

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

NATIONAL BULLETIN NO. 16 (BOB/07/2024)

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FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

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### Sub: Deep depression over Southwest Bay of Bengal

The Deep Depression over Southwest Bay of Bengal remained practically stationary during past 06 hours and lay centred at 0830 hours IST of today, the 28th November 2024 over the same region near latitude 9.1°N and longitude 82.1°E, about 110 km east-northeast of Trincomalee, 310 km southeast of Nagappattinam, 410 km southeast of Puducherry and 480 km south-southeast of Chennai.

It is very likely to move nearly north-northwestwards skirting Sri Lanka coast during next 12 hours. Thereafter, it will continue to move north-northwestwards and cross north Tamil Nadu-Puducherry coasts between Karaikal and Mahabalipuram around morning of 30th November as a deep depression with a wind speed of 50-60 kmph gusting to 70 kmph.

There is a possibility of marginal intensification of the deep depression into a Cyclonic Storm with wind speed 65-75 kmph gusting to 85 kmph over southwest Bay of Bengal during the evening of 28th November to morning of 29th November 2024.

The system is being tracked by DWR Karaikal. A continuous watch is being maintained for the movement and intensification of system.

Forecast track and intensity are given in the following table:

| Date/         |   | Maximum sustained surface | Category of cyclonic |  |
|---------------|---|---------------------------|----------------------|--|
| Time (IST)    | (Lat. <sup>0</sup> N/ long. <sup>0</sup> E) | wind speed (Kmph)         | disturbance          |  |
| 28.11.24/0830 | 9.1/82.1                                    | 55-65 gusting to 75       | Deep Depression      |  |
| 28.11.24/1130 | 9.6/82.0                                    | 55-65 gusting to 75       | Deep Depression      |  |
| 28.11.24/1730 | 10.0/81.8                                   | 60-70 gusting to 80       | Cyclonic Storm       |  |
| 28.11.24/2330 | 10.4/81.6                                   | 65-75 gusting to 85       | Cyclonic Storm       |  |
| 29.11.24/0530 | 10.7/81.3                                   | 60-70 gusting to 80       | Cyclonic Storm       |  |
| 29.11.24/1730 | 11.3/80.7                                   | 55-65 gusting to 75       | Deep Depression      |  |
| 30.11.24/0530 | 11.7/80.1                                   | 50-60 gusting to 70       | Deep Depression      |  |
| 30.11.24/1730 | 12.1/79.5                                   | 40-50 gusting to 60       | Depression           |  |

### Warnings:

### (i) Rainfall Warning:

**Tamil Nadu & Puducherry:** Light to moderate rainfall at many places with Heavy rainfall at isolated places is very likely over North coastal Tamil Nadu-Puducherry on 28<sup>th</sup> November and heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places is likely over north Tamil Nadu – Puducherry on 29<sup>th</sup> and isolated heavy to very heavy rainfall on 30<sup>th</sup> November & 1<sup>st</sup> 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 29<sup>th</sup> to 30<sup>th</sup> November; extremely heavy rainfall at isolated places on 29<sup>th</sup> November.

**Rayalaseema:** Light to moderate rainfall at many places with heavy to very heavy rainfall at isolated places is likely on 29<sup>th</sup> & 30<sup>th</sup> November; extremely heavy rainfall at isolated places on 29<sup>th</sup> November. **South interior Karnataka:** Light to moderate rainfall at many places with isolated heavy rainfall at isolated places is likely on 29<sup>th</sup>, heavy to very heavy rainfall at isolated places on 30<sup>th</sup> November and 1<sup>st</sup> December and heavy rainfall at isolated places on 2<sup>nd</sup> December.

**Kerala:** Light to moderate rainfall at many places with heavy rainfall at isolated places is likely on 29<sup>th</sup> November and heavy to very heavy rainfall at isolated places on 30<sup>th</sup> November & 1<sup>st</sup> December.

### (ii) Wind warning:

- Southwest Bay of Bengal: Squally wind speed reaching 55-65 kmph gusting to 75 kmph is very likely to prevail over southwest Bay of Bengal till 30<sup>th</sup> forenoon. There could be increase in wind speed becoming gale wind speed reaching 65-75 kmph gusting to 85 kmph over this region during evening of 28<sup>th</sup> November till morning of 29<sup>th</sup> November.
- Adjoining areas of westcentral Bay of Bengal: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing over adjoining areas of westcentral Bay of Bengal. It is likely to increase becoming 50-60 kmph gusting to 70 kmph from 29<sup>th</sup> evening till 30<sup>th</sup> November afternoon.
- Along & off North Tamil Nadu Puducherry and adjoining South Andhra Pradesh coasts: Squally wind speed reaching 45-55 kmph gusting to 65 kmph is prevailing along & off North Tamil Nadu - Puducherry and adjoining South Andhra Pradesh coasts. It is likely to increase becoming 50-60 kmph gusting to 70 kmph from 29<sup>th</sup> evening till 30<sup>th</sup> November afternoon.
- 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 29<sup>th</sup> morning. It would decrease gradually thereafter becoming 45-55 kmph gusting to 65 kmph by 30<sup>th</sup> November morning and further decrease thereafter.
- Along & off South Tamil Nadu coast and Gulf of Mannar: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail till 29<sup>th</sup> evening. It would increase thereafter, becoming 45-55 kmph gusting to 65 kmph till 30<sup>th</sup> morning 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 30<sup>th</sup> November evening.
- The Sea condition could be very rough to high over Southwest Bay of Bengal during evening of 28<sup>th</sup> to morning of 29<sup>th</sup> November.

### (iv) Fisherman warning:

- 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 30<sup>th</sup> November evening.
- Fishermen out at sea are advised to return to coast.

# (v) Impact Expected [over Tamil Nadu – Puducherry, south Andhra Pradesh, south interior Karnataka and Kerala]

- Localized Flooding of roads, water logging in low lying areas.
- Occasional reduction in visibility due to heavy rainfall in some areas.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time in some areas.
- Minor damage to kutcha roads.
- Damage to horticulture and standing crops in some areas due to inundation.

### (vi) Action Suggested

- 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 30<sup>th</sup> November evening.
- Fishermen out at sea are advised to return to coast.
- 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.

# (vii) Agromet advisories [over Tamil Nadu – Puducherry and Andhra Pradesh, south interior Karnataka and Kerala]

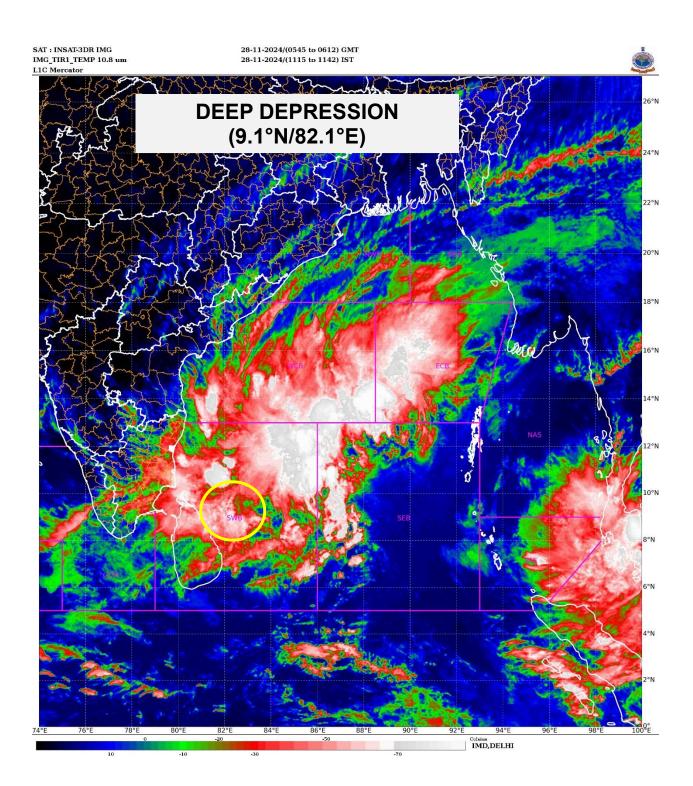
Provide adequate drainage facilities for the removal of excess water from rice, cotton, sugarcane, turmeric and vegetable fields, coconut and banana orchards. Provide mechanical support to banana plants to prevent lodging.

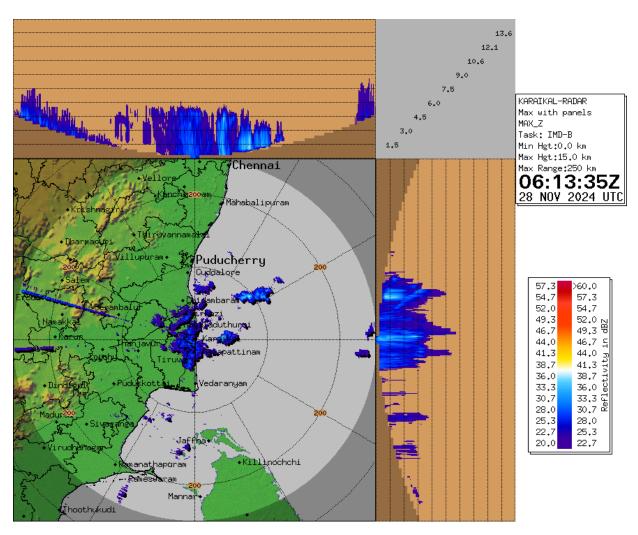
- Make arrangements to drain out excess water from the standing crop fields and fruit orchards in Kerala and Coastal Andhra Pradesh.
- Harvest the matured crops and keep it in safe place.
- Provide mechanical support to horticultural crops and staking to vegetables.

#### Next bulletin will be issued at 1430 hours IST of today, the 28<sup>th</sup> November, 2024.

Copy to: ACWC Kolkata/ACWC Chennai/CWC Thiruvananthapuram/CWC, Vishakhapatnam

(Dr. Ananda Kumar Das) Scientist F, RSMC, New Delhi Bhubaneswar/MC, Amaravati/MC,

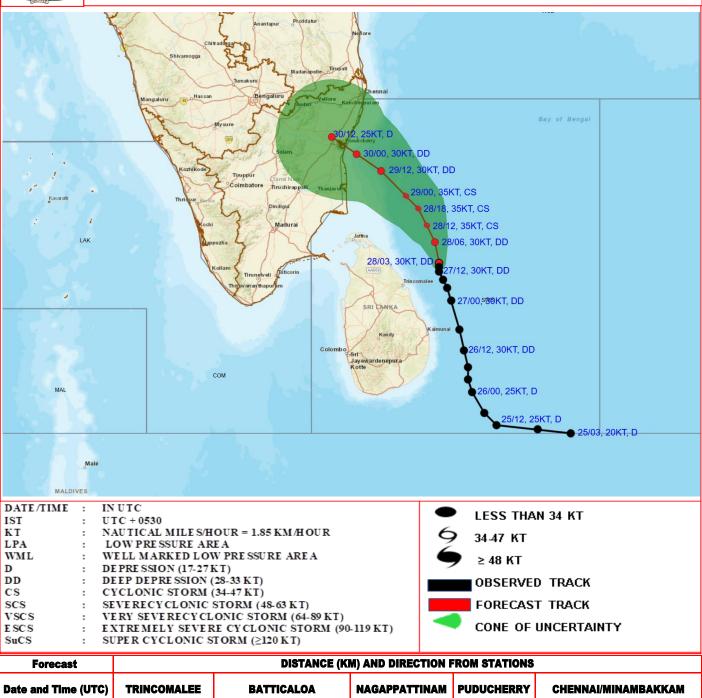




## Doppler Weather Radar Observation (Max Z) at Karaikal



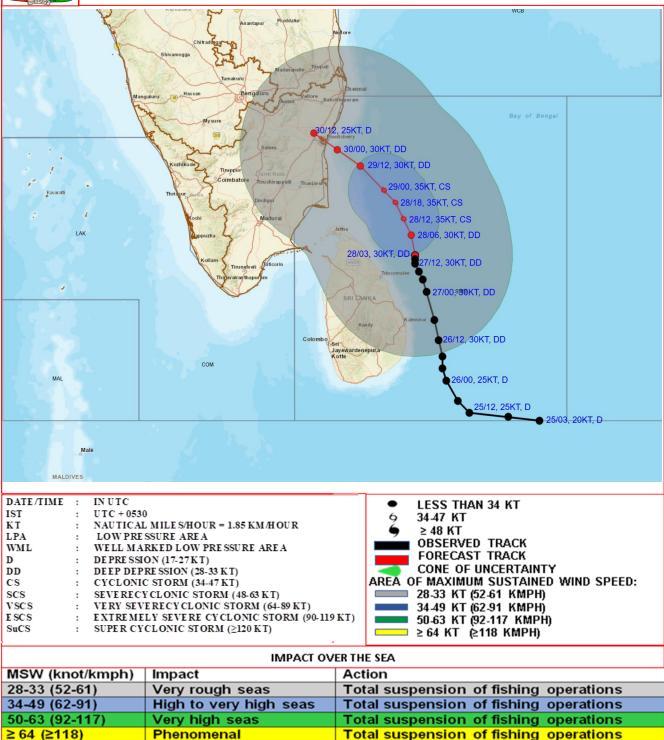
OBSERVED AND FORECAST TRACK ALONG WITH CONE OF UNCERTAINITY OF DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0300 UTC (0830 HRS. IST) OF 28<sup>TH</sup> NOVEMBER, 2024



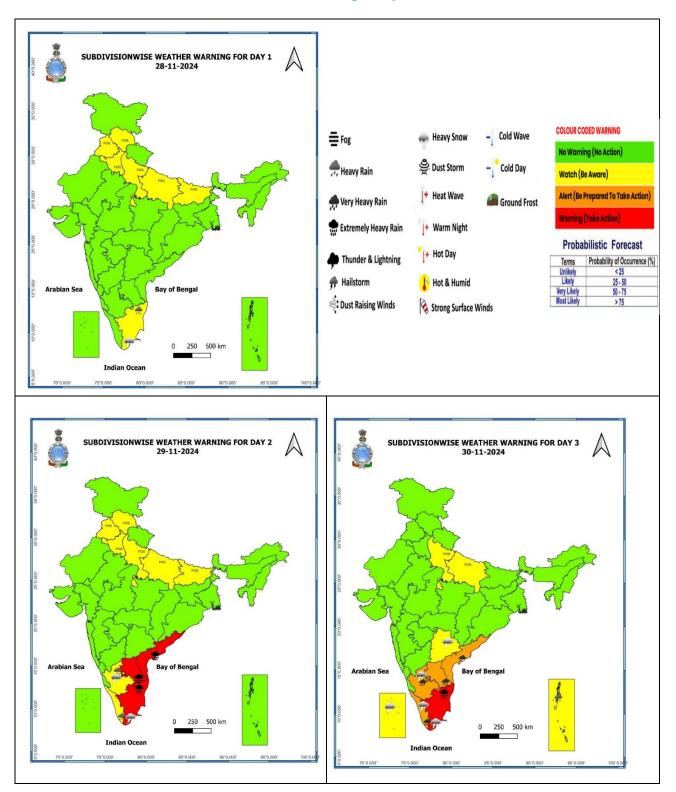
| Date and Time (UTC) | TRINCOMALEE | BATTICALOA | NAGAPPATTINAM | PUDUCHERRY | CHENNAI/MINAMBAKKAM |
|---------------------|-------------|------------|---------------|------------|---------------------|
| 28.11.24/0300       | 110, ENE    | 160, NNE   | 310, SE       | 410, SE    | 480, SSE            |
| 29.11.24/0000       | 240, N      | 330, N     | 160, E        | 210, SE    | 280, SSE            |
| 30.11.24/0000       | 370, NNW    | 480, NNW   | 110, NNE      | 40, SE     | 140, S              |

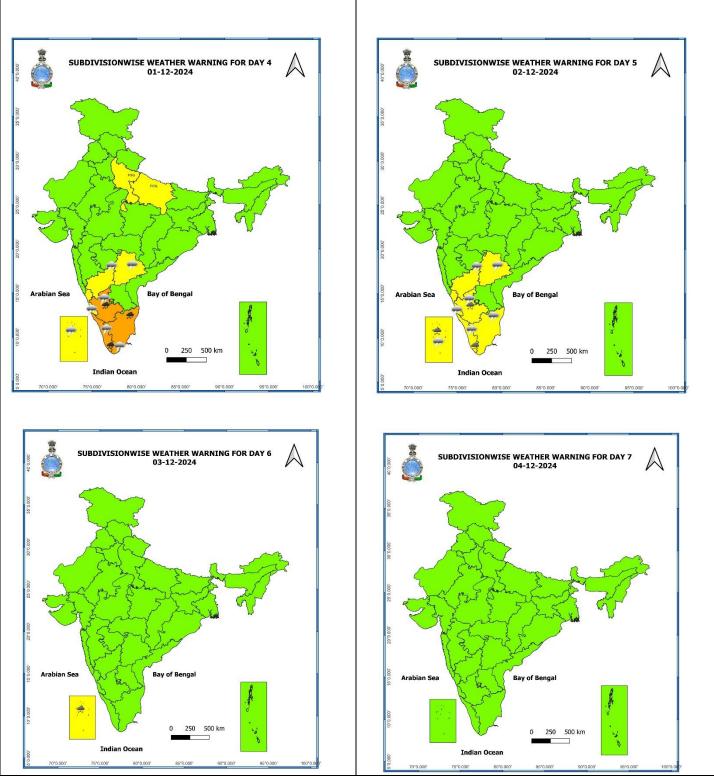


OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 0300 UTC (0830 HRS. IST) OF 28<sup>TH</sup> NOVEMBER, 2024.



# 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.

### Flash Flood Guidance

