



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 13th October, 2024

Time of Issue: 1230 hours IST

Subject:(i) Northeast Monsoon rainfall activity is like to commence over south eastern peninsular India around 15-16th October.

(ii) The Well marked low pressure area over eastcentral Arabian sea is likely to move west-northwestwards and intensify into a Depression over central Arabian Sea during next 12 hours.

(iii) A low pressure area is likely to form over central parts of south Bay of Bengal around 14th October.

(iv) Isolated very heavy to extremely heavy rainfall likely over Tamil Nadu and Andhra Pradesh during 15-17th October.

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

Heavy to very Heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal; **Heavy rainfall** at isolated places over East Rajasthan, West Madhya Pradesh, Gujarat State, Odisha.

On further Withdrawal of Southwest Monsoon and Onset of Northeast Monsoon

- ❖ **Southwest Monsoon** has further withdrawn from remaining parts of Bihar, Jharkhand, entire West Bengal & Sikkim; some more parts of Chhattisgarh, Madhya Pradesh; many parts of Odisha and some parts of Assam & Meghalaya, northwest Bay of Bengal. The **line of withdrawal of Southwest Monsoon** now passes through 28.5°N/89.5°E, 27.0°N/90.0°E Dhubri, Tura, 22°N/89°E, 20°N/87°E, Gopalpur, Raipur, 22.5°N/79.5°E, Khargone, Nandurbar, Navsari and 20°N/70°E.
- ❖ Conditions are favourable for further **withdrawal of Southwest Monsoon** from remaining parts of Gujarat, Madhya Pradesh, Chhattisgarh, Odisha & some more parts of Maharashtra and north Bay of Bengal during next 2 days.
- ❖ Thereafter **Southwest Monsoon** likely to withdraw remaining parts of the country during subsequent 2 days. Simultaneously with the setting in of easterly & northeasterly winds over southern peninsular India, south & adjoining central Bay of Bengal, the **Northeast Monsoon** rainfall activity is like to commence over south eastern peninsular region during the same period.

Weather Systems:

- ✓ The **Well Marked Low pressure area** over eastcentral & adjoining westcentral Arabian sea persisted over the same region at 0830 hours IST of today, the 13th October 2024. It is likely to move west-northwestwards and intensify into a **Depression** over central Arabian Sea during next 12 hours.
- ✓ The upper air **cyclonic circulation** over southwest Bay of Bengal now lies over north interior Tamil Nadu in lower tropospheric levels tilting southwestward with height.
- ✓ A **trough runs** from centre of the Well Marked Low pressure area over eastcentral & adjoining westcentral Arabian sea to Comorin area across south Kerala and the cyclonic circulation over Tamil Nadu in low to mid tropospheric levels.
- ✓ The **cyclonic circulation** over southeast Bay of Bengal & adjoining equatorial Indian Ocean moved west-northwestwards & lay over southeast Bay of Bengal and extending upto 5.8 km above mean sea level at 0830 hours IST of today, the 13th October 2024. Under its influence, a **low pressure area** is likely to form over central parts of south Bay of Bengal around 14th October. It is likely to become **Well marked low pressure area** and move west-northwestwards towards north Tamil Nadu, Puducherry and adjoining south Andhra Pradesh coasts during subsequent 48 hours.
- ✓ The upper air **cyclonic circulation** over east Assam & neighbourhood persists in lower tropospheric levels.

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

South Peninsular India

- ✓ Fairly widespread to widespread light to moderate rainfall very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Karnataka; Scattered to Fairly widespread light to moderate rainfall over Coastal Andhra Pradesh & Yanam, Rayalaseema; Isolated to Scattered light to moderate rainfall very likely over Telangana during the week.
- ✓ **Isolated extremely heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal, Rayalaseema on 16th October.
- ✓ **Isolated very heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal during 13th-17th; km on 17th & 18th; Coastal Andhra Pradesh & Yanam on 15th & 16th; Rayalaseema during 15th -17th; Coastal & South Interior Karnataka on 17th October.
- ✓ **Isolated heavy rainfall** very likely over Kerala & Mahe during the week; Coastal Andhra Pradesh & Yanam, Rayalaseema during 13th-17th; Rayalaseema during 14th-17th Coastal & South Interior Karnataka during 15th-18th; North Interior Karnataka on 17th & 18th October.

West & Central India

- ✓ Scattered to Fairly widespread light to moderate rainfall very likely over Gujarat State during 2 days; Isolated to Scattered light to moderate rainfall over same region during subsequent 5 days; Isolated to Scattered light to moderate rainfall over Konkan & Goa, Madhya Maharashtra, Marathwada, Madhya Pradesh, Vidarbha, Chhattisgarh during the week.
- ✓ **Isolated heavy rainfall** very likely over Madhya Maharashtra, Gujarat State, West Madhya Pradesh on 13th; Konkan & Goa on 17th October.

Northwest India:

- ✓ Isolated light to moderate rainfall very likely over Rajasthan on 13th & 14th October.
- ✓ **Isolated heavy rainfall** very likely over East Rajasthan on 13th October.

Northeast & East India:

- ✓ No significant rainfall likely over these regions during the week.

Fishermen warning

Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail central parts of Arabian sea southern parts of north Arabian sea, along and off Somalia coast, many parts of southwest Arabian sea and adjoining parts of southeast Arabian sea, along and off Kerala, Karnataka coasts and adjoining Lakshadweep area, over Comorin area, Gulf of Mannar, along and off Sri Lanka coast, Tamil Nadu coast, south Bay of Bengal.

Southwest Monsoon withdrawal Map (ANNEXURE IV)

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

For Fishermen warnings, kindly refer:

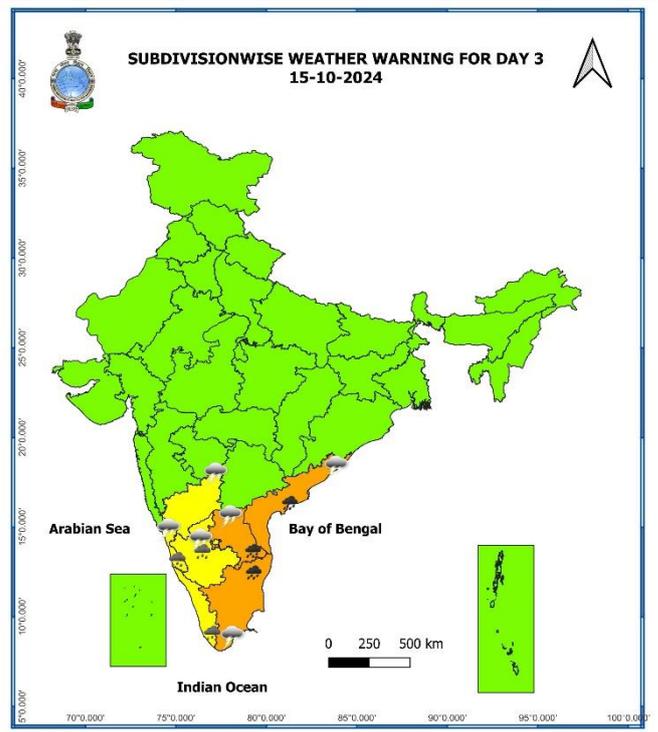
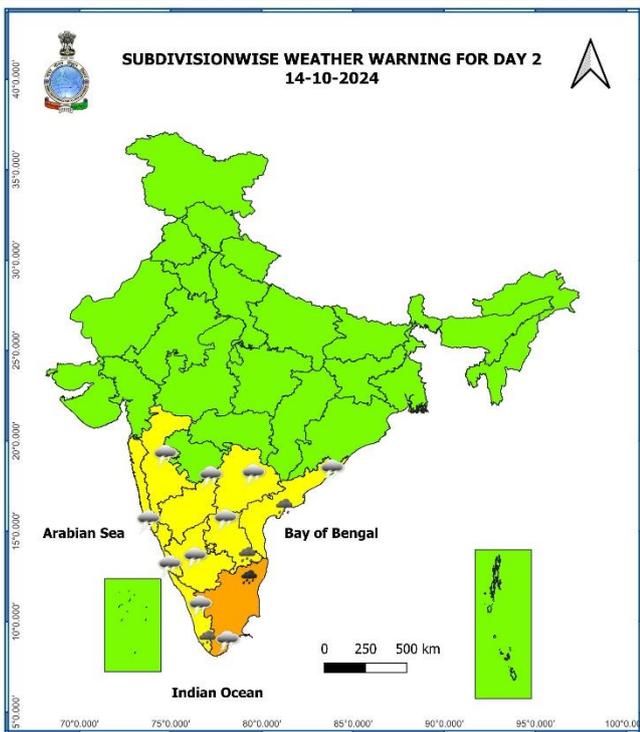
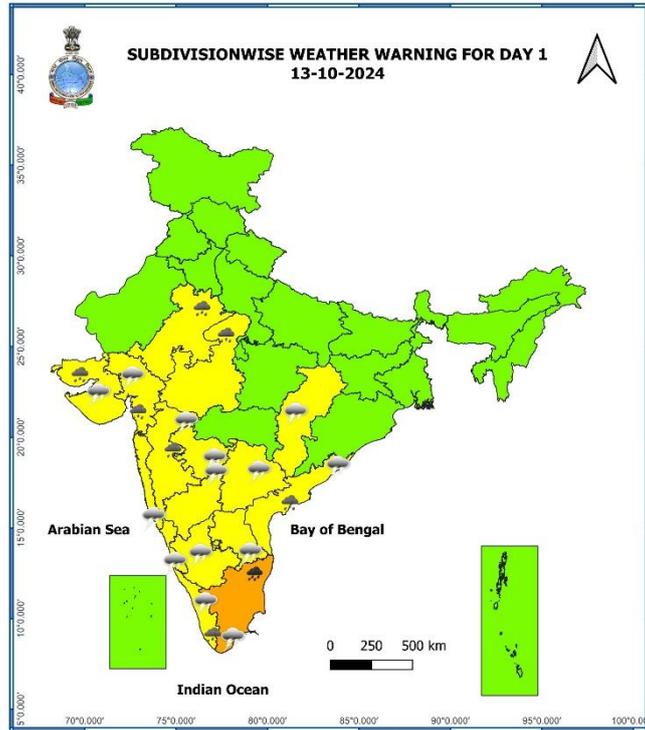
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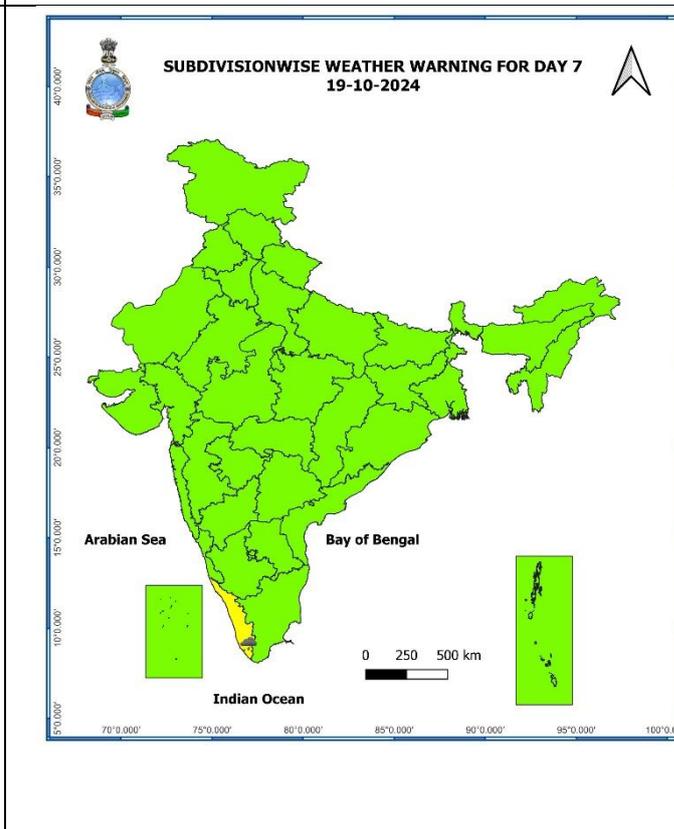
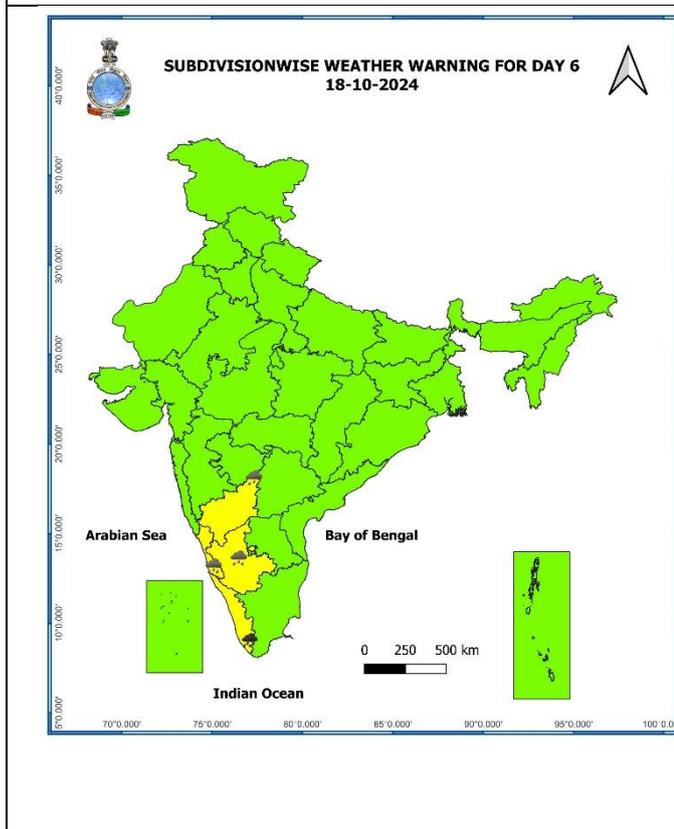
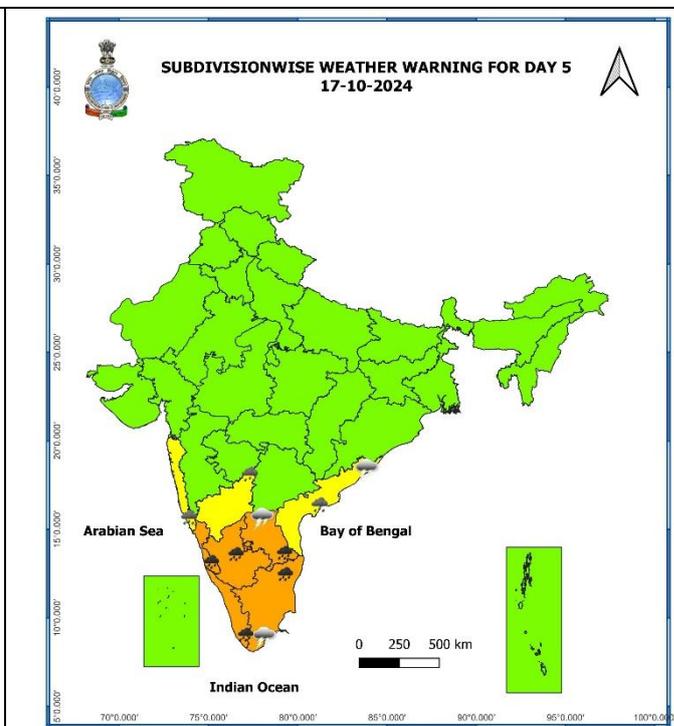
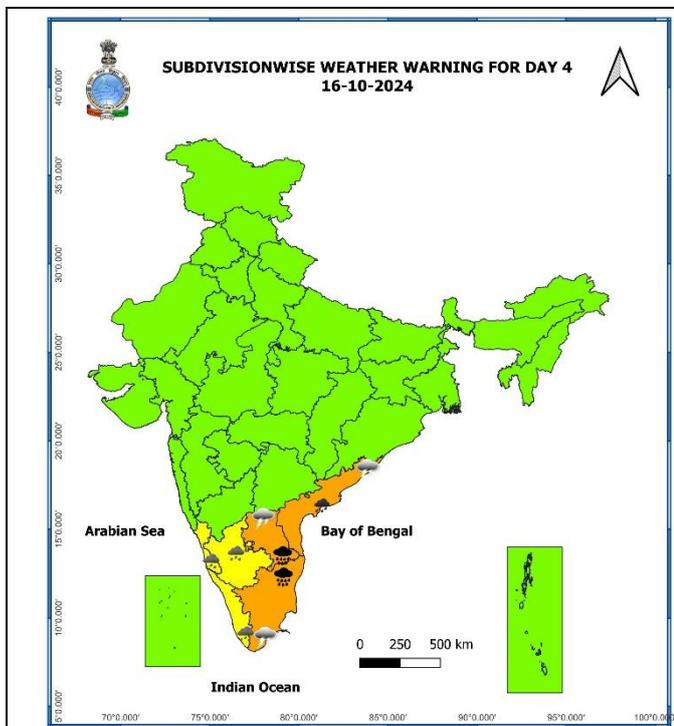
Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 13.10.2024 (in cm):

- ❖ **Tamil Nadu, Puducherry & Karaikal:** Madurai AWS (dist Madurai) 16, Tirupuvanam (dist Sivagangai) 14, Sivakasi (dist Virudhunagar), Tallakulam (dist Madurai), Rameswaram (dist Ramanathapuram), Periyapatti (dist Madurai), Vettikadu (dist Thanjavur) 12 each, Madurai North (dist Madurai) 11, Kovilankulam (dist Virudhunagar), Aruppukottai KVK AWS (dist Virudhunagar), Thaniamangalam (dist Madurai), Ponnaniyar Dam (dist Thiruchirappalli), Mettupatti (dist Madurai) 10 each, Devakottai (dist Sivagangai), Pulipatti (dist Madurai), Melur (dist Madurai), Avudayarkoil (dist Pudukkottai) 9 each, Viraganur Dam (dist Madurai), Tiruchengode (dist Namakkal), Kodaikanal (dist Dindigul), Harur (dist Dharmapuri) 8 each, Singampunari (dist Sivagangai), Ariyalur Taluk Office (dist Ariyalur), Ariyalur PTO (dist Ariyalur), Idayapatti (dist Madurai), Mayanur (dist Karur), Padalur (dist Perambalur), Thirukoilur ARG (dist Kallakurichi), Krishnarayapuram (dist Karur), Palani (dist Dindigul), Pullambadi (dist Thiruchirappalli), Ariyalur AWS (dist Ariyalur), Kallikudi (dist Madurai), Eraiyur (dist Perambalur), Usilampatti (dist Madurai), Mannargudi (dist Thiruvarur) 7 each,
- ❖ **East Rajasthan:** Udaipur/d-aero (dist Udaipur) 9, Girva Sr (dist Udaipur) 8, Jhadol Sr (dist Udaipur) 7,
- ❖ **West Madhya Pradesh:** Neemuch (dist Jawad) 8,
- ❖ **Saurashtra & Kutch:** Malia (dist Junagadh) 8,
- ❖ **Gujarat Region:** Surat_kvK Aws (dist Surat) 7,
- ❖ **Odisha:** Chandua Kuliana (dist Mayurbhanj) 7,

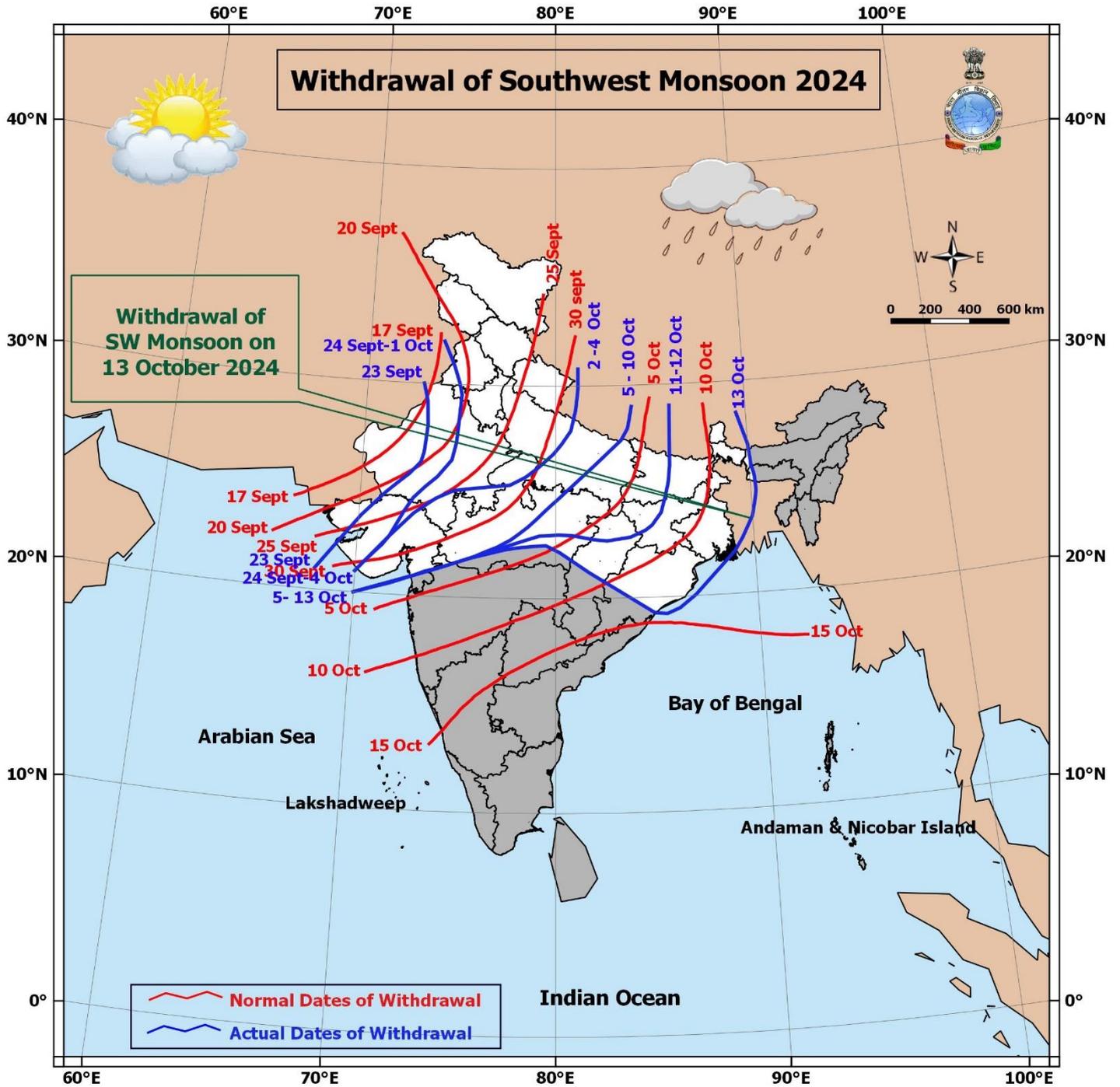
7 Days Rainfall Forecast								
S. No.	Subdivision	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	WS	WS	WS	FWS	FWS	FWS	WS
2	ARUNACHAL PRADESH	FWS	SCT	SCT	SCT	ISOL	ISOL	ISOL
3	ASSAM & MEGHALAYA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL						
6	GANGETIC WEST BENGAL	ISOL	DRY	ISOL	ISOL	ISOL	SCT	SCT
7	ODISHA	ISOL						
8	JHARKHAND	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
9	BIHAR	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY						
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	DRY						
14	PUNJAB	DRY						
15	HIMACHAL PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	ISOL
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	DRY	ISOL	ISOL	ISOL	DRY
17	WEST RAJASTHAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	SCT	SCT	ISOL	ISOL	DRY	DRY	ISOL
20	EAST MADHYA PRADESH	ISOL						
21	GUJARAT REGION	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
22	SAURASHTRA & KUTCH	FWS	SCT	ISOL	ISOL	ISOL	DRY	DRY
23	KONKAN & GOA	SCT	SCT	ISOL	ISOL	SCT	SCT	SCT
24	MADHYA MAHARASHTRA	SCT	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
25	MARATHAWADA	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
26	VIDARBHA	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	ISOL						
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	FWS	FWS	FWS	SCT	SCT
29	TELANGANA	ISOL						
30	RAYALASEEMA	SCT	FWS	FWS	WS	FWS	SCT	SCT
31	TAMILNADU PUDUCHERRY & KARAIKAL	FWS	FWS	SCT	FWS	SCT	ISOL	ISOL
32	COASTAL KARNATAKA	SCT	WS	WS	WS	WS	FWS	SCT
33	NORTH INTERIOR KARNATAKA	FWS	FWS	FWS	FWS	FWS	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	WS	WS	WS	WS	WS	FWS	SCT
35	KERALA & MAHE	WS	WS	WS	WS	WS	WS	FWS
36	LAKSHADWEEP	WS	FWS	FWS	FWS	FWS	FWS	FWS

- As the lead period increases forecast accuracy decreases.





- 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.



Impact due to

- ✓ **Isolated extremely heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal, Rayalaseema on 16th October.
- ✓ **Isolated very heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal during 13th-17th; Kerala & Mahe on 17th & 18th; Coastal Andhra Pradesh & Yanam on 15th & 16th; Rayalaseema during 15th -17th; Coastal & South Interior Karnataka on 17th October.

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 and roadways 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/mud slips/land sinks/mud sinks.
- ✓ Damage to horticulture and standing crops in some areas due to inundation and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

- ✓ Judicious regulation of surface transports including railways and roadways.
- ✓ 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 Heavy Rainfall likely over various parts of the country

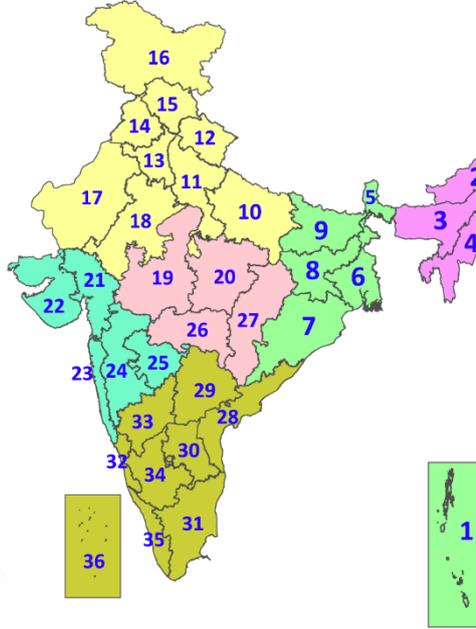
- ✓ In **Tamil Nadu**, drain out excess water from rice nurseries and fields of rice, maize, pepper and newly planted turmeric. Provide support to banana plantations.
- ✓ Make necessary arrangements for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in East Rajasthan, West Madhya Pradesh, Vidarbha, Madhya Maharashtra, Gujarat, Kerala, Coastal Karnataka, South Interior Karnataka and Andhra Pradesh.
- ✓ Keep the harvested produce at safer places.
- ✓ Provide mechanical support to horticultural crops & 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.

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. रायलसेमा
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 Snow | Cold Wave |
| Heavy Rain | Dust Storm | Cold Day |
| Very Heavy Rain | Heat Wave | Ground Frost |
| Extremely Heavy Rain | Warm Night | |
| Thunder & Lightning | Hot Day | |
| Hailstorm | Hot & Humid | |
| Dust Raising Winds | Strong Surface Winds | |

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.
For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599
(Service to the Nation since 1875)

DEFINITION/CRITERIA

Rain/ Snow *	<p>Heavy: 64.5 to 115.5 mm/cm *</p> <p>Very Heavy: 115.6 to 204.4 mm/cm*</p> <p>Extremely Heavy: > 204.4 mm/cm *</p>
Heat Wave	<p>When maximum temperature of a station reaches $\geq 40^\circ\text{C}$ for plains and $\geq 30^\circ\text{C}$ for hilly regions</p> <p>(a) Based on Departure from normal</p> <p>Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C.</p> <p>Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$</p> <p>(b). Based on Actual maximum temperature</p> <p>Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.</p> <p>Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$</p> <p>(c). Criteria for heat wave for coastal stations</p> <p>When maximum temperature departure is $>4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$</p>
Warm Night	<p>When maximum temperature remains 40°C</p> <p>Warm Night: When minimum temperature departure 4.5°C to 6.4°C.</p> <p>Severe Warm Night: When minimum temperature departure $>6.4^\circ\text{C}$.</p>
Cold Wave	<p>When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions.</p> <p>(a). Based on departure</p> <p>Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^\circ\text{C}$</p> <p>(b) Based on actual Minimum Temperature (for Plains only)</p> <p>Cold Wave : When Minimum Temperature is $\leq 4.0^\circ\text{C}$</p> <p>Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ\text{C}$</p> <p>(c) For Coastal Stations</p> <p>When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$</p>
Cold Day	<p>When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions</p> <p>Based on departure</p> <p>Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C.</p> <p>Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^\circ\text{C}$</p>
Fog	<p>Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$</p> <p>Moderate Fog: When the visibility between 500-200 metres</p> <p>Dense Fog: when the visibility between 50- 200 metres</p> <p>Very Dense Fog: when the visibility < 50 metres</p>
Thunderstorm	<p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
Dust/Sand Storm	<p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
Frost	<p>Ice deposits on ground</p> <p>Air temperature $\leq 4^\circ\text{C}$ (over Plains)</p>
Squall	<p>A strong wind that rises suddenly, lasts for atleast 1 minute.</p> <p>Moderate: Wind speed 52-61 kmph</p> <p>Severe: Wind speed 62-87 kmph</p> <p>Very Severe: Wind speed >87 kmph</p>
Sea State	<p>Effect of various waves in the sea over specific area</p> <p>Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre</p> <p>High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre</p> <p>Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre</p>
Cyclone	<p>Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)</p> <p>Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)</p> <p>Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)</p> <p>Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)</p> <p>Super Cyclone Strom: Wind speed >220 kmph (>119 knots)</p>

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