Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 25th November, 2024
Time of Issue: 1330 hours IST

Subject: (i) A depression lies over central parts of South Bay of Bengal & adjoining East Equatorial Indian Ocean. It is likely to move northwestwards and intensify into a deep depression during next 24 hours.
(ii) It is very likely to cause heavy to very heavy rainfall at a few places with isolated extremely heavy rainfall over Coastal Tamil Nadu & Puducherry on 26th & 27th and isolated heavy to very heavy rainfall on 28th November. It is also likely to cause isolated heavy rainfall over south Coastal Andhra Pradesh from 26th to 29th November, 2024.

i. Rainfall Forecast and warning over the country:

Realised weather during past 24 hours till 0830 hours IST of today (Annexure I)

- **Fog conditions observed** (at 0530 & 0830 hours IST of today): **Very Dense fog (visibility < 50 m)** reported in isolated pockets of Haryana; **dense fog (visibility 50-200 m)** reported in isolated pockets of Punjab and Meghalaya.
- **Visibility reported** (in m): **Haryana:** Sirsa IAF 0; **Meghalaya:** Barapani 50, **Punjab:** Bhatinda IAF-100, Adampur IAF & Halwara IAF-500 each.

Weather Systems:

- Yesterday's **well marked low pressure area** over southeast Bay of Bengal & adjoining East Equatorial Indian Ocean moved west-northwestwards, intensified into a **depression** and lay centred at 0830 hours IST of today, the 25th November 2024 over central parts of South Bay of Bengal & adjoining East Equatorial Indian Ocean near latitude 5.0°N and longitude 85.3°E, about 600 km southeast of Trincomalee, 880 km southeast of Nagapattinam, 980 km southeast of Puducherry and 1050 km south-southeast of Chennai. It is likely to move northwestwards and intensify into a **deep depression** during next 24 hours. Thereafter, it is likely to continue to move northwestwards towards Tamil Nadu-Sri Lanka coasts during subsequent 2 days.
- A cyclonic circulation lies over sub-Himalayan west Bengal in lower tropospheric levels.
- A fresh Western disturbance is likely to affect Western Himalayan Region from 29th November.

Forecast & Warnings (upto 7 days) (Annexure II & III):

- ✓ Light to moderate rainfall at a few places accompanied with isolated thunderstorm & lightning very likely over coastal Tamil Nadu & Puducherry during 25th-29th, Kerala & Mahe during 25th-27th, south Coastal Andhra Pradesh & Yanam and Rayalaseema during 26th-29th November.
- ✓ Isolated **heavy to very heavy rainfall** at a few places **with extremely heavy falls** at isolated places very likely over coastal Tamil Nadu & Puducherry on 26th & 27th, **heavy to very heavy rainfall** at isolated places on 25th & 28th and **heavy rainfall** at Isolated places on 29th & 30th November.
- ✓ **Heavy rainfall** at isolated places very likely over Kerala & Mahe during 26th - 28th, south Coastal Andhra Pradesh & Yanam during 26th - 29th November.
- ✓ Light to moderate rainfall at most places likely over Nagaland, Manipur, Mizoram & Tripura on 28th & 29th November with isolated heavy rainfall on 28th November.

- ✓ **Dense fog conditions** very likely to prevail during early morning hours in isolated pockets of Himachal Pradesh during 26th-30th, Punjab & Haryana-Chandigarh during 28th -30th and Uttar Pradesh during 28th November-01st December.

ii. Temperature conditions and Forecast:

Temperature Conditions during past 24 hours till 0830 hours IST of today

No significant change in minimum temperature observed over most parts of the country during past 24 hours. Minimum temperatures are **appreciably above normal (3°C to 5°C)** at isolated places over West Rajasthan, Haryana-Chandigarh-Delhi and Bihar; **above normal (1°C to 3°C)** at isolated places over Uttar Pradesh, East Madhya Pradesh, Gujarat Region and Tamil Nadu, Puducherry & Karaikal. These are **appreciably below normal (3°C to 5°C)** at isolated places over West Madhya Pradesh, Gangetic West Bengal and Telangana; **below normal (1°C to 3°C)** at many places over Coastal Karnataka; at a few places over Konkan & Goa, Madhya Maharashtra and Chhattisgarh; at isolated places over East Rajasthan, Marathwada, Vidarbha, Saurashtra & Kutch and near normal over rest parts of the country. Today, **the lowest minimum temperature** of **10.2°C** is reported at **Sarsawa IAF (West Uttar Pradesh)** over the plains of the country.

Forecast of temperature:

- ❖ Gradual fall in minimum temperatures by 2-3°C very likely over northwest India during next 5 days (except over Rajasthan).
- ❖ Gradual fall in minimum temperatures by 2-3°C very likely over Maharashtra during next 4 days.
- ❖ No significant change in minimum temperatures over rest parts of the country during next 5 days.

iii. Weather forecast over Delhi/NCR during 25th Nov. to 28th Nov. 2024

Past Weather:

There has been no significance change in maximum temperature and a rise upto 2°C in minimum temperature over Delhi/NCR during past 24hr. The Maximum and Minimum temperature over Delhi is in the range of 27 to 29°C and 11 to 14°C respectively. The maximum temperature was above normal by 02 to 03°C and the minimum temperature was above normal by 01 to 03°C most places over the region. Mainly smog/ shallow fog condition with predominant surface wind from west direction with wind speed reaching 06 to 12 kmph prevailed during daytime and calm wind during night time on 24.11.2024. Shallow fog reported at Palam airport during early morning today. Palam airport recorded lowest visibility 800 m during 0900 hours to 1130 hours IST. Shallow fog reported at Safdarjung airport during early morning today. Safdarjung airport recorded lowest visibility 900 m during 0700 hours to 1130 hours IST. Mainly smog condition with wind speed less than 12 kmph west direction prevailed over the region in the forenoon today.

Weather Forecast:

25.11.2024: Mainly clear sky. The predominant surface wind is likely to be northwest direction with wind speed upto 08-12 kmph till evening. It would decrease thereafter becoming less than 08 kmph from northwest direction during night. Smog/shallow fog is likely in the evening/night.

26.11.2024: Mainly clear sky. The predominant surface wind is likely to be from northwest direction with speed less than 08 kmph during morning hours. Smog/ shallow to moderate fog is likely in the morning. The wind speed will increase thereafter becoming less than 12 kmph from northwest direction during afternoon. It will decrease thereafter becoming less than 08 kmph from northwest direction during evening and night. Smog/ shallow fog is likely in the evening/night.

27.11.2024: Mainly clear sky. The predominant surface wind is likely to be from variable direction with speed less than 04 kmph during morning hours. Smog/ moderate fog is likely in the morning. The wind speed will gradually increase becoming 04-06 kmph from north direction during afternoon. It will decrease thereafter becoming less than 04 kmph from variable direction during evening and night. Smog/ shallow to moderate fog is likely in the evening/night.

28.11.2024: Mainly clear sky. The predominant surface wind is likely to be from variable direction with wind speed less than 04 kmph during morning hours. Smog/ moderate to dense fog in the morning. The wind speed will increase thereafter becoming 04-06 kmph from variable direction during afternoon. It will gradually decrease becoming less than 04 kmph from variable direction during evening and night. Smog/ shallow to moderate fog is likely in the evening/night.

iv. Fishermen & Wind Warnings (Annexure IV):

- Fishermen are advised not venture into
  - ✓ southeast Bay of Bengal & east Equatorial Indian Ocean on 25th November, 2024.
  - ✓ southwest Bay of Bengal and along & off Sri Lanka coast till 29th November, 2024.
  - ✓ Westcentral Bay of Bengal during 26th-29th November 2024.
  - ✓ and along & off Tamil Nadu – Puducherry coasts till 29th November and along & off south Andhra Pradesh coast during 26th to 29th November 2024.
- Fishermen out at sea are advised to return to coasts today, the 25th November, 2024.

Wind Warnings

- ✓ Squally wind speed reaching 40-50 kmph gusting to 60 kmph is very likely to prevail over southwest Bay of Bengal, adjoining southeast Bay of Bengal and along & off Sri Lanka coast on 25th November. Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph along & off Tamil Nadu - Puducherry coasts.
- ✓ Squally wind speed reaching 50-60 kmph gusting to 70 kmph is very likely to prevail over southwest Bay of Bengal and adjoining westcentral Bay of Bengal and along & off Tamil Nadu - Puducherry and south Andhra Pradesh coasts on 26th and likely to increase becoming 55- 65 kmph gusting to 75 kmph during 27th to 29th November over the same region.

For more details, kindly refer National Weather Bulletin:
https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php
For District wise warnings refer: https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php
For Fishermen warnings & National bulletin for depression over Bay of Bengal, kindly refer:
https://rsmcnewdelhi.imd.gov.in/uploads/archive/51/51_bdf575_GRAPHIC.png
https://rsmcnewdelhi.imd.gov.in/uploads/archive/1/1_72e1e7_1.%20National%20Bulletin%20No%201-25Nov2024_0830IST.pdf

ANNEXURE I

Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 25.11.2024 (in cm):

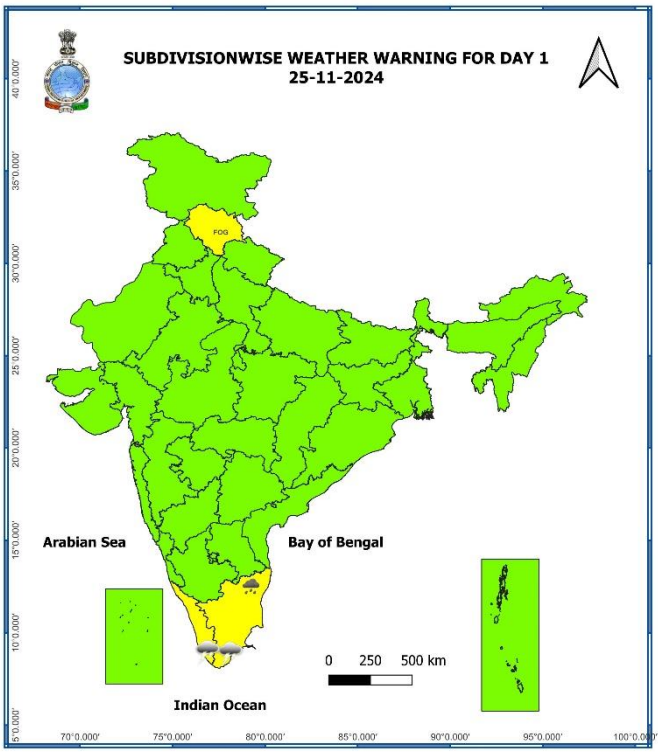
- **Andaman & Nicobar Islands:** Car Nicobar (dist Nicobar) 3, Iaf Carnicobar (dist Nicobar) 3, Nancowry (dist Nicobar) 2, Hut Bay (dist South Andaman) 1

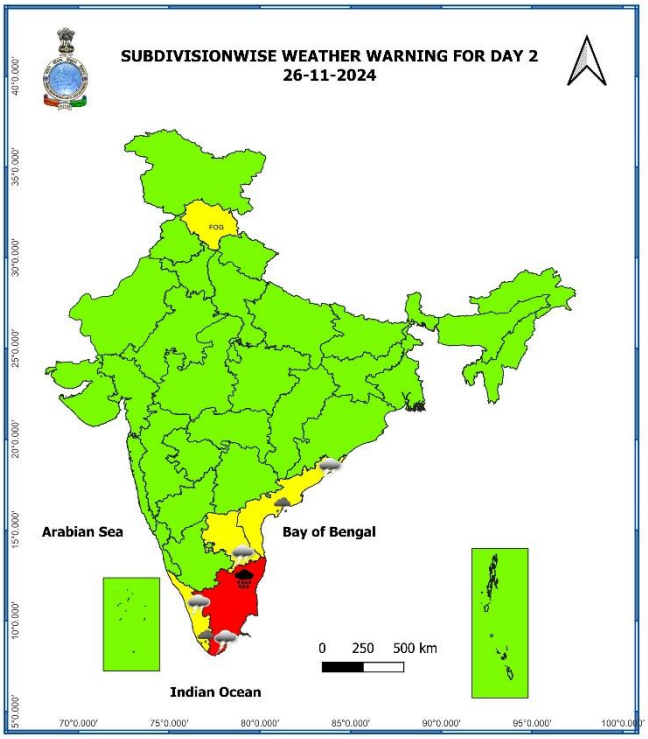
ANNEXURE II

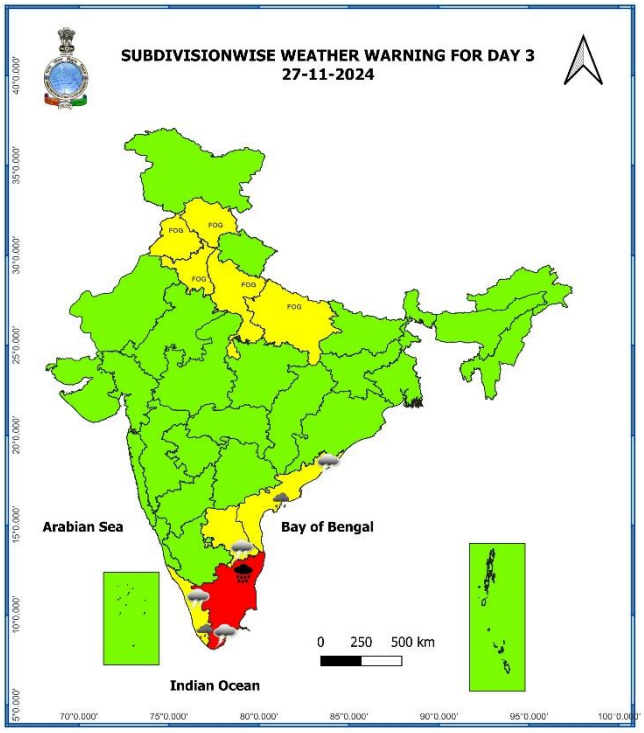
7 Days Rainfall Forecast								
S. No.	Subdivision	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov	01-Dec
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	FWS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	ISOL	ISOL	ISOL	DRY	DRY	DRY	ISOL
3	ASSAM & MEGHALAYA	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	DRY	DRY	ISOL	WS	WS	SCT	ISOL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
6	GANGETIC WEST BENGAL	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
7	ODISHA	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
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 CHANDIGARH & 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	ISOL	DRY
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	DRY	ISOL	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	GUJARAT 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	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH & YANAM	ISOL	ISOL	SCT	SCT	FWS	FWS	FWS
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
30	RAYALASEEMA	ISOL	ISOL	SCT	SCT	FWS	FWS	FWS
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL	FWS	FWS	SCT	SCT	SCT	SCT
32	COASTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
35	KERALA & MAHE	SCT	WS	FWS	SCT	SCT	FWS	FWS
36	LAKSHADWEEP	DRY	SCT	SCT	SCT	SCT	SCT	SCT

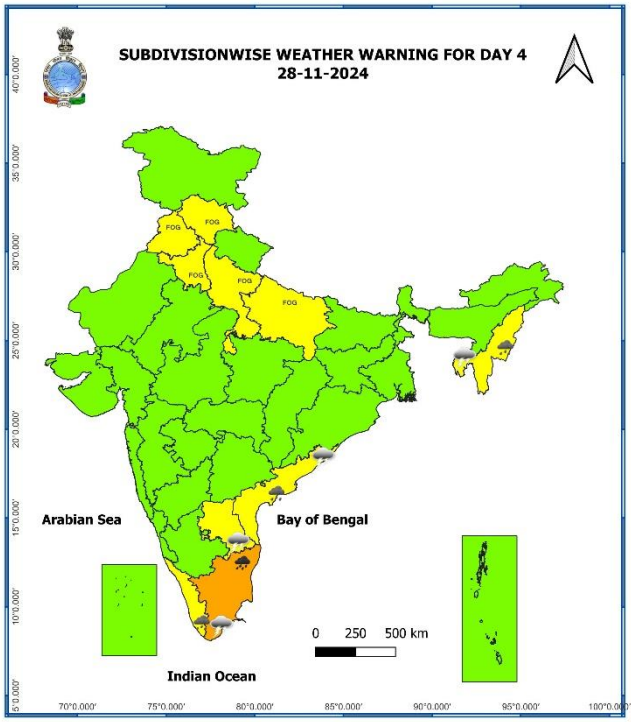
- **As the lead period increases forecast accuracy decreases.**

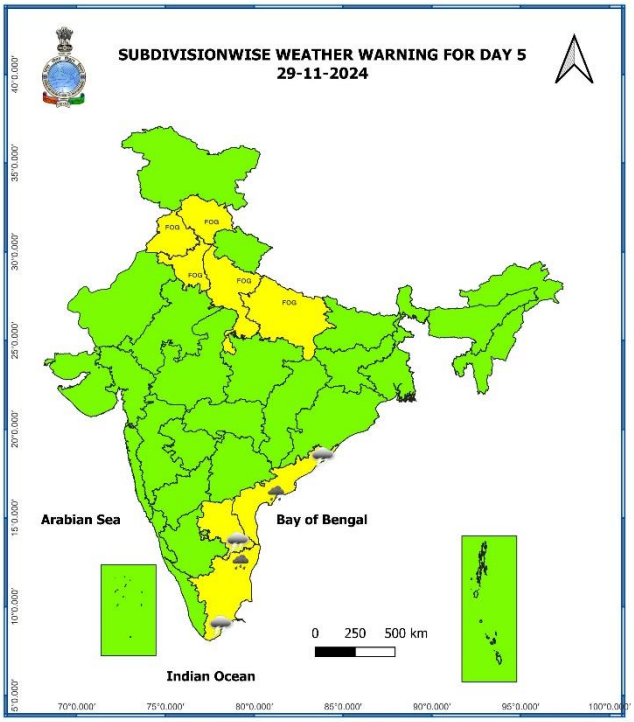
ANNEXURE III

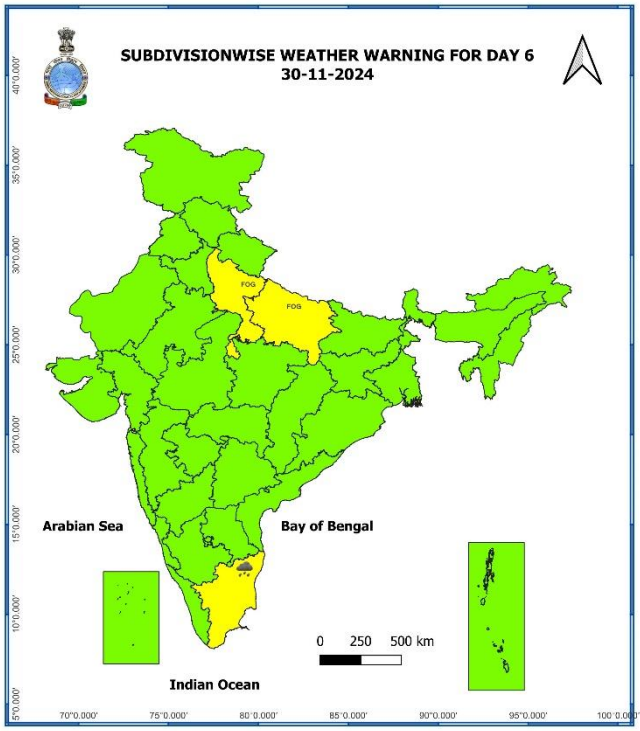


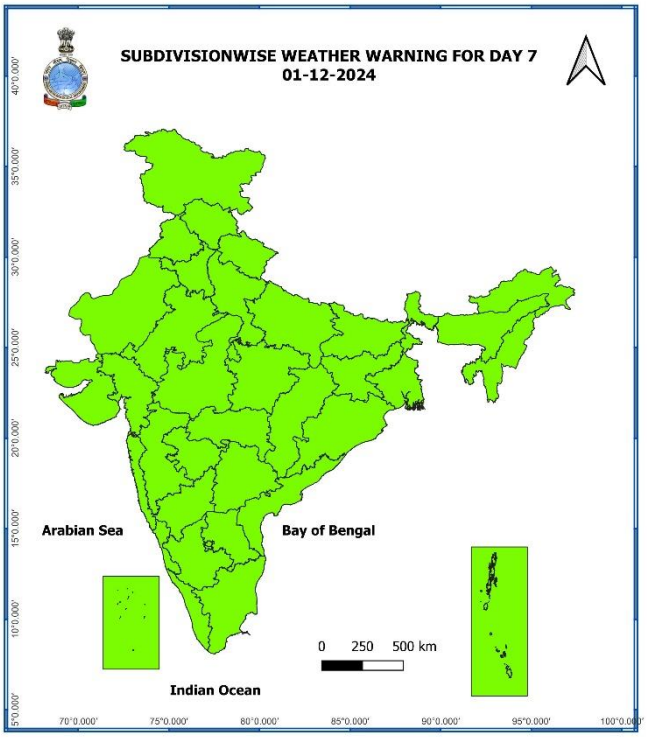








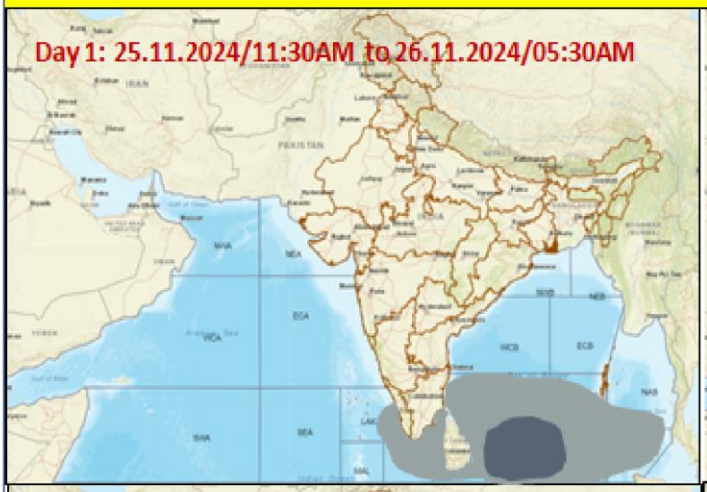


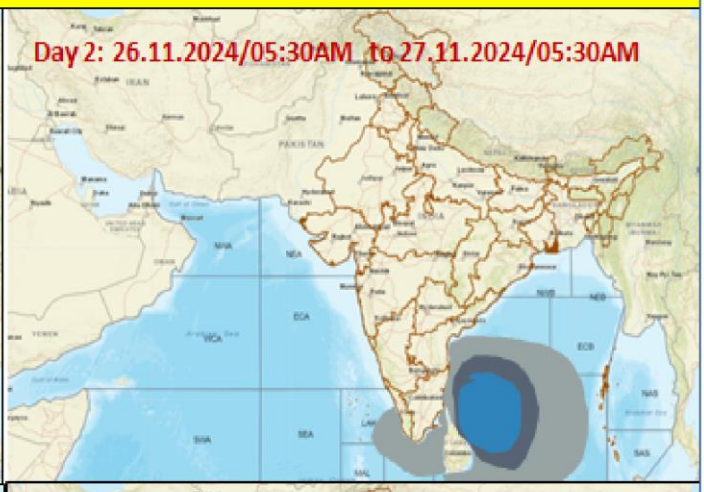


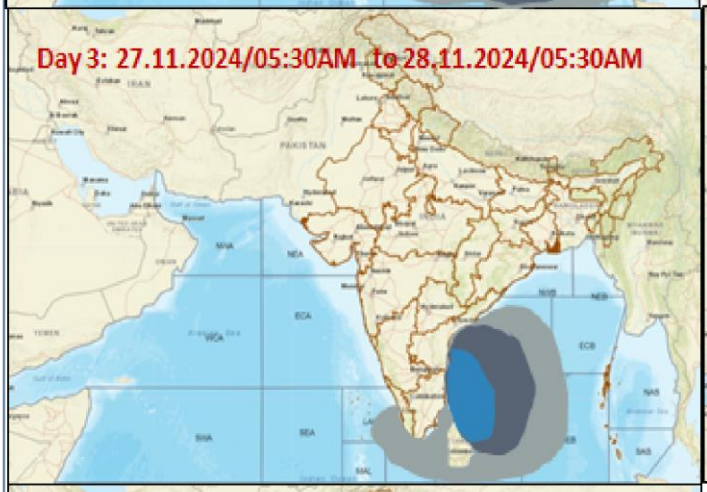
- **Action may be taken based on ORANGE AND RED COLOUR warnings.**
- **Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.**
- **As the lead period increases forecast accuracy decreases.**

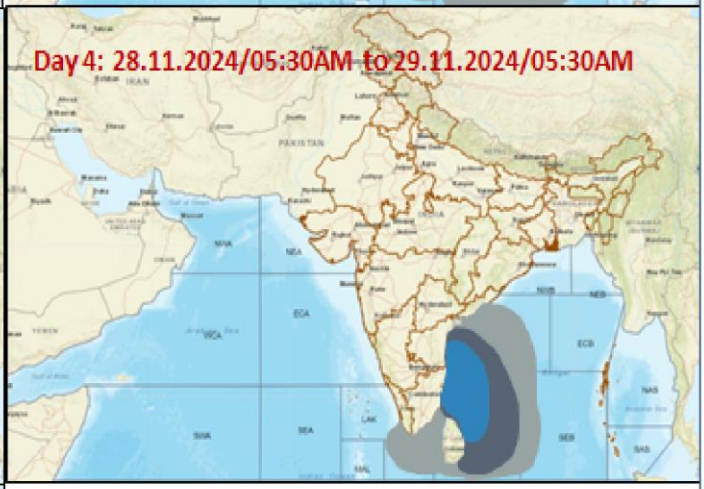
ANNEXURE IV

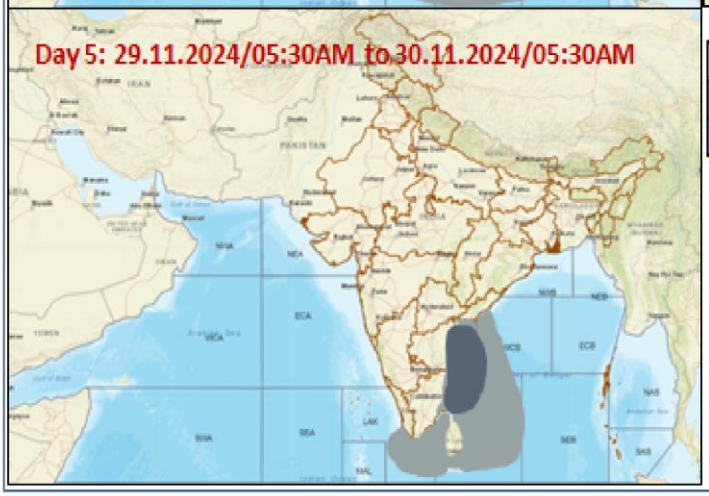
Fishermen Warning Graphics











	Squally Weather with wind speed 35-45 kmph gusting to 55 kmph
	Squally wind with speed 45-55 kmph gusting to 65 kmph
	Squally winds with speed 55-65 kmph gusting to 75 kmph

Fishermen are advised not to venture into the marked areas.

✓ **Impact & Action Suggested due to isolated extremely heavy rainfall** very likely over coastal Tamil Nadu & Puducherry on 26th & 27th November and **isolated heavy to very heavy rainfall** over coastal Tamil Nadu & Puducherry on 25th & 28th November.

A. **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
❖ 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).

B. 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.

Impact expected due to dense fog in the night /morning hour:

❖ Transport and Aviation:

- May affect some airports, highways and railway routes in the areas of met- sub-division.
- Difficult driving conditions with slower journey times.
- Unless taken precautionary measures, it may lead to some road traffic collisions.

❖ Power Sector:

- Chances of Tripping of Power lines in the very dense fog routes.

❖ Human Health:

- Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath.
- Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
- Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

❖ Transport and Aviation:

- Be careful while driving or outing through any transport.
- Use fog lights during driving.
- Be in touch with airlines, railways and state transport for schedule of your journey.

❖ Power Sector:

- To keep ready Maintenance Team
- Human Health: To avoid outing until unless emergency and to cover the face.

Agromet advisories for Heavy Rainfall likely over various parts of the country

- Provide adequate drainage facilities for the removal of excess water from rice, cotton, sugarcane, turmeric and vegetable fields, coconut and banana orchards. Undertake propping in sugarcane. 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.

Legends & abbreviations:

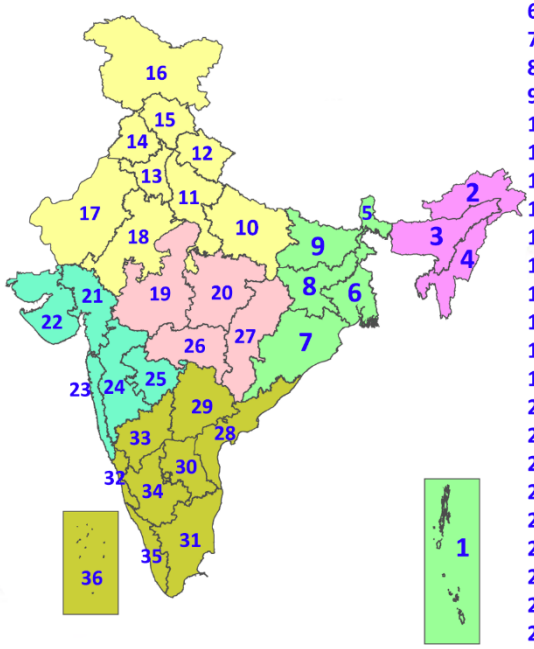
- **Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- **Obsy:** Observatory; **AWS:** Automatic Weather Station; **ARG:** Automatic Rain Gauge; **dist:** District: **NH:** National Highway; **KVK**: Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO**: Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- **Region wise classification of meteorological Sub-Divisions:**
  - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
  - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
  - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
  - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
  - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.
  - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और 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. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & 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. Vidarbha
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)

Fog
Heavy Rain
Very Heavy Rain
Extremely Heavy Rain
Thunder & Lightning
Hailstorm
Dust Raising Winds

Heavy Snow
Dust Storm
Heat Wave
Warm Night
Hot Day
Hot & Humid
Strong Surface Winds

Cold Wave
Cold Day
Ground Frost

COLOUR CODED WARNING

- No Warning (No Action)
- Watch (Be Aware)
- 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

* Red colour warning does not mean "Red Alert", Red colour 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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(Service to the Nation since 1875)

DEFINITION/CRITERIA

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)

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