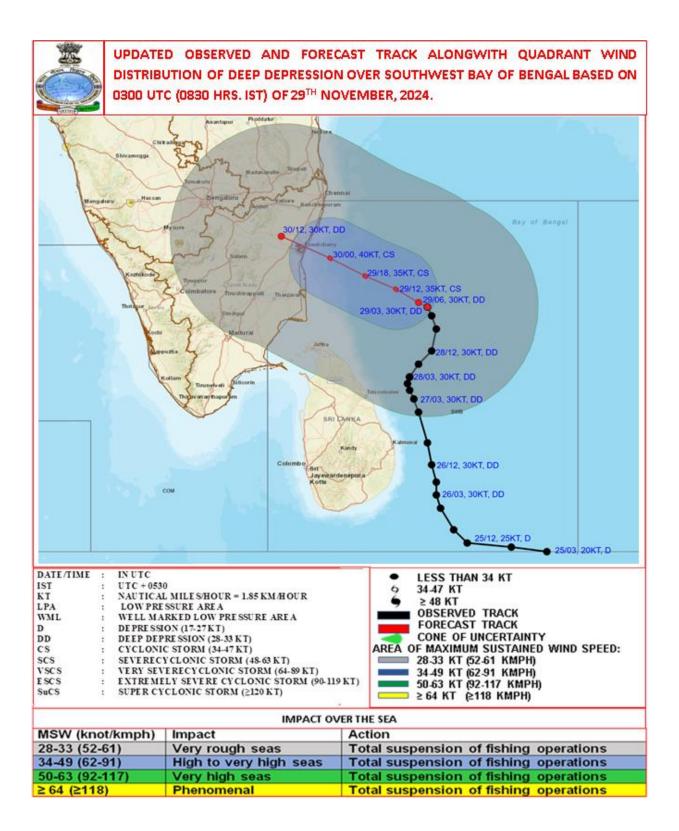
Provide adequate drainage facilities for the removal of excess water from rice, cotton, sugarcane, turmeric and vegetable fields, coconut and banana orchards. Provide mechanical support to banana plants to prevent lodging.

- 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.

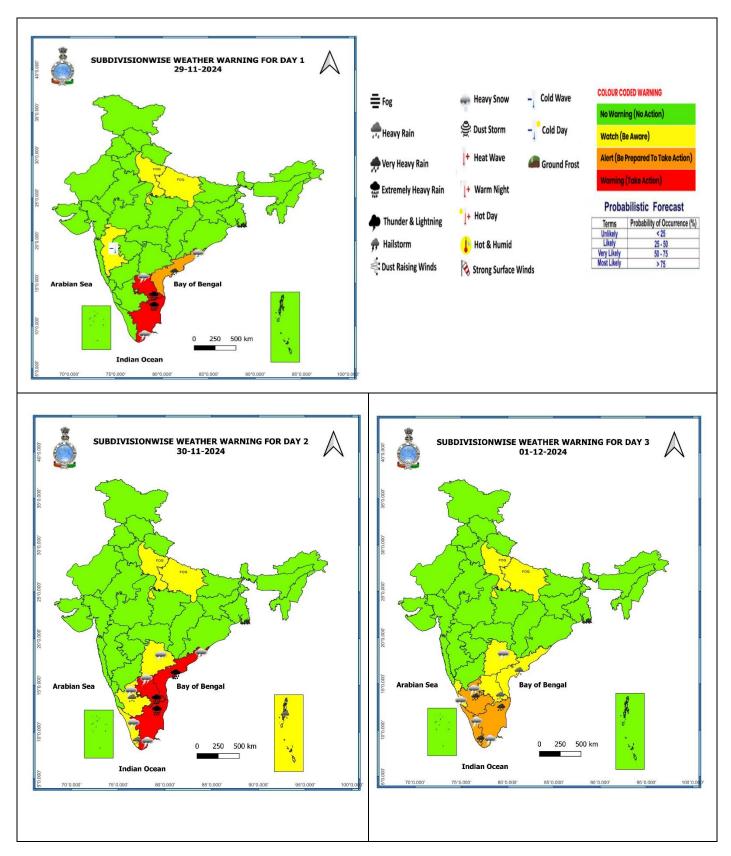
Next bulletin will be issued at 1430 hours IST of 29th November, 2024.

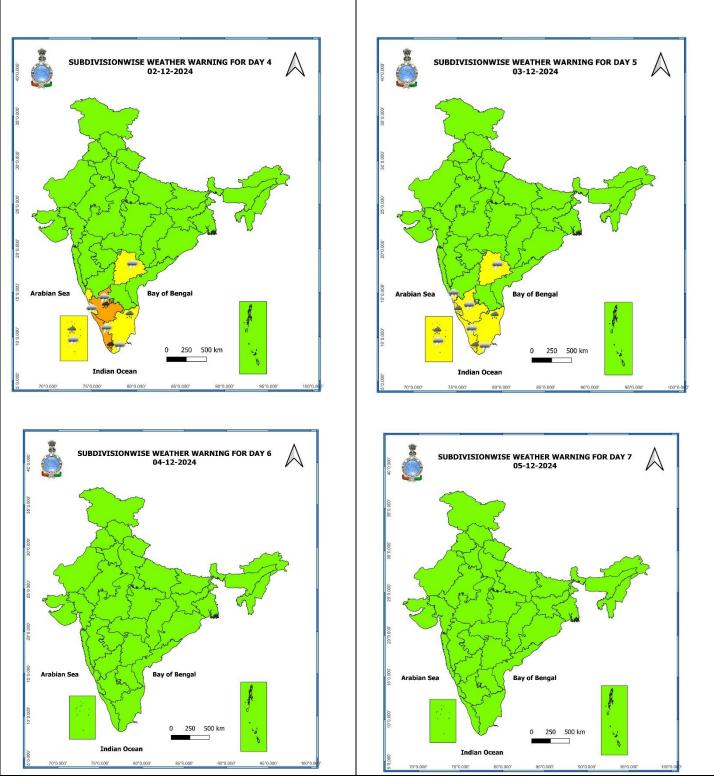




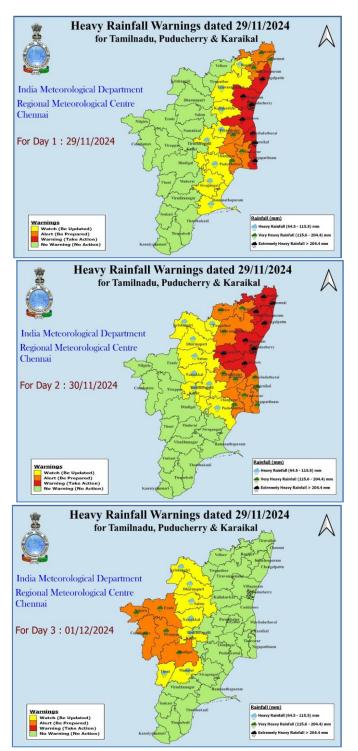


Weather Warning Graphics

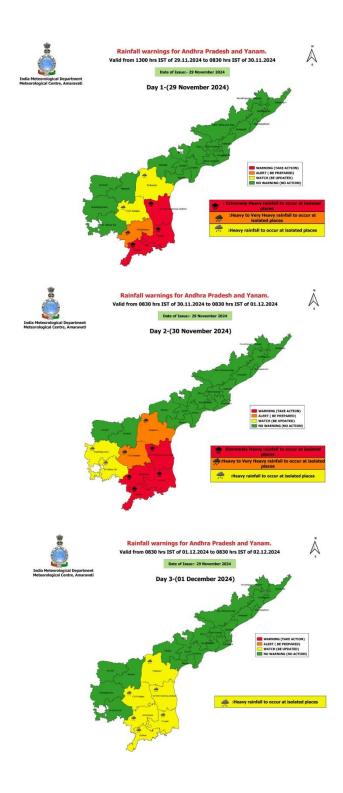




- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.



District-Wise Warning Graphics of Tamil Nadu & Puducherry



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.

