



**Government of India
Ministry of Earth Sciences
India Meteorological Department**

**Press Release
Date: 15th April, 2023
Time of Issue: 1330 hours IST**

**Subject: (i) Heat wave conditions likely over Bihar, Gangetic West Bengal, Odisha and Coastal Andhra Pradesh during next 4-5 days.
(ii) A fresh spell of rainfall over Western Himalayan Region & adjoining plains from 16th April.**

Weather observed during past 24 hours ending at 0830 hrs IST of today: Refer Annexure I

Significant Meteorological features:

- ❖ A **cyclonic circulation** lies over southwest Rajasthan in lower levels and another cyclonic circulation lies over northwest Madhya Pradesh & neighbourhood in lower levels.
- ❖ A **trough/wind discontinuity** runs from northeast Jharkhand to Tamil Nadu in lower levels.
- ❖ A **Western Disturbance** is seen as a trough in middle tropospheric levels roughly along Long. 56°E to the north of Lat. 28°N.

Maximum Temperatures, Forecast and Heat Wave Warning during next 5 days:

- ❖ **Maximum temperatures** are in the range of 39-42°C over many parts of central & east India; some parts of Peninsular and Northwest India. These are above normal by 3-5°C over many parts of Gangetic West Bengal, some parts of Odisha, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Jammu division, Punjab and North India.
- ❖ **Maximum Temperatures** are very likely to be above normal by **2-4°C** over some parts of Assam, Tripura, West Bengal, Bihar, Jharkhand, Odisha, Chhattisgarh, Andhra Pradesh, Interior Tamil Nadu and Kerala during next 3-4 days. These are likely to be above normal by 1-3°C over most parts of the rest of the country.
- ❖ **Northwest India:** Maximum Temperatures are very likely to rise gradually by about 1-2°C during next 48 hours and gradual fall about 2-4°C thereafter.
- ❖ **Central India:** No significant change in Maximum Temperatures very likely during next 24 hours and rise gradually by about 2°C during subsequent 4 days.
- ❖ **Interior Maharashtra:** Maximum Temperatures are very likely to fall by 2-4°C during next 24 hours and rise gradually by 2-4°C during subsequent 4 days.
- ❖ **South India:** No significant change in Maximum Temperatures very likely during next 2 days and rise gradually by 2-4°C during subsequent 3 days.
- ❖ **East India & Gujarat State:** No significant change in Temperatures very likely during 5 days.
- ❖ **Heat wave conditions very likely in some parts over Gangetic West Bengal and in isolated pockets over Bihar and Coastal Andhra Pradesh & Yanam during next 5 days and over Odisha on 15th April.**

Rainfall Forecast and Warnings (Graphics in Annexure II):

Northwest India:

- ❖ Light/moderate scattered rainfall with thunderstorm/lightning very likely over Western Himalayan Region from night of 15th to 19th; over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and West Rajasthan on 17th-19th, with **Hailstorm & isolated heavy rainfall** likely over Western Himalayan Region 17th-19th April.

East India:

- ❖ Light/moderate isolated rainfall with thunderstorm/lightning/gusty winds very likely over Odisha during 16th-19th April.

Central India:

- ❖ Light/moderate isolated rainfall with thunderstorm/lightning/gusty winds very likely over Vidarbha during next 5 days; over Madhya Pradesh and Chhattisgarh on 15th, 18th & 19th April.

West India:

- ❖ Light/moderate isolated rainfall with thunderstorm/lightning/gusty winds very likely over Konkan & Goa, Madhya Maharashtra and Marathwada during next 5 days.

South Peninsular India:

- ❖ Light/moderate isolated rainfall with thunderstorm/lightning/gusty winds very likely over Coastal Karnataka and Coastal Andhra Pradesh & Yanam on 15th; over Telangana during 15th-17th; over North Interior Karnataka 15th, 18th & 19th April.

No significant weather likely over rest parts of the country.

For more details kindly refer:

https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

<https://mausam.imd.gov.in/responsive/districtWiseNowcast.php>

Annexure I


Observations:

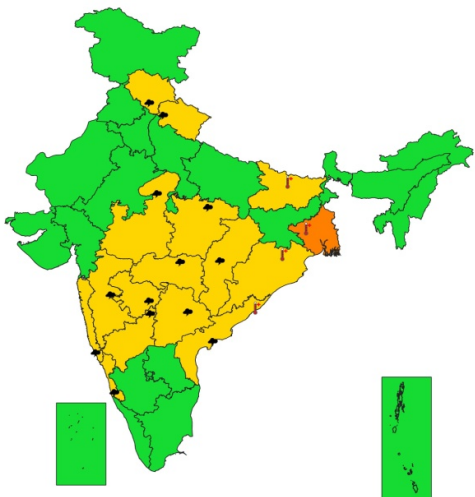
- ❖ **Rainfall/thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places over** Marathwada and North Interior Karnataka **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Odisha, Arunachal Pradesh, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal Karnataka.
- ❖ **Significant rainfall recorded** (in cm): **Coastal North Interior Karnataka:** Chikodi (Belagavi dt) 5, Raibagh, Bailhongal (both Belagavi dt), Kalghatgi (Dharwad dt) 2 each; **Coastal Andhra Pradesh & Yanam:** Araku Valley (dist Alluri Sitharamaraju) 2; **Madhya Maharashtra:** Chas_agri (dist Ahmednagar) 2, Kagal (dist Kolhapur) 1, Jamkhed (dist Ahmednagar) 1, Chandgad (dist Kolhapur) 1, Jat (dist Sangli) 1; **Marathwada:** Ausa (dist Latur) 2, Shirur Anantpal (dist Latur) 1, Ahmedpur (dist Latur) 1, Pathri (dist Parbhani) 1;
- ❖ **Hailstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Madhya Maharashtra and Marathwada.
- ❖ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Vidarbha, Chhattisgarh, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana and North Interior Karnataka.
- ❖ Yesterday, **Heat Wave conditions** prevailed in some pockets over Gangetic West Bengal and in isolated pockets over Bihar, Odisha and Coastal Andhra Pradesh & Yanam.

Annexure II


Agromet advisories for heat wave and rainfall accompanied with thunderstorms/gusty winds likely over various parts of the country (Based on the IBF and advisories issued by different AMFUs and DAMUs)

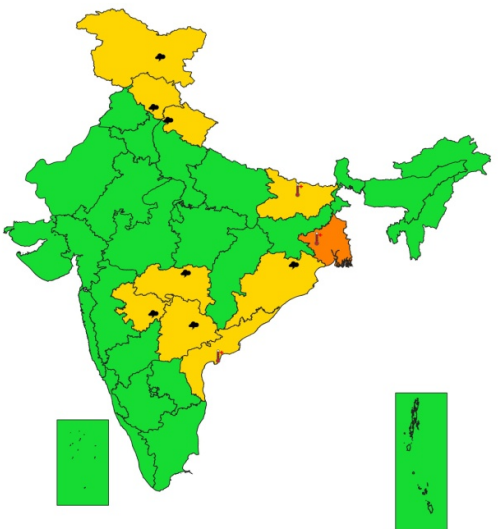
- Keep the harvested produce of crops in safe place.
- In Jammu & Kashmir,
 - i) Complete the harvesting of matured mustard before commencement of rains and keep the harvested produce in safer places.
 - ii) Postpone the application of plant protection measures in Apple.
 - iii) Maintain proper drainage channels in crop fields to avoid water stagnation.
- Provide mechanical support to horticultural crops and staking to vegetables.
- Provide light and frequent irrigation to crops in Odisha, Gangetic West Bengal, Bihar, Punjab, Haryana, West Uttar Pradesh, and Coastal Andhra Pradesh during morning and evening hours.




SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
 (15-4-2023)




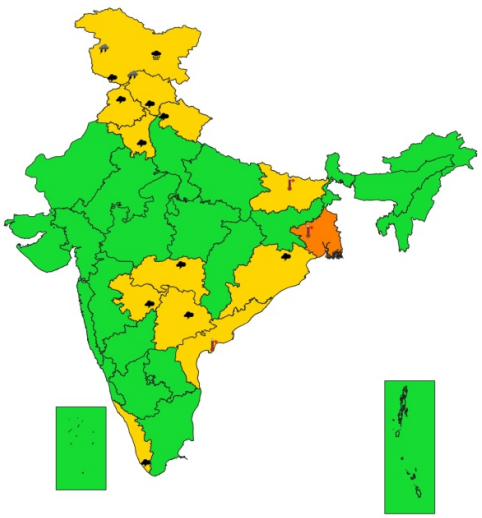
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|--|---|--|
| Subdivision Warning
 Heavy Rain
 Heavy Snow
 Thunderstorms & Lightning
 Hailstorm |  Dust Storm
 Strong Surface Winds
 Heat Wave
 Cold wave
 Fog | Subdivision color
 NO WARNING
 WATCH (BE UPDATED)
 ALERT (BE PREPARED)
 WARNING (TAKE ACTION) |
|--|---|--|





SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
 (16-4-2023)



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|--|---|--|
| Subdivision Warning
 Heavy Rain
 Heavy Snow
 Thunderstorms & Lightning
 Hailstorm |  Dust Storm
 Strong Surface Winds
 Heat Wave
 Cold wave
 Fog | Subdivision color
 NO WARNING
 WATCH (BE UPDATED)
 ALERT (BE PREPARED)
 WARNING (TAKE ACTION) |
|--|---|--|

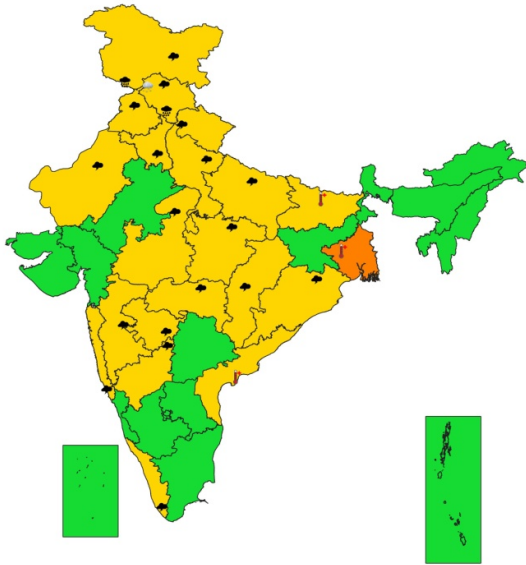

SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
 (17-4-2023)



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|--|---|--|
| Subdivision Warning
 Heavy Rain
 Heavy Snow
 Thunderstorms & Lightning
 Hailstorm |  Dust Storm
 Strong Surface Winds
 Heat Wave
 Cold wave
 Fog | Subdivision color
 NO WARNING
 WATCH (BE UPDATED)
 ALERT (BE PREPARED)
 WARNING (TAKE ACTION) |
|--|---|--|



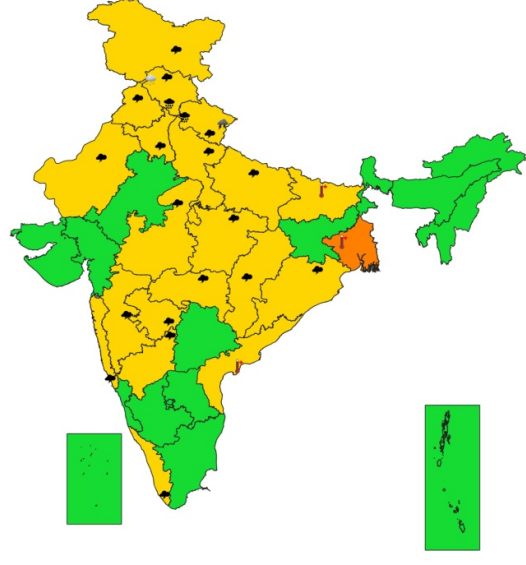
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(18-4-2023)**



- | | | |
|-----------------------------|------------------------|-------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| ☁ Heavy Rain | ⚡ Strong Surface Winds | 🟢 NO WARNING |
| ❄ Heavy Snow | 📈 Heat Wave | 🟡 WATCH(BE UPDATED) |
| ⚡ Thunderstorms & Lightning | 📉 Cold wave | 🟠 ALERT (BE PREPARED) |
| 🌨 Hallstorm | 🌫 Fog | 🔴 WARNING (TAKE ACTION) |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(19-4-2023)**



- | | | |
|-----------------------------|------------------------|-------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| ☁ Heavy Rain | ⚡ Strong Surface Winds | 🟢 NO WARNING |
| ❄ Heavy Snow | 📈 Heat Wave | 🟡 WATCH(BE UPDATED) |
| ⚡ Thunderstorms & Lightning | 📉 Cold wave | 🟠 ALERT (BE PREPARED) |
| 🌨 Hallstorm | 🌫 Fog | 🔴 WARNING (TAKE ACTION) |

Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **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-Himalaya 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 Marathwada.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and 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 Warning	Dust Storm	Subdivision color
Heavy Rain	Strong Surface Winds	 NO WARNING
Heavy Snow	Heat Wave	 WATCH (BE UPDATED)
Thunderstorms & Lightning	Cold wave	 ALERT (BE PREPARED)
Hailstorm	Fog	 WARNING (TAKE ACTION)

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