



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

**Press Release**  
**Date: 13<sup>th</sup> May, 2022**  
**Time of Issue: 1315 hrs IST**

**Subject:**

- i) Advance of Southwest Monsoon into South Andaman Sea & adjoining Southeast Bay of Bengal around 15th May, 2022.**
- ii) Heat wave spells over Northwest & Central India during next 3 days and reduction thereafter.**

**Weather observed during past 24 hours:**

- ✓ Isolated **heavy to very heavy rainfall with extremely heavy falls** occurred over Assam-Meghalaya and **heavy rainfall** at isolated places over Arunachal Pradesh, Andaman–Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Tamilnadu-Puducherry, Kerala-Mahe and South Interior Karnataka.
- ✓ **Chief amount of rainfall (in cm): Assam-Meghalaya:** Cherrapunji-32, Khliehriat-20, Mawkyrwa-16, Kokrajhar-13, Karimganj -12, Dhubri, Williamnagar-10 each, Matunga, Baksa-8 each, Haflong-7, **Sub-Himalayan West Bengal & Sikkim:** Barobhisha-11, Alipurduar, Mathabhanga-10 each, Cooch Behar-9, Pundibari, Chepan-8 each; **Arunachal Pradesh:** Bhalukpong-8, Naharlagun-7; **South Interior Karnataka:** Chamarajanagar-8; **Kerala:** Irinjalakuda, Chalakudy-8 each; **Tamilnadu-Puducherry:** Thalavadi, Yercaud-8 each, Chinnakalar, Vepur, Puducherry, Danishpet-7 each; **Andaman & Nicobar Islands:** Long Island-8.
- ✓ **Maximum Temperatures** (as on 12/05/2022) were **43-46°C** over most parts of Rajasthan; in some parts of West Madhya Pradesh, Gujarat state, Vidarbha and **40-43°C** over most parts of East Madhya Pradesh; in many parts of Punjab; in some parts of south Haryana and in isolated pockets of Madhya Maharashtra and southern parts of East Uttar Pradesh.
- ✓ **Heat Wave to severe Heat Wave conditions prevailed** over most parts of West Rajasthan and **Heat Wave conditions** over some parts of East Rajasthan, West Madhya Pradesh, Haryana and in isolated pockets over Gujarat State.

**i) Advance of Southwest Monsoon into South Andaman Sea & adjoining Southeast Bay of Bengal**

- **Southwest Monsoon likely to advance into South Andaman Sea & adjoining Southeast Bay of Bengal around 15th May, 2022.**
- **Due to strong cross equatorial flow from Bay of Bengal to Andaman Sea in lower tropospheric levels;**
  - ✓ Widespread light/moderate rainfall very likely over Andaman & Nicobar Islands during next 5 days. Isolated **heavy falls** very likely over the region during 14<sup>th</sup>-17<sup>th</sup> May.
  - ✓ **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph also likely over south Andaman Sea during 15<sup>th</sup>-17<sup>th</sup> May.

### Rainfall/thunderstorm Forecast & Warnings for rest parts of country:

- Due to strong southwesterly winds from Bay of Bengal to northeast & adjoining east India at lower tropospheric levels;
  - ✓ Widespread light/moderate rainfall with thunderstorm/lightning/gusty winds very likely over Northeast India & Sub-Himalayan West Bengal & Sikkim during next 5 days.
  - ✓ Isolated **heavy to very heavy falls** very likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim during 13<sup>th</sup> to 17<sup>th</sup> May. **Isolated extremely heavy falls also likely over Meghalaya on 13<sup>th</sup> & 14<sup>th</sup> May.**
  - ✓ Isolated **heavy falls** very likely over Arunachal Pradesh on 17<sup>th</sup> and isolated **heavy to very heavy falls** during 13<sup>th</sup>-16<sup>th</sup> May.
  - ✓ Isolated **heavy falls** very likely over Nagaland-Manipur-Mizoram-Tripura during 13<sup>th</sup> to 17<sup>th</sup> May.
  - ✓ Isolated to scattered rainfall likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha during next 5 days.
- **Due to strong westerly flow from Arabian Sea to South Peninsular India in lower tropospheric levels:**
  - ✓ Fairly widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** very likely over Kerala, Mahe, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka & Lakshadweep with isolated **heavy falls** over Tamilnadu, Puducherry & Karaikal, Kerala-Mahe during next 5 days with isolated **very heavy falls** over Tamilnadu, Puducherry & Karaikal on 14<sup>th</sup> and over Kerala & Mahe on 14<sup>th</sup> & 15<sup>th</sup> May.
  - ✓ Isolated to scattered rainfall activity with isolated **thunderstorm/lightning/gusty winds** very likely over Andhra Pradesh, Telangana, North Interior Karnataka and during next 5 days.
  - ✓ Isolated **heavy falls** likely over Coastal & South Interior Karnataka today.
- **Under the influence of a fresh Western Disturbance;**
  - ✓ Isolated light rainfall with **thunderstorm/lightning & hail** very likely over Jammu & Kashmir, Himachal Pradesh and Uttarakhand on 16<sup>th</sup> & 17<sup>th</sup> May.
  - ✓ Isolated light rainfall with thunderstorm/lightning very likely over Punjab on 16<sup>th</sup> & 17<sup>th</sup>; over north Haryana & West Uttar Pradesh on 17<sup>th</sup> May.

### iii) Heat wave spells over Northwest & Central India

#### Maximum Temperature forecast:

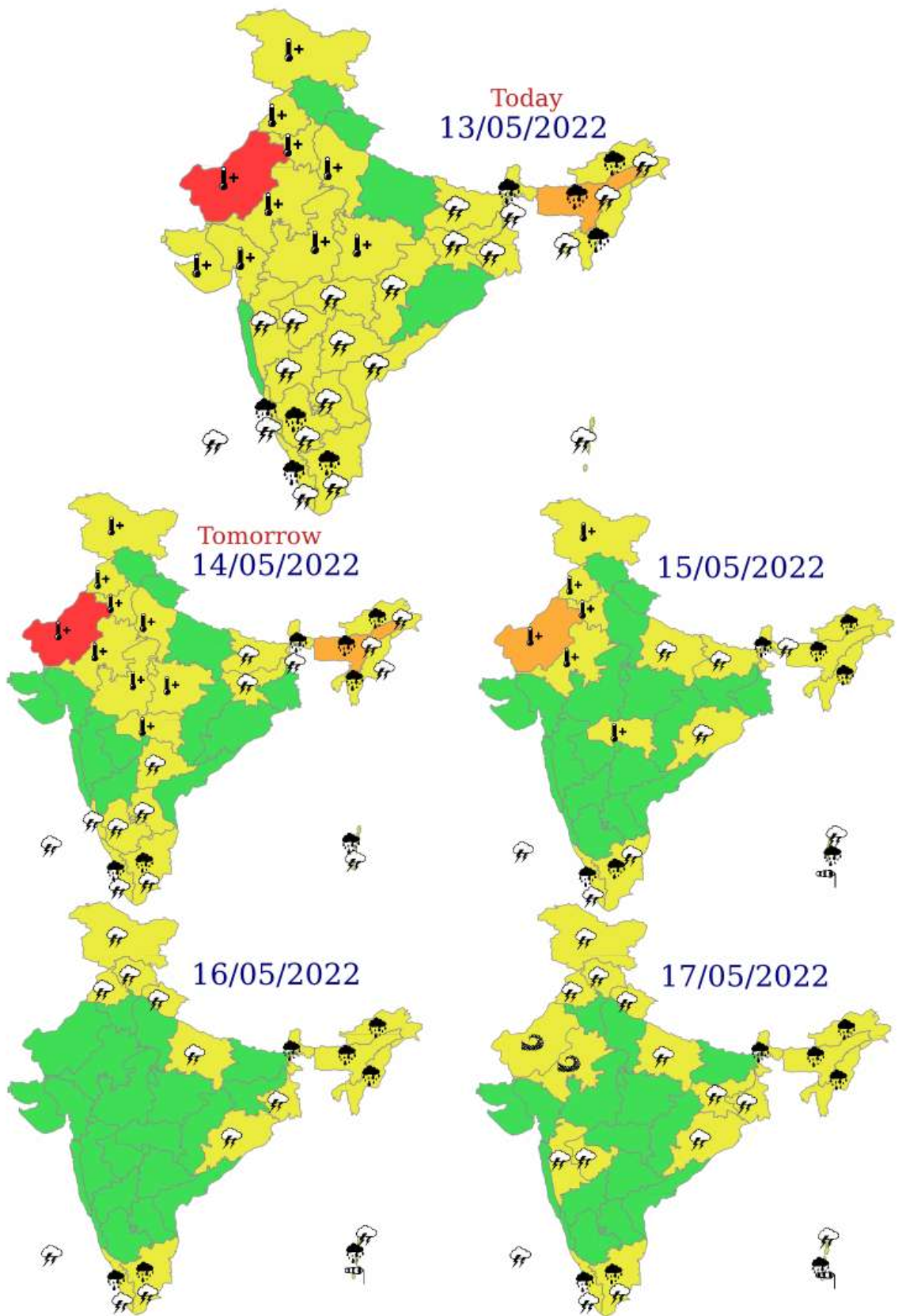
- ✓ No significant change in maximum temperatures very likely over Northwest India during next 3 days and fall by 2-3°C thereafter.
- ✓ Rise in maximum temperatures by 2-3°C very likely over East India during next 2 days and no significant change thereafter.
- ✓ No significant change in maximum temperatures very likely over Gujarat during next 24 hours and fall by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country.

#### Heat wave warnings:

- ✓ **Heat Wave conditions** in most parts with **severe heat wave conditions** in isolated pockets very likely over West Rajasthan on 13<sup>th</sup> & 14<sup>th</sup>; heat wave conditions in some parts on 15<sup>th</sup> and no heat wave thereafter for subsequent 2-3 days.
- ✓ **Heat Wave conditions** in many parts with **severe heat wave conditions** in isolated pockets very likely over East Rajasthan on 13<sup>th</sup>; heat wave conditions in many parts on 14<sup>th</sup> and in isolated pockets on 15<sup>th</sup> May.

- ✓ **Heat Wave conditions** in isolated pockets very likely over West Uttar Pradesh and Madhya Pradesh on 13<sup>th</sup> & 14<sup>th</sup>; Gujarat state on 13<sup>th</sup>; Jammu & Kashmir, south Haryana-Delhi, Punjab during 13<sup>th</sup>-15<sup>th</sup> and over Vidarbha on 14<sup>th</sup> & 15<sup>th</sup> May, 2022.

**For more details refer:** [https://mausam.imd.gov.in/imd\\_latest/contents/subdivisionwise-warning.php](https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php)



**Impact expected and action suggested due to Severe/heat wave conditions** in most parts over West Rajasthan during next 3 days.

#### Impact expected:

- Heat wave could lead to moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases
- Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.

#### Action suggested:

- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Avoid heat exposure, wear lightweight, light-colored, loose, cotton clothes and cover the head by use of cloth, hat or umbrella etc.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

**EXPECTED IMPACT & ACTION SUGGESTED due to very heavy rainfall** over Assam-Meghalaya.

#### Impact Expected

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

#### 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.

## Legends:

**Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

### Region wise classification of meteorological Sub-Divisions:

- 1) **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.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

<b>SPATIAL DISTRIBUTION</b> (% 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)



Heavy Rain



Strong Winds

### 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



Thunderstorm with Lightning



Heat Wave