

2026-10-16

Time of Issue: 13:32:00 hours IST
(Mid-Day)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Systems and Warnings:

South Peninsular India:

- **Fairly Widespread to Widespread** rainfall likely over Coastal Karnataka, Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal during 16th-22nd October; North Interior Karnataka on 19th October.
- **Isolated to Scattered** rainfall likely over North Interior Karnataka during 16th-18th October and during 20th-22nd October; Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana during 16th-22nd October.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 16th-22nd October; Kerala & Mahe and Lakshadweep on 16th October; Coastal Andhra Pradesh & Yanam and Rayalaseema during 17th-18th October, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Kerala & Mahe during 17th-20th October; North Interior Karnataka and South Interior Karnataka during 16th-18th October; Coastal Andhra Pradesh & Yanam and Rayalaseema on 16th October; Telangana during 16th-20th October.
- Isolated **thunderstorm & lightning** likely over Coastal Karnataka during 16th-18th October.
- Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 21st-22nd October; Kerala & Mahe during 16th-22nd October; Lakshadweep during 20th-22nd October; Coastal Karnataka during 17th-19th October; North Interior Karnataka on 16th October; South Interior Karnataka during 18th-22nd October; Coastal Andhra Pradesh & Yanam and Rayalaseema during 16th-18th October with isolated **very heavy rainfall** also likely over Tamil Nadu, Puducherry & Karaikal during 16th-20th October; Coastal Karnataka on 16th October; South Interior Karnataka during 16th-17th October.
- Strong Surface Winds likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 16th-18th October.

Northwest India:

- **Isolated to Scattered** rainfall likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 16th-18th October and during 21st-22nd October; Himachal Pradesh on 16th October; Uttarakhand during 16th-18th October.
- **Isolated to Scattered** rainfall likely over East Uttar Pradesh, Haryana Chandigarh & Delhi, West Rajasthan and West Uttar Pradesh on 16th October; East Rajasthan during 16th-17th October.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Uttarakhand on 16th October.
- Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over West Uttar Pradesh on 16th October, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over West Rajasthan on 16th October.
- Isolated **Hailstorm** activity likely over West Uttar Pradesh on 16th October.

West, Central, East & Northeast India:

- No significant weather likely over West, Central, East & Northeast India during the week.

Heat Wave, Hot & Humid weather and Warm Night conditions warning:

- **Hot and humid** weather conditions likely to prevail over Konkan & Goa on 16th October.

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

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Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places** over Kerala & Mahe; **at many places** over Haryana-Chandigarh-Delhi, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka and South Interior Karnataka; **at a few places** over Odisha, West Uttar Pradesh, Punjab, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Coastal Andhra Pradesh & Yanam, Rayalaseema and Lakshadweep; **at isolated places** over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, Bihar, Uttarakhand, West Rajasthan, West Madhya Pradesh, Konkan & Goa, Chhattisgarh, Telangana and North Interior Karnataka; **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, Puducherry & Karaikal**: Adayamadai (dist Kanyakumari) 18; Pollachi (dist Coimbatore), Pwd Makkinampatti (dist Coimbatore) 15 Each; Erode (dist Erode), K.paramathi (dist Karur), Perunchani Dam (dist Kanyakumari) 13 Each; Palani (dist Dindigul), Vaigai Dam (dist Theni) 12 Each; Panchapatti (dist Karur), Chittar (dist Kanyakumari), Puthan Dam (dist Kanyakumari), Anaikedanku (dist Kanyakumari) 11 Each; Perambalur (dist Perambalur), Theni Andipatti (dist Theni), Sivagiri (dist Tenkasi), Uthukuli (dist Tiruppur), Kurunthancode (dist Kanyakumari), Mambzhathuraiyaru (dist Kanyakumari), Palani ARG (dist Dindigul) 10 Each; Periyakulam (dist Theni), Vathalai Anaicut (dist Trichy), Palladam (dist Tiruppur), Sivalogam(chittar li) (dist Kanyakumari), Podanur Railway Station (dist Coimbatore), Modakkurichi (dist Erode), Thirparappu (dist Kanyakumari) 9 Each; Dharapuram (dist Tiruppur), Thuckalay (dist Kanyakumari), Namakkal (dist Namakkal), Paramathivelur (dist Namakkal), Periyakulam AWS (dist Theni), Kalial (dist Kanyakumari), Kodanad (dist Nilgiris), Manjalar (dist Theni) 8 Each; Bhavani (dist Erode), Pechiparai (dist Kanyakumari), Thuraiyur (dist Trichy), Sothuparai (dist Theni), Madukkarai Taluk Office (dist Coimbatore), Oothu (dist Tirunelveli), Nambiyar Dam (dist Tirunelveli) 7 Each; Ap Peelamedu (dist Coimbatore), Sulur (dist Coimbatore), Tiruppur North (dist Tiruppur), Bhavanisagar (dist Erode), Kangeyam (dist Tiruppur), Usilampatti (dist Madurai), Poondi (dist Tiruvallur), Chengam (dist Tiruvannamalai), Sirukudi (dist Trichy), Kundadam (dist Tiruppur), Vellakoil (dist Tiruppur), Dc Office Tiruppur (dist Tiruppur), Kunderipallam (dist Erode), Pwd Tiruppur (dist Tiruppur), Tiruppur South (dist Tiruppur) 6 Each; **Coastal Karnataka**: Belthangadi (dist Dakshina Kannada) 12; Dharmasthala (dist Dakshina Kannada) 10; Karkala (dist Udupi), Subramanya (dist Dakshina Kannada) 6 Each; **Kerala & Mahe**: Palakkad (dist Palakkad), Malampuzha Dam AWS (dist Palakkad) 10 Each; Perumpavur (dist Ernakulam) 9; Mannarkkad AWS (dist Palakkad) 7; Nilambur (dist Malappuram), Irikur (dist Cannur), Chittur (dist Palakkad), Anayirankal Dam AWS (dist Idukki), Kuppadi AWS (dist Wynad), Ams Kannur (dist Cannur) 6 Each; **South Interior Karnataka**: Kottigehara (dist Chikkamagaluru) 10; Napoklu (dist Kodagu), Srimangala (dist Kodagu) 8 Each; Hunsur (dist Mysuru), Sargur (dist Mysuru), Gundlupet (dist Chamarajanagar), Santhahalli (dist Kodagu) 7 Each; Kalasa (dist Chikkamagaluru), N R Pura (dist Chikkamagaluru) 6 Each; **Chhattisgarh**: Chhindigarh (dist Sukma) 9; **Haryana-Chandigarh-Delhi**: Samalkha (dist Panipat), Bapouli (dist Panipat), Water Service Div AWS (dist Palwal) 6 Each; **West Uttar Pradesh**: Khedda (dist Baghpat) 6; **East Rajasthan**: Nagar SR (dist Bharatpur), Udaipur-wati (dist Jhunjhunu) 6 Each.

❖ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy rain** at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Karnataka. **Heavy rain** at isolated places over Chhattisgarh, South Interior Karnataka and Kerala & Mahe.

❖ **Minimum Temperature Departures (as on 16-10-2026)**: **markedly above normal(> 5.1°C)** at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Odisha, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh and Madhya Maharashtra. **appreciably above normal(3.1°C to 5.0°C)** at many places over Gujarat Region; at few places over West Rajasthan and North Interior Karnataka; at isolated places over Andaman & Nicobar Islands, Bihar, West Uttar Pradesh, Himachal Pradesh, East Madhya Pradesh, Saurashtra & Kutch and Telangana. **above normal(1.6°C to 3.0°C)** at many places over Chhattisgarh and Lakshadweep; at few places over Konkan & Goa, Rayalaseema and Coastal Karnataka; at isolated places over Gangetic West Bengal, Punjab, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Vidarbha, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at many places over Uttarakhand, Haryana-Chandigarh-Delhi and Kerala & Mahe; at most places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Jharkhand and Marathwada. **The lowest minimum temperature** of 13.2°C was reported at MANDI (HIMACHAL PRADESH) over the Plains of India.

❖ **Maximum Temperature Departures (as on 15-10-2026)**: **above normal(1.6°C to 3.0°C)** at most places over Konkan & Goa. **near normal(-1.5°C to 1.5°C)** at most places over West Rajasthan; at few places over Kerala & Mahe; at isolated places over Tamil Nadu, Puducherry & Karaikal. **The highest maximum temperature** of 40.0°C was reported at JAISALMER (RAJASTHAN).

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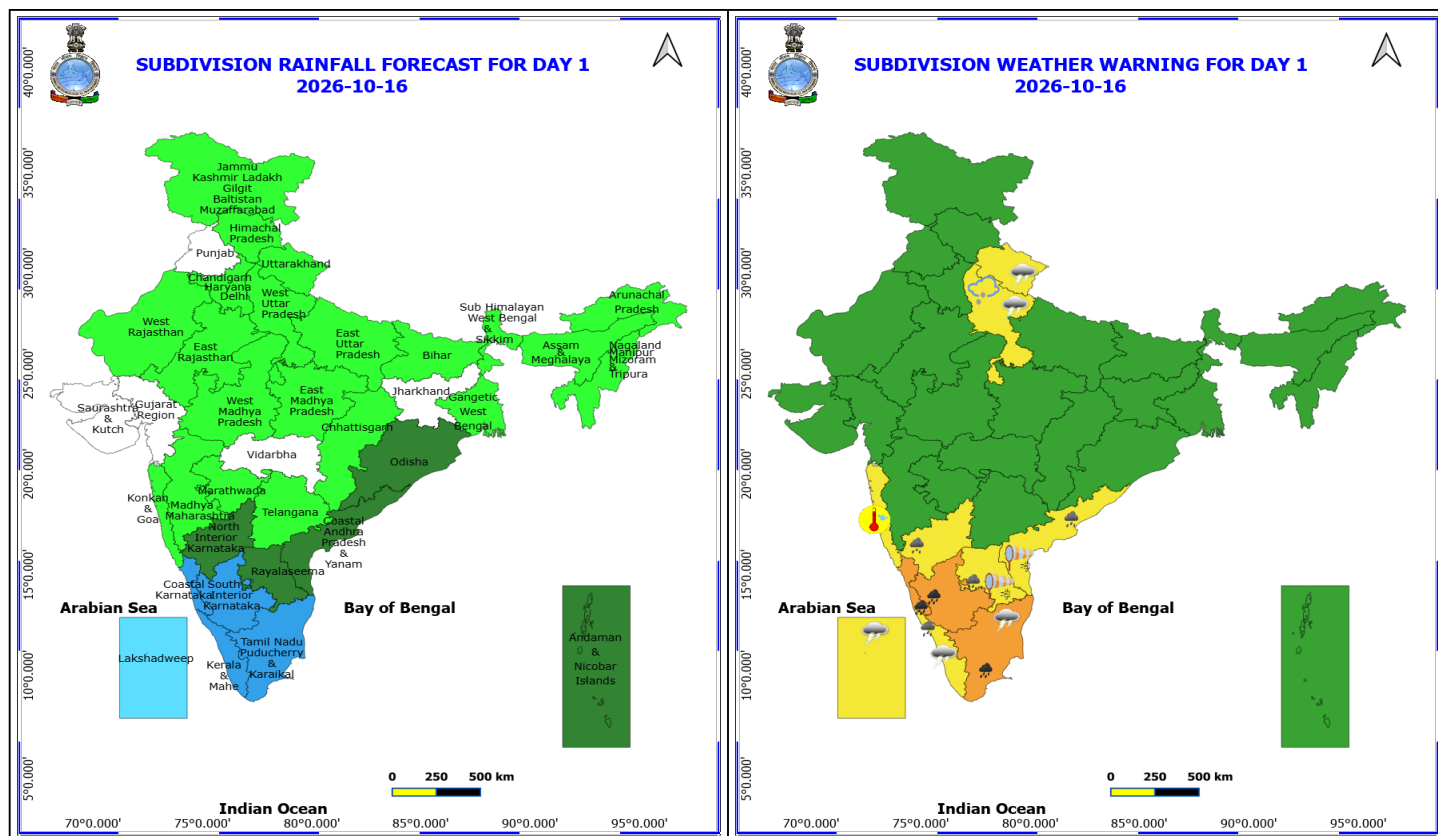
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Meteorological Analysis (Based on 0830 hours IST)

- The **Western Disturbance** as a **cyclonic circulation** over north Punjab & neighbourhood between 3.1 & 4.5 km above mean sea level persists.
- The **upper air cyclonic circulation** over south Haryana & adjoining north Rajasthan persists now seen at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** lies over south Rajasthan & adjoining north Gujarat at 0.9 km above mean sea level persists.
- An **upper air cyclonic circulation** lies over north Haryana & neighbourhood between 1.5 & 3.1 km above mean sea level.
- An **upper air cyclonic circulation** lies over Tamil Nadu between 3.1 km & 4.5 km above mean sea level.
- The **upper air cyclonic circulation** over South Coastal Andhra Pradesh & neighbourhood persists and now extends upto 1.5 km above mean sea level.
- The **trough** from south Tamil Nadu coast to Northwest Bay of Bengal off Odisha coast, now runs from the above cyclonic circulation of over south coastal Andhra Pradesh & neighbourhood to northwest Bay of Bengal and extends upto 1.5 km above mean sea level.
- The **upper air cyclonic circulation** over southeast Arabian Sea & adjoining Lakshadweep lay over northern parts of Lakshadweep & neighbourhood and extends upto 5.8 km above mean sea level.
- The trough from **upper air cyclonic circulation** over southeast Arabian Sea & adjoining Lakshadweep to northwest Arabian Sea at 0.9 km above mean sea level has become less marked.



16 October (Day 1)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Coastal Karnataka, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Kerala & Mahe and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Kerala & Mahe, Lakshadweep, Tamil Nadu Puducherry & Karaikal, Uttarakhand and West Uttar Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Interior Karnataka, Telangana and West Rajasthan.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Chhattisgarh, Coastal Karnataka, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh and Odisha.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh.
- ❖ **Hot and Humid weather** very likely at isolated places over Konkan & Goa.

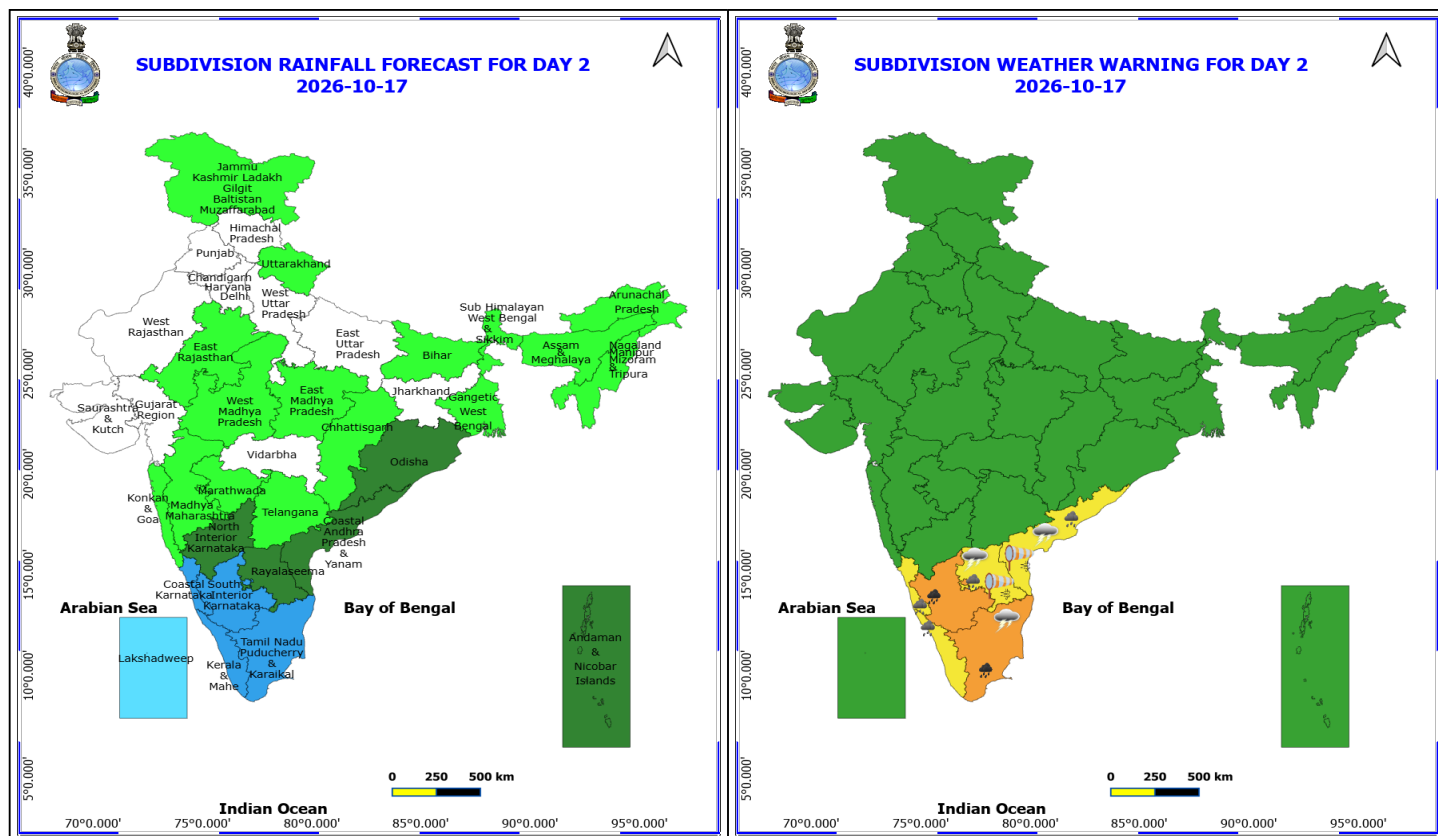
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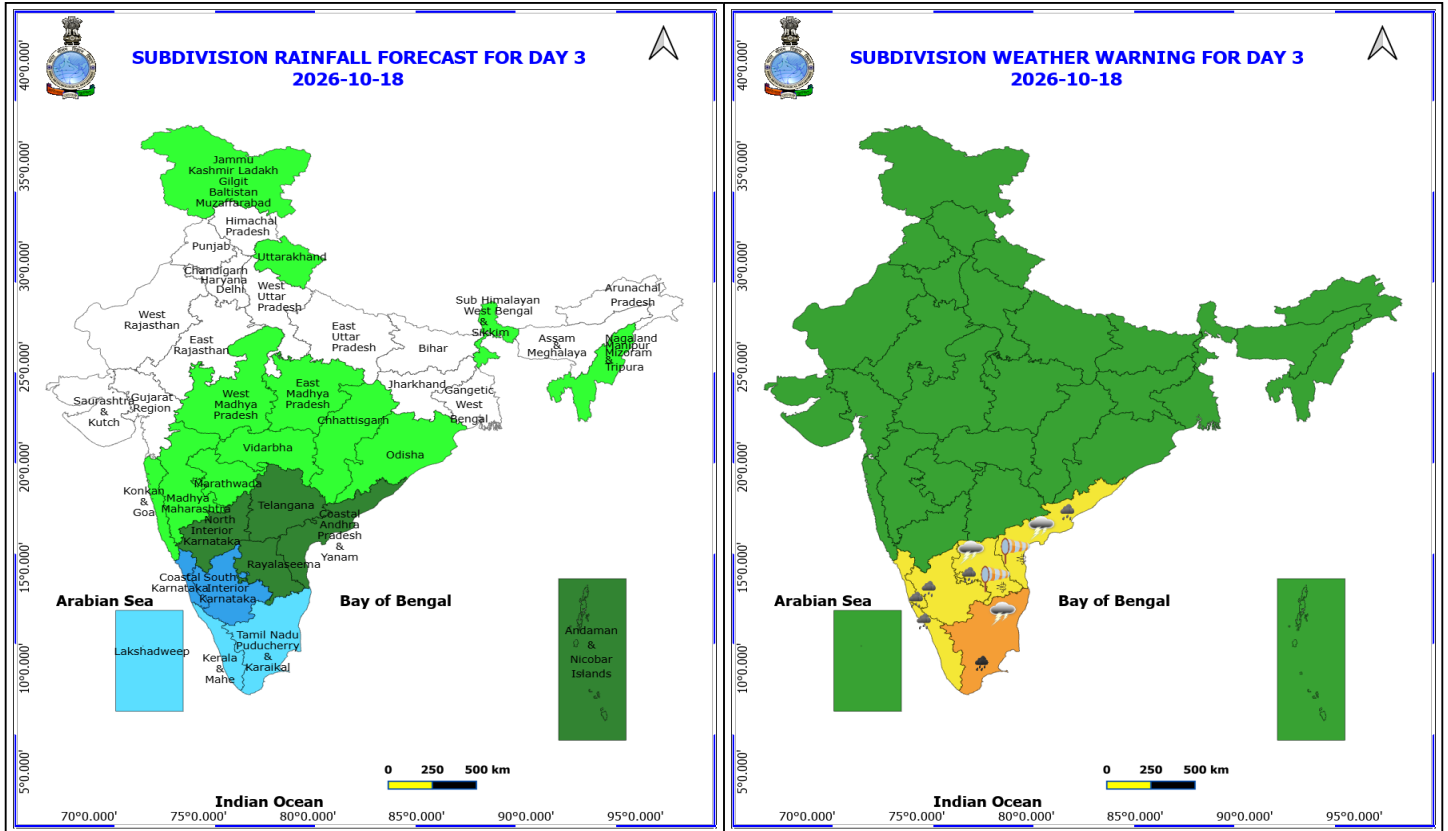
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17 October (Day 2)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Coastal Karnataka and Kerala & Mahe.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Interior Karnataka, Kerala & Mahe and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Chhattisgarh, Coastal Karnataka, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Marathwada and Odisha.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh.

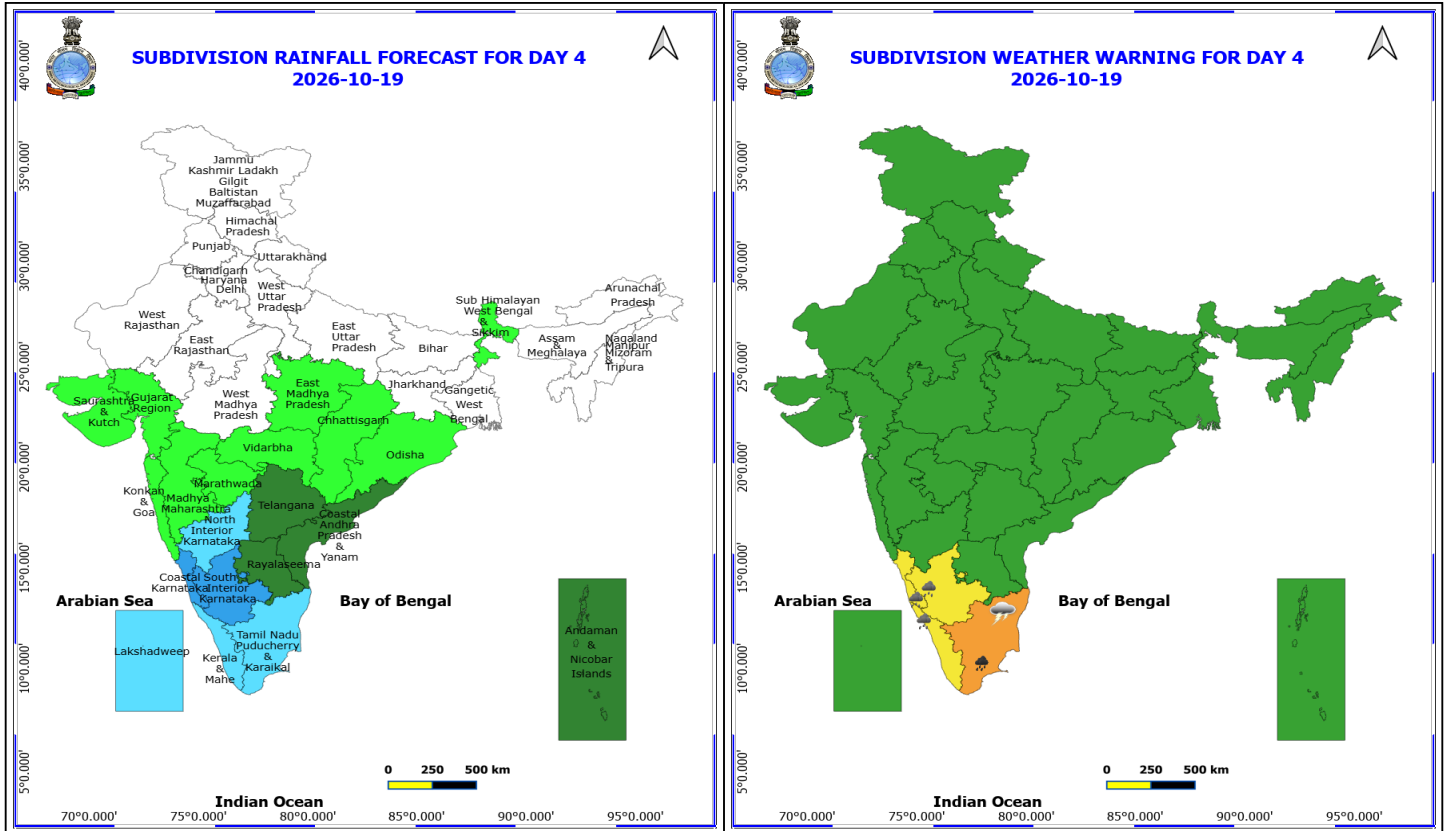
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18 October (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** very likely at isolated places over Andhra Pradesh, Coastal Karnataka, Kerala & Mahe and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Interior Karnataka, Kerala & Mahe and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Chhattisgarh, Coastal Karnataka, Konkan & Goa, Madhya Maharashtra, Madhya Pradesh, Marathwada and Odisha.
- ❖ **Strong Surface Winds** very likely at isolated places over Andhra Pradesh.

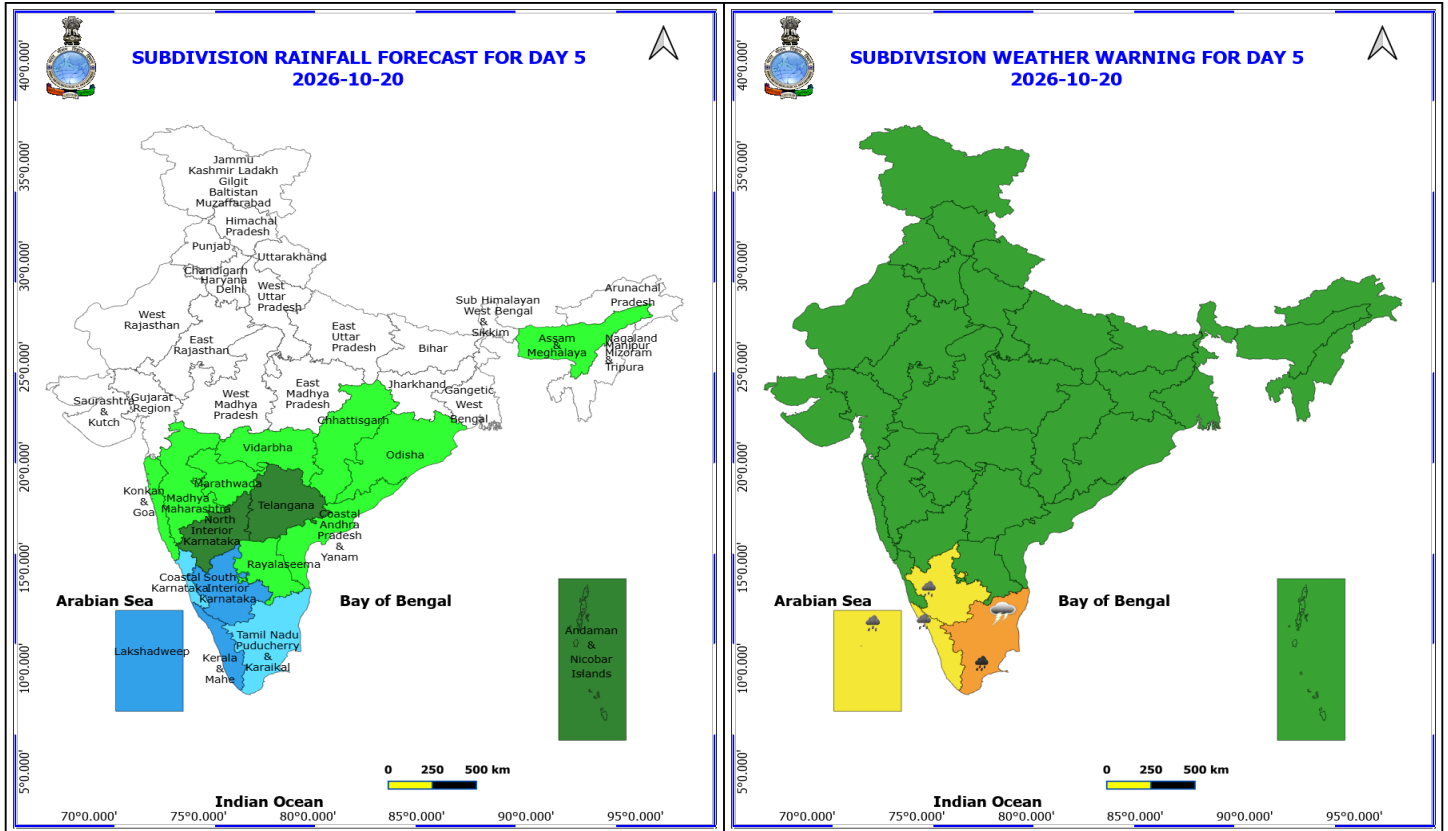
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19 October (Day 4)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** likely at isolated places over Coastal Karnataka, Kerala & Mahe and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Kerala & Mahe and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Chhattisgarh, East Madhya Pradesh, Konkan & Goa and Maharashtra.

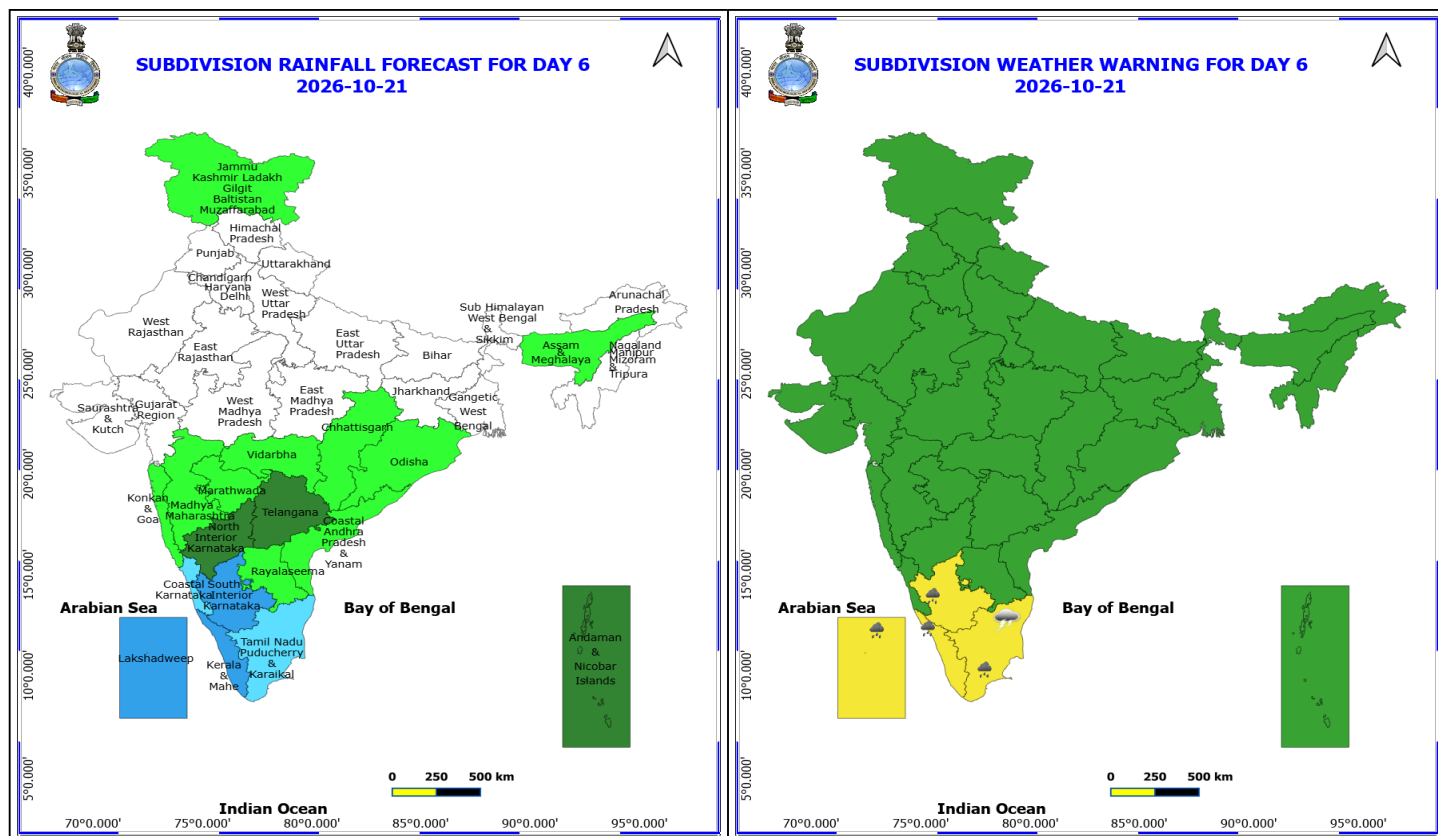
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20 October (Day 5)

- ❖ **Heavy to Very Heavy Rainfall** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe, Lakshadweep and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Kerala & Mahe and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** likely at isolated places over Chhattisgarh, Madhya Maharashtra and Vidarbha.

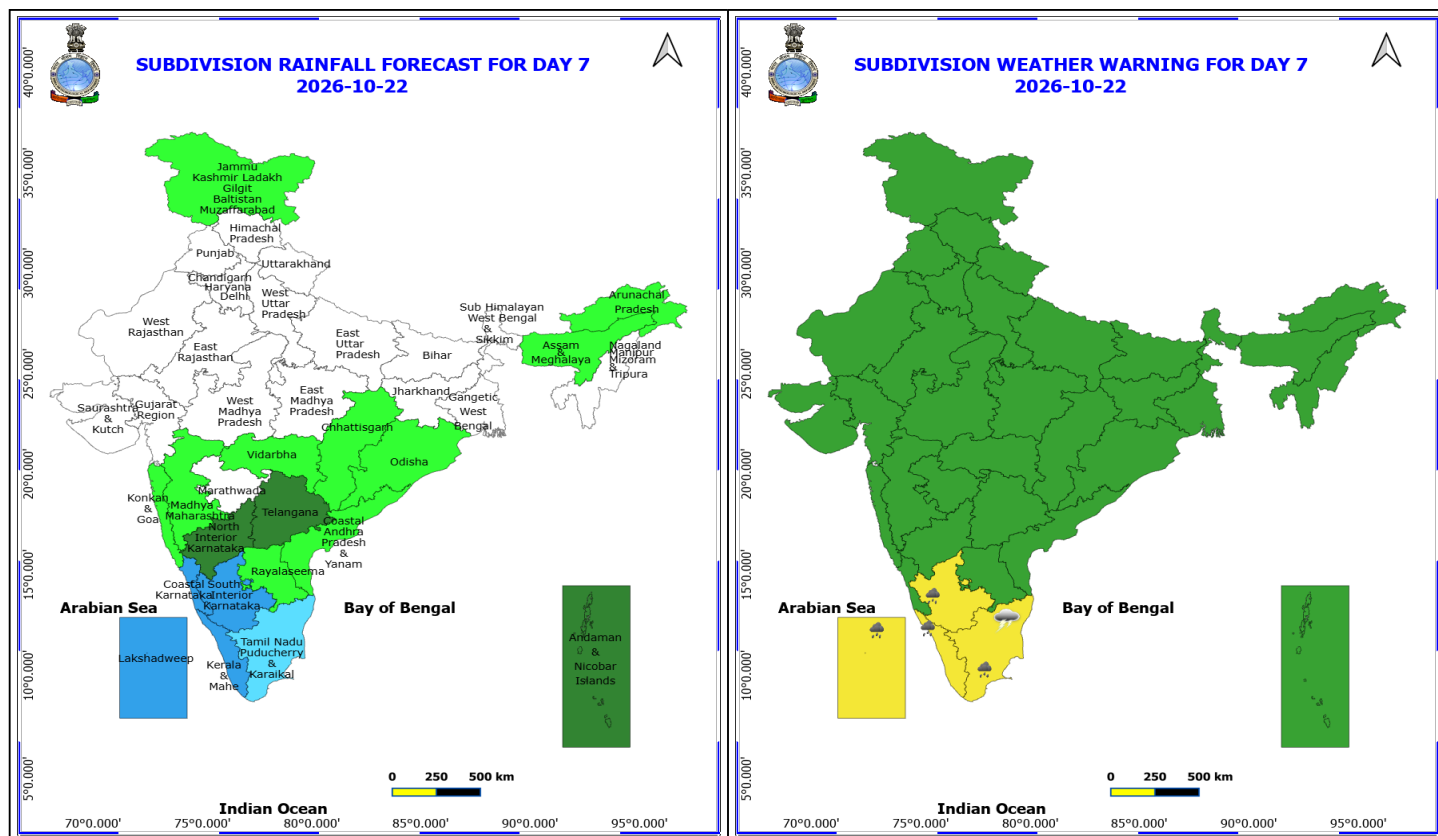
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21 October (Day 6)

- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Tamil Nadu Puducherry & Karaikal.

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22 October (Day 7)

- ❖ **Heavy Rainfall** likely at isolated places over Kerala & Mahe, Lakshadweep, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Tamil Nadu Puducherry & Karaikal.

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Table-1

7 Days Rainfall Forecast

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

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 2026-10-15

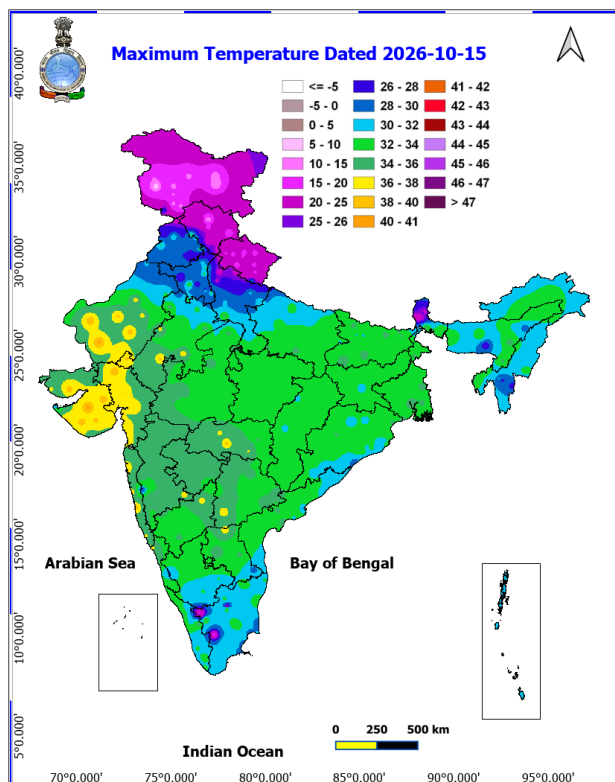


Fig. 2: Departure of Maximum Temp. Dated 2026-10-15

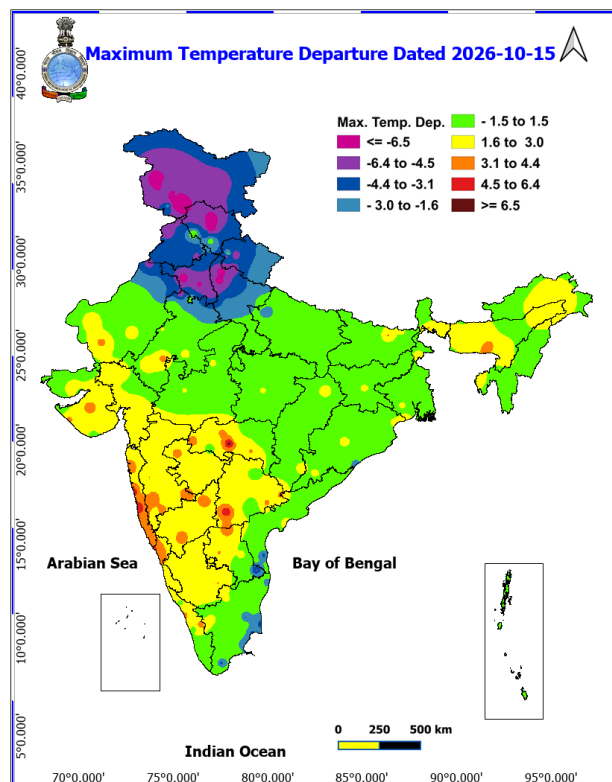


Fig. 3: Minimum Temperatures Dated 2026-10-16

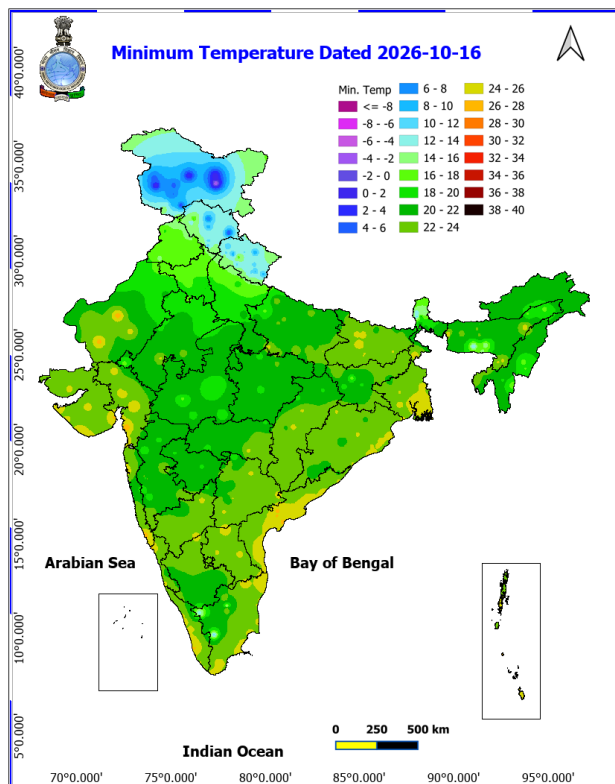
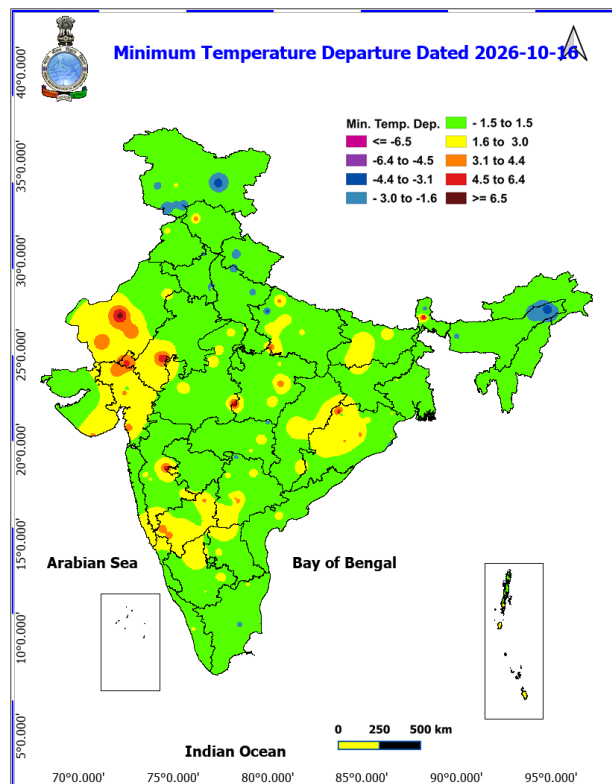
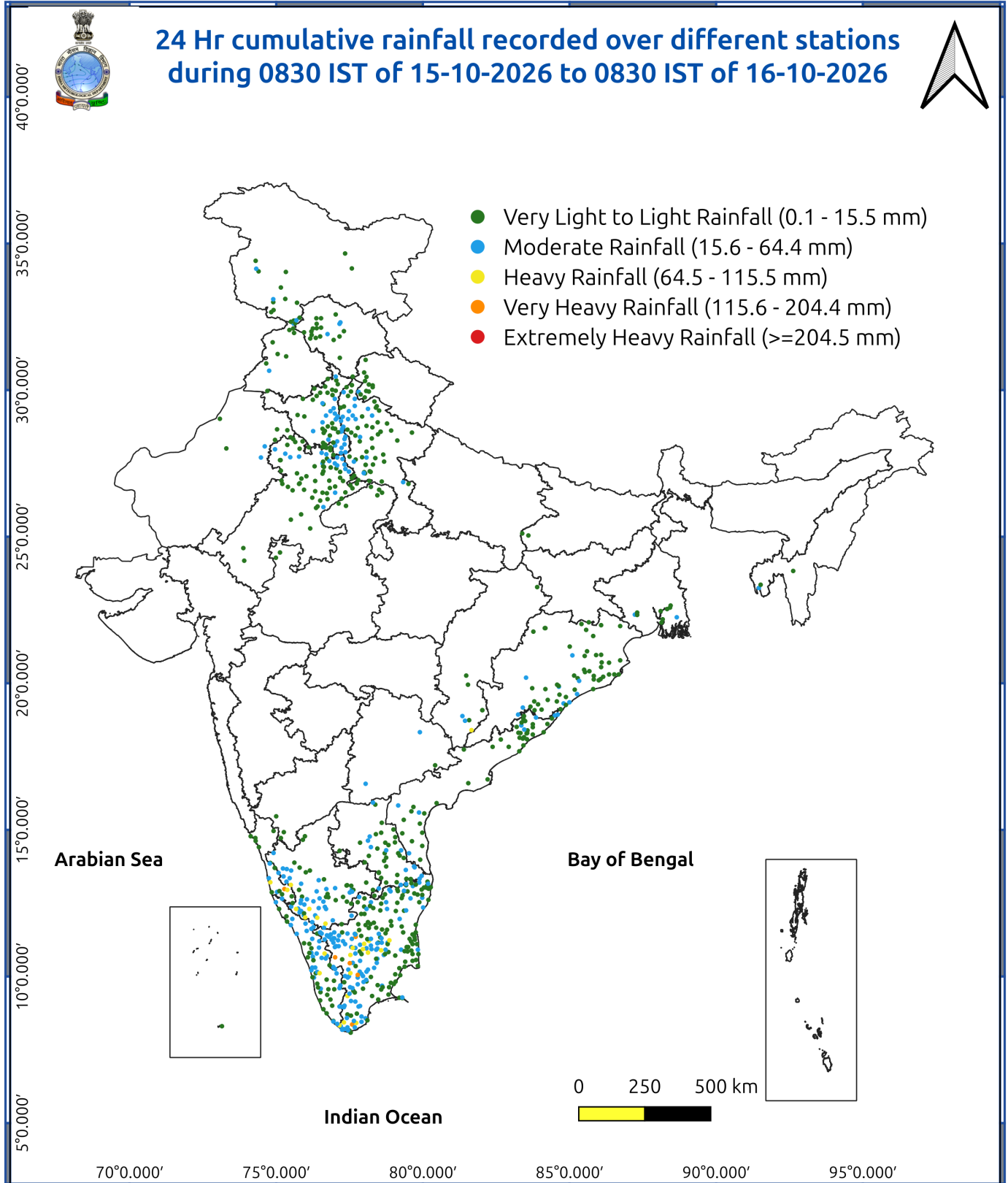


Fig. 4: Departure of Minimum Temp. Dated 2026-10-16





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Impact and Actions

Impact expected and action suggested due to isolated thunderstorm with lightning/squally winds & Hailstorm over:

- **Isolated Hailstorm activity likely over West Uttar Pradesh on 16th October.**

Impact expected:

- Breaking of tree branches, uprooting of small trees like banana, papaya, drum sticks. Strong wind and rain may damage plantation, horticulture and standing crops.
- Partial damage to vulnerable structures due to strong winds and rain.
- Minor damage to kutcha houses/walls, huts and roads due to heavy rain.
- Loose objects may fly.
- Small ships, trawlers and boats may be affected.
- Road and rail traffic may be affected due to heavy rain and squally winds.
- There could be localised landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- Occasional reduction in visibility due to heavy rainfall.
- Helicopter services may get affected.

Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- Take safe shelters; do not take shelter under trees, as there could be lightning.
- In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- Tourism and recreational activities to be regulated.
- Onshore and offshore activities to be judiciously regulated.
- Helicopter services to be regulated.

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 rice nurseries and standing rice fields, as well as cotton, maize, groundnut and vegetable fields. Keep the harvested produce at safer places. Provide propping in banana, sugarcane and adequate support for crops like papaya and moringa to prevent from lodging.
- In **Keralam**, harvest matured rice crop during clear weather and keep the produce in safe and dry places. Ensure effective drainage in rice, banana, coconut, black pepper, ginger, turmeric and vegetable fields, with priority to low-lying and waterlogged areas.
- In **Karnataka**, maintain proper drainage in standing crop fields. Harvest mature green gram, black gram and soybean wherever conditions permit and shift the produce to covered and safe places.
- In **Coastal Andhra Pradesh** and **Rayalseema**, maintain proper drainage to drain out excess rain water from rice, maize, finger millet, groundnut, red gram, sugarcane, vegetables and fruit orchards. Keep the harvested produce of maize in a safe and dry place. Provide strong support to fruit-bearing banana plants and propping in sugarcane.

Agromet advisories for likely impact of Hailstorm

- In **West Uttar Pradesh**, use hail nets or caps in fruit orchards and vegetable fields to protect crops from mechanical damage.

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Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface 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.

Advisories for likely impact of Heavy Rainfall or Livestock / Poultry / Fisheries

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store the feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.

Legends & abbreviations:

Heavy Rain:64.5115.5mm; **Very Heavy Rain:**115.6204.4mm; **Extremely Heavy Rain:** >204.4mm.

Obsy: Observatory; 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.

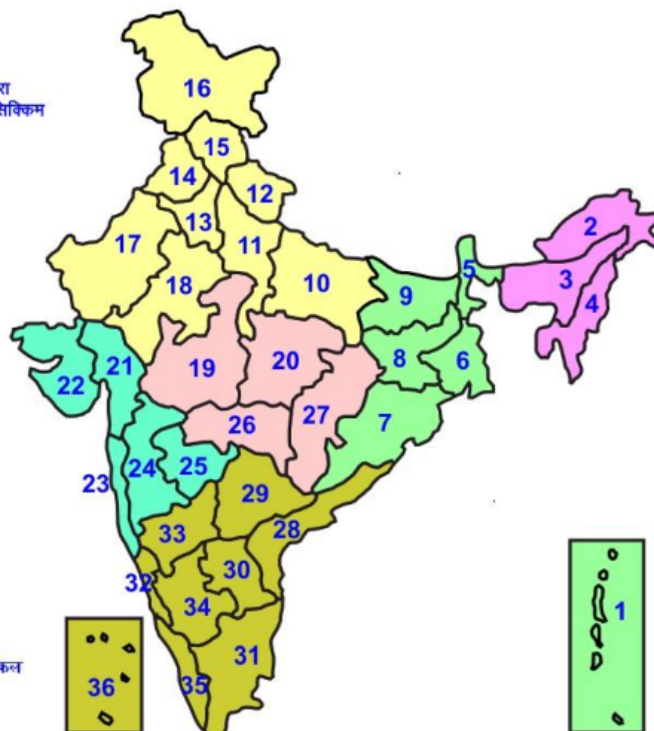
Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

West India: Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (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 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. 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 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

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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



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°C to 6.4°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°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°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°C to -6.4°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°C to -6.4°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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