



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

**Press Release**  
**Date: 22<sup>nd</sup> May, 2022**  
**Time of Issue: 1300 hrs IST**

**Subject: Wet spell over Northwest & East India during 22<sup>nd</sup> to 24<sup>th</sup> with peak intensity on 23<sup>rd</sup> May over Northwest India and on 23<sup>rd</sup> & 24<sup>th</sup> May over East India.**

**Weather observed during past 24 hours:**

- ✓ Isolated heavy rainfall occurred over Assam and Tamilnadu.
- ✓ **Chief amount of rainfall (in cm):** **Tamilnadu:** Coimbatore: Chinnakalar-10, Valprai-8; **Assam:** Silchar-7.
- ✓ **Thundersquall** reported at isolated places over Bihar and Gangetic West Bengal.

**Rainfall/thunderstorm Forecast & Warnings:**

- A Western Disturbance seen as a trough in mid & upper tropospheric levels with its axis at 5.8 km above mean sea level along Long.63°E & to the north of Lat.35°N and a cyclonic circulation lies over Punjab & neighbourhood in lower tropospheric levels. An east-west trough runs from southwest Uttar Pradesh to Jharkhand in lower tropospheric levels. Under the influence of above systems:
  - ✓ Fairly widespread to widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** very likely over Jammu & Kashmir, Himachal Pradesh and Uttarakhand; scattered to fairly widespread rainfall activity over Punjab, Haryana, Uttar Pradesh and isolated rainfall activity over Rajasthan during 22<sup>nd</sup>-24<sup>th</sup> with peak rainfall intensity on 23<sup>rd</sup> May, 2022.
  - ✓ Isolated **thundersquall** activity also very likely over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and East Rajasthan on 23<sup>rd</sup> May, 2022
  - ✓ **Isolated hailstorm** also likely over Himachal Pradesh, Punjab on 22<sup>nd</sup> & 23<sup>rd</sup>; over Haryana-Chandigarh-Delhi, Uttar Pradesh on 23<sup>rd</sup> May, 2022. **Isolated heavy rainfall** also likely over Jammu & Kashmir and north Punjab on 23<sup>rd</sup> May, 2022.
  - ✓ **Duststorm** activity at isolated places very likely over Rajasthan during 22<sup>nd</sup> to 24<sup>th</sup> 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.
  - ✓ Isolated **thundersquall** activity also very likely over Odisha, Gangetic West Bengal and Jharkhand on 23<sup>rd</sup> & 24<sup>th</sup> May, 2022.

- Due to southwesterly winds from Bay of Bengal to northeast & adjoining east India at lower tropospheric levels;
  - ✓ Fairly widespread to widespread light/moderate rainfall **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 **heavy rainfall** likely over Assam-Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 22<sup>nd</sup> and over Sub-Himalayan West Bengal & Sikkim on 22<sup>nd</sup> & 23<sup>rd</sup> May.

#### **Maximum Temperature forecast and Heat Wave Warnings:**

- ✓ Fall in maximum temperatures by 3-5°C over many parts of Northwest India during next 3 days and rise by 2-4°C thereafter.
- ✓ Fall in maximum temperatures by 3-4°C over most parts of Central India during next 3 days and rise by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures over Gujarat state 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 during next 5 days.

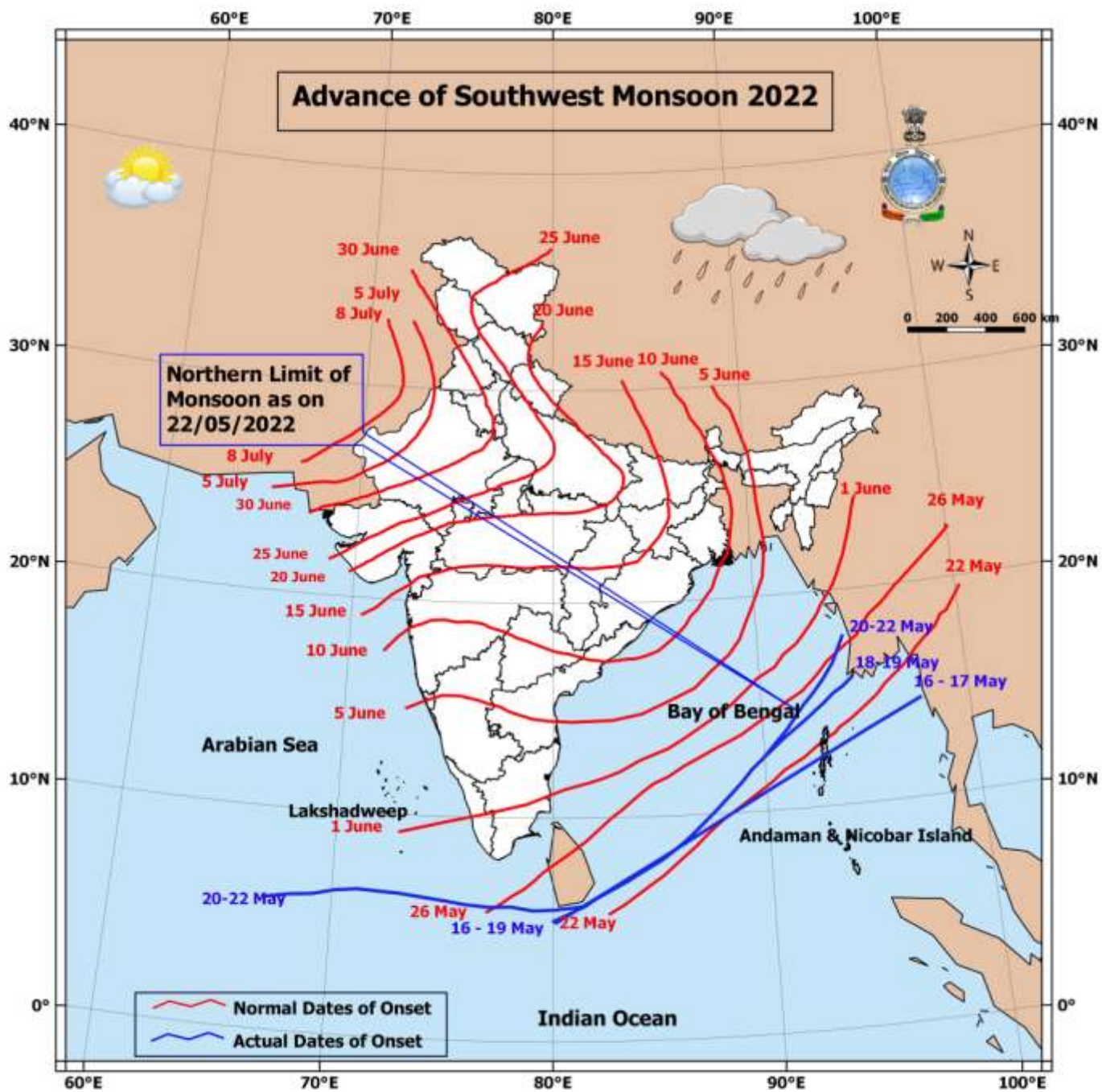
#### **Heat wave warnings:**

- ✓ Heat wave conditions have been abated over the Indian region from 21<sup>st</sup> May. No heat wave condition is likely to develop over any parts of the country during next 3-4 days.

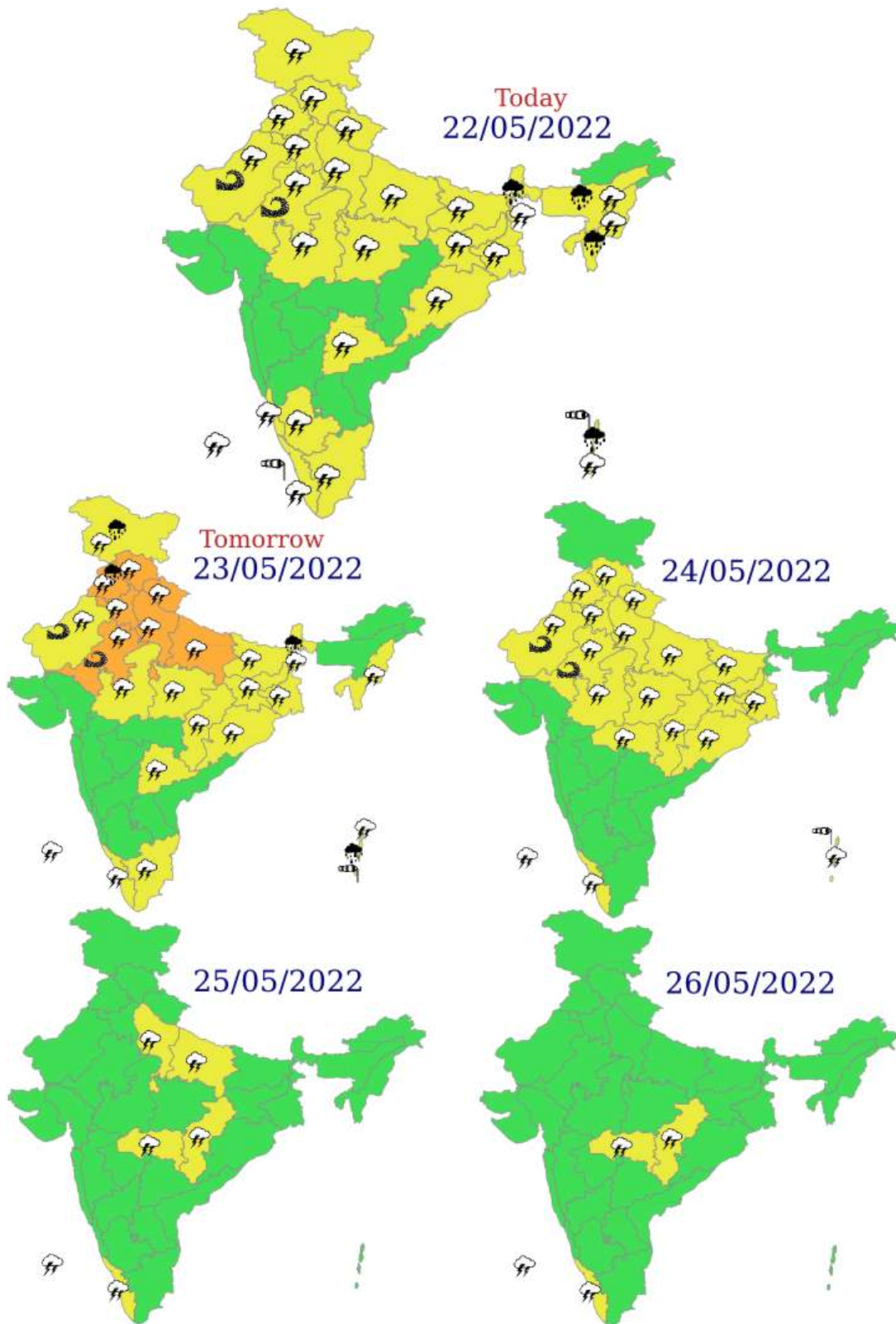
#### **Advancement of Southwest Monsoon (Annexure I)**

- 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.
- Due to Strong cross equatorial flow from Bay of Bengal to Andaman Sea in lower tropospheric levels;
  - ✓ Fairly widespread to widespread rainfall with **thundersquall/lightning/gusty winds** very likely over Andaman & Nicobar Islands during next 5 days and isolated **heavy falls** on 22<sup>nd</sup> & 23<sup>rd</sup> May.
  - ✓ **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph likely over Eastcentral Bay of Bengal & adjoining north Andaman Sea during next 3 days.

**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)



Advance of Southwest Monsoon 2022



**EXPECTED IMPACT & ACTION SUGGESTED due to Thundersquall with lightning/hail** over Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan on 23<sup>rd</sup> 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.

<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