



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

**Press Release  
Date: 18<sup>th</sup> May, 2022  
Time of Issue: 1340 hrs IST**

**Subject:**

- i) Southwest Monsoon further advanced into some more parts of South Bay of Bengal, entire Andaman Sea & Andaman & Nicobar Islands and some more parts of Eastcentral Bay of Bengal.**
- ii) Heavy to very heavy rainfall spell over Kerala and Coastal & South Interior Karnataka during next 2 days.**
- iii) A fresh spell of heat wave conditions likely over Northwest & Central India from 19<sup>th</sup> May, 2022.**

**Weather observed during past 24 hours:**

- Isolated **heavy to very heavy rainfall with extremely heavy falls** occurred over Kerala and Meghalaya; **heavy to very heavy rainfall** at isolated places over Andaman-Nicobar Islands, Assam, South Interior Karnataka and Tamilnadu and **heavy rainfall** at isolated places over Arunachal Pradesh, Tripura and Rayalaseema. **(for rainfall amount refer Annexure I)**

**(i) Advancement of Southwest Monsoon (Annexure II)**

- Southwest Monsoon has further advanced into some more parts of South Bay of Bengal, entire Andaman & Nicobar Islands, entire Andaman Sea and some more parts of Eastcentral Bay of Bengal. The Northern Limit of Southwest Monsoon now passes through 5°N/80°E, 8°N/85°E, 12.5°N/90°E and 16.0°N/94.5°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of South & Central Bay of Bengal and some parts of South Arabian Sea during next 2-3 days.
- **Due to strong cross equatorial flow from Bay of Bengal to Andaman Sea in lower tropospheric levels;**
  - ✓ Widespread rainfall very likely over Andaman & Nicobar Islands during next 5 days.
  - ✓ Isolated **heavy falls & thunderstorm/lightning/gusty winds** very likely over Andaman & Nicobar Islands during next 4 days with isolated **heavy to very heavy rainfall** on today, the 18<sup>th</sup> May.
  - ✓ **Squally weather** with wind speed reaching 40-50 kmph gusting to 60 kmph likely over Andaman Sea, southeast Bay of Bengal and adjoining central Bay of Bengal during next 3 days.

**(ii) Rainfall/thunderstorm Forecast & Warnings for rest parts of country:**

- **Due to strong southwesterly winds from Bay of Bengal to northeast & adjoining East India and an east-west trough from northwest Rajasthan to west Assam at lower tropospheric levels;**
  - ✓ Fairly widespread to widespread light/moderate rainfall with isolated **heavy to very heavy falls** very likely over Assam-Meghalaya and Sub-Himalayan West Bengal & Sikkim during next 5 days. Isolated **extremely heavy falls** very likely over Meghalaya on 18<sup>th</sup> May.

- ✓ Widespread light/moderate rainfall with isolated **heavy falls** very likely over Nagaland, Manipur, Mizoram & Tripura on 18<sup>th</sup> and over Arunachal Pradesh on 18<sup>th</sup> & 19<sup>th</sup> May.
- ✓ Isolated to scattered light 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 north interior Tamilnadu & neighbourhood extending upto middle tropospheric levels and a north-south trough runs from central Madhya Pradesh to interior Tamilnadu in lower tropospheric levels. Under the influence of these systems:**
  - ✓ Fairly widespread to widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** very likely over Kerala-Mahe, Tamilnadu, Karnataka, Lakshadweep and Rayalaseema during next 5 days.
  - ✓ Isolated **heavy to very heavy falls** very likely over Kerala-Mahe, Coastal & South Interior Karnataka on 19<sup>th</sup> and over Tamilnadu on 18<sup>th</sup> with **extremely heavy rainfall** at isolated places over Kerala-Mahe, Coastal & South Interior Karnataka on today, the 18<sup>th</sup> May.
  - ✓ Isolated **heavy rainfall** also very likely over Rayalaseema & Lakshadweep on 18<sup>th</sup> May.
- **Under the influence of a cyclonic circulation over south Rajasthan & trough in westerlies runs along Long.78°E & to the north of Lat. 25°N in middle tropospheric levels:**
  - ✓ Isolated to scattered light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds & hailstorm** very likely over Western Himalayan Region with **thundersquall & hail** over Uttarakhand on 18<sup>th</sup> May.
  - ✓ Isolated light rainfall with **thunderstorm/lightning/gusty winds/hail** very likely over Punjab, Haryana and Uttar Pradesh on 18<sup>th</sup> May.
  - ✓ **Duststorm/Thunderstorm** at isolated places very likely over East Uttar Pradesh on 18<sup>th</sup> May.
- **Under the influence of a fresh Western Disturbance;**
  - ✓ Scattered to fairly widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds & hailstorm** very likely over Jammu-Kashmir during 19<sup>th</sup>-22<sup>nd</sup> and over Himachal Pradesh & Uttarakhand on 21<sup>st</sup> & 22<sup>nd</sup> May.
  - ✓ Isolated light rainfall with **thunderstorm/lightning/gusty winds** very likely over Punjab, Haryana and Uttar Pradesh during 20<sup>th</sup>-22<sup>nd</sup> May.
  - ✓ **Duststorm/Thunderstorm** at isolated places very likely over West Uttar Pradesh on 20<sup>th</sup> and over Rajasthan on 21<sup>st</sup> & 22<sup>nd</sup> May.

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

#### Maximum Temperature forecast:

- ✓ Rise in maximum temperatures by 2-3°C over northwest India & Madhya Pradesh during next 3 days and fall by 2-4°C thereafter
- ✓ No significant change in maximum temperatures very likely over rest parts of the country.

#### Heat wave warnings:

- **Heat wave** conditions in isolated pockets very likely over
  - ✓ Rajasthan, south Punjab, south Haryana and Madhya Pradesh on 19<sup>th</sup> & 20<sup>th</sup>;
  - ✓ Vidarbha during 18<sup>th</sup> to 21<sup>st</sup>;
  - ✓ Uttar Pradesh on 18<sup>th</sup> and over Odisha on 22<sup>nd</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)

**Chief amount of rainfall (in cm):**

**Assam-Meghalaya: East Khasi Hills:** Cherrapunji-21, Mawsynram-15; **Karimganj:** Karimganj-10, **Kamrup:** Puthimari-10; **Nalbari:** Nalbari-10; **Dhubri:** Bahalpur-7.

**Kerala-Mahe:** **Kannur:** Cheruthazham-25, Thalassery-13, Kannur-12; **Kozhikode:** Kozhikode-12, Vada-kara-10; **Mahe:** 16; **Kottayam:** Vaikom-9.

**Andaman & Nicobar Islands: North & Middle Andaman:** Long Island-17, Maya Bandar-7; **South Andaman:** Port Blair-14;

**South Interior Karnataka: Mysuru:** Bherya-12, Hunsur-10, Saligrama-9; **Bengaluru Urban:** KSNDMC CAMPUS-13, Bengaluru city-11, Hesaraghatta-10; **Bengaluru Rural:** Doddaballapura-10;

**Mandya:** Bellur-10, Malavalli-8; **Tumakuru:** Pavagada-10; **Ramangara:** Kanakapura-8;

**Chikaballapura:** Thondebhavi-9, Chikballapura-7; **Kodagu:** Bhagamandala & Suntikoppa -7 each

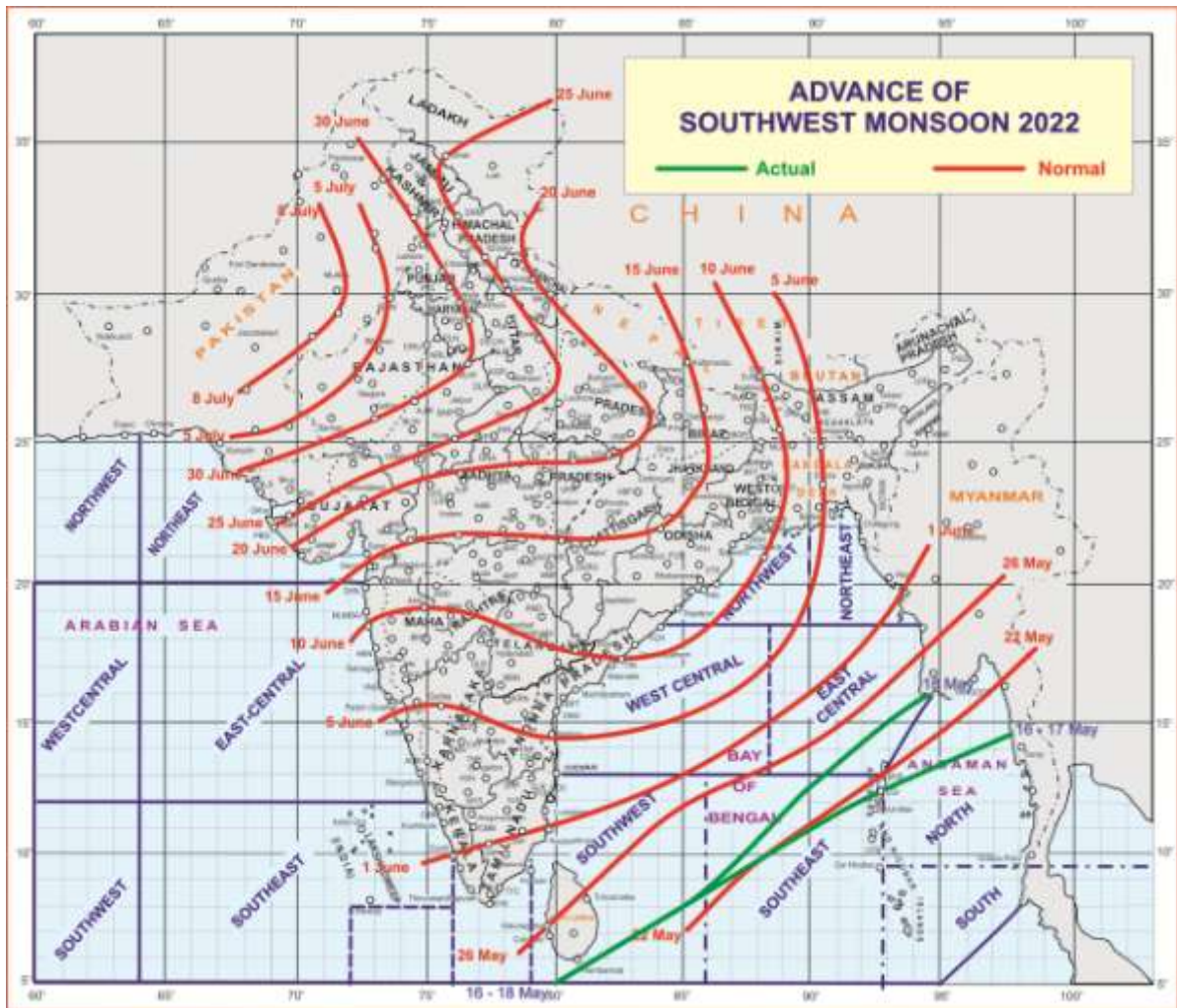
**Tamilnadu: Vellore:** Virinjipuram-14; **Salem:** Sankaridurg-13, Edapadi-7;

**Rayalaseema: Anantapuramu:** Atmakur-11, Madakasira-10, Penu Konda-8;

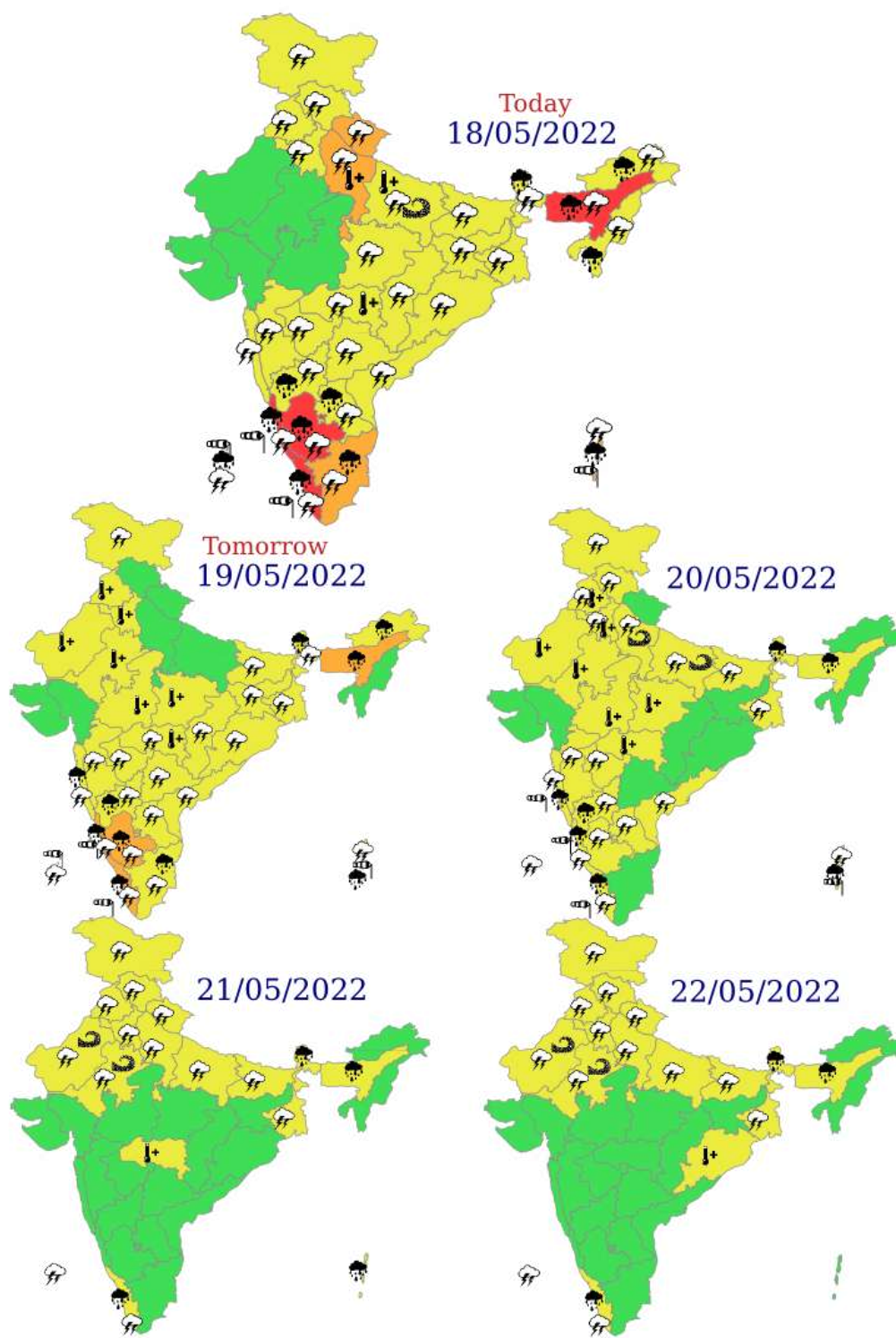
**Arunachal Pradesh: Lohit:** Tezu-9;

**Nagaland-Manipur-Mizoram-Tripura: Tamenglong:** Tamenglongi-9; **Imphal West:** Chottabekra-7;

**Aizwal:** Aizwal-7; **North Tripura:** Kanchanpur-7.



Advance of Southwest Monsoon 2022





**EXPECTED IMPACT & ACTION SUGGESTED due to heavy to very heavy/extremely heavy rainfall** over Assam-Meghalaya, Coastal & South interior Karnataka, 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.

## 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