

2026-05-01

Time of Issue: 08:03:00 hours IST  
(Morning)

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

#### Weather Warning and Forecast:

##### Northwest India:

- **Scattered to fairly widespread** light to moderate rainfall/snowfall with **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph)** likely over Jammu-Kashmir during 02<sup>nd</sup> -05<sup>th</sup>; Himachal Pradesh on 03<sup>rd</sup> & 04<sup>th</sup>; over Uttarakhand during 01<sup>st</sup> -06<sup>th</sup> May.
- **Isolated to scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-40 kmph)** likely over Punjab during 03<sup>rd</sup> -06<sup>th</sup>, Haryana Chandigarh & Delhi on 01<sup>st</sup> & during 03<sup>rd</sup> -06<sup>th</sup>; Uttar Pradesh during 04<sup>th</sup> -06<sup>th</sup>; West Rajasthan on 02<sup>nd</sup> & 03<sup>rd</sup>; East Rajasthan during 02<sup>nd</sup> -06<sup>th</sup> May.

##### Northeast India:

- **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Northeast India during next 4 days.
- **Isolated heavy rainfall** likely over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura 01<sup>st</sup> -06<sup>th</sup> and Assam & Meghalaya during 01<sup>st</sup> -04<sup>th</sup> with isolated **very heavy rainfall** likely over Arunachal Pradesh on 01<sup>st</sup> and Assam & Meghalaya on 02<sup>nd</sup> & 03<sup>rd</sup> May; Nagaland, Manipur, Mizoram & Tripura on 01<sup>st</sup> -02<sup>nd</sup> May.

##### East India:

- **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over West Bengal & Sikkim during next 7 days.
- **Isolated to scattered light** to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Bihar, Jharkhand and Odisha during next 7 days.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Sub-Himalayan West Bengal & Sikkim on 01<sup>st</sup>, Gangetic West Bengal on 03<sup>rd</sup> & 04<sup>th</sup>, Bihar on 02<sup>nd</sup>, Odisha on 01<sup>st</sup> May.
- **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 01<sup>st</sup> -03<sup>rd</sup> May; Bihar on 02<sup>nd</sup> May with isolated **very heavy falls** over Sub-Himalayan West Bengal & Sikkim on 01<sup>st</sup> & 02<sup>nd</sup> May.
- **Isolated Hailstorm activity** likely over Odisha on 01<sup>st</sup> May.

##### Central India:

- **Isolated light** to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 40-50 kmph)** likely over Madhya Pradesh and Chhattisgarh during next 4 days; Vidarbha during 02<sup>nd</sup> -04<sup>th</sup> May.
- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Chhattisgarh on 04<sup>th</sup> May.

##### South Peninsular India:

- **Isolated to scattered** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Telangana and Kerala & Mahe during 01<sup>st</sup> -04<sup>th</sup> May, Coastal Andhra Pradesh & Yanam on 01<sup>st</sup>, 03<sup>rd</sup> & 04<sup>th</sup> May, South Interior Karnataka during 01<sup>st</sup> -03<sup>rd</sup> May; Lakshadweep and North Interior Karnataka on 01<sup>st</sup> May with lightning Coastal Karnataka, Rayalaseema on 01<sup>st</sup> May.
- **Heavy rainfall** also likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 01<sup>st</sup> -02<sup>nd</sup> May; South Interior Karnataka on 01<sup>st</sup> May.
- **Isolated Hailstorm activity** likely over South Interior Karnataka, Coastal Andhra Pradesh & Yanam on 01<sup>st</sup> May.

#### Forecast of maximum/day temperatures:

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

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

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- Gradual rise in maximum temperatures by 2-3°C likely over Northwest till 02<sup>nd</sup> May; gradual fall by 3-5°C during 03<sup>st</sup> -06<sup>th</sup> May.
- Gradual fall in maximum temperatures by about 2°C likely over Central India till 01<sup>st</sup> May and no significant change during 02<sup>nd</sup> -06<sup>th</sup> May.
- No significant change in maximum temperatures likely over rest parts of the country.

**Heat wave, Hot & Humid weather and Warm night conditions warning:**

- **Heat wave conditions** very likely in some places of Vidarbha on 01<sup>st</sup> May; West Rajasthan on 02<sup>nd</sup> & 03<sup>rd</sup> May.
- **Hot & humid weather conditions** very likely to prevail in isolated pockets over Odisha on 01<sup>st</sup> May; Tamil Nadu, Puducherry & Karaikal during 01<sup>st</sup> -04<sup>th</sup> May, Coastal Andhra Pradesh & Yanam and Rayalaseema during 01<sup>st</sup> -02<sup>nd</sup> May.

**Main Weather Observations:**

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over East Madhya Pradesh, Arunachal Pradesh, Uttarakhand, West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Gangetic West Bengal, Kerala & Mahe, Odisha and Jharkhand; **at many places** over Assam & Meghalaya, East Rajasthan, West Rajasthan, Jammu & Kashmir and Ladakh, Punjab, Bihar, West Madhya Pradesh, Coastal Andhra Pradesh & Yanam, East Uttar Pradesh, Rayalaseema, Chhattisgarh and Tamilnadu Puducherry & Karaikal; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Assam & Meghalaya:** North Lakhimpur (dist Lakhimpur) 5, Dibrugarh (dist Dibrugarh) 2; **Gangetic West Bengal:** Digha (dist North 24 Parganas) 5, Kolkata (dum Dum) AP (dist North 24 Parganas), Kolkata-alipur (dist Kolkata), Haldia (dist Purba Medinipur) 3 Each; **Kerala & Mahe:** Cannanore (kannur) (dist Kannur) 4; **Odisha:** Gopalpur (dist Ganjam) 4; **East Uttar Pradesh:** Bahraich (dist Bahraich) 4; **Jharkhand:** Daltonganj (dist Palamu) 2; **Rayalaseema:** Anantapur (dist Anantapuramu) 2.

❖ **Minimum Temperature Departures (as on 30-04-2026):** **markedly above normal(> 5.1°C)** at isolated places over West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. **appreciably above normal(3.1°C to 5.0°C)** at few places over West Madhya Pradesh, East Madhya Pradesh, Gujarat Region, Saurashtra & Kutch and Chhattisgarh; at isolated places over Assam & Meghalaya, West Uttar Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, Vidarbha, Telangana and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at many places over West Rajasthan, Coastal Andhra Pradesh & Yanam and Coastal Karnataka; at few places over Andaman & Nicobar Islands, Haryana-Chandigarh-Delhi, West Madhya Pradesh, Gujarat Region, Konkan & Goa, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, North Interior Karnataka, Kerala & Mahe and Lakshadweep; at isolated places over Assam & Meghalaya, Gangetic West Bengal, Odisha, East Uttar Pradesh, West Uttar Pradesh, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan, East Madhya Pradesh, Saurashtra & Kutch, Marathwada, Vidarbha and Chhattisgarh. **near normal(-1.5°C to 1.5°C)** at many places over Assam & Meghalaya, Sub Himalayan West Bengal & Sikkim, Himachal Pradesh, Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad, Konkan & Goa, Vidarbha, Rayalaseema, North Interior Karnataka, Kerala & Mahe and Lakshadweep; at most places over Arunachal Pradesh, Uttarakhand, Punjab, Madhya Maharashtra and Marathwada; at few places over Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Odisha, Bihar, East Uttar Pradesh, West Uttar Pradesh, Haryana-Chandigarh-Delhi, West Rajasthan, East Rajasthan, Gujarat Region, Saurashtra & Kutch, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal, Coastal Karnataka and South Interior Karnataka; at isolated places over Gangetic West Bengal, West Madhya Pradesh and East Madhya Pradesh. **The lowest minimum temperature** of 18.4°C was reported at BALLOWAL (PUNJAB) over the Plains of India.

❖ **Maximum Temperature Departures (as on 30-04-2026):** **markedly below normal ( less than -5.1°C)** at a few places over Bihar, Jharkhand; at isolated places over Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal, Nagaland; **appreciably below normal (-5.0°C to -3.1°C)** at a few places over Mizoram; at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Tripura, Odisha; **below normal (-3.0°C to -1.6°C)** at isolated places over West Uttar Pradesh; **above normal (1.6°C to 3.0°C)** at a few places over Tamil Nadu, Puducherry & Karaikal , Kerala & Mahe; at isolated places over Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Vidarbha and Telangana. **The highest maximum temperature** of 44.6°C was reported at CHANDRAPUR (CHANDA) (MAHARASHTRA).

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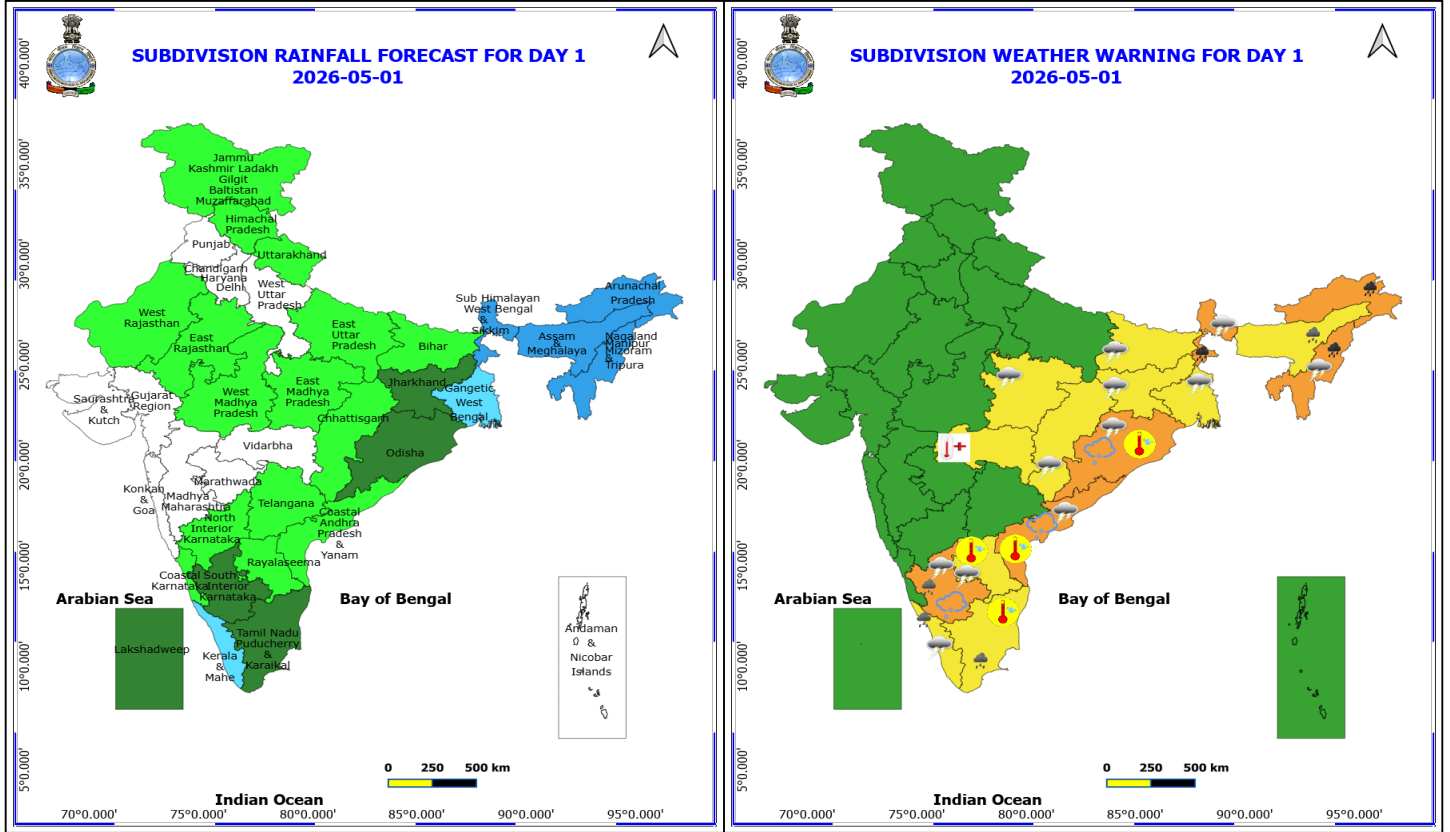
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### Meteorological Analysis (Based on 0530 hours IST)

- The **Western Disturbance** as a cyclonic circulation over Kashmir & neighbourhood between 3.1 & 5.8 km above mean sea level persists.
- The **induced upper air cyclonic circulation** over north Punjab & neighbourhood at 1.5 km above mean sea level persists.
- The **trough/ wind discontinuity** now runs from South Odisha to Gulf of Mannar across Telangana, Andhra Pradesh and Tamil Nadu at 0.9 km above mean sea level.
- The **upper air cyclonic circulation** over Gangetic West Bengal & adjoining Bangladesh persists and now extends upto 1.5 km above mean sea level.
- The **trough** now runs from south Punjab adjoining northwest Rajasthan to central parts of Madhya Pradesh across East Rajasthan at 0.9 km above mean sea level.
- The **trough** in westerlies between 3.1 & 7.6 km above mean sea level roughly along Long. 90°E to the north of Lat. 22°N persists.
- A fresh **western disturbance** is likely to affect Western Himalayan Region from the 02<sup>nd</sup> May 2026.
- The **upper air cyclonic circulation** over Southeast Uttar Pradesh & neighbourhood at 1.5 km above mean sea level has become less marked.
- The **upper air cyclonic circulation** over northeast Bangladesh & neighbourhood at 1.5 km above mean sea level has become less marked.

### Weather Outlook for subsequent 3 days

- **Widespread** rainfall activity likely over Northeast India and adjoining East India.
- Isolated to Scattered rainfall activity likely over North India and Southern parts of Peninsular India.



**1 May (Day 1)**

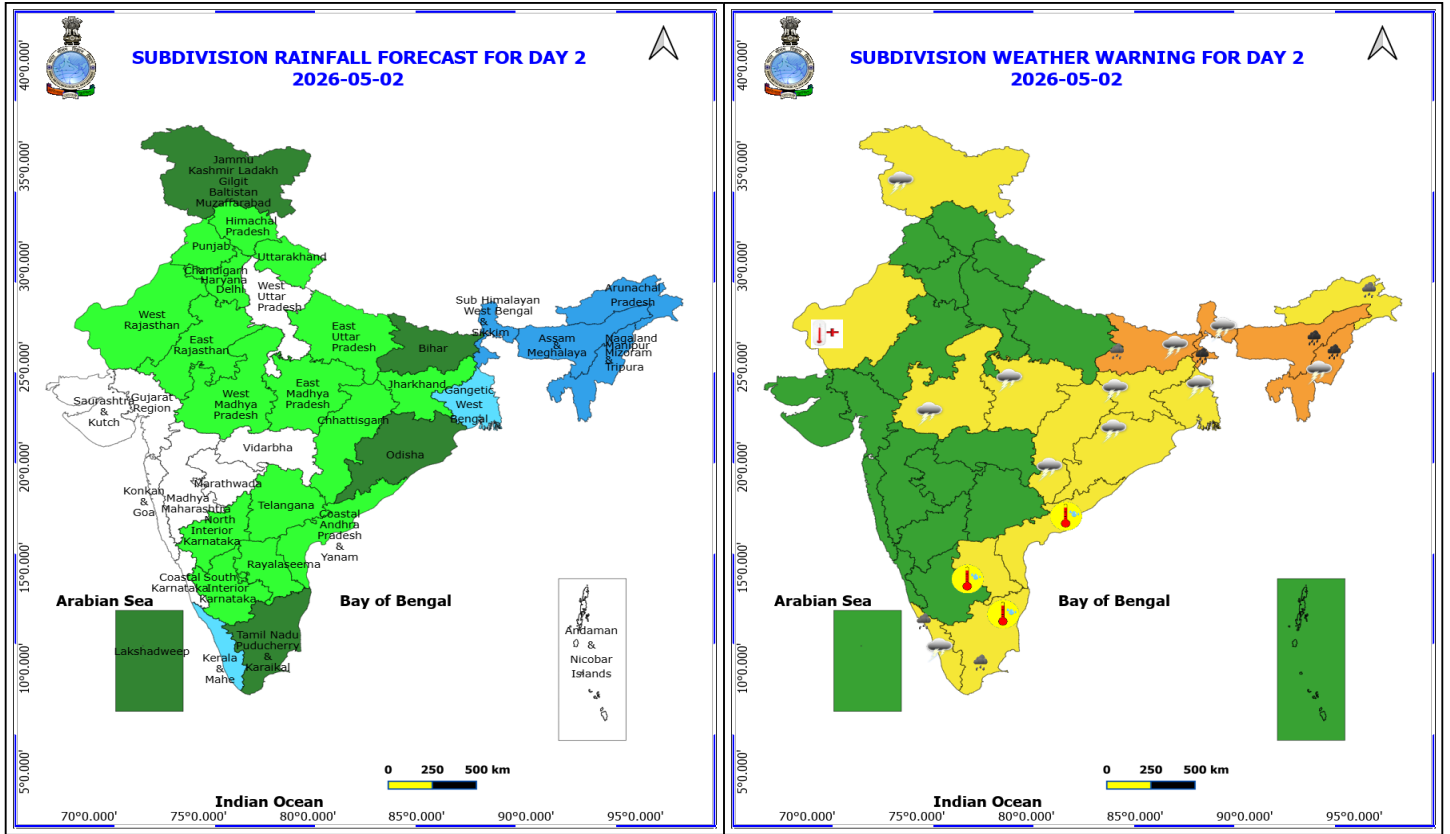
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram and Tripura and Sub Himalayan West Bengal & Sikkim.
- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Kerala & Mahe, South Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thunderstorm accompanied with Hailstorm** very likely at isolated places over Coastal Andhra Pradesh, Odisha and South Interior Karnataka.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Coastal Andhra Pradesh, Odisha and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Chhattisgarh, East Madhya Pradesh, Gangetic West Bengal, Jharkhand, Kerala & Mahe, Nagaland, Manipur, Mizoram and Tripura and South Interior Karnataka.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Rayalaseema.
- ❖ **Heat Wave conditions** very likely at isolated places over Vidarbha.
- ❖ **Hot and Humid weather** very likely at isolated places over Andhra Pradesh, Odisha and Tamil Nadu Puducherry & Karaikal.
- ❖ **Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail along and off Odisha, West Bengal Coasts & adjoining Bangladesh Coast, over many parts of northwest Bay of Bengal and adjoining parts of northeast Bay of Bengal.

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## 2 May (Day 2)

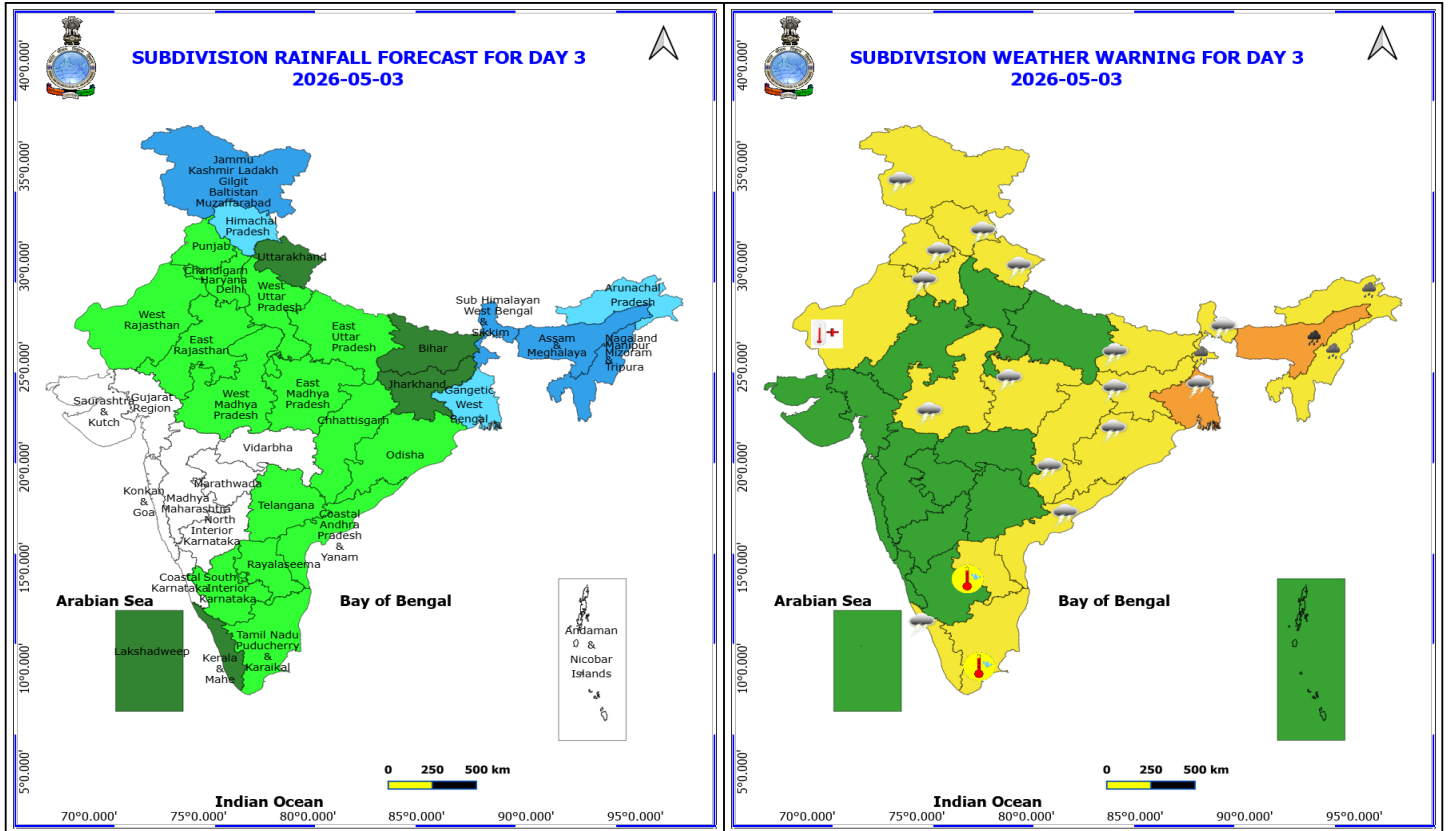
- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura and Sub Himalayan West Bengal & Sikkim.
- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Bihar, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Chhattisgarh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Kerala & Mahe, Madhya Pradesh, Nagaland, Manipur, Mizoram and Tripura, Odisha and West Bengal & Sikkim.
- ❖ **Heat Wave conditions** very likely at isolated places over West Rajasthan.
- ❖ **Hot and Humid weather** very likely at isolated places over Andhra Pradesh and Tamil Nadu Puducherry & Karaikal.
- ❖ **Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail along and off Odisha, West Bengal Coasts & adjoining Bangladesh Coast, over many parts of northwest Bay of Bengal and adjoining parts of northeast Bay of Bengal.

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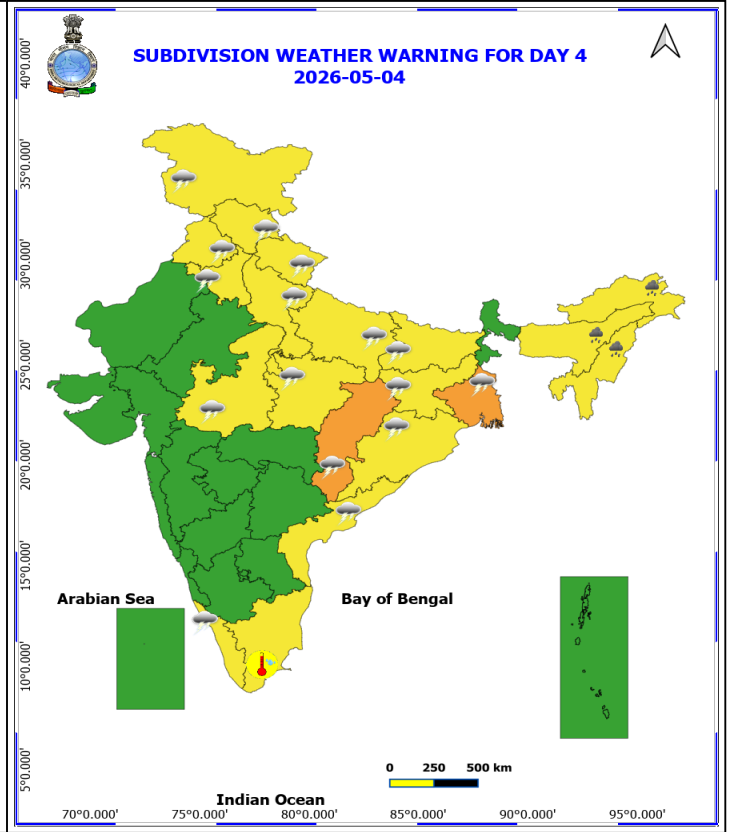
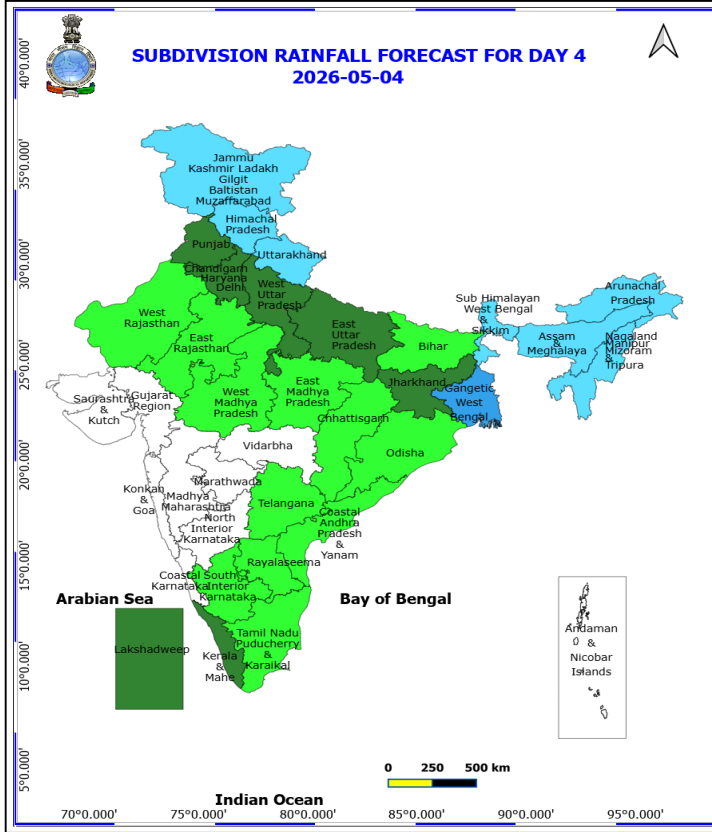
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### 3 May (Day 3)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
  - ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram and Tripura and Sub Himalayan West Bengal & Sikkim.
  - ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Gangetic West Bengal.
  - ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Bihar, Chhattisgarh, Coastal Andhra Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Kerala & Mahe, Madhya Pradesh, Odisha, Punjab, Sub Himalayan West Bengal & Sikkim and Uttarakhand.
  - ❖ **Heat Wave conditions** very likely at isolated places over West Rajasthan.
  - ❖ **Hot and Humid weather** very likely at isolated places over Rayalaseema and Tamil Nadu Puducherry & Karaikal.
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- ❖ **Squally wind with speed 45-55 kmph gusting to 65 kmph** is likely to prevail along and off Odisha, West Bengal Coasts & adjoining Bangladesh Coast, over many parts of northwest Bay of Bengal and adjoining parts of northeast Bay of Bengal.

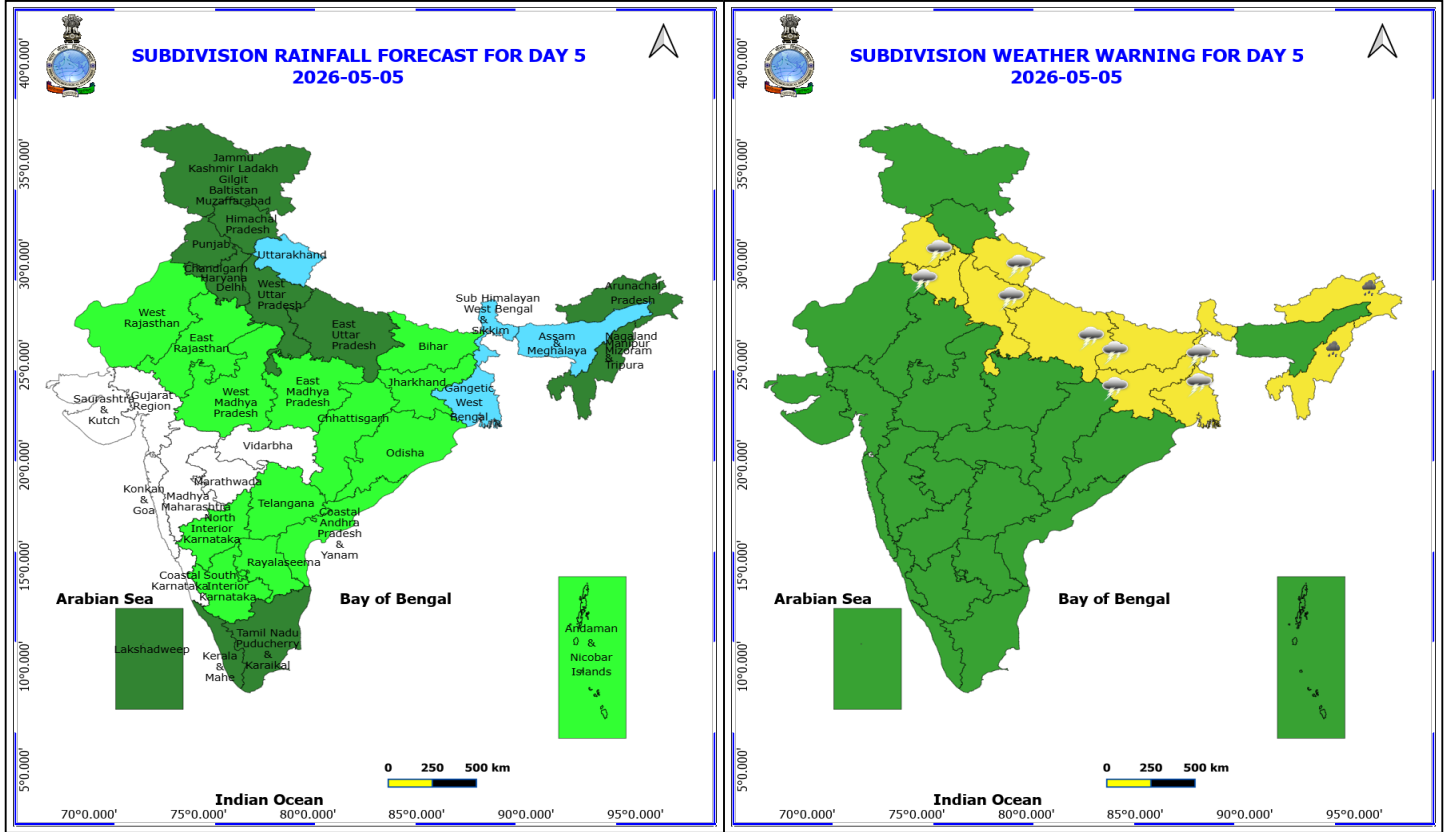
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#### 4 May (Day 4)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Chhattisgarh and Gangetic West Bengal.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar, Coastal Andhra Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffargarh, Jharkhand, Kerala & Mahe, Madhya Pradesh, Odisha, Punjab, Uttar Pradesh and Uttarakhand.
- ❖ **Hot and Humid weather** likely at isolated places over Tamil Nadu Puducherry & Karaikal.

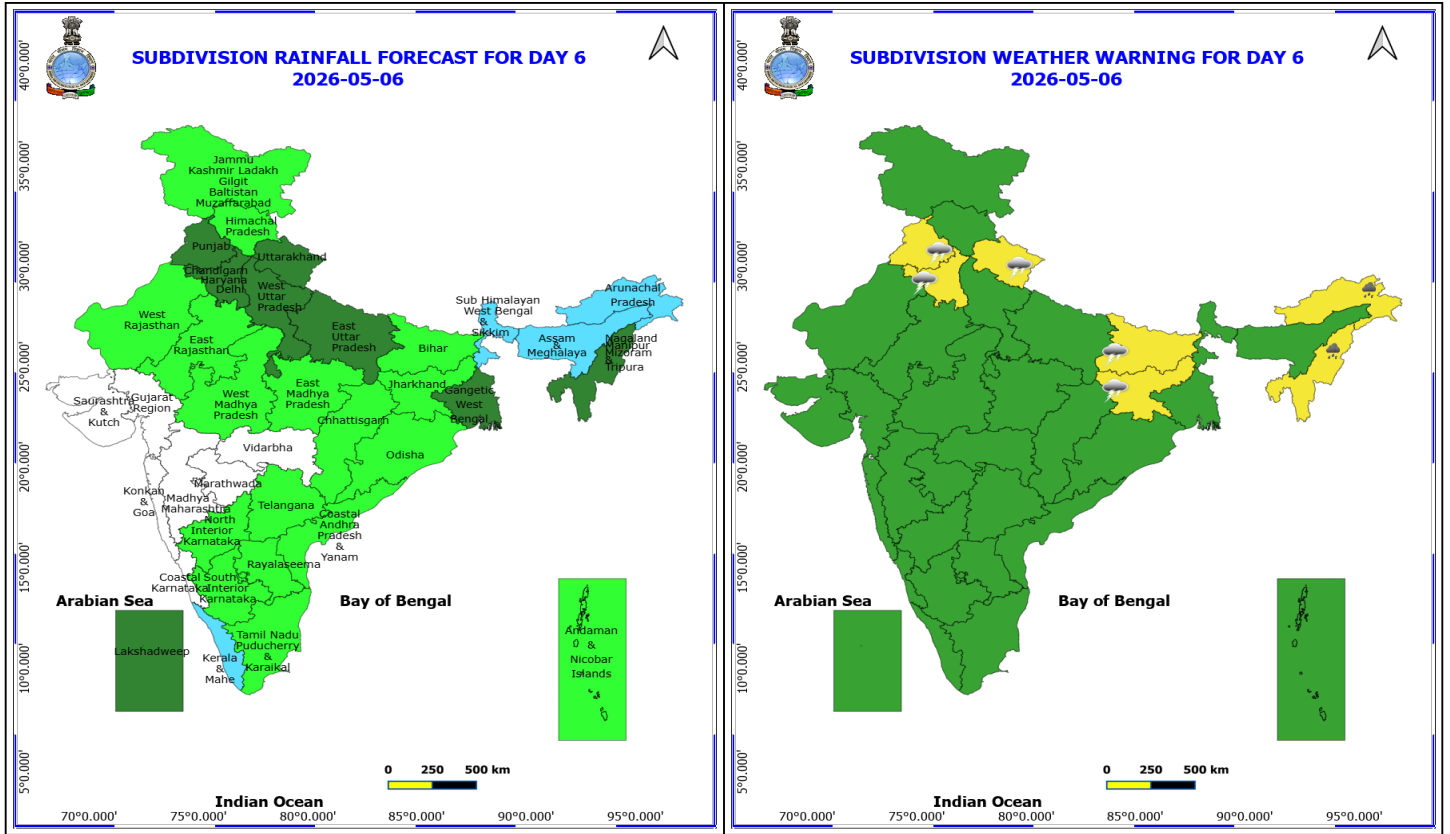
**No Fishermen Warning**



**5 May (Day 5)**

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Jharkhand, Punjab, Uttar Pradesh, Uttarakhand and West Bengal & Sikkim.

**No Fishermen Warning**

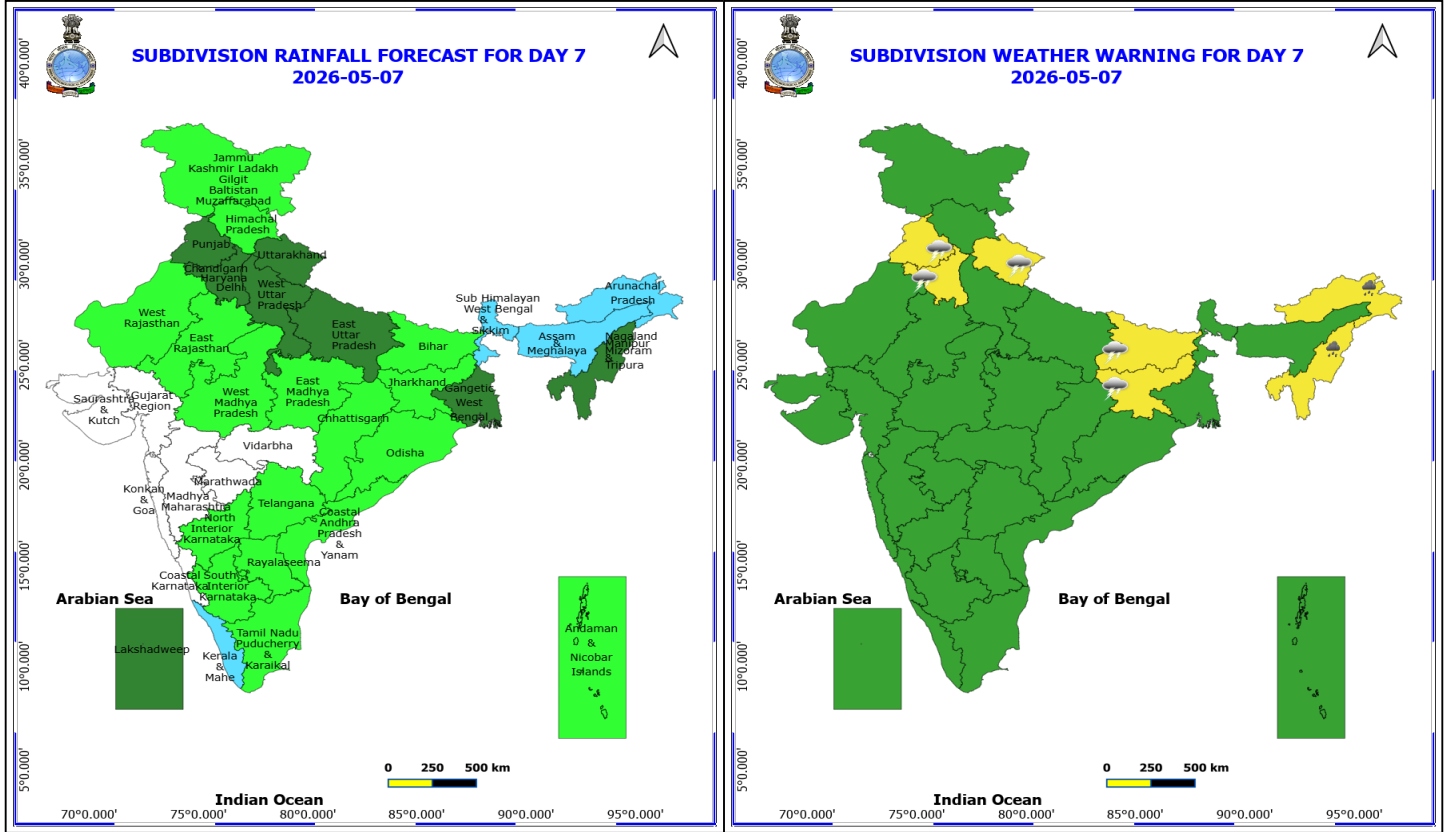


**6 May (Day 6)**

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Jharkhand, Punjab and Uttarakhand.

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**7 May (Day 7)**

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Bihar, Haryana, Chandigarh & Delhi, Jharkhand, Punjab, Uttar Pradesh, Uttarakhand and West Bengal & Sikkim.

**No Fishermen Warning**



## Table-1

### 7 Days Rainfall Forecast

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

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Fig. 1: Maximum Temperatures Dated 2026-04-30

Fig. 2: Departure of Maximum Temp. Dated 2026-04-30

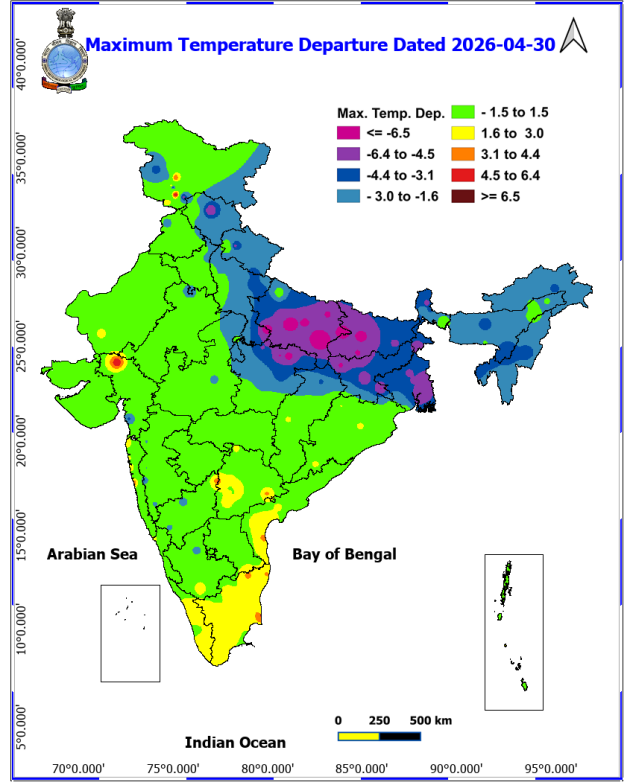
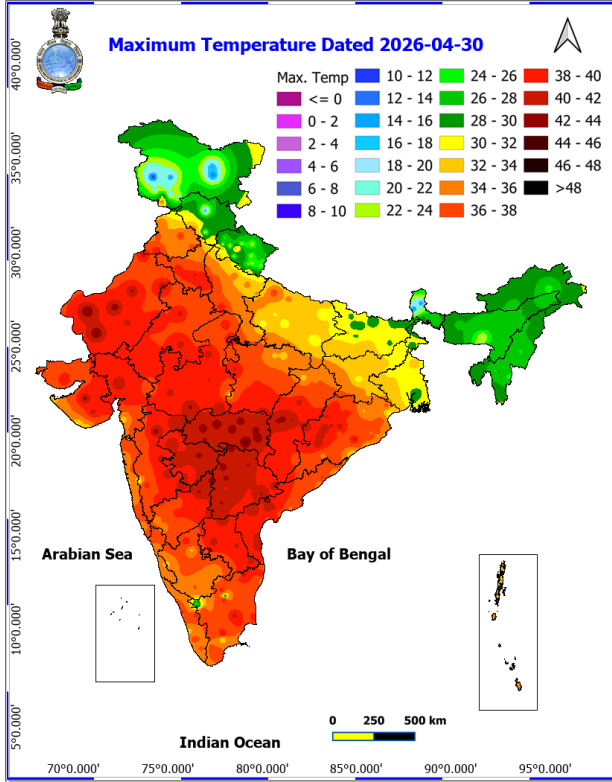
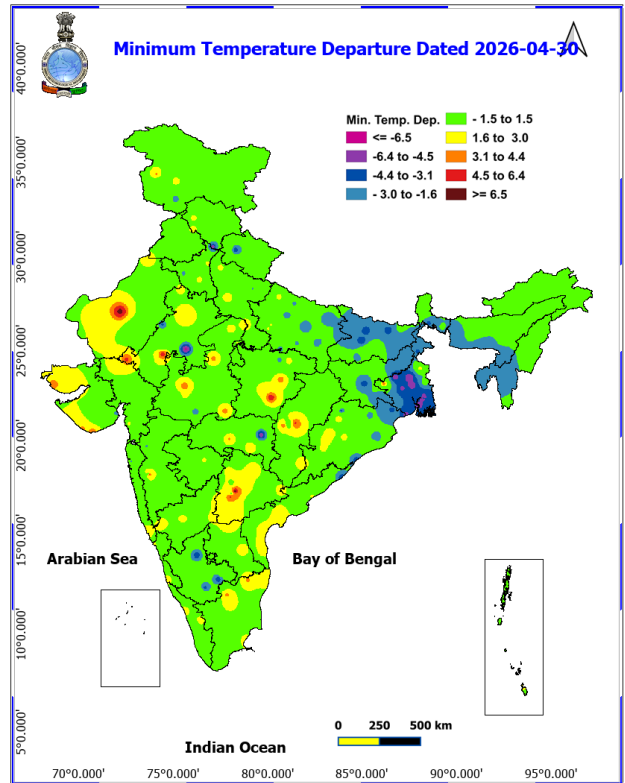
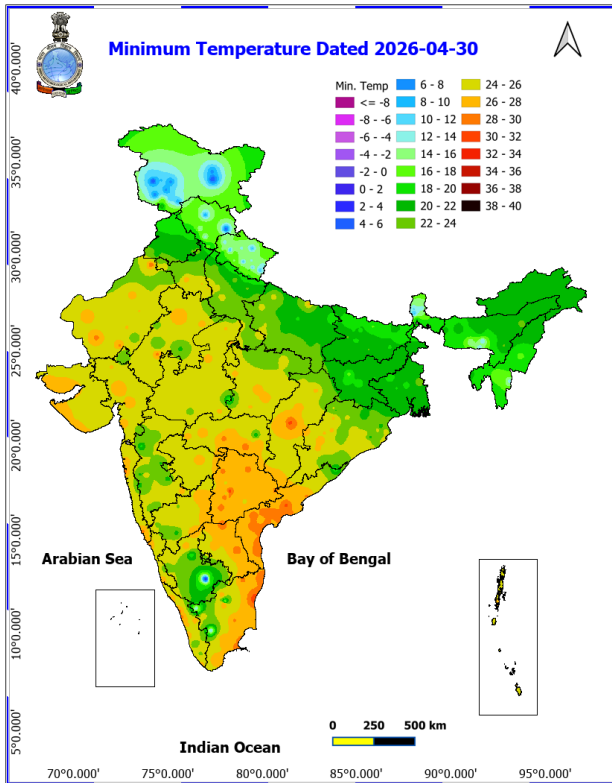
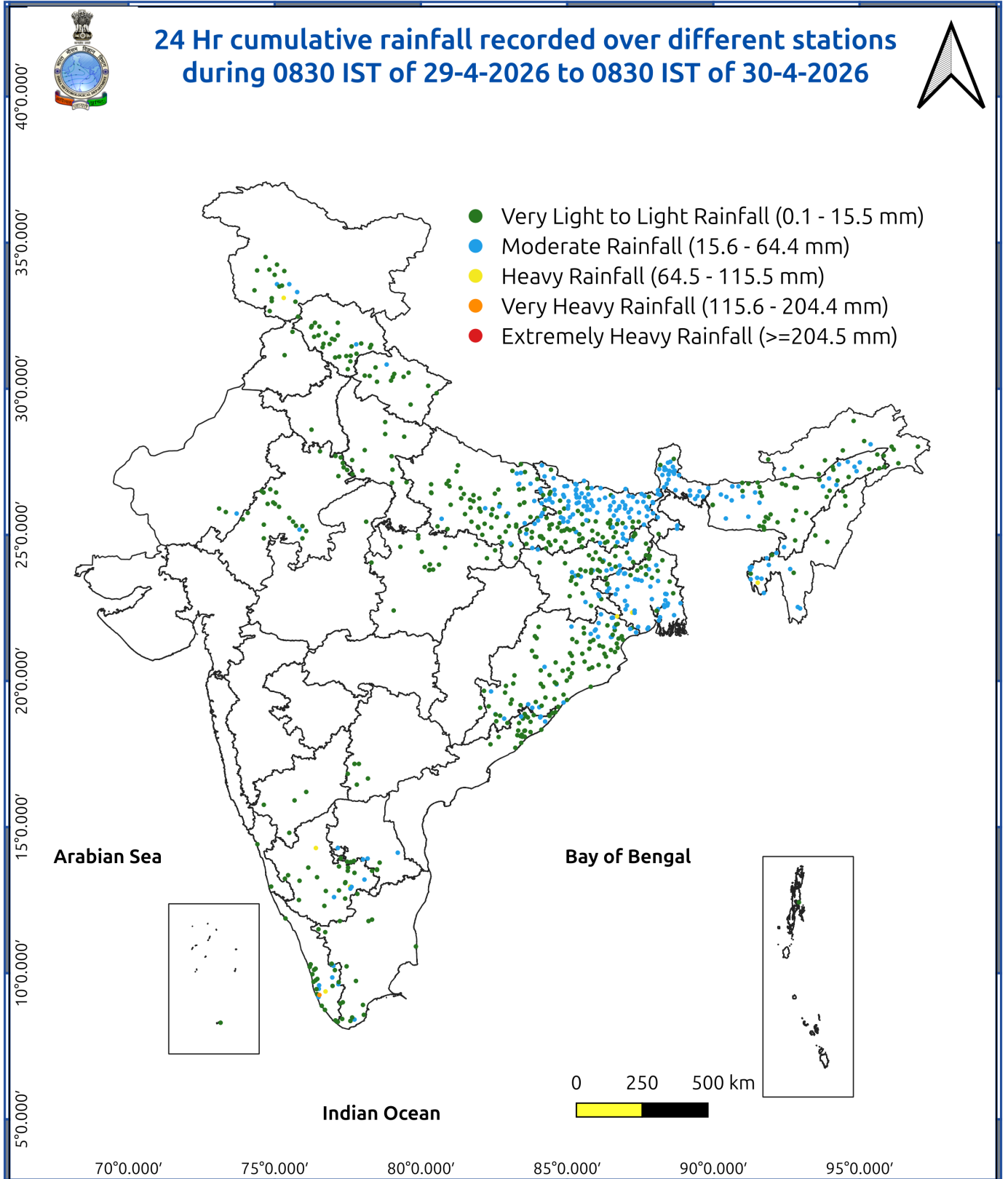


Fig. 3: Minimum Temperatures Dated 2026-04-30

Fig. 4: Departure of Minimum Temp. Dated 2026-04-30





## Impact and Actions

### Impact & suggested due to heavy rainfall

- **Isolated heavy rainfall** likely over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura 01<sup>st</sup>-06<sup>th</sup> May and Assam & Meghalaya during 01<sup>st</sup>-04<sup>th</sup> May with isolated **very heavy rainfall** likely over Arunachal Pradesh on 01<sup>st</sup> May and Assam & Meghalaya on 02<sup>nd</sup> & 03<sup>rd</sup> May; Nagaland, Manipur, Mizoram & Tripura on 01<sup>st</sup> & 02<sup>nd</sup> May.
- **Isolated heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 01<sup>st</sup> - 03<sup>rd</sup> May; Bihar on 02<sup>nd</sup> May with isolated **very heavy falls** over Sub-Himalayan West Bengal & Sikkim on 01<sup>st</sup> & 02<sup>nd</sup> May.
- **Heavy rainfall** also likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 01<sup>st</sup> & 02<sup>nd</sup> May; South Interior Karnataka on 01<sup>st</sup> May.

### Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- 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.

### Impact expected and action suggested due to

- **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Sub-Himalayan West Bengal & Sikkim on 01<sup>st</sup> May, Gangetic West Bengal on 03<sup>rd</sup> & 04<sup>th</sup> May, Bihar on 02<sup>nd</sup>, Odisha on 01<sup>st</sup> May; over Chhattisgarh on 04<sup>th</sup> May.
- Isolated **Hailstorm activity** likely over South Interior Karnataka on 01<sup>st</sup> May; Odisha on 01<sup>st</sup> May.

### Impact expected:

- Breaking of tree branches, uprooting of large avenue trees. Large dead limbs blown from trees. Damage to Standing crops.
- Minor to Major damage to banana and papaya trees.
- Minor to major damage to power and communication lines due to breaking of branches.
- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

### Action suggested:

- People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.

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- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

### Impact expected and action suggested due to Heat wave conditions

**Heat wave conditions** very likely in some places of Vidarbha on 01<sup>st</sup> May; West Rajasthan on 02<sup>nd</sup> & 03<sup>rd</sup> May.

#### Alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

### Agromet advisories for various parts of the country

#### Agromet advisories for likely impact of Hailstorms

- In **Himachal Pradesh, Uttarakhand, Odisha, Jharkhand, Interior Karnataka and Telangana**, use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage.
- Ensure effective field drainage to prevent waterlogging. Undertake picking of matured fruits at the earliest. Keep the harvested produce in safe places.

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

- In **Arunachal Pradesh**, shift the harvested cabbage, pea, mustard, late-maturing paddy & potatoes produce to safe places. Ensure proper drainage in the fields of rice, maize, other standing crops, vegetables, and orchards.
- In **Assam**, maintain proper drainage to avoid water stagnation in the crop fields. Prioritise immediate harvesting of the mature crops and move the produce to a dry, covered warehouse. Use plastic sheets or temporary nets to cover sensitive nursery beds.
- **Meghalaya**- Postpone sowing of carrot, okra, French bean. Provide proper drainage in maize, ginger and tomato. Provide staking/bamboo support to prevent lodging.
- **Nagaland, Manipur, Mizoram and Tripura** maintain a 5-8 cm water level during the early vegetative stage pre-kharif rice, avoiding rainwater stagnation for long periods in the crop field.
- In **West Bengal and Sikkim**, ensure proper field drainage to prevent waterlogging, particularly in ginger, tomato, and *Dalle Khorsani* fields. Protect the nurseries of cucurbits and *Dalle Khorsani* by covering them with polyethylene sheets or agro-net to safeguard young seedlings. Additionally, apply locally available mulching materials in ginger fields to minimize the direct impact of rainfall.
- In **Kerala**, provide adequate drainage for banana, coconut and other vegetables in Kerala. Provide support to banana plants.

#### Agromet advisories for likely impact of High temperatures/ Heat Waves

- **Maharashtra –Vidarbha** - apply need-based light and frequent irrigation to summer green gram, groundnut, onion, sunflower, sesame, fodder crops, orchards, and vegetables during cooler hours. Use straw mulch in

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vegetable and orchard crops to reduce evaporation, and install shade nets for newly planted crops.

- **Madhya Pradesh** - Apply light irrigation to maize, *moong*, *urd*, groundnut, and vegetable crops as required.
- **Rajasthan** - Provide light irrigation to maintain adequate moisture in standing crops such as Zaid moong, American cotton & *Desi* cotton, okra, watermelon, muskmelon, *tinda*, cucumber & long melon.
- **Odisha** - Provide light irrigation to *Boro* paddy, summer maize, green gram, black gram, groundnut, and vegetable fields. Ensure adequate soil moisture is maintained in mango and cashew crops.
- **Telangana** - Provide irrigation to mango orchards and vegetable crops, as required.
- Carry out mulching with crop residue, straw or polythene to minimize the loss of soil moisture in the standing crops.

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

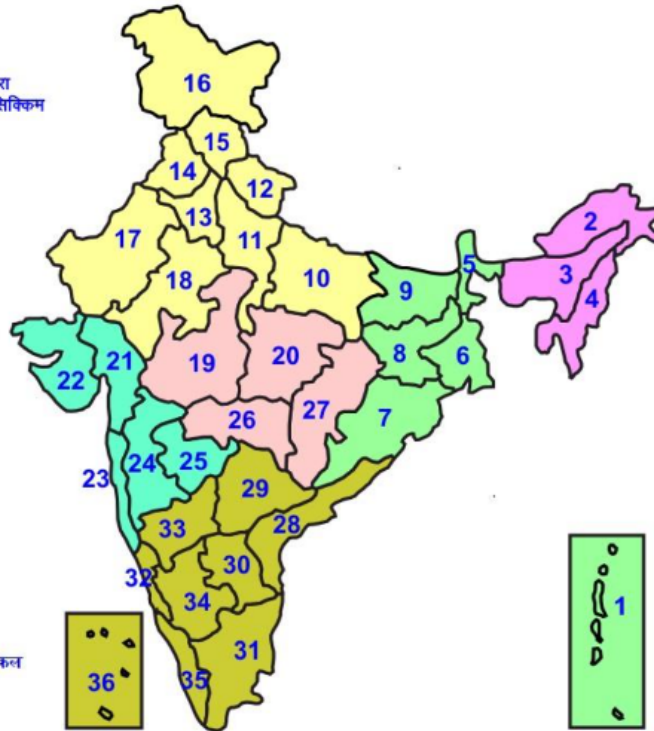
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

#### Livestock / Poultry / Fisheries

- 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 excess water, thereby preventing fish from escaping in the event of overflow.
- In regions with high temperatures and heat waves, provide clean, hygienic, and ample drinking water for animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects.

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

(b). Based on Actual maximum temperature

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

(c). Criteria for heat wave for coastal stations

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



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

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



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

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

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

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

(c) For Coastal Stations

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



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

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



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

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



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



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



Ice deposits on ground

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



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

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



Effect of various waves in the sea over specific area

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



Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)  
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)  
Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)  
Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)  
Super Cyclone Storm: Wind speed  $> 220$  kmph ( $> 119$  knots)

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