



2025-11-22

Time of Issue: 13:12:00 hours IST  
(Mid-Day)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Forecast and Warnings:

- Light to moderate rainfall/thunderstorm at many/some places with **isolated heavy rainfall** very likely over Tamil Nadu during 22<sup>nd</sup> -25<sup>th</sup>; over Kerala & Mahe during 22<sup>nd</sup>– 26<sup>th</sup>; over Lakshadweep on 22<sup>nd</sup> & 23<sup>rd</sup>; over Rayalaseema on 22<sup>nd</sup> and over Andaman & Nicobar Islands on 22<sup>nd</sup> and 23<sup>rd</sup> and 26<sup>th</sup> & 27<sup>th</sup> November; with isolated **very Heavy rainfall** over Andaman & Nicobar Islands on 24<sup>th</sup> & 25<sup>th</sup> November.
- Thunderstorm with lightning very likely over Tamil Nadu, Coastal Andhra Pradesh & Yanam and Rayalaseema during 22<sup>nd</sup>-24<sup>th</sup>, Kerala & Mahe and Lakshadweep during 22<sup>nd</sup> -26<sup>th</sup>; Coastal Karnataka and South Interior Karnataka on 22<sup>nd</sup> November and over Andaman & Nicobar Islands with gusty wind speeds reaching 40-50 kmph during the week.

#### Forecast of temperature and cold wave & cold day warnings:

- Gradual rise in minimum temperature likely by 2<sup>o</sup> C over West & Central India during next 2 days and no large change thereafter.
- Gradual fall in minimum temperature likely by 2-3<sup>o</sup> C over northwest India during next 4 days and no large change thereafter.
- Gradual fall in minimum temperature likely by 2-3<sup>o</sup> C over northeast India during next 2 days and no large change thereafter.
- No large change in the minimum temperature likely over rest part of the country.
- **Shallow to moderate fog** over northeast India & Uttar Pradesh during next 5 days.

**\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"**

Forecast and warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

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#### Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at many places** over Rayalaseema; **at isolated places** over Coastal Andhra Pradesh & Yanam; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Tamil Nadu:** Oothu (dist Tirunelveli) 12, Nalumukku (dist Tirunelveli) 11, Kakkachi (dist Tirunelveli), Manjulai (dist Tirunelveli) 9 each, Mylaudy (dist Kanyakumari) 7; **Rayalaseema:** Kodur (dist Ysr District), Penagaluru (dist Annamayya District) 9 Each; **Kerala:** Neyyattinkara (Trivandrum district) 8.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Very Heavy** at isolated places over Tamil Nadu; **Heavy rain** at isolated places over Rayalaseema, Kerala & Mahe.

❖ **Fog Condition Observed (at 0830 hours of today): Dense fog conditions:** at isolated places over Odisha and Tamilnadu Puducherry & Karaikal; **Moderate fog conditions:** at isolated places over West Uttar Pradesh, Punjab and Himachal Pradesh **Shallow fog conditions:** at a few places over East Uttar Pradesh and Haryana Chandigarh & Delhi, at isolated places over Assam & Meghalaya, Punjab, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Chhattisgarh and Rayalaseema.

❖ **Visibility reported (at 0830 hours of today): Odisha:** Sundargarh (dist Sundargarh), Bolangir, Titlagarh (dist Balangir), Koraput (dist Koraput), Phulbani (dist Kandhamal), Chhatrapur (dist Ganjam), Rayagada-obs (dist Rayagada), Boudh (dist Boudh), Malkangiri-obs (dist Malkangiri), Paralakhemundi-obs (dist Gajapati) Each, Rourkela (dist Sundargarh) 50.0; Gangetic West Bengal: Basirhat (dist North 24 Parganas), Suri (dist Birbhum) Each; West Uttar Pradesh: Bulandshahr (dist Bulandshahr), Aligarh (dist Aligarh) 200.0; Tamilnadu Puducherry & Karaikal: Kodaikanal (dist Dindigul) 50.0; Himachal Pradesh: Sundernagar (dist Mandi) 200.0; Punjab: Amritsar (rajasansi) AP (dist Amritsar) 200.0, Ludhiana (dist Ludhiana) 500.0; Rayalaseema: Anantapur (dist Anantapuramu) 500.0; East Uttar Pradesh: Lucknow (amausi) AP (dist Lucknow), Varanasi (babatpur) AP (dist Varanasi), Fursatganj (dist Amethi), Allahabad (dist Prayagraj), Kanpur Airforce (dist Kanpur Nagar) 500.0 Each; West Madhya Pradesh: Gwalior (dist Gwalior), Hoshangabad (dist Narmadapuram) 500.0 Each; Haryana Chandigarh & Delhi: New Delhi (safdarjung), New Delhi (palam) AP (dist South West Delhi) 500.0 Each; Chhattisgarh: Ambikapur (dist Surguja) 500.0; East Madhya Pradesh: Satna (dist Satna), Khajuraho (dist Chhatarpur), Rewa (dist Rewa) 500.0 Each; Assam & Meghalaya: Barapani/shillong (dist East Khasi Hills) 500.0; East Rajasthan: Kota AP (dist Kota) 500.0;.

❖ **Minimum Temperature Departures (as on 22-11-2025):** The lowest minimum temperature of 8.2°C is reported at Rahjgarh (West Madhya Pradesh) over the Plains of India.

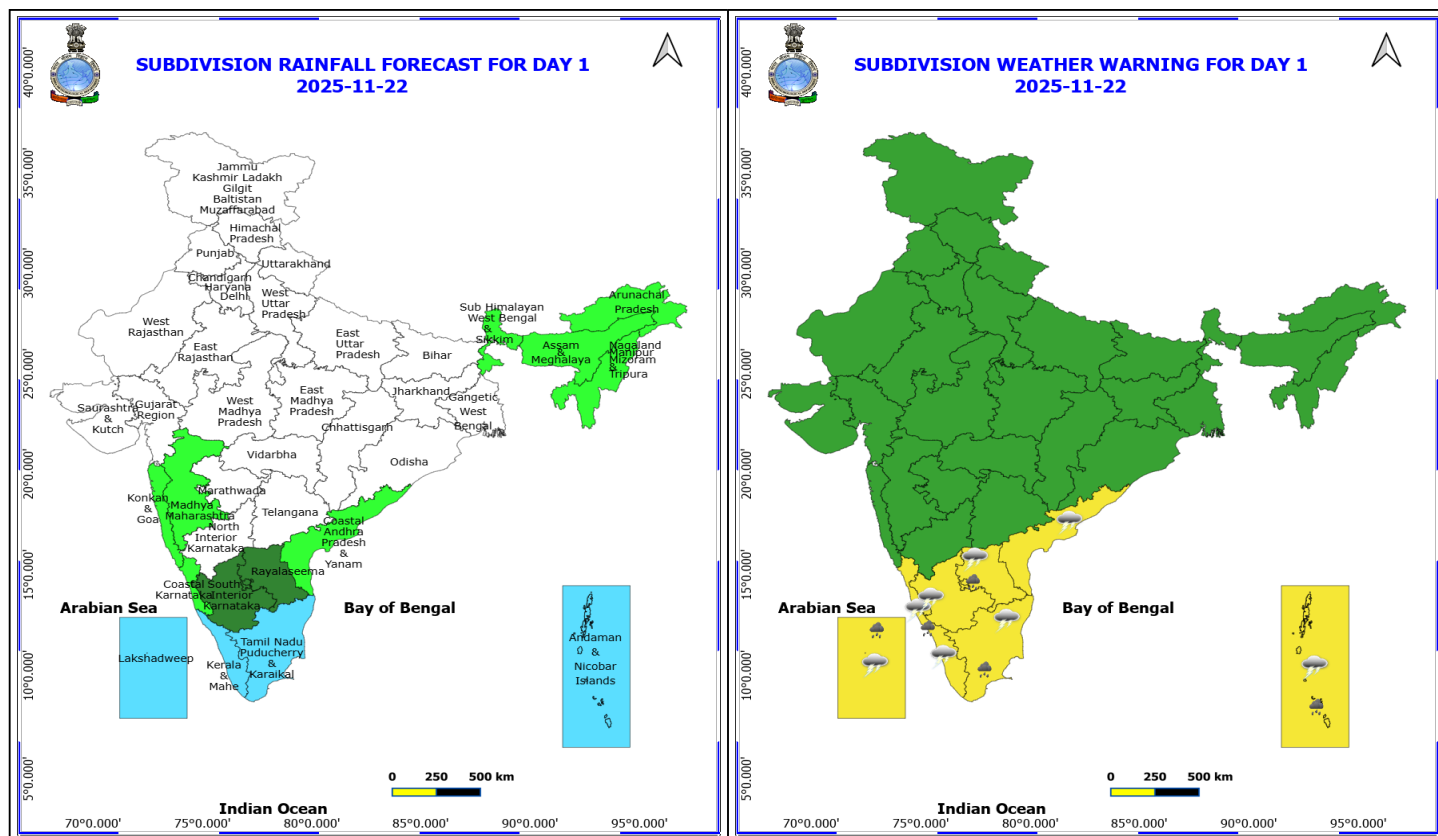
❖ **Maximum Temperature Departures (as on 21-11-2025):** The highest maximum temperature of 36.2°C is reported at KARWAR (KARNATAKA).

#### Meteorological Analysis (Based on 0830 hours IST)

- Under the influence of yesterday's **upper air cyclonic circulation** over central parts of Strait of Malacca, a **Low Pressure area** has formed over Strait of Malacca and adjoining South Andaman Sea at 0830 hours IST of today, the 22<sup>nd</sup> November 2025. It is very likely to move west-northwestwards and intensify into a **depression** over southeast Bay of Bengal around 24<sup>th</sup> November 2025. Continuing to move west-northwestwards, it is very likely to intensify further over southwest Bay of Bengal during subsequent 48 hours.
- The **upper air cyclonic circulation** over east Bangladesh & neighbourhood at 1.5 km above mean sea level persists.
- The **cyclonic circulation** over southeast Arabian Sea extending upto 3.1 km above mean sea level persists.
- An **upper air cyclonic circulation** lies over Comorin area and adjoining Indian equatorial ocean & extends upto 1.5 km above mean sea level.

#### Weather Outlook for subsequent 3 days

- fairly widespread to widespread rainfall activity likely over Tamil Nadu, Kerala and Islands.
- Isolated to Scattered rainfall activity over Coastal Andhra Pradesh, Coastal Karnataka and South Interior Karnataka.



## 22 November (Day 1)

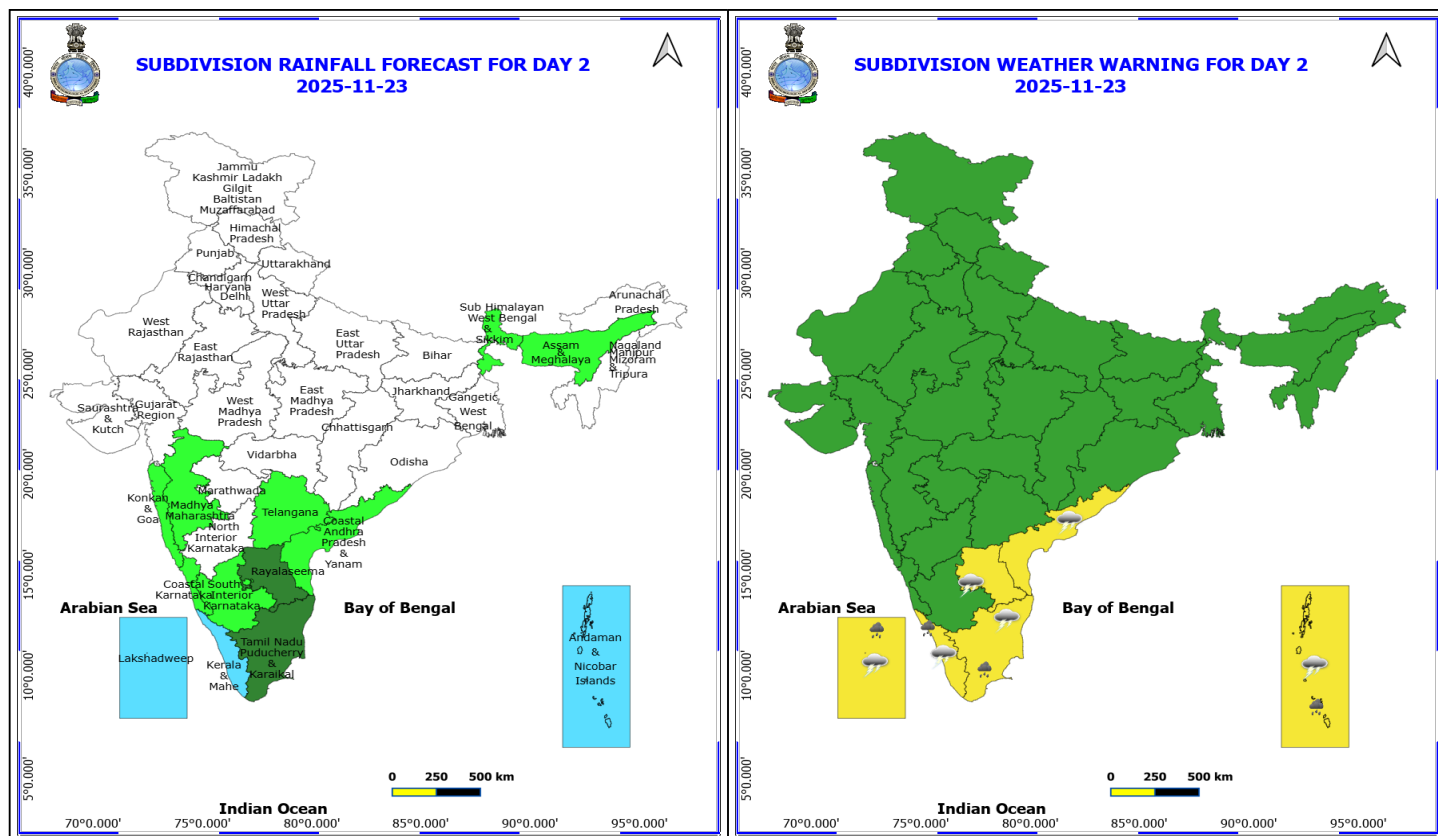
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe, Lakshadweep, Rayalaseema and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Coastal Karnataka, Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, over southeast & adjoining, some parts of southwest Bay of Bengal.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over south Andaman Sea & adjoining southeast Bay of Bengal.

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## 23 November (Day 2)

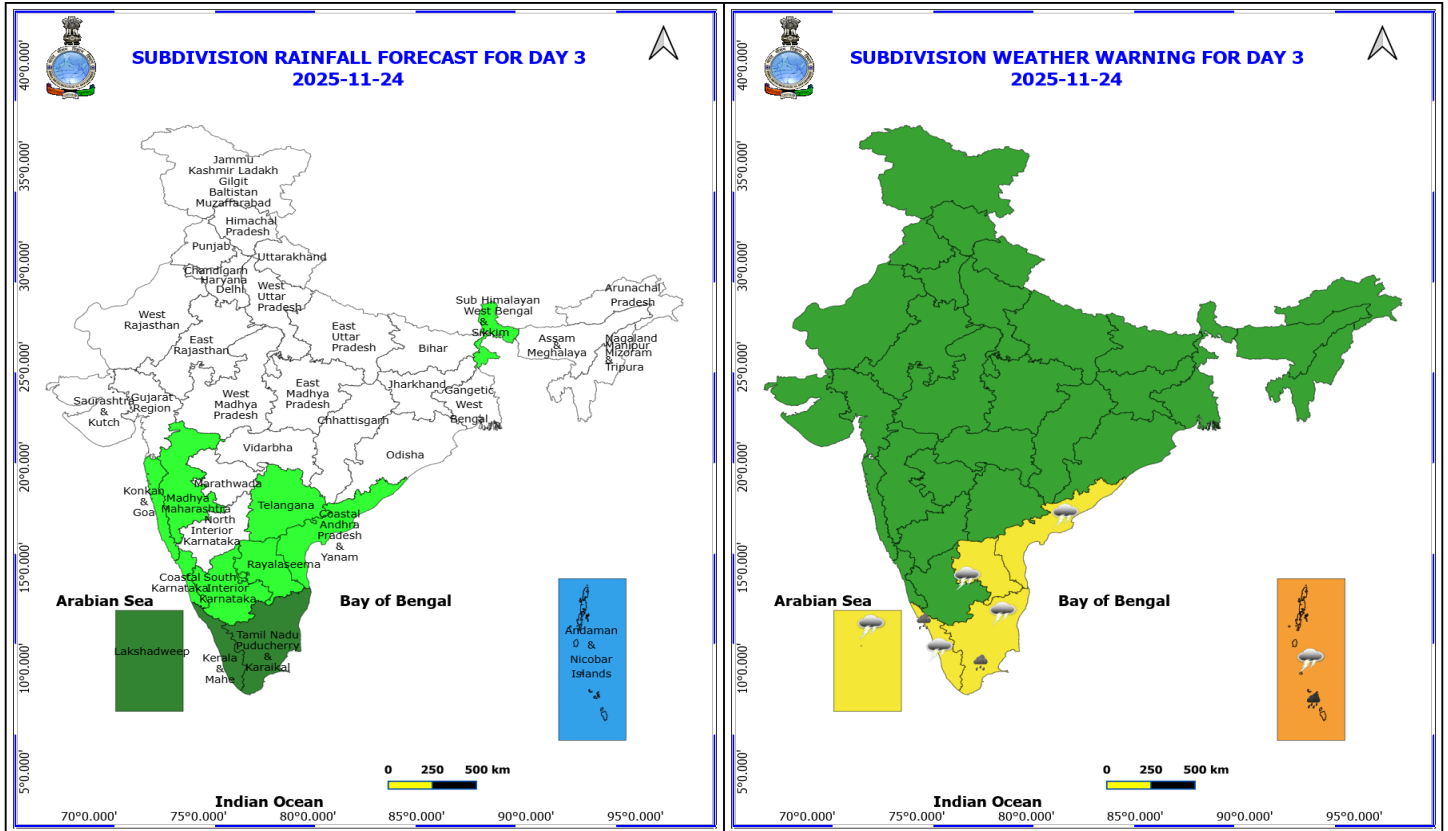
- ❖ **Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, over southeast & adjoining, many parts of southwest Bay of Bengal.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over south Andaman Sea & adjoining, many parts of southeast Bay of Bengal.

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## 24 November (Day 3)

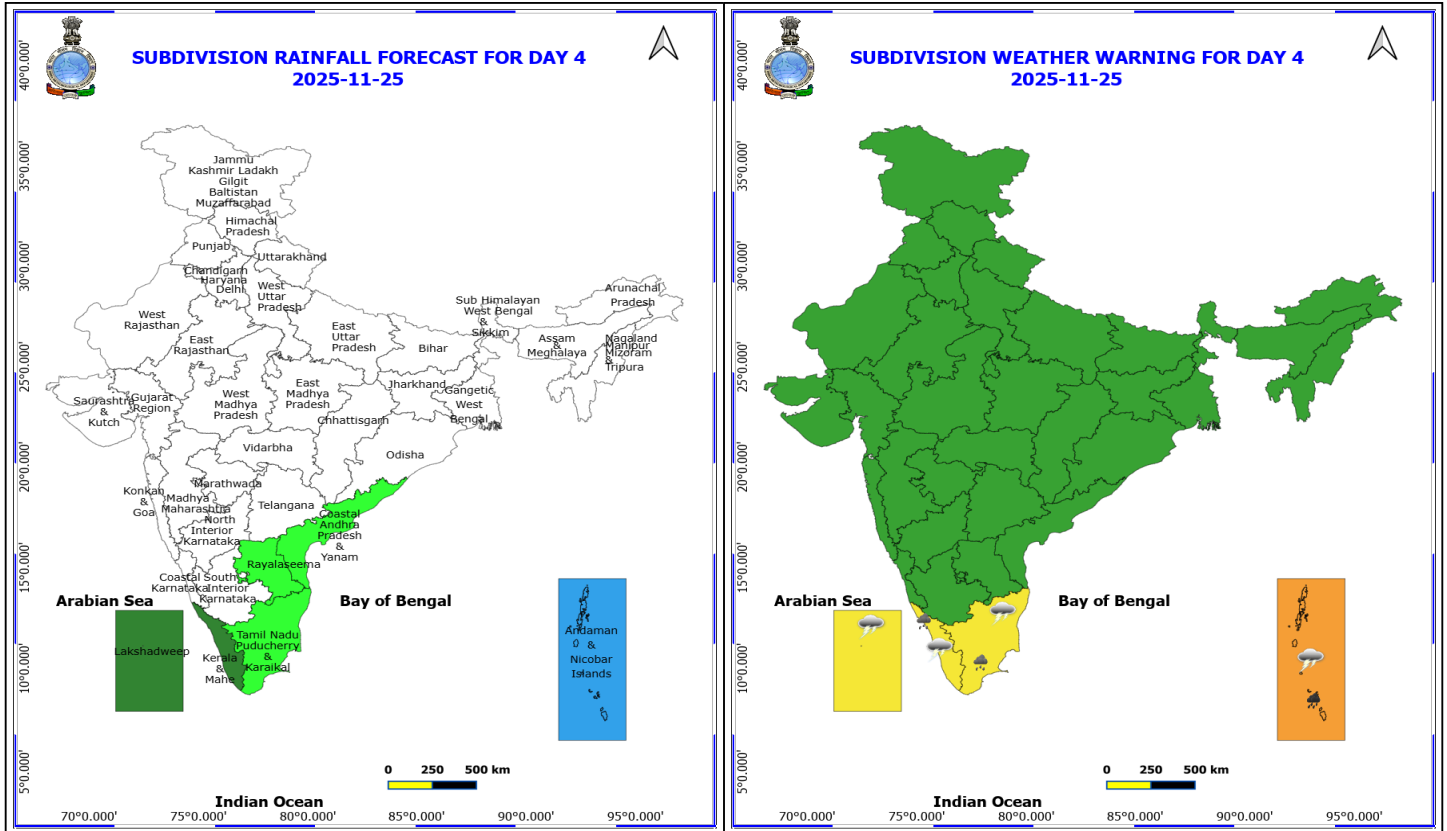
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, Gulf of Mannar & adjoining Comorin area and off north Tamil Nadu coast.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over central parts of south Bay of Bengal.

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## 25 November (Day 4)

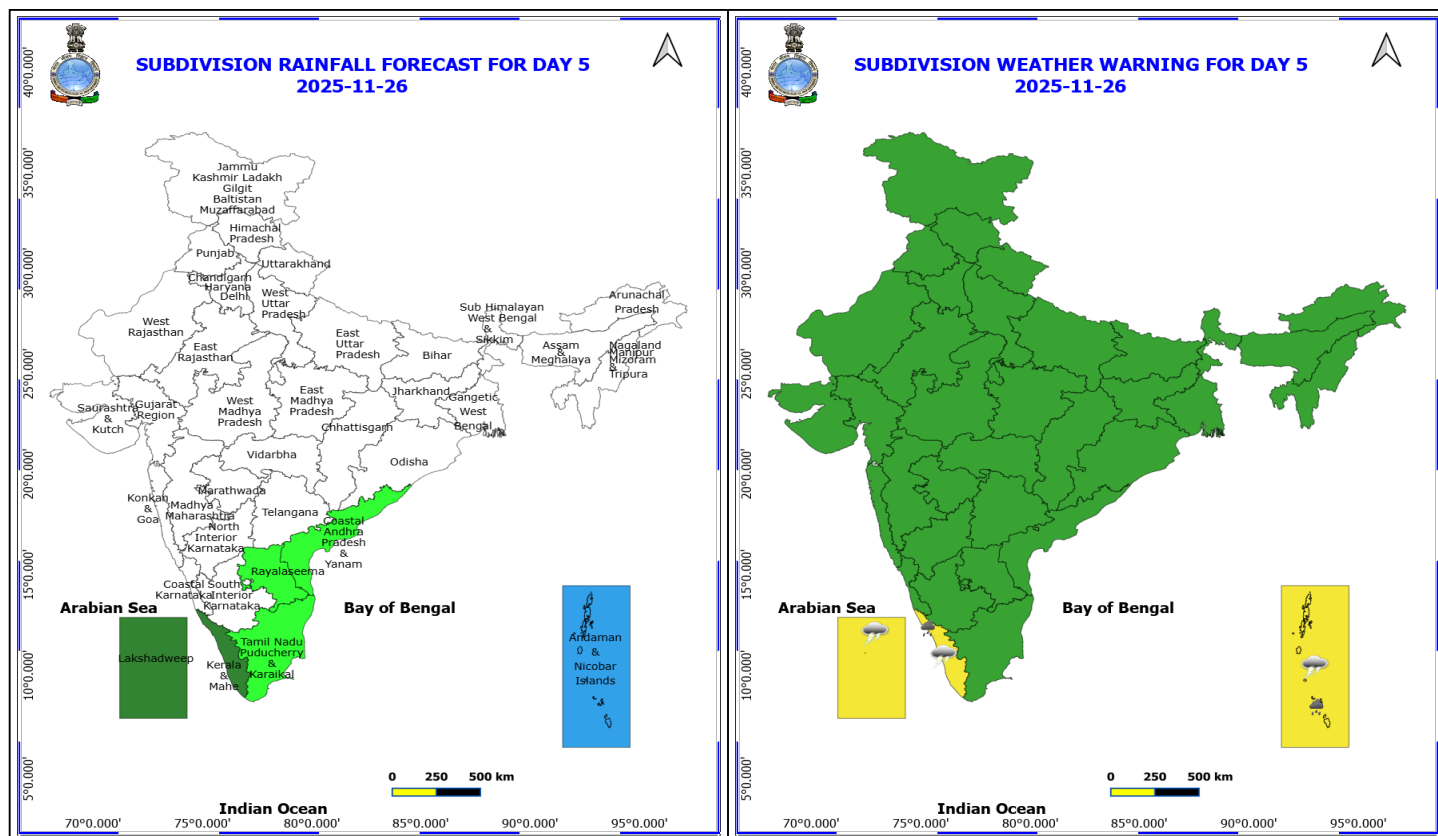
- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Kerala & Mahe, Lakshadweep and Tamil Nadu Puducherry & Karaikal.
- **Squally weather with wind speeds reaching 40 kmph to 50 kmph gusting to 60 kmph** will prevail over Andaman Sea, over south Bay of Bengal & adjoining central Bay of Bengal, Gulf of Mannar & adjoining Comorin area and off north Tamil Nadu coast.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over central parts of south Bay of Bengal.

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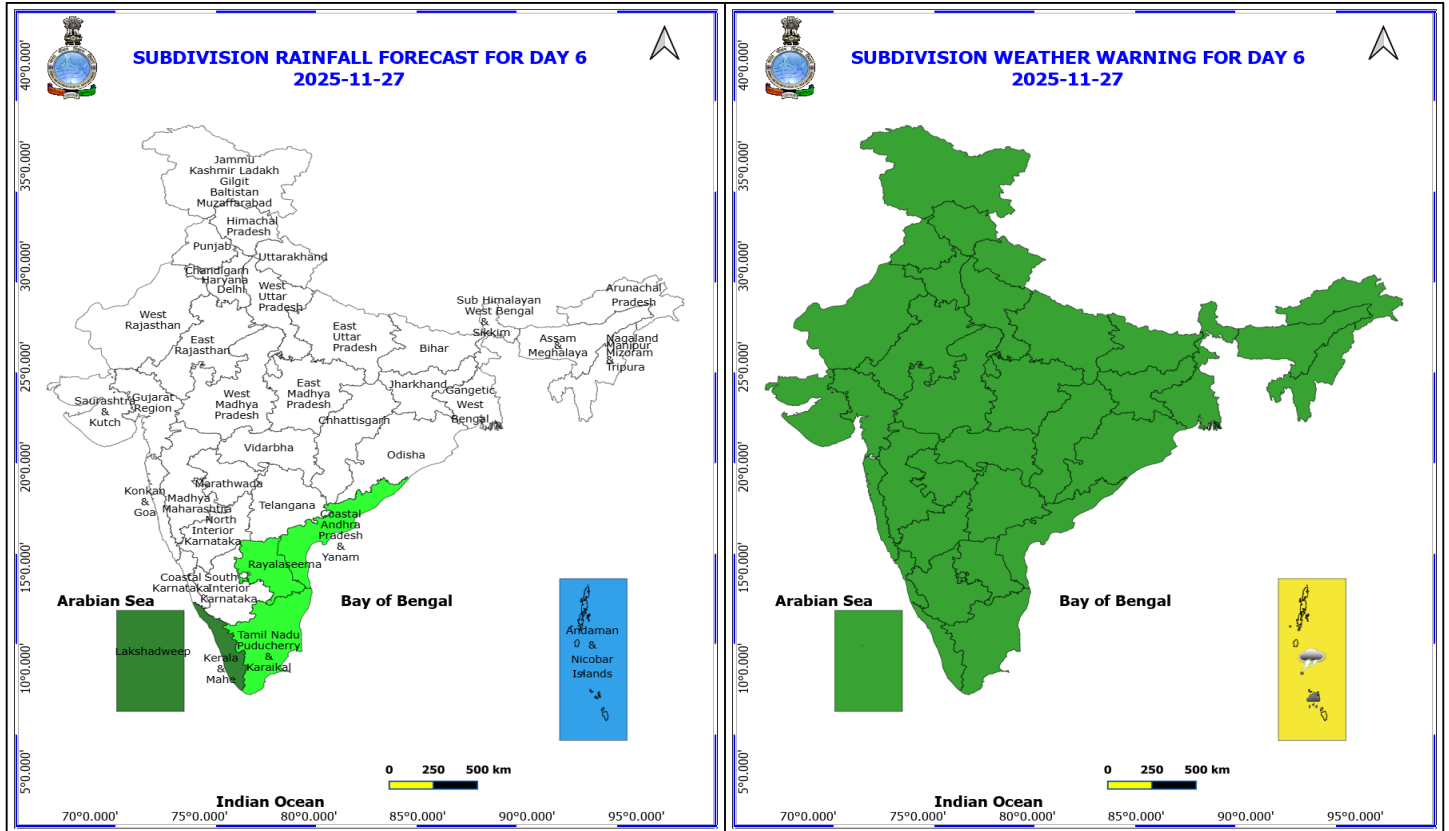
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## 26 November (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Kerala & Mahe and Lakshadweep.

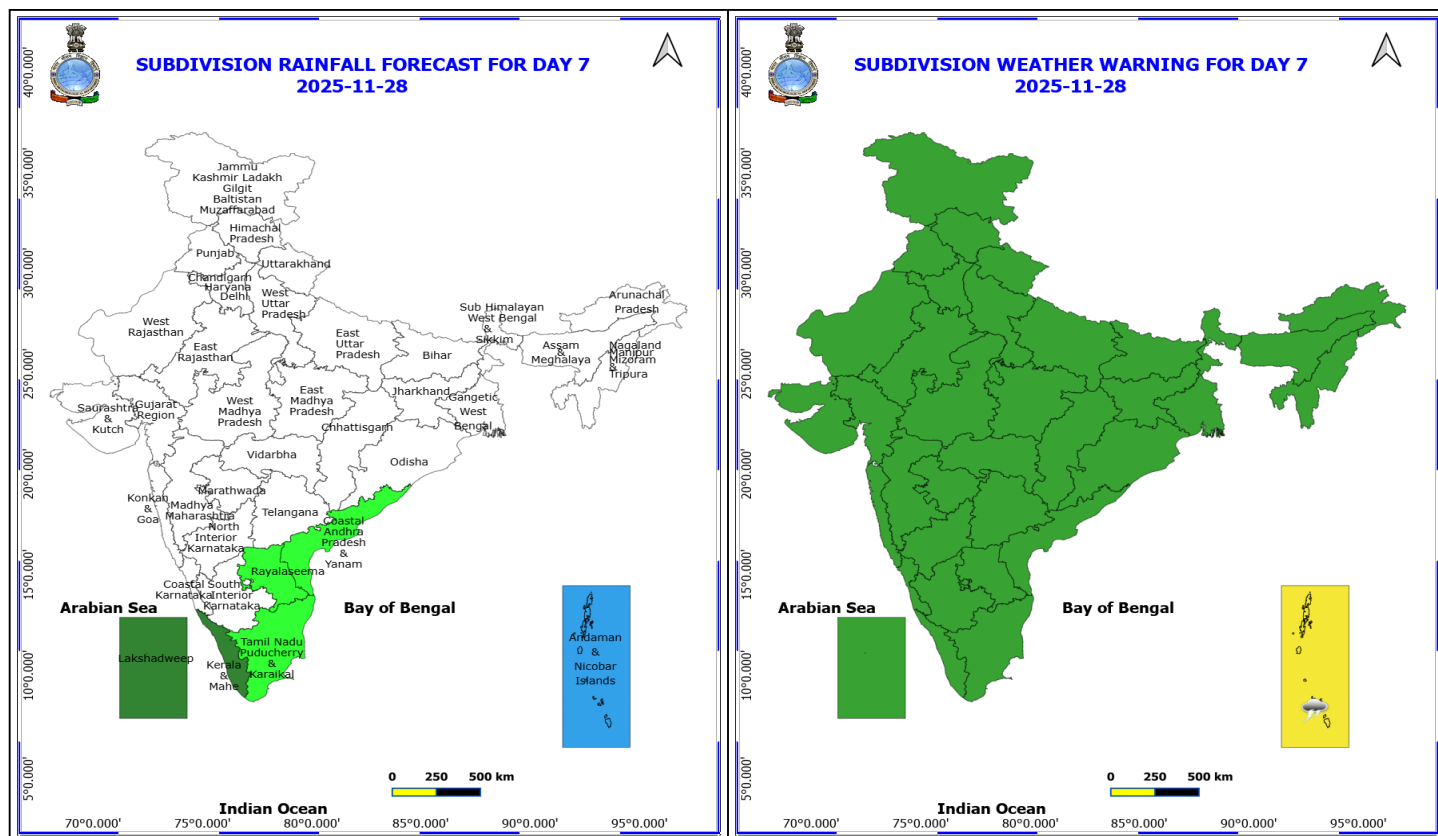
**No Fishermen Warning**



## 27 November (Day 6)

- ❖ **Heavy Rainfall** likely at isolated places over Andaman & Nicobar Islands.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.

**No Fishermen Warning**



## 28 November (Day 7)

❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Andaman & Nicobar Islands.

**No Fishermen Warning**



**Table-1**

## 7 Days Rainfall Forecast

| S.No. | Subdivision                  | 22-<br>Nov | 23-<br>Nov | 24-<br>Nov | 25-<br>Nov | 26-<br>Nov | 27-<br>Nov | 28-<br>Nov |
|-------|------------------------------|------------|------------|------------|------------|------------|------------|------------|
|       |                              | Day 1      | Day 2      | Day 3      | Day 4      | Day 5      | Day 6      | Day 7      |
| 1     | ANDAMAN & NICOBAR ISLANDS    | FWS        | FWS        | WS         | WS         | WS         | WS         | WS         |
| 2     | ARUNACHAL PRADESH            | ISOL       | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 3     | ASSAM & MEHGHALAYA           | ISOL       | ISOL       | DRY        | DRY        | DRY        | DRY        | DRY        |
| 4     | N. M. M. & T.                | ISOL       | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 5     | S.H. WEST BENGAL & SIKKIM    | ISOL       | ISOL       | ISOL       | DRY        | DRY        | DRY        | DRY        |
| 6     | GANGETIC WEST BENGAL         | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 7     | ODISHA                       | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 8     | JHARKHAND                    | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 9     | BIHAR                        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 10    | EAST UTTAR PRADESH           | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 11    | WEST UTTAR PRADESH           | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 12    | UTTARAKHAND                  | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 13    | HARYANA, CHD & DELHI         | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 14    | PUNJAB                       | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 15    | HIMACHAL PRADESH             | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 16    | JAMMU AND KASHMIR AND LADAKH | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 17    | WEST RAJASTHAN               | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 18    | EAST RAJASTHAN               | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 19    | WEST MADHYA PRADESH          | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 20    | EAST MADHYA PRADESH          | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 21    | GUJRAT REGION                | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 22    | SAURASHTRA & KUTCH           | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 23    | KONKAN & GOA                 | ISOL       | ISOL       | ISOL       | DRY        | DRY        | DRY        | DRY        |
| 24    | MADHYA MAHARASHTRA           | ISOL       | ISOL       | ISOL       | DRY        | DRY        | DRY        | DRY        |
| 25    | MARATHWADA                   | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 26    | VIDARBHA                     | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 27    | CHATTISGARH                  | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 28    | COASTAL ANDHRA PRADESH       | ISOL       | ISOL       | ISOL       | ISOL       | ISOL       | ISOL       | ISOL       |
| 29    | TELANGANA                    | DRY        | ISOL       | ISOL       | DRY        | DRY        | DRY        | DRY        |
| 30    | RAYALASEEMA                  | SCT        | SCT        | ISOL       | ISOL       | ISOL       | ISOL       | ISOL       |
| 31    | TAMILNADU & PUDUCHERRY       | FWS        | SCT        | SCT        | ISOL       | ISOL       | ISOL       | ISOL       |
| 32    | COSTAL KARNATAKA             | ISOL       | ISOL       | ISOL       | DRY        | DRY        | DRY        | DRY        |
| 33    | NORTH INTERIOR KARNATAKA     | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        | DRY        |
| 34    | SOUTH INTERIOR KARNATAKA     | SCT        | ISOL       | ISOL       | DRY        | DRY        | DRY        | DRY        |
| 35    | KERALA                       | FWS        | FWS        | SCT        | SCT        | SCT        | SCT        | SCT        |
| 36    | LAKSHDWEAP                   | FWS        | FWS        | SCT        | SCT        | SCT        | SCT        | SCT        |

| Legend | Category                      | %Stations |
|--------|-------------------------------|-----------|
| WS     | Widespread/Most Places        | 76-100    |
| FWS    | Fairly Widespread/Many Places | 51-75     |
| SCT    | Scattered/ A Few Places       | 26-50     |
| ISOL   | Isolated Places               | 1-25      |
| DRY    | No Rain                       | 0         |

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Fig. 1: Maximum Temperatures Dated 2025-11-21

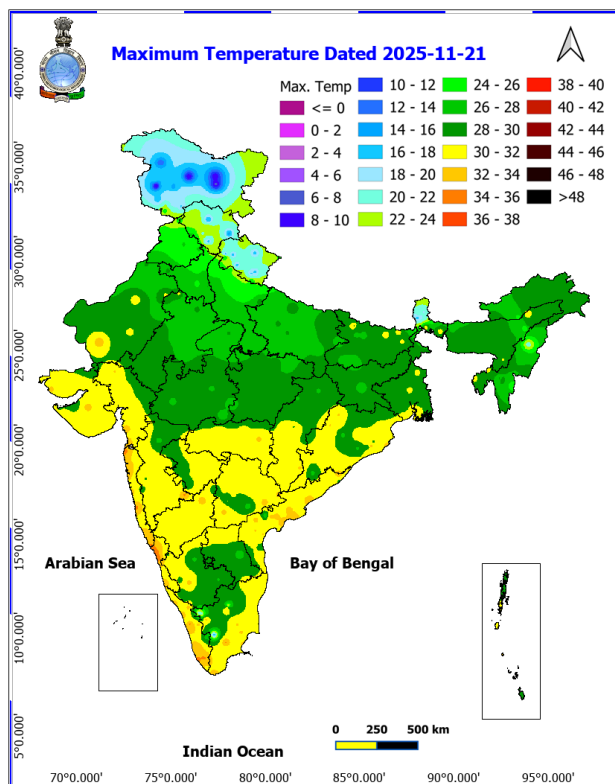


Fig. 2: Departure of Maximum Temp. Dated 2025-11-21

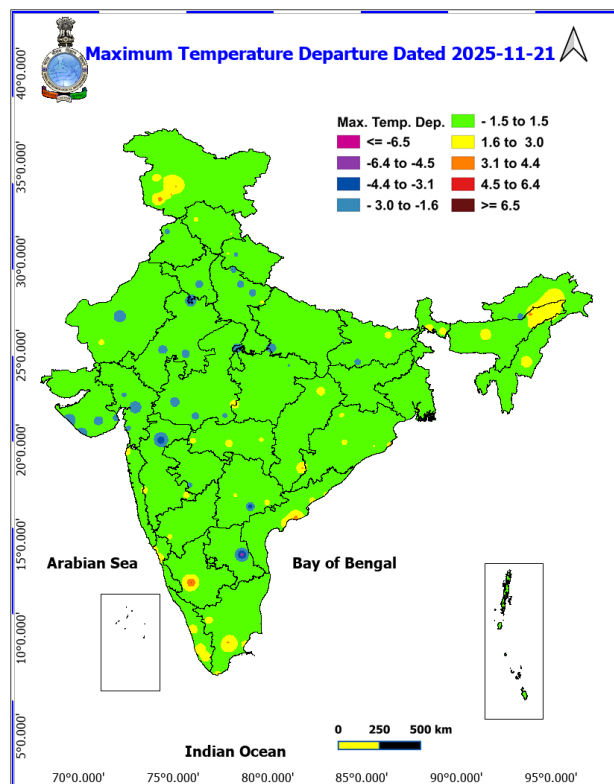


Fig. 3: Minimum Temperatures Dated 2025-11-22

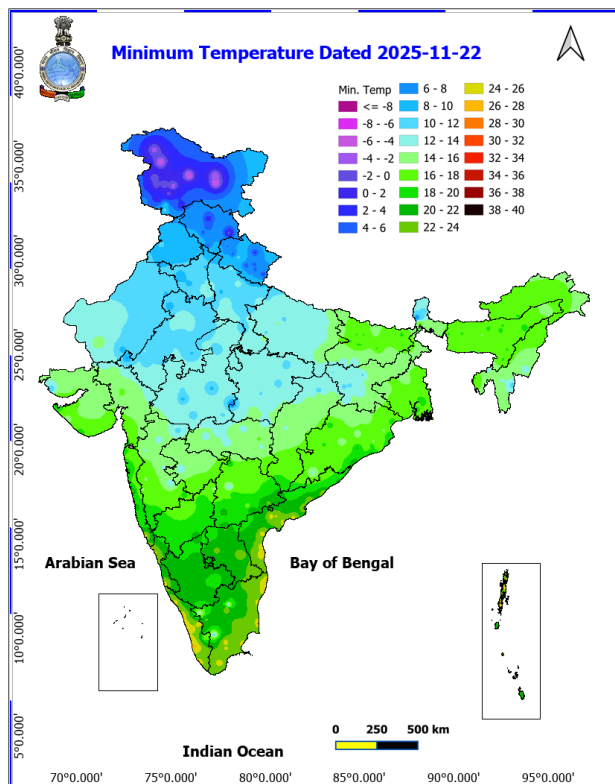
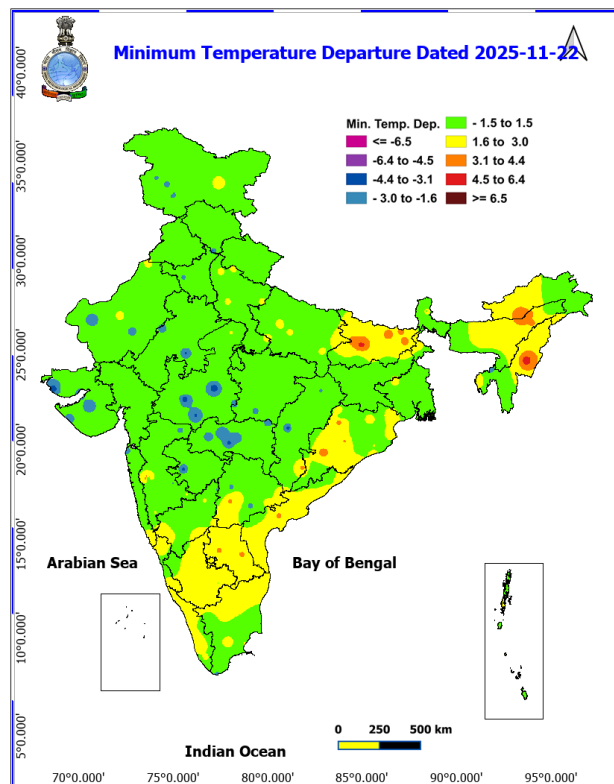
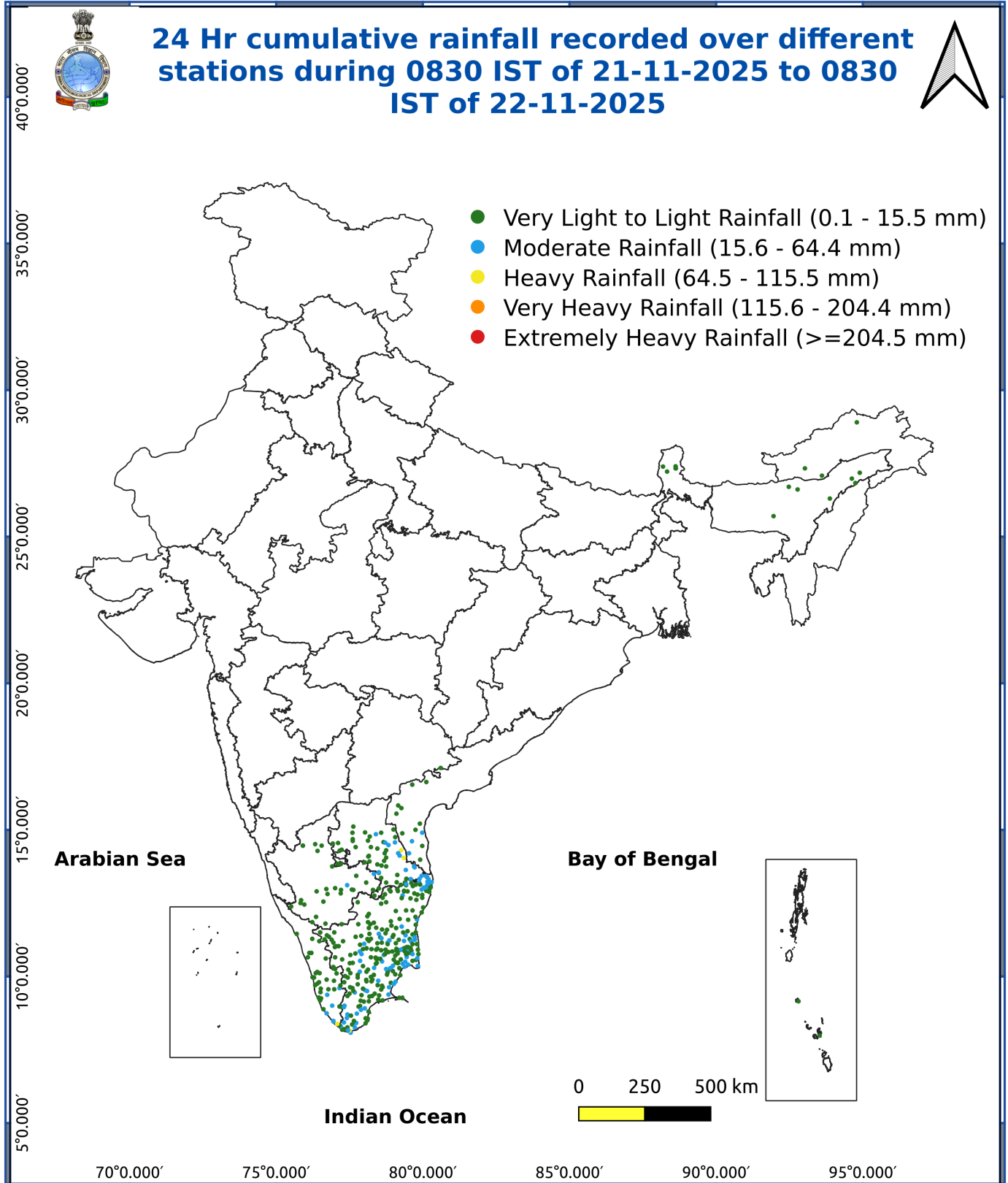


Fig. 4: Departure of Minimum Temp. Dated 2025-11-22





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#### Impact & Action Suggested due to

- Isolated **very Heavy rainfall likely** over Andaman & Nicobar Islands on 24<sup>th</sup> & 25<sup>th</sup> November.

#### Impact Expected

- 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.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

#### Action Suggested

- 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.

#### Agromet advisories for various parts of the country

##### Agromet advisories for likely impact of Heavy Rainfall

In **Tamil Nadu**, drain out excess rain water from fields of rice, groundnut, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, arecanut, mango, rubber, cinnamon and black pepper. Strengthen irrigation channels and field bunds in rice to avoid crop lodging. Provide support to banana plants with wooden poles to prevent them from falling.

In **Kerala**, ensure adequate drainage facilities in fields of rice, vegetables and plantations of banana, coconut, cardamom and black pepper. Carry out propping in banana to prevent their falling due to heavy rainfall. Undertake staking for vegetables grown in pandals.

In **Andaman and Nicobar Islands**, store the harvested produce of rice in well-covered elevated places to prevent moisture damage. Avoid early sowing of pulses and lentil during heavy rainfall. Provide mechanical support to banana and papaya plants at fruiting stage. Drain out excess water from vegetable nurseries and protect young seedlings using temporary rain shelters or plastic covers.

##### Livestock / Fishery

Keep the animals inside the shed during heavy rainfall and provide them balanced feed.

Store feed and fodder in a safe place to prevent spoilage.

Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

##### Agromet advisories for likely impact of Thunderstorm / Gusty Winds

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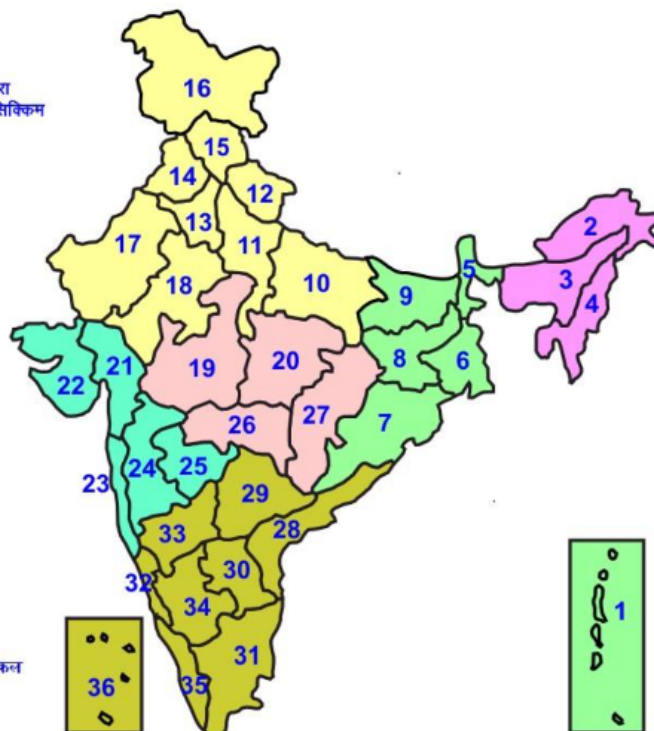
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Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## SPATIAL DISTRIBUTION (% of Stations reporting)

| % Stations | Category                             | % Stations | Category                      |
|------------|--------------------------------------|------------|-------------------------------|
| 76-100     | Widespread (WS/Most Places)          | 26-50      | Scattered (SCT/ A Few Places) |
| 51-75      | Fairly Widespread (FWS/ Many Places) | 1-25       | Isolated (ISOL)               |

### Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED TO TAKE ACTION)
- WARNING (TAKE ACTION)

### Probabilistic Forecast

| Terms       | Probability of Occurrence (%) |
|-------------|-------------------------------|
| Unlikely    | < 25                          |
| Likely      | 25 - 50                       |
| Very Likely | 50 - 75                       |
| Most Likely | > 75                          |

-  Heavy Rain
-  Very Heavy Rain
-  Extremely Heavy Rain
-  Heavy Snow
-  Thunderstorm & Lightning
-  Hailstorm
-  Dust Storm
-  Dust Raising Winds
-  Strong surface winds
-  Heat Wave
-  Hot Day
-  Warm Night
-  Cold Wave
-  Cold Day
-  Ground Frost
-  Fog
-  Hot & Humid

\*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

Forecast and warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit <https://mausam.imd.gov.in> or contact 011-2434-4599

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## LEGENDS

### WARNING

|                               |
|-------------------------------|
| <b>WARNING (TAKE ACTION)</b>  |
| <b>ALERT (BE PREPARED)</b>    |
| <b>WATCH (BE UPDATED)</b>     |
| <b>NO WARNING (NO ACTION)</b> |

### Probabilistic Forecast

| Terms       | Probability of Occurrence (%) |
|-------------|-------------------------------|
| Unlikely    | < 25                          |
| Likely      | 25 - 50                       |
| Very Likely | 50 - 75                       |
| Most Likely | > 75                          |



Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm \*  
Extremely Heavy: > 204.4 mm/cm \*



When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .  
Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$



When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .  
Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Wave: Minimum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave: When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$   
Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  & actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$



When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions  
Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .  
Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres  
Dense Fog: when the visibility between 50-200 metres  
Very Dense Fog: when the visibility  $< 50$  metres



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature  $\leq 4^{\circ}\text{C}$  (over Plains)



A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph  
Severe: Wind speed 62-87 kmph  
Very Severe: Wind speed  $> 87$  kmph



Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre  
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre  
Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre



Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)  
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64-89 knots)  
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90-119 knots)  
Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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