2025-11-29
Time of Issue: 08:39:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

- **Under the influence of The Cyclonic Storm Ditwah over coastal Sri Lanka and adjoining southwest Bay of Bengal, heavy rainfall likely over Tamil Nadu during 29th November -01st December with isolated extremely heavy falls over coastal Tamil Nadu on 29th & 30th November; isolated heavy to very heavy rainfall likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 29th November-1st December with isolated extremely heavy falls over south Coastal Andhra Pradesh and coastal Rayalaseema on 30th November; isolated heavy rainfall likely over Kerala & Mahe on 29th November; over South Interior Karnataka on 29th & 30th and Telangana on 30th November, 2025.**
- **Thunderstorm with lightning** very likely over Tamil Nadu during 29th November-01st December; over Kerala & Mahe on 29th; Coastal Andhra Pradesh & Yanam and Rayalaseema during 29th November – 02nd December; North interior Karnataka on 30th & South Interior Karnataka on 29th & 30th November.

Forecast of minimum temperatures:

- No large change in minimum temperature likely over Northwest India for the next 48 hours and thereafter gradual fall in minimum temperature likely by 2-4 ^{0}C.
- No large change in minimum temperature likely over Central India for the next 48 hours and thereafter gradual rise in minimum temperature likely by 2-3 ^{0}C.
- No large change in minimum temperature for next 4 days over East India and thereafter fall in minimum temperature likely by 2-3 ^{0}C.
- Rise in minimum temperature likely over Maharashtra by 2-3 ^{0}C for the next 3 days and thereafter no large change in minimum temperature. No large change in minimum temperature for 48 hours over Gujarat and thereafter rise in minimum temperature by 3-4 ^{0}C.
- No significant change in the minimum temperature likely over Northeast India during next 5 days.

Dense Fog & Cold wave warning:

- **Dense fog conditions** very likely to prevail during early morning hours in isolated pockets of Himachal Pradesh during 29th November -1st December and over Haryana Chandigarh & Delhi on 29th & 30th; over East Rajasthan on 30th November -1st December, 2025.
- **Cold wave conditions** very likely to prevail in isolated pockets of Rajasthan on 03nd -05th December, 2025.

Wind Warning, Sea Condition, Fisherman Warning
Wind Warning:

(a) Southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off Sri Lanka coasts

Gale wind speed reaching 65-75 gusting to 85 kmph is prevailing. It would increase becoming 70-80 kmph gusting to 90 kmph from morning of 29th till 30th November morning. Thereafter it is likely to decrease gradually becoming squally wind speed reaching 55-65 gusting to 75 kmph by morning of 1st December.

(b) Along & off north Tamil Nadu & Puducherry Coasts

Squally wind speed reaching 50-60 gusting to 70 kmph is prevailing. It is likely to increase becoming Gale wind speed reaching 60-70 gusting to 80 kmph is likely to prevail from morning of 29th November, 70-80 kmph gusting to 90 kmph by 29th morning till 30th morning. Thereafter it is likely to decrease gradually becoming squally wind speed reaching 55-65 gusting to 75 kmph by 1st December morning.

(c) Along & off south Tamil Nadu coast

Squally wind speed reaching 55-65 gusting to 75 kmph is prevailing. It is likely to increase becoming Gale wind speed

reaching 60-70 gusting to 80 kmph is likely to prevail along & off south Tamil Nadu from morning of 29th till 30th November midnight.

(d) Adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh coast:

Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is prevailing. It is very likely to increase becoming squally winds speed reaching 50-60 kmph gusting to 70 kmph from 29th morning and Gale wind speed reaching 60-70 kmph gusting to 80 kmph from 29th evening till 30th morning. Thereafter, it is likely to decrease becoming squally wind speed reaching 50-60 kmph gusting to 70 kmph on 01st December morning and 45-55 kmph gusting to 65kmph by evening of 1st December.

(e) Adjoining areas of Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast:

Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail on 29th November.

Sea Condition:

(a) Southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off Sri Lanka coasts

Very rough to high sea conditions are likely to prevailing, it is likely to be high till 30th November. Thereafter it is likely to improve from 1st December morning.

(b) Along & off north Tamil Nadu & Puducherry Coasts

Rough to very rough sea conditions are prevailing. It is likely to become very rough to high sea conditions till 30th November. It is likely to improve gradually becoming very rough to rough from 1st December morning.

(c) Along & off south Tamil Nadu coast

Very rough to high sea condition are likely to prevail till 30th November midnight. It is likely to improve gradually becoming very rough to rough from 1st December morning.

(d) Adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh coast:

Moderate to rough sea conditions are prevailing and likely to become rough to very rough high from 29th evening till 30th November. Thereafter, it is likely to improve gradually on 01st December morning.

(e) Adjoining areas of Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast:

Rough to very rough sea conditions are likely on 29th November.

Storm Surge Warning:

Storm surge of height about 1.0 to 1.5 m above the astronomical tide is likely to inundate the low-lying coastal areas of north Sri Lanka till 29th evening.

Fishermen Warning:

(a) Total suspension of fishing operations in coastal areas of Sri Lanka, Tamil Nadu, Puducherry and south Andhra Pradesh coasts till 01st December.

(b) **Fishermen are advised not to venture into**

(i) Southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off Tamil Nadu, Puducherry & Sri Lanka coasts till 01st December.

(ii) Adjoining areas of westcentral Bay of Bengal and along & off Andhra Pradesh coast till 1st December.

(iii) Adjoining areas of Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast till 30th November.

(c)Those out at sea should avoid southwest Bay of Bengal, Gulf of Mannar, Comorin area and along & off Tamil Nadu, Puducherry, south Andhra Pradesh & Sri Lanka coasts; adjoining westcentral Bay of Bengal till 01st December and Southeast Arabian Sea, Lakshadweep, Maldives and along & off Kerala coast till 30th November.

Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Tamilnadu Puducherry & Karaikal; **at many places** over Kerala & Mahe; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Tamilnadu Puducherry & Karaikal**: Pamban (dist Ramanathapuram) 7, Nagapattinam (dist Nagapattinam) 6, Karaikal (dist Karaikal), Tondi (dist Ramanathapuram) 5 Each, Adiramapatinam (dist Thanjavur) 3.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0530 hours IST of today):**Heavy rain** at isolated places over Tamilnadu Puducherry & Karaikal.

❖ **Fog Condition Observed (at 0530 hours of today): Shallow fog conditions:** at isolated places over Assam & Meghalaya, Bihar and West Madhya Pradesh.

❖ **Visibility reported (at 0530 hours of today):** West Madhya Pradesh: Gwalior (dist Gwalior) 500.0; Bihar: Purnea (dist Purnia) 500.0; Assam & Meghalaya: Barapani/shillong (dist East Khasi Hills) 500.0.

❖ **Minimum Temperature Departures (as on 28-11-2025): below normal(-1.6°C to -3.0°C)** at few places over Chhattisgarh. **The lowest minimum temperature** of 10.1°C was reported at SRIGANGANAGAR (RAJASTHAN) over the Plains of India.

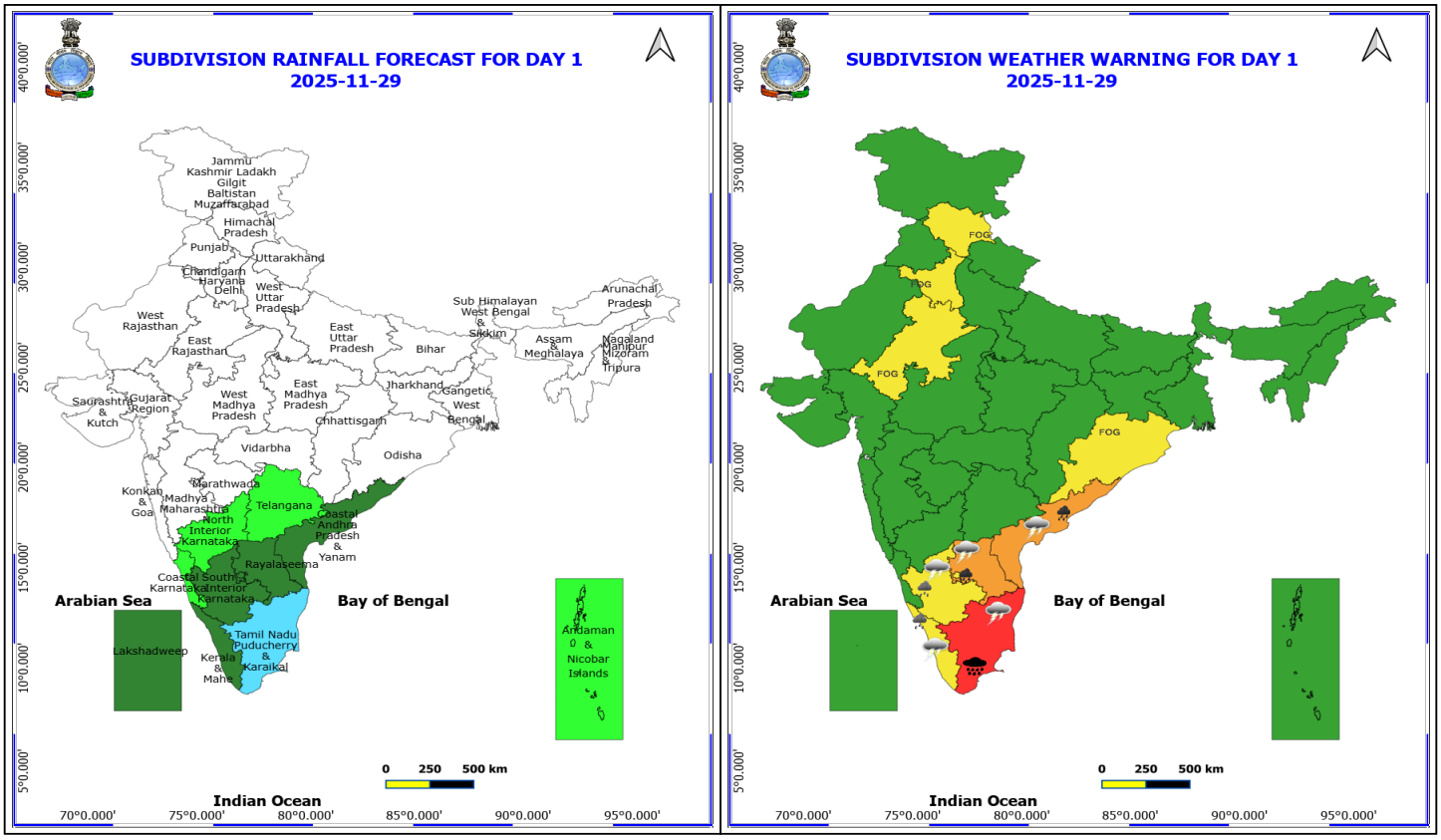
❖ **Maximum Temperature Departures (as on 28-11-2025): The highest maximum temperature** of 34.2°C was reported at MORMUGAO (GOA).

Meteorological Analysis (Based on 0530 hours IST)

- The **Cyclonic Storm Ditwah [Pronunciation: Ditwah]** over coastal Sri Lanka and adjoining southwest Bay of Bengal moved north-northwestwards with the speed of 8 kmph during past 6 hours and lay centered at 0530 hrs IST of today, the 29th November 2025 over the southwest Bay of Bengal and adjoining north Sri Lanka, near latitude 9.4°N and longitude 80.7°E, about 80 km east-southeast of Jaffna (Sri Lanka), 110 km north-northwest of Trincomalee (Sri Lanka), 190 km south-southeast of Karaikal (India), 300 km south-southeast of Puducherry (India) and 400 km south of Chennai (India). It is very likely to continue to move north-northwestwards and reach over southwest Bay of Bengal near North Tamil Nadu, Puducherry and adjoining south Andhra Pradesh coasts by early morning of 30th November.
- The **Western disturbance** as an **upper air cyclonic circulation** over north Pakistan & neighbourhood now lies over north Punjab and & neighbourhood between 3.1 & 4.5 km above mean sea level.
- The induced **cyclonic circulation** over southwest Rajasthan upto 1.5 km above mean sea level persists.

Weather Outlook for subsequent 3 days

- Fairly widespread to widespread rainfall activity likely over North Tamil Nadu, Coastal Andhra Pradesh, Kerala and Andaman & Nicobar Islands.
- Isolated to Scattered rainfall activity over Coastal Karnataka and South Interior Karnataka.



29 November (Day 1)

❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.

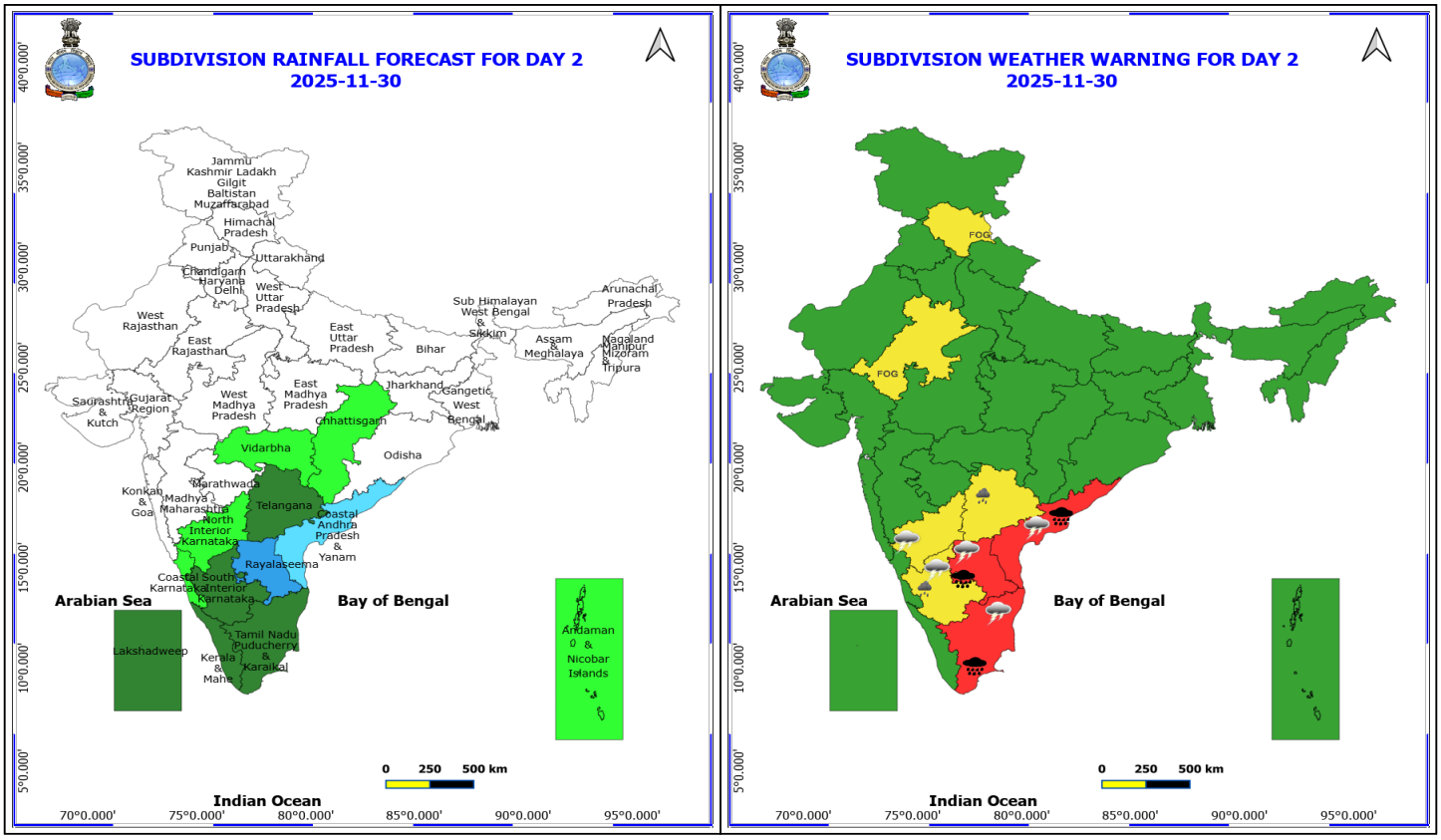
❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Andhra Pradesh.

❖ **Heavy Rainfall** very likely at isolated places over Kerala & Mahe and South Interior Karnataka.

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Kerala & Mahe, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.

❖ **Fog** very likely at isolated pockets over East Rajasthan, Haryana, Chandigarh & Delhi, Himachal Pradesh and Odisha.

- **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** will prevail along and off south Kerala coast and adjoining Lakshadweep area, over Comorin area, over southwest & adjoining southeast Bay of Bengal, some parts of westcentral Bay of Bengal, along and off south Andhra Pradesh coast.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over Gulf of Mannar, along and off Sri Lanka, Tamil Nadu coasts, many parts of southwest Bay of Bengal.



30 November (Day 2)

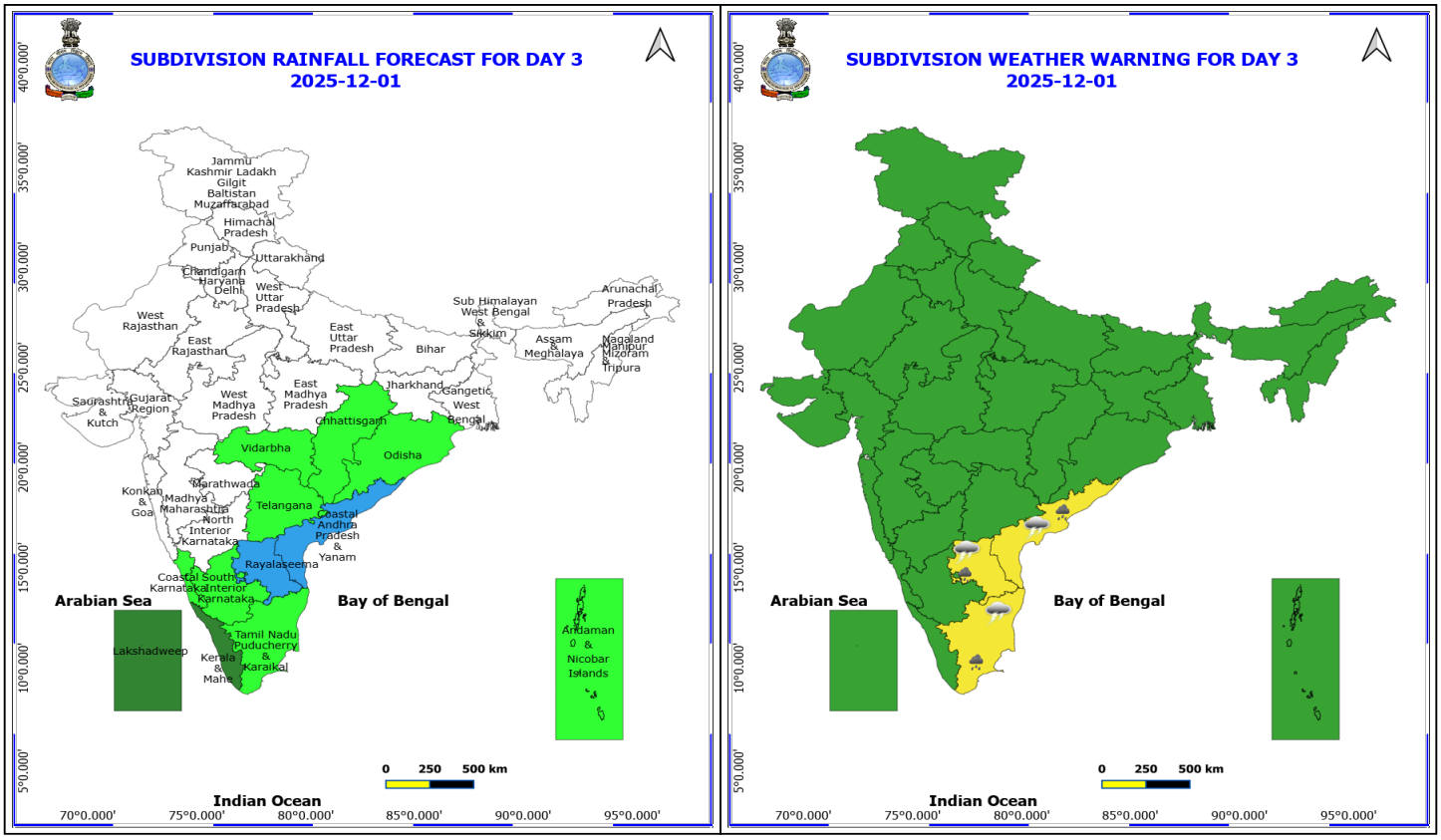
❖ **Heavy to Very Heavy Rainfall with isolated Extremely Heavy Rainfall** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

❖ **Heavy Rainfall** very likely at isolated places over South Interior Karnataka and Telangana.

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh, Interior Karnataka and Tamil Nadu Puducherry & Karaikal.

❖ **Fog** very likely at isolated pockets over East Rajasthan and Himachal Pradesh.

- **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** will prevail along and off south Kerala coast and adjoining Lakshadweep area, over Comorin area, over southwest & adjoining southeast Bay of Bengal, many parts of westcentral Bay of Bengal, along and off south Andhra Pradesh coast.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over Gulf of Mannar, along and off Sri Lanka, Tamil Nadu coasts, over Gulf of Mannar, many parts of southwest Bay of Bengal.
- **Squally weather with wind speeds reaching 50 kmph to 60 kmph gusting to 70 kmph** will prevail over parts of southwest Bay of Bengal off north Sri Lanka coast.

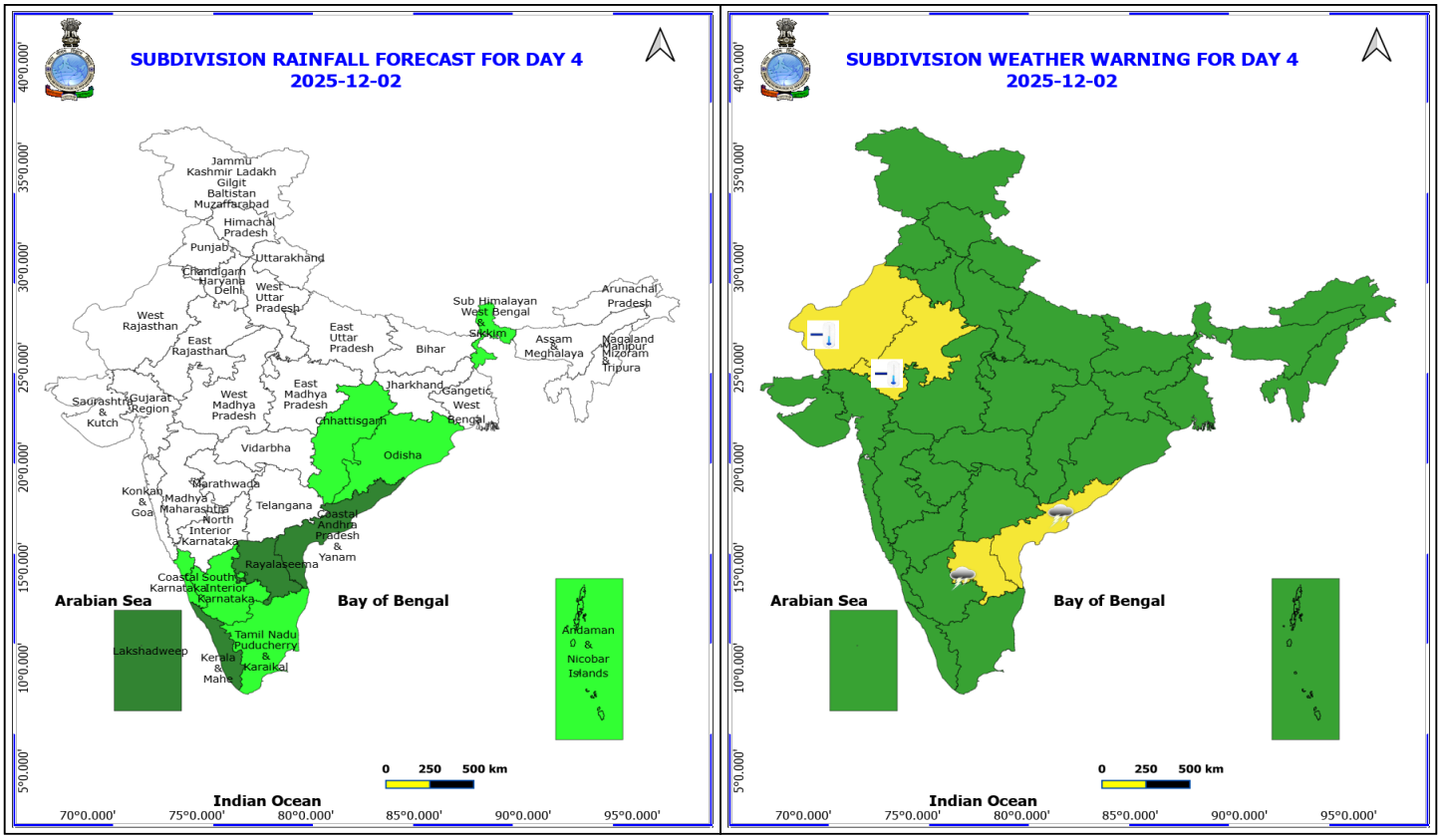


1 December (Day 3)

❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.

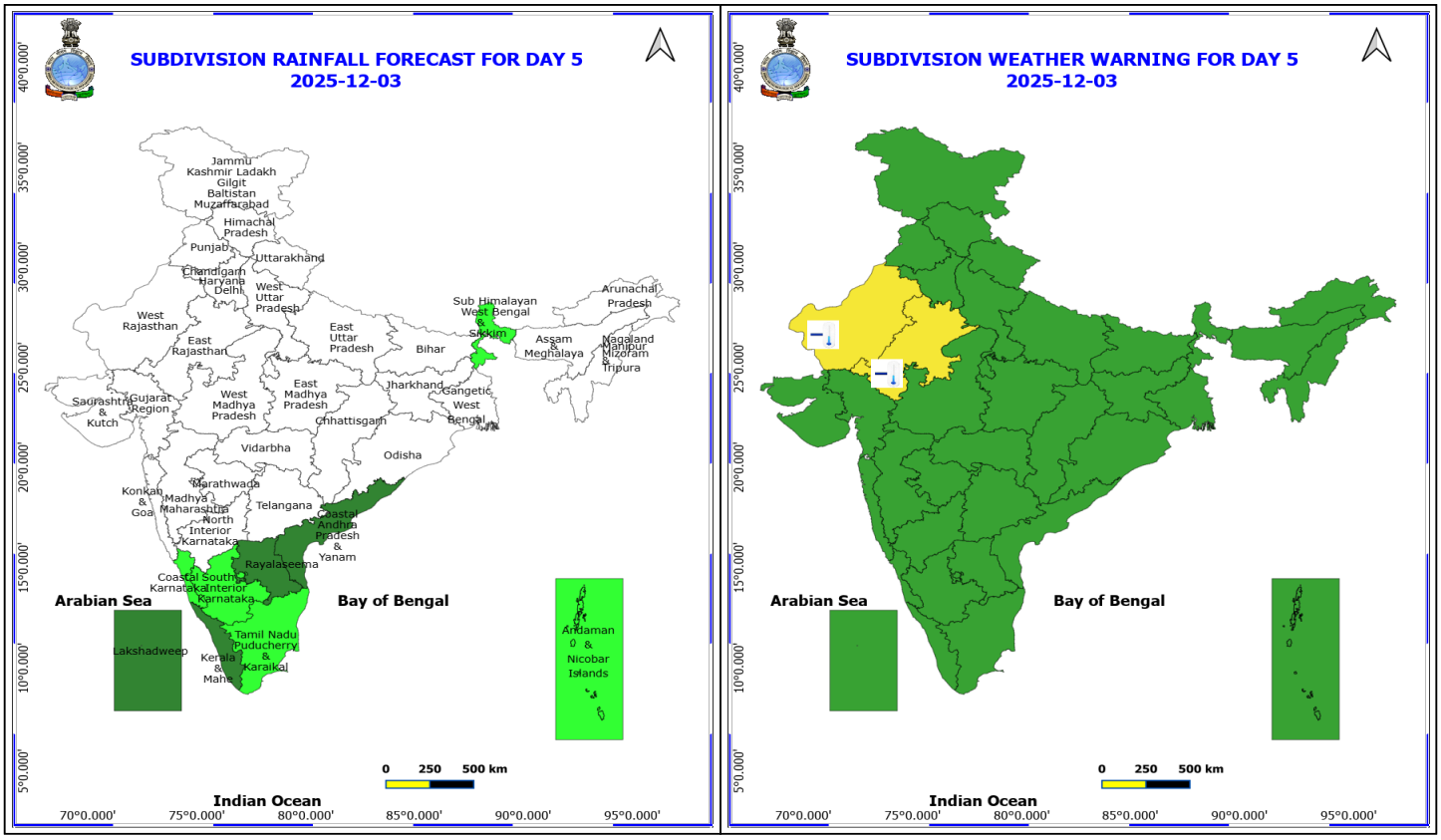
- **Squally weather with wind speeds reaching 35 kmph to 45 kmph gusting to 55 kmph** will prevail along and off south Kerala coast and adjoining Lakshadweep area, over Comorin area, over southwest & adjoining southeast Bay of Bengal, many parts of westcentral Bay of Bengal, along and off south Andhra Pradesh coast.
- **Squally weather with wind speeds reaching 45 kmph to 55 kmph gusting to 65 kmph** will prevail over Gulf of Mannar, along and off Sri Lanka, Tamil Nadu coasts, over Gulf of Mannar, many parts of southwest Bay of Bengal.
- **Squally weather with wind speeds reaching 50 kmph to 60 kmph gusting to 70 kmph** will prevail over parts of southwest Bay of Bengal off north Tamil Nadu coast.



2 December (Day 4)

- **Thunderstorm accompanied with Lightning** likely at isolated places over Andhra Pradesh.
- **Cold wave conditions** likely at isolated places over Rajasthan.

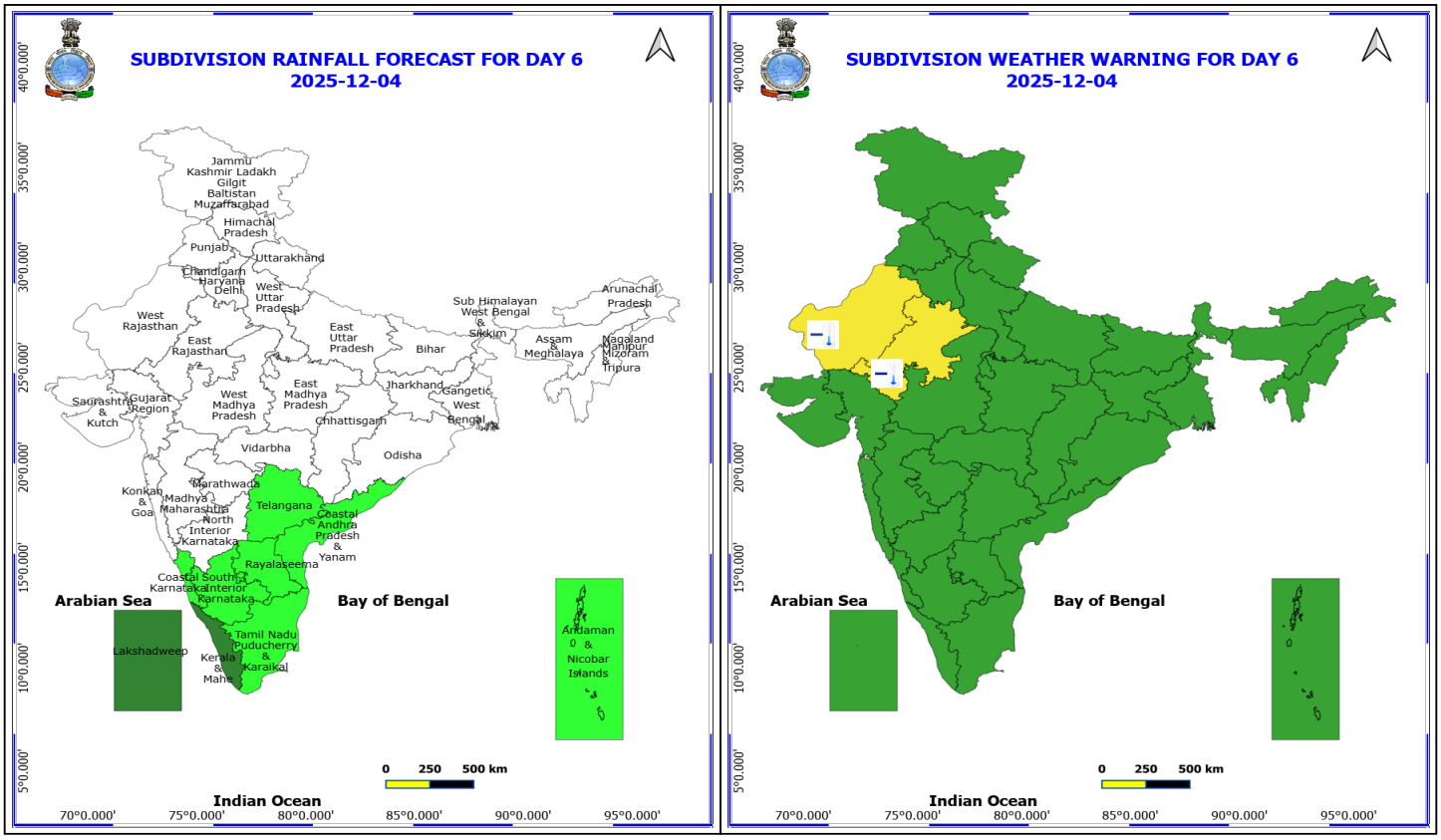
No Fishermen Warning



3 December (Day 5)

❖ **Cold wave conditions** likely at isolated places over Rajasthan.

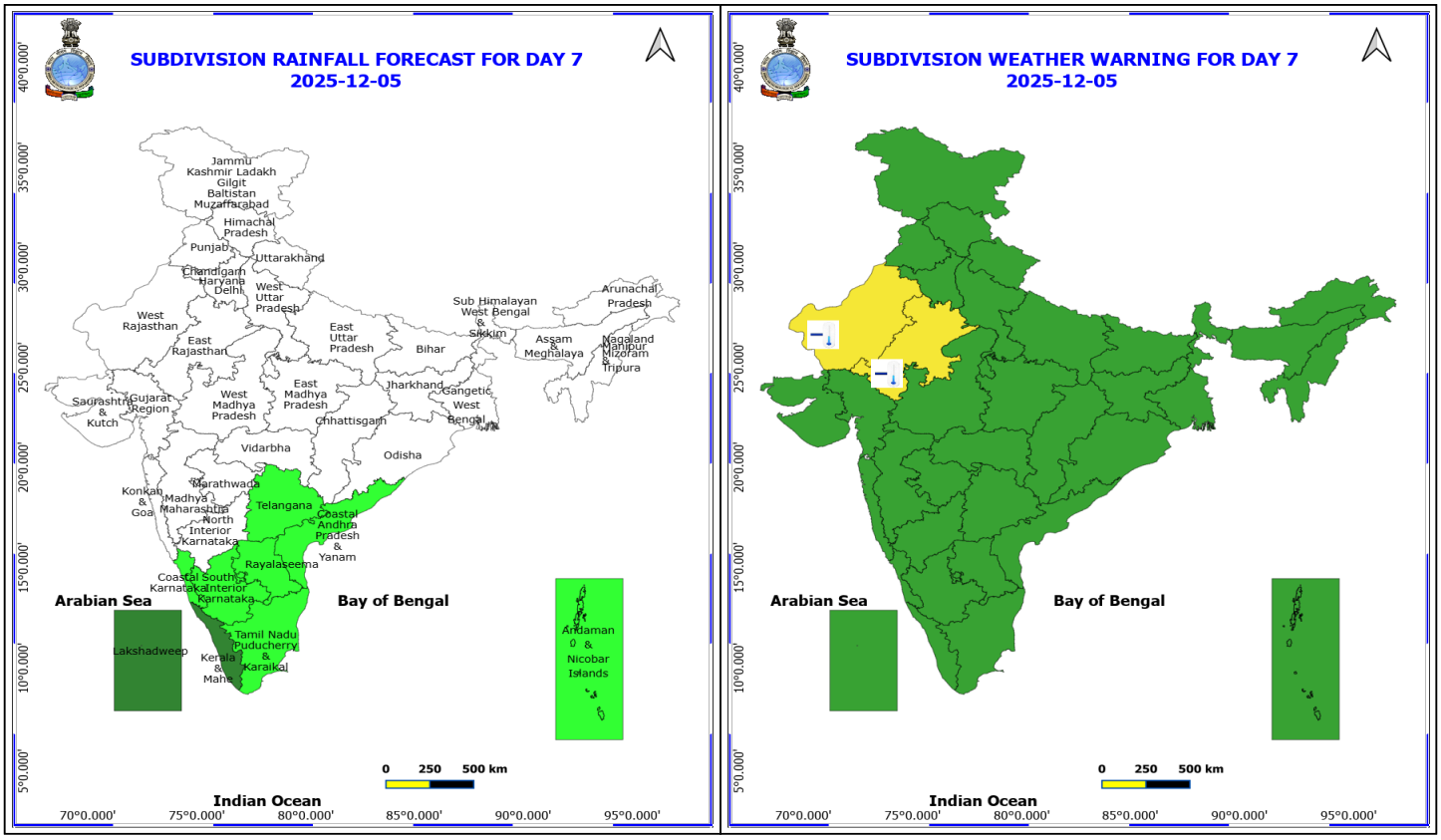
No Fishermen Warning



4 December (Day 6)

❖ **Cold wave conditions** likely at isolated places over Rajasthan.

No Fishermen Warning



5 December (Day 7)

❖ **Cold wave conditions** likely at isolated places over Rajasthan.

No Fishermen Warning

Flash Flood Warnings

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 30-11-2025 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

Tamil Nadu - Puducherry & Karaikal - Mahe, Puduchery, Ariyalur, Chengalpattu, Coimbatore, Cuddalore, Dharampuri, Dindigul, Erode, Kallakurichi, Kanchipuram, Kanyakumari, Karur, Madurai, Mayiladuthurai, Nilgiri, Perambalur, Pudukkottai, Ranipet, Salem, Sivaganga, Teni, Tenkasi, Thanjavur, Tirunelveli, Tiruppur, Tiruvallur, Tuticorin, Villupuram and Virudhunagar districts.
Coastal Andhra Pradesh & Yanam - Nellore district.

Kerala & Mahe - Ernakulam, Idukki, Malappuram, Palakkad, Pattanamittia and Thiruvananthpuram districts.

Rayalaseema - Chittoor and Kadapa districts.

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

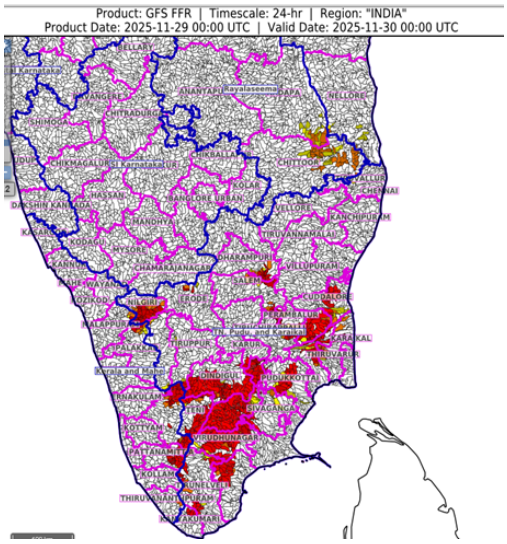


Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	29-Nov	30-Nov	1- Dec	2- Dec	3- Dec	4- Dec	5- Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
2	ARUNACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
3	ASSAM & MEHGHALAYA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
4	N. M. M. & T.	DRY	DRY	DRY	DRY	DRY	DRY	DRY
5	S.H. WEST BENGAL & SIKKIM	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	DRY	DRY	DRY
7	ODISHA	DRY	DRY	ISOL	ISOL	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	DRY	DRY	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
27	CHATTISGARH	DRY	ISOL	ISOL	ISOL	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	SCT	FWS	WS	SCT	SCT	ISOL	ISOL
29	TELANGANA	ISOL	SCT	ISOL	DRY	DRY	ISOL	ISOL
30	RAYALASEEMA	SCT	WS	WS	SCT	SCT	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	SCT	SCT	SCT	SCT	SCT	SCT	SCT
36	LAKSHDWEEP	SCT	SCT	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

*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
(Service to the nation since 1875)

Fig. 1: Maximum Temperatures Dated 2025-11-28

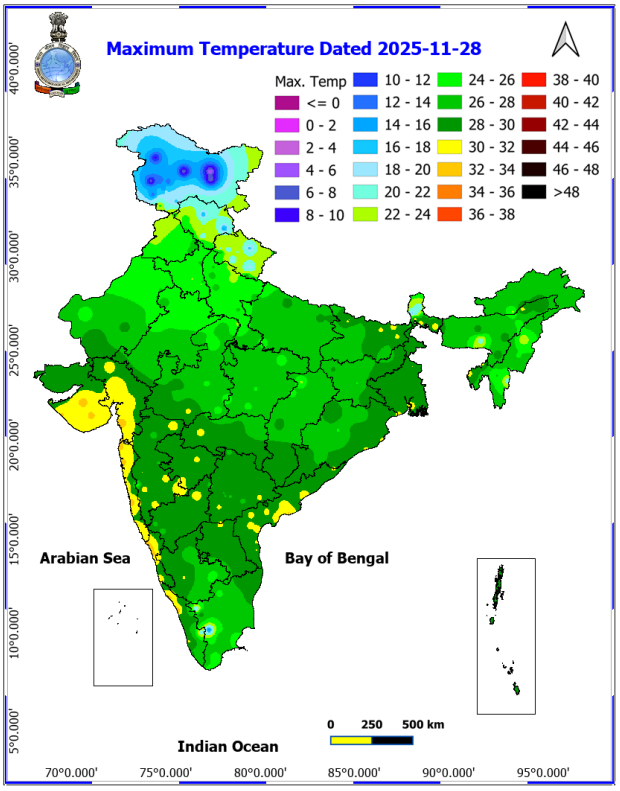


Fig. 2: Departure of Maximum Temp. Dated 2025-11-28

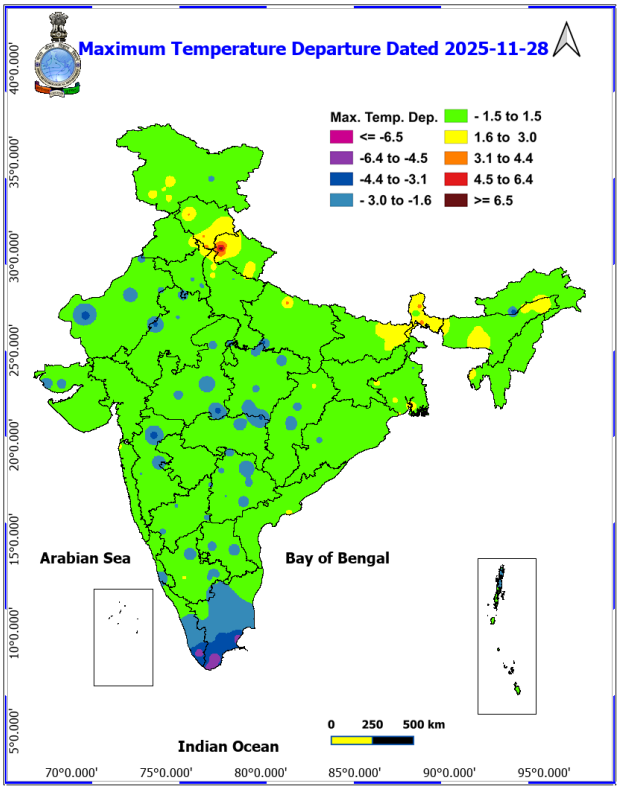


Fig. 3: Minimum Temperatures Dated 2025-11-29

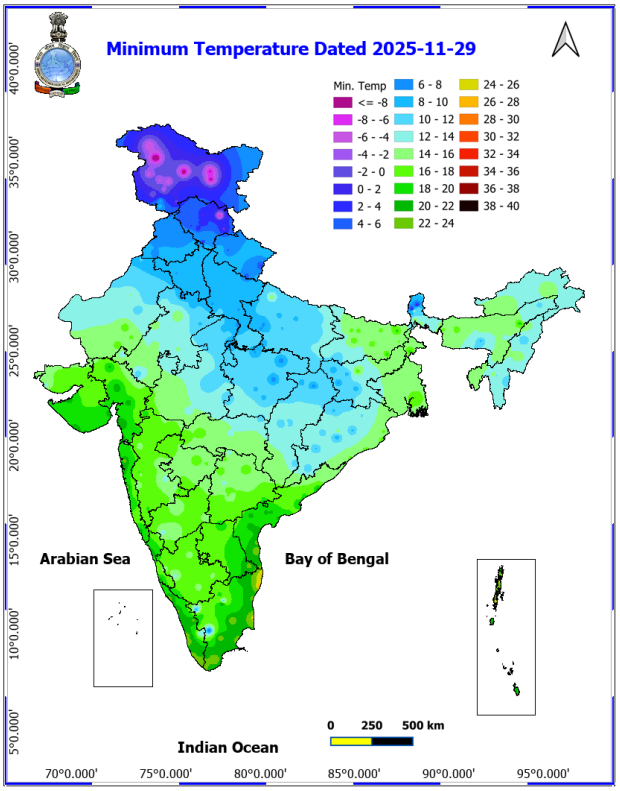
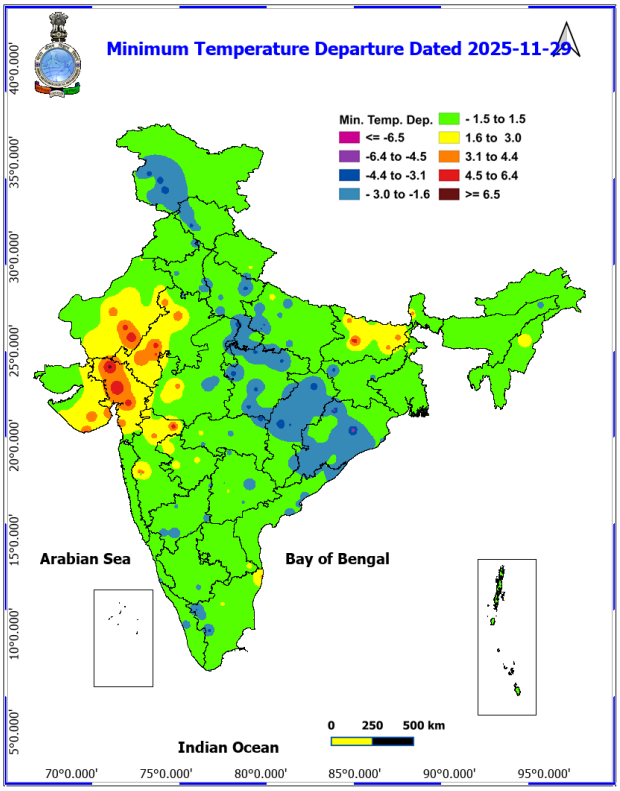
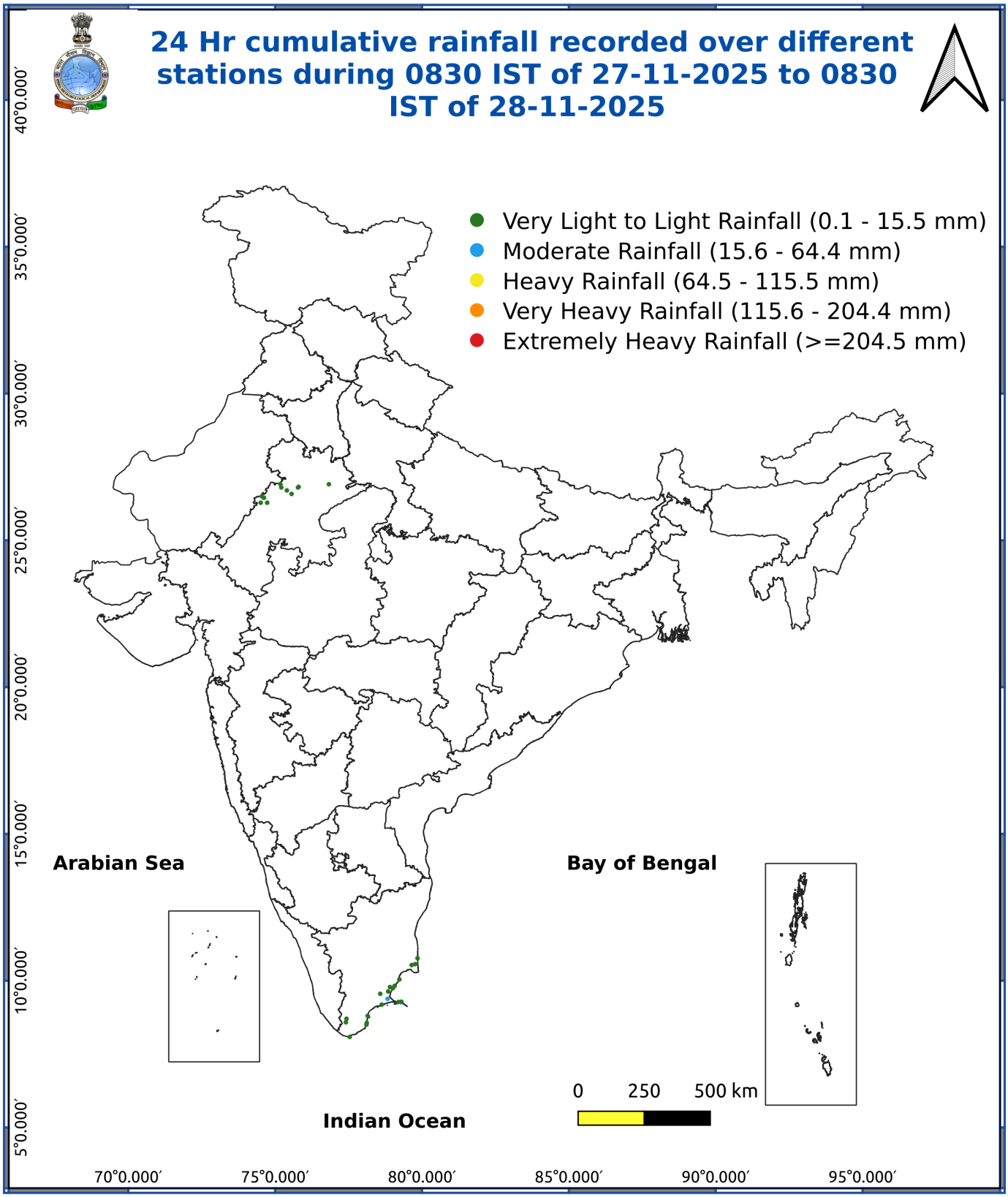


Fig. 4: Departure of Minimum Temp. Dated 2025-11-29



24 Hr cumulative rainfall recorded over different stations during 0830 IST of 27-11-2025 to 0830 IST of 28-11-2025



Impact & Action Suggested due to

- **Heavy rainfall likely over Tamil Nadu during 29th November -01st December with isolated extremely heavy falls over coastal Tamil Nadu on 29th & 30th November; isolated heavy to very heavy rainfall likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 29th November-1st December with isolated extremely heavy falls over south Coastal Andhra Pradesh and coastal Rayalaseema on 30th November; isolated heavy rainfall likely over Kerala & Mahe on 29th November; over South Interior Karnataka on 30th and Telangana on 30th November, 2025.**

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 / Heavy to Very Heavy Rainfall

In **Tamil Nadu**, drain out excess rain water from the fields of rice, groundnut, sugarcane, cotton, black gram, maize and vegetables and plantations of coconut, banana, areca nut, 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,** drain out excess rain water from the 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 **Andhra Pradesh**, harvest the matured rice immediately and shift the harvested produce to safer places. Ensure drainage facilities in the fields of maize, green gram, black gram, horse gram and groundnut.

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.

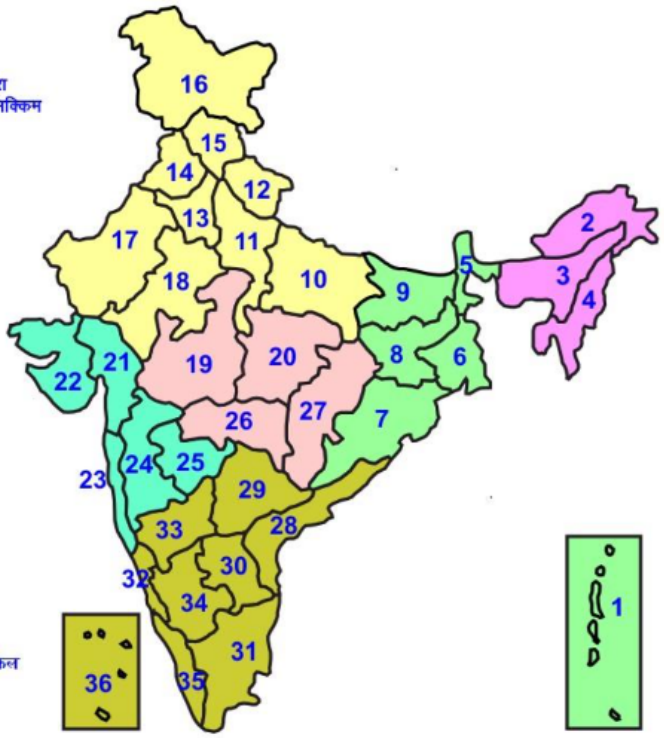
Construct an outlet with proper netting around the ponds to drain out excess water, thereby preventing fish from escaping in case of overflow.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

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 एंवम् सिक्किम
6 पश्चिम गांगेय बंगाल
7 ओडिसा
8 झारखंड
9 बिहार
10 पूर्वी उत्तर प्रदेश
11 पश्चिम उत्तर प्रदेश
12 उत्तराखंड
13 हरियाणा चंडिगढ़ एंवम् दिल्ली
14 पंजाब
15 हिमाचल प्रदेश
16 जम्मू एवंम कश्मीर एवंम लद्दाख
17 पश्चिम राजस्थान
18 पूर्वी राजस्थान
19 पश्चिम मध्य प्रदेश
20 पूर्वी मध्य प्रदेश
21 गुजरात क्षेत्र
22 सौराष्ट्र एंवम् कच्छ
23 कोंकण एंवम् गोवा
24 मध्य महाराष्ट्र
25 मराठावाडा
26 विदर्भ
27 छत्तीसगढ़
28 तटीय आंध्र प्रदेश एवं यनम
29 तेलंगाना
30 रायलसीमा
31 तमिलनाडु ,पुदुचेरी एवंम कराईकल
32 तटिय कर्नाटक
33 आंतरिक उत्तरी कर्नाटक
34 आंतरिक दक्षिणी कर्नाटक
35 केरल एवंम 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 Rajsthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
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 Widespred (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
Hailstrom
Dust Strom
Dust Raising Winds
Strong surface winds
Heat Wave
Hot Day
Warm Night
Cold Wave
Cold Day
Ground Frost
Fog
Hot & Humid

LEGENDS

WARNING

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

Probabilistic Forecast

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

Rain/ Snow *

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

Heat Wave

When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions

(a) Based on Departure from normal

- **Heat Wave:** Maximum Temperature Departure from normal 4.5° C to 6.4° C.
- **Severe Heat Wave:** Maximum Temperature Departure from normal ≥6.5° C

(b). Based on Actual maximum temperature

- **Heat Wave:** When actual maximum temperature ≥45°C.
- **Severe Heat Wave:** When actual maximum temperature ≥47°C

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C

Warm Night

When maximum temperature remains 40°C

- **Warm Night:** When minimum temperature departure 4.5 °C to 6.4 °C.
- **Severe Warm Night:** When minimum temperature departure >6.4 °C.

Cold Wave

When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions.

(a). Based on departure

- **Cold Wave:** Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
- **Severe Cold Wave:** Minimum Temperature Departure from normal ≤ -6.5 °C

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

- **Cold Wave :** When Minimum Temperature is ≤ 4.0 °C
- **Severe Cold Wave:** When Minimum Temperature is ≤ 2.0 °C

(c) For Coastal Stations

When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C

Cold Day

When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions

Based on departure

- **Cold Day:** Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
- **Severe Cold Day:** Maximum Temperature Departure from normal ≤ -6.5 °C

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility < 1km

- **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

Thunderstorm

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

Dust/Sand Storm

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

Frost

Ice deposits on ground

- Air temperature ≤4°C (over Plains)

Squall

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

Sea State

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

Cyclone

- **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 Strom**: Wind speed >220 kmph (>119 knots)