



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

**Press Release
Date: 15th May, 2022
Time of Issue: 1400 hrs IST**

Subject:

- i) Advance of Southwest Monsoon into South Andaman Sea, Nicobar Islands & adjoining Southeast Bay of Bengal during next 24 hours.**
- ii) Isolated extremely heavy falls likely over Kerala-Mahe during next 2 days and heavy to very heavy falls during subsequent 3 days.**
- iii) Heat wave conditions likely to continue over Northwest & Central India today and decrease in intensity & distribution from tomorrow.**

Weather observed during past 24 hours:

- ✓ Isolated **heavy to very heavy rainfall with extremely heavy falls** occurred over Assam-Meghalaya; **heavy to very heavy rainfall** at a few places over Kerala and at isolated places over Sub-Himalayan West Bengal and **heavy rainfall** over Arunachal Pradesh, Tripura, Gangetic West Bengal, Rayalaseema and South Interior Karnataka. **(for rainfall amount refer Annexure I)**
- ✓ **Maximum Temperatures** (as on 14/05/2022) were **45-48°C** over most parts of Rajasthan & Haryana-Chandigarh-Delhi; in some parts of Punjab, Uttar Pradesh, north Madhya Pradesh; in isolated pockets of east Vidarbha, Saurashtra-Kutch and **40-44°C** over many parts of south Madhya Pradesh, west Vidarbha, Telangana and in isolated pockets of north Madhya Maharashtra, Marathwada, Jharkhand, Chhattisgarh, interior parts of Odisha and Jammu Division.
- ✓ **Heat Wave to Severe Heat Wave conditions** prevailed in most parts over West Rajasthan and Haryana-Chandigarh-Delhi; in many parts over East Rajasthan, southern parts of East UP and northern parts of East MP; in some parts over Punjab. **Heat Wave conditions** observed in most parts over Northwest Madhya Pradesh and southwest Uttar Pradesh.

i) Advance of Southwest Monsoon into South Andaman Sea, Nicobar Islands & adjoining Southeast Bay of Bengal during next 24 hours

- **Southwest Monsoon likely to advance into South Andaman Sea, Nicobar Islands & adjoining Southeast Bay of Bengal during next 24 hours.**
- **Due to strong cross equatorial flow from Bay of Bengal to Andaman Sea in lower tropospheric levels;**
 - ✓ Widespread rainfall with isolated **heavy falls & thunderstorm/lightning/gusty winds** very likely over Andaman & Nicobar Islands during next 5 days.
 - ✓ **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph also likely over Eastcentral Bay of Bengal adjoining north Andaman Sea during 17th-19th 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 isolated **heavy to very heavy falls** very likely over Arunachal Pradesh, Assam-Meghalaya and Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated **extremely heavy falls** very likely over Meghalaya during 15th-17th May.
 - ✓ Isolated **heavy falls** very likely over Mizoram & Tripura during 15th to 17th May.
 - ✓ Isolated to scattered rainfall with isolated **thunderstorm/lightning/gusty winds** likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha during next 5 days.
- **A cyclonic circulation lies over South Interior Karnataka & neighbourhood extending upto middle tropospheric levels. It is very likely to persist over the same region with slight northward movement during next 5 days. Under the influence of this cyclonic circulation and strong lower level westerly flow from Arabian Sea:**
 - ✓ Fairly widespread light/moderate rainfall with isolated **heavy falls** very likely over ghat areas of Tamilnadu and Coastal & South Interior Karnataka during next 5 days. Isolated **heavy to very heavy falls** over Coastal & South Interior Karnataka on 18th & 19th May.
 - ✓ Widespread light/moderate rainfall with **heavy to very heavy rainfall** at a few places & **extremely heavy falls** at isolated places very likely over Kerala-Mahe on 15th & 16th May and isolated **heavy to very heavy falls** during 17th-19th May.
 - ✓ Isolated to scattered rainfall activity with isolated **thunderstorm/lightning/gusty winds** very likely over Andhra Pradesh, Telangana and North Interior Karnataka during next 5 days.
 - **Under the influence of a Western Disturbance along Long. 62° E & to the north of 30°N:**
 - ✓ Scattered to fairly widespread light/moderate rainfall with **thunderstorm/lightning/gusty winds** very likely over Jammu-Kashmir, Himachal Pradesh and Uttarakhand during 15th to 18th May. Isolated **hailstorm** also likely over Himachal Pradesh on 16th & 17th May.
 - ✓ Isolated light rainfall with **thunderstorm/lightning** very likely over north Punjab, north Haryana and East Uttar Pradesh on 16th & 17th May.
 - ✓ **Duststorm/Thunderstorm** at isolated places very likely over Punjab, Haryana and Rajasthan on 16th & 17th May.
 - ✓ **Dust Raising Winds** with speed reaching 30-40 kmph at isolated places very likely over West Rajasthan during 15th-17th May.

iii) Heat wave spells over Northwest & Central India

Maximum Temperature forecast:

- ✓ No significant change in maximum temperatures very likely over many parts of Northwest & Central India during next 24 hours and fall by 2-4°C during subsequent 2 days.
- ✓ No significant change in maximum temperatures very likely over Gujarat during next 3 days and rise 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/many parts with **severe heat wave conditions** in some parts over Rajasthan on 15th May with reduction in intensity & spatial distribution thereafter.
- ✓ **Heat Wave to severe heat wave conditions** in many parts very likely over Punjab, Haryana-Delhi and in isolated pockets over south Uttar Pradesh on 15th with heat wave conditions in isolated pockets over south Uttar Pradesh on 16th May.
- ✓ **Heat Wave conditions** in some parts very likely over Vidarbha on 15th & 16th and over northwest Madhya Pradesh on 15th and **severe heat wave conditions** in isolated pockets over northern parts of

East Madhya Pradesh on 15th. Heat wave conditions in isolated pockets over Vidarbha & north Madhya Pradesh on 16th & 17th May and abate thereafter.

- ✓ **Heat Wave conditions** in isolated/some pockets very likely over Vidarbha, Jharkhand during 15th-17th; over Himachal Pradesh on 15th May.

For more details refer: https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php

Annexure I

Chief amount of rainfall (in cm):

Assam-Meghalaya: Jowai-29, Mawkyrwat-26, Cherrapunji-22, Khliehriat-21, Matunga-19, Mawphlang-18, Bahalpur-16, Kokrajhar-15, Tamulpur, Baksa-18 each, Majbat, Goibargaon-12 each, Udalguri-1, Barpeta, Kajolgaon, Dhemaji, Baghmara-10 each, Goalpara, Karimganj-9 each, Hazuah-8

Kerala: Thrissur: Kodungallur-20, Irinjalakuda-17, Chalakudy-10, Ernakulam: Aluva-19, Kochi-16, Ernakulam-15, Perumbavur-12, Piravom-7; Alappuzha: Alappuzha-15, Mancompu-12, Mavelikkara-11, Cherthala-10, Kayamkulam-8, Kottayam: Kumarakom-11, Kanjirappally-8, Kozha-7, Idukki: Thodupuzha-8; Thodupuzha: Konni-10, Kurudamannil-7, Kollam: Kollam, Punalur-12 each; Thiruvananthapura: Varkala-13, Trivandrum-12; Lakshadweep: Agathi-7

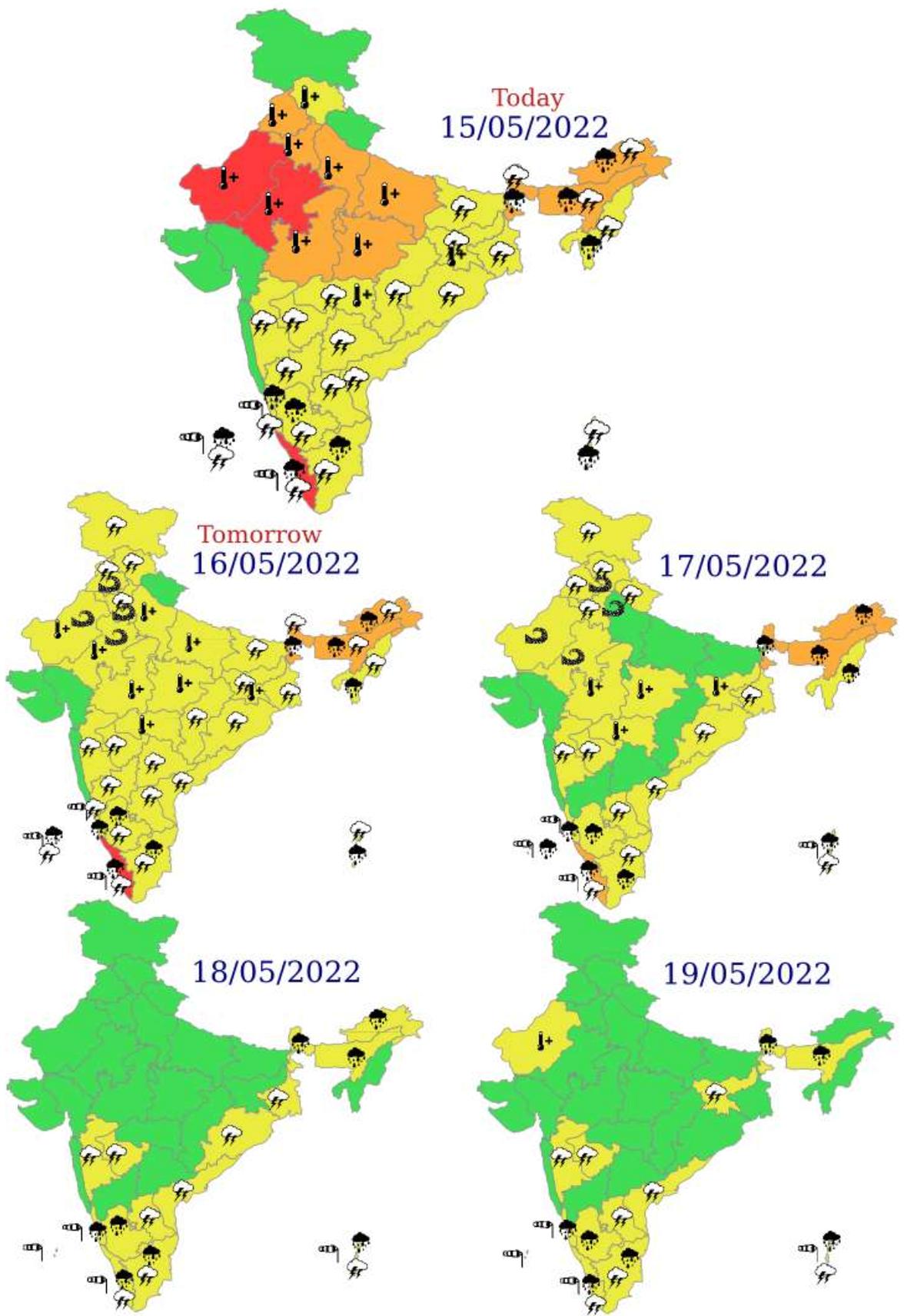
Sub-Himalayan West Bengal: Cooch behar-14, Pundibari-13, Mathabhanga-7

Tripura: Tamenglongi-10, **Arunachal Pradesh:** Itanagar-10, Boing-8, Pasighat, Tuting -7 each;

Tamilnadu: Thanjavur-8, Thirumanur, Barur, Arani-7 each

Gangetic West Bengal: Kharagpur-7

Rayalaseema: Kuppam-7.



EXPECTED IMPACT & ACTION SUGGESTED due to **heavy to very heavy/extremely heavy rainfall** over Assam-Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal, ghat areas of Tamilnadu and Kerala-Mahe during next 3 days.

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.

Impact expected and action suggested due to Severe/heat wave conditions in most/many **parts** over Rajasthan, Haryana-Delhi, Punjab, Uttar Pradesh and Madhya Pradesh today.

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.

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.

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)



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

