



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

**Press Release
Date: 21st May, 2022
Time of Issue: 1340 hrs IST**

Subject:

i) Wet spell over Northwest & East India during 21st to 24th with peak intensity on 23rd May, 2022.

Weather observed during past 24 hours:

Isolated heavy to very heavy rainfall occurred over Kerala-Mahe, Meghalaya and Tripura and heavy rainfall at isolated places over Assam, Sub-Himalayan West Bengal, Marathwada and Tamilnadu.
(for rainfall amount refer Annexure I)

Rainfall/thunderstorm Forecast & Warnings:

- Under the influence of current Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood in lower tropospheric levels with a trough aloft in middle tropospheric levels and a fresh approaching Western Disturbance and an east-west trough from northwest Rajasthan to east Assam in lower tropospheric levels:
 - ✓ Fairly widespread to widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** very likely over Jammu& Kashmir, Himachal Pradesh and Uttarakhand; scattered rainfall activity over Punjab, Haryana, Uttar Pradesh and isolated rainfall activity over Rajasthan during 21st-24th with peak rainfall intensity on 23rd May, 2022.
 - ✓ **Isolated hailstorm** also likely over Jammu& Kashmir on 22nd; over Himachal Pradesh on 22nd & 23rd; over Uttarakhand on 21st & 22nd and over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh & East Rajasthan on 23rd May, 2022. **Isolated heavy rainfall** also likely over Jammu& Kashmir on 22nd & 23rd; over Himachal Pradesh, Uttarakhand and north Punjab on 23rd May, 2022.
 - ✓ **Duststorm** activity at isolated places very likely over West Rajasthan during 22nd & 24th and over East Rajasthan during 21st- 24th May.
 - ✓ **Strong Surface Winds** with wind speed reaching 30-40 kmph over Rajasthan on 21st May.
 - ✓ Scattered to fairly widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha during next 5 days.
 - ✓ Fairly widespread to widespread light/moderate rainfall with isolated **heavy to very heavy falls and thunderstorm/lightning very likely over** Arunachal Pradesh, Assam-Meghalaya and Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during next 2 days and decrease in rainfall intensity thereafter. Isolated **extremely heavy falls** also very likely over Meghalaya on 21st May.

- **A cyclonic circulation lies over Rayalaseema & neighbourhood in lower & middle tropospheric levels.** Under their influence:
 - ✓ Widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** very likely over Kerala-Mahe during next 5 days and over Karnataka on 21st & 22nd with isolated **heavy falls** over Karnataka and Kerala on 21st May.
 - ✓ Isolated to scattered light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** over Tamilnadu, Andhra Pradesh and Telangana during next 5 days.
 - ✓ **Significant reduction** in rainfall activity over South Peninsular India from 22nd May.

Heat wave spells over Northwest & Central India

Maximum Temperature forecast:

- ✓ Fall in maximum temperatures by 3-4°C over most parts of Northwest India during next 3 days and no significant change thereafter.
- ✓ No significant change in maximum temperatures during next 24 hours over Central India and fall by 2-4°C thereafter.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country during next 5 days.

Heat wave warnings:

- ✓ **Heat wave** conditions in isolated pockets very likely over Madhya Pradesh and Jharkhand on 21st May 2022.
- ✓ Abatement of heat wave conditions very likely over the Indian region from 22nd May, 2022.

Advancement of Southwest Monsoon (Annexure II)

- The Northern Limit of Southwest Monsoon continues to pass through 5°N/67°E, 6°N/72°E, 5.5°N/80°E, 8°N/85°E, 12.5°N/90°E, 16.0°N/93°E and 18.0°N/94.5°E.
- **Strong cross equatorial flow from Bay of Bengal to Andaman Sea in lower tropospheric levels;**
 - ✓ Widespread rainfall with **thundersquall/lightning/gusty winds** very likely over Andaman & Nicobar Islands during next 5 days and isolated **heavy falls** on 23rd & 24th May.
 - ✓ **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph likely over north Andaman Sea and adjoining Eastcentral Bay of Bengal during next 5 days.

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

Annexure I

Chief amount of rainfall (in cm):

Kerala-Mahe: Idukki: Thodupuzha-13; **Kozhikode:** Kozhikode-9; **Ernakulam:** Piravam-9, Ernakulam South-8, Kochi-7; **Palakkad:** Parumbikulam-8; **Thrissur:** Chalakudi-8;

Meghalaya: **East Garo Hills-** Williamnagar-16; **South Garo Hills:** Baghmara-10; Tikrikilla & Tura-7 each;

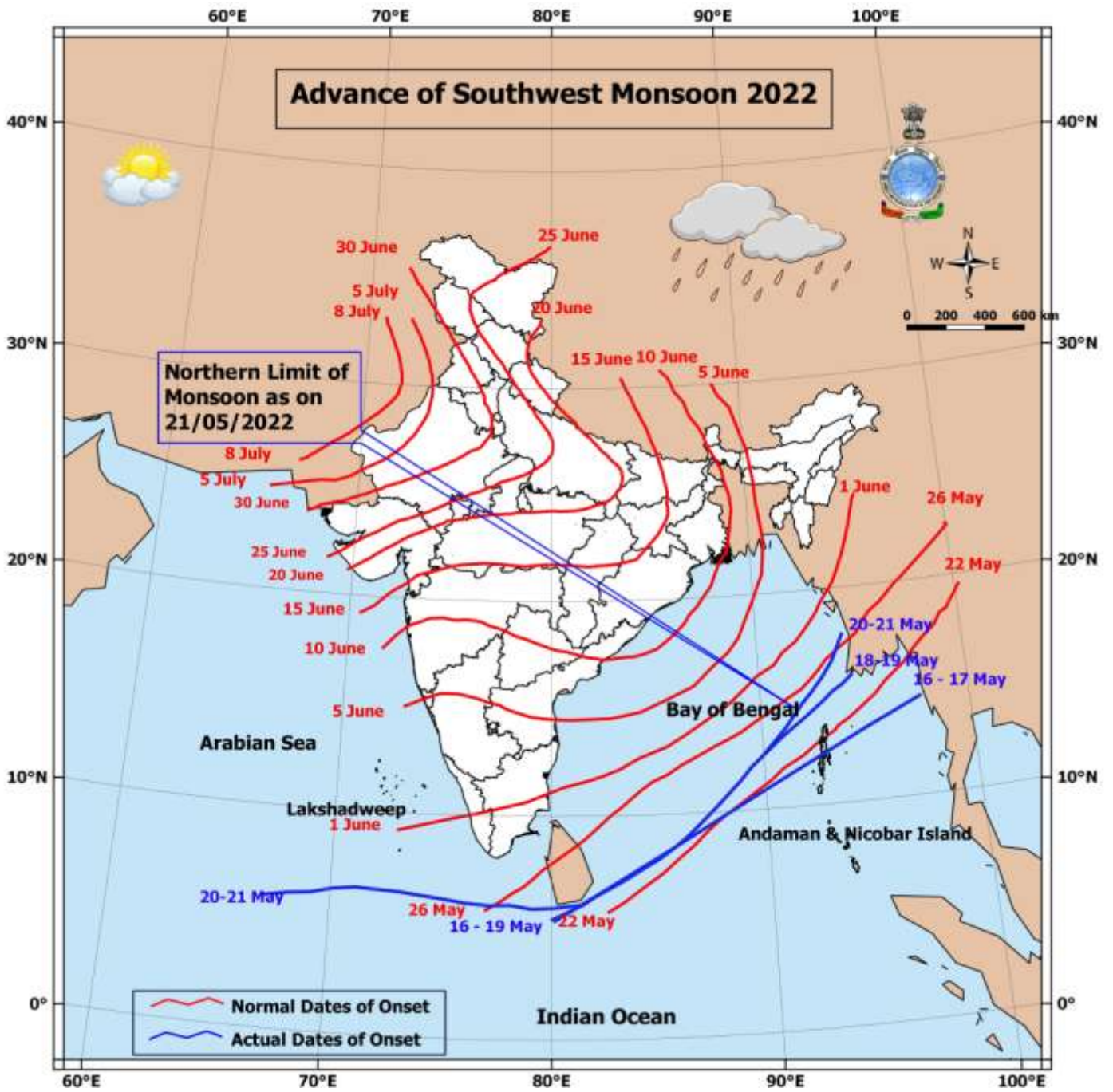
Tripura: Jiraniya-12, Teliamura-9;

Assam: Dhubri- Dhubri-10.

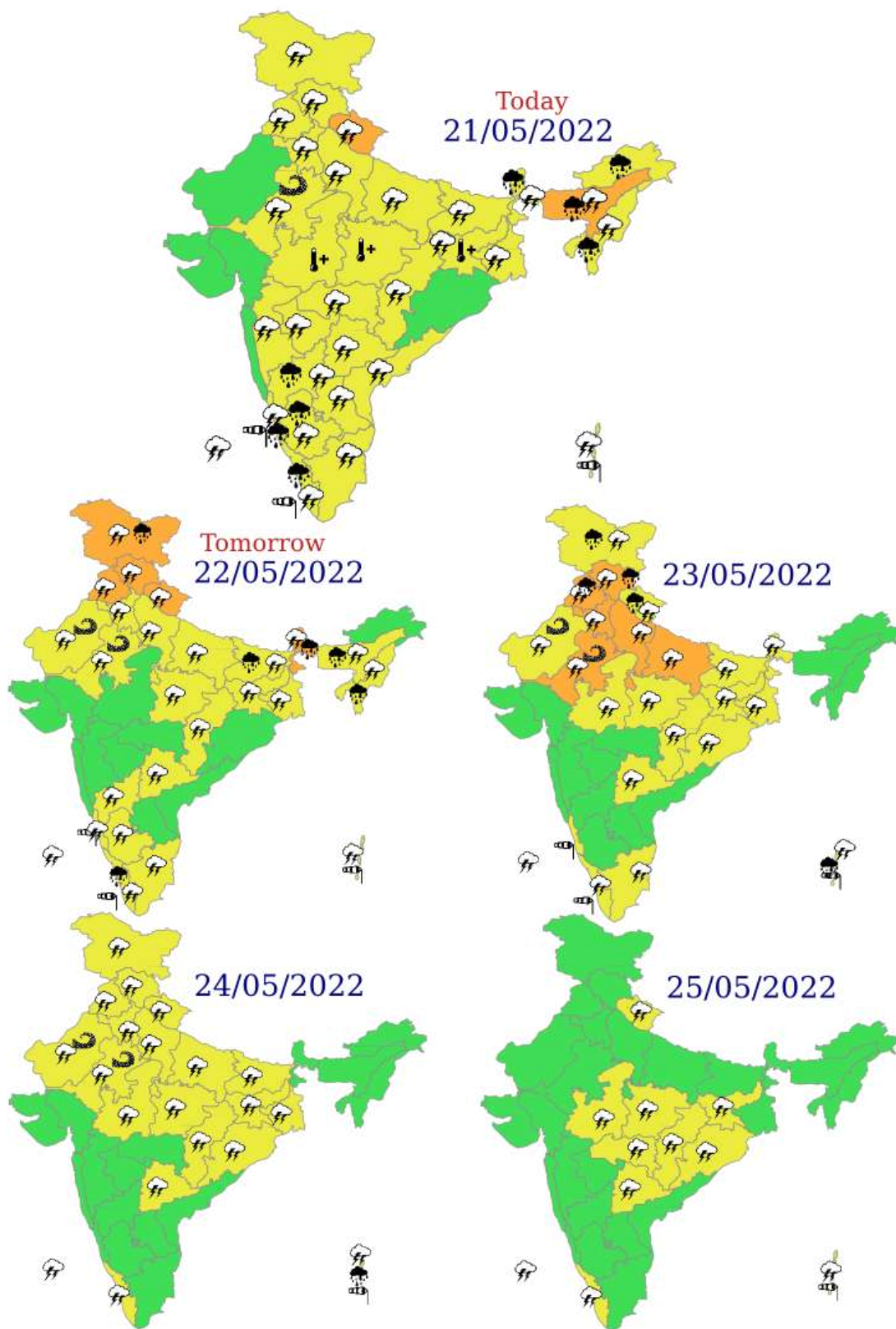
Sub-Himalayan West Bengal-Sikkim: Gangtok-9;

Tamilandu: Coimbatore: Valparai-8, Chinnakalar-7;

Marathwada: Osmanabad: Umarga-7;



Advance of Southwest Monsoon 2022



EXPECTED IMPACT & ACTION SUGGESTED due to heavy to very heavy/extremely heavy rainfall over Assam & Meghalaya on 20th & 21st May.

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.

EXPECTED IMPACT & ACTION SUGGESTED due to Thundersquall with lightning/hail over Jammu & Kashmir on 22nd; over Himachal Pradesh & Punjab on 22nd & 23rd; over Uttarakhand on 21st & 22nd; over Uttar Pradesh, Rajasthan and Haryana, Chandigarh & Delhi on 23rd and over Sub-Himalayan West Bengal on 22nd May, 2022.

Impact expected:

- 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:

- 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.
- Farming operations may be suspended during the event.

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.)



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

