



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

**Press Release  
Date: 16<sup>th</sup> May, 2022  
Time of Issue: 1430 hrs IST**

**Subject:**

- i) **Southwest Monsoon has advanced into some parts of South Bay of Bengal, most part of Andaman Nicobar Islands and Andaman Sea today, the 16<sup>th</sup> May, 2022.**
- ii) **Isolated heavy to very heavy falls likely over Kerala, coastal & south interior Karnataka, Assam & Meghalaya and Arunachal Pradesh during next 4-5 days.**
- iii) **Heat wave conditions likely to reduce significantly in intensity and distribution over Northwest & Central India from today.**

**Weather observed during past 24 hours:**

- ✓ Isolated **heavy to very heavy rainfall with extremely heavy falls** occurred over Meghalaya; **heavy to very heavy rainfall** at isolated places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal, Arunachal Pradesh and Assam and **heavy rainfall** at isolated places over Tamilnadu and Telangana. **(for rainfall amount refer Annexure I)**
- ✓ **Heat Wave to Severe Heat Wave conditions** observed in most parts over south Haryana-Delhi; in many parts over south Uttar Pradesh; in some parts over Jammu Division, Himachal Pradesh, West Rajasthan and Punjab and at isolated parts over East Rajasthan and north Madhya Pradesh. **Heat Wave conditions** observed in many parts over Vidarbha and at isolated pockets over southwest Bihar & Jharkhand.

**i) Southwest Monsoon has advanced into some parts of South Bay of Bengal, most part of Andaman Nicobar Islands and Andaman Sea today, the 16<sup>th</sup> May, 2022(Annexure II).**

◆ In view of strengthening of southwesterlies in the lower tropospheric levels, fairly widespread to widespread rainfall activity and persistent cloudiness over the area; **Southwest Monsoon has advanced into some parts of South Bay of Bengal, most part of Andaman Nicobar Islands and Andaman Sea today, the 16<sup>th</sup> May, 2022.** The Northern Limit of Southwest Monsoon passes through 5°N/80°E, 8°N/85°E, 11°N/90°E, Long Islands and 14.8°N/97.5°E.

◆ **Conditions are favourable for further advance of Southwest Monsoon into some more parts of South Bay of Bengal, entire Andaman Sea & Andaman Islands and some parts of Eastcentral Bay of Bengal during next 2-3 days.**

- ✓ 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 Andaman Sea and adjoining southeast Bay of Bengal and adjoining east central Bay of Bengal during 16<sup>th</sup>-18<sup>th</sup> May.

**For detail fishermen warnings please refer**

**[https://mausam.imd.gov.in/imd\\_latest/contents/all\\_india\\_forecast\\_bulletin.php](https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php)**

### 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 4-5 days. Isolated **extremely heavy falls** very likely over Meghalaya on 16<sup>th</sup> & 17<sup>th</sup> May.
  - ✓ Isolated **heavy falls** very likely over Mizoram & Tripura during 16<sup>th</sup> to 18<sup>th</sup> May.
  - ✓ Isolated to scattered rainfall with isolated **thunderstorm/lightning/gusty winds** likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha during next 3-4 days.
- **A cyclonic circulation lies over Lakshadweep area in middle tropospheric levels and another cyclonic circulation lies over north Tamilnadu coast in lower tropospheric levels. Under the influence of these cyclonic circulations and strong lower level westerly flow from Arabian Sea:**
  - ✓ Fairly widespread to widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** with isolated **heavy to very heavy falls** very likely over Kerala, Coastal & South Interior Karnataka during next 5 days; isolated **heavy rainfall** over Tamilnadu during 16<sup>th</sup> to 18<sup>th</sup> May; over Lakshadweep area on 16<sup>th</sup> & 17<sup>th</sup> May. Isolated **extremely heavy falls** also likely over Coastal & South Interior Karnataka on 18<sup>th</sup> May.
- **Under the influence of a Western Disturbance over central Pakistan:**
  - ✓ Scattered to fairly widespread light/moderate rainfall with **thunderstorm/lightning/gusty winds** very likely over Jammu-Kashmir, Himachal Pradesh and Uttarakhand on 16<sup>th</sup> & 17<sup>th</sup> May. Isolated **hailstorm** also likely over Himachal Pradesh on 16<sup>th</sup> & 17<sup>th</sup> May and over Uttarakhand on 17<sup>th</sup> May.
  - ✓ Isolated light rainfall with **thunderstorm/lightning/gusty winds** very likely over Punjab, Haryana, Uttar Pradesh and Rajasthan on 16<sup>th</sup> & 17<sup>th</sup> May.
  - ✓ **Duststorm/Thunderstorm** at isolated places very likely over Punjab, Haryana, Uttar Pradesh and Rajasthan on 16<sup>th</sup> & 17<sup>th</sup> May.

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

#### Maximum Temperature forecast:

- ✓ Fall in maximum temperatures by 3-4°C very likely over many parts of Northwest India during next 24 hours and no significant change during subsequent 2 days.
- ✓ Fall in maximum temperatures by 3-4°C very likely over many parts of Central India during next 3 days and no significant change during subsequent 2 days.
- ✓ 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 northeast Rajasthan, Punjab, Haryana, Chandigarh & Delhi, south Uttar Pradesh, Vidarbha and north Madhya Pradesh on 16<sup>th</sup> and over Bihar and Jharkhand on 16<sup>th</sup> & 17<sup>th</sup> May.

**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):**

**Andaman & Nicobar Islands:** IAF Car Nicobar-12; Car Nicobar-7

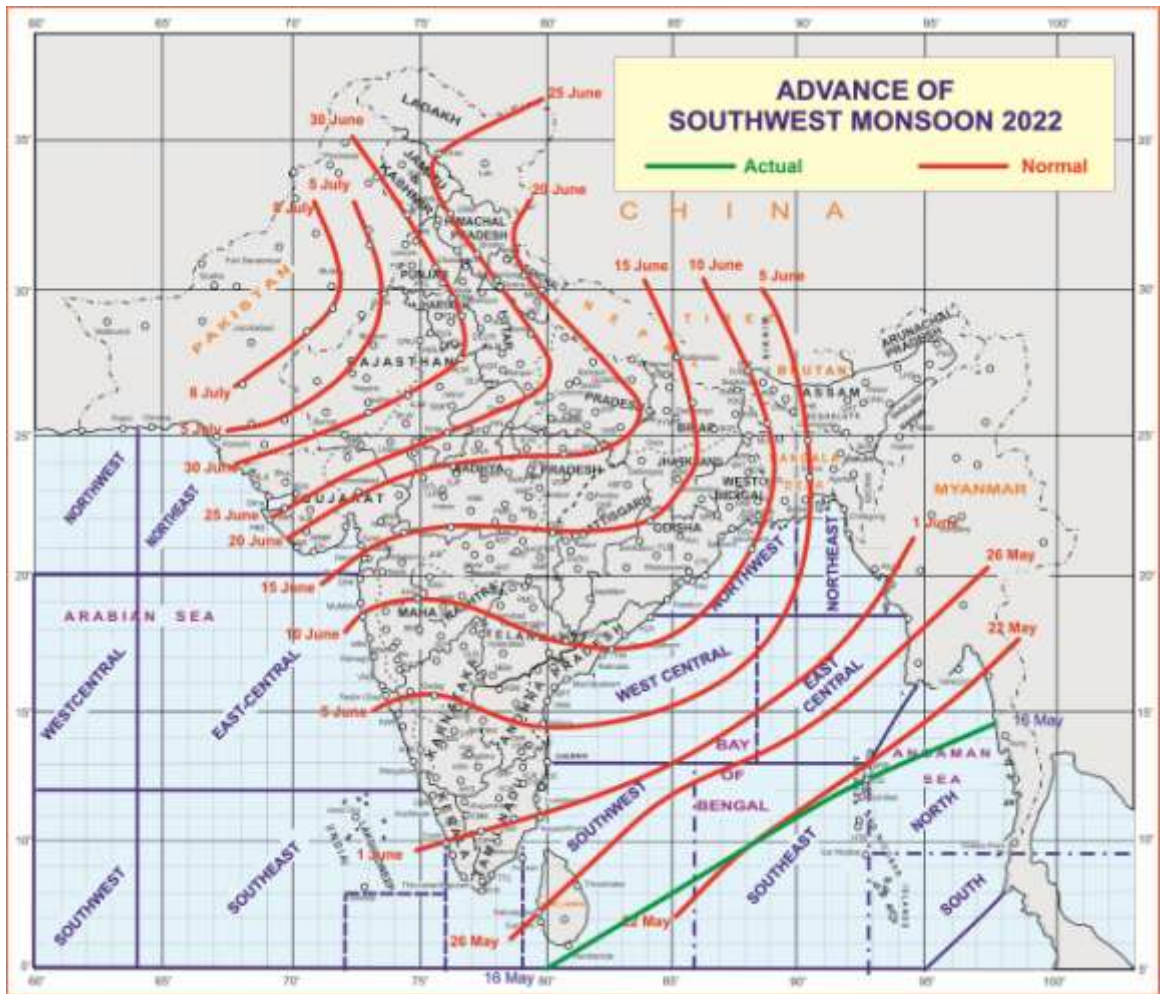
**Assam-Meghalaya:** Mawsynram-55, Cherrapunji-42 Jaintia Hills-37; west khasi Hills-26;

**Sub-Himalayan West Bengal:** Bagrakote-12; Cooch behar-10, Pundibari-9.

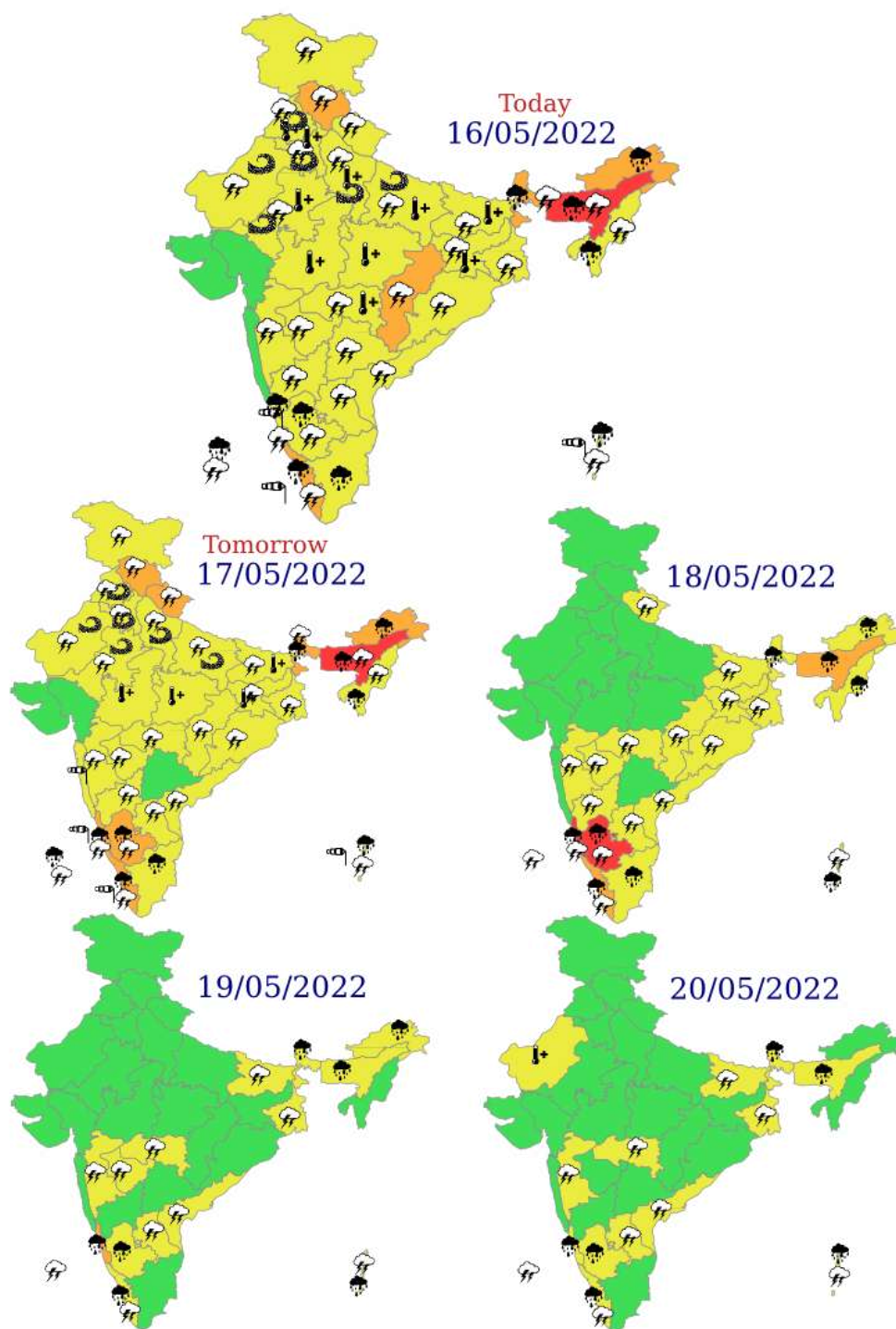
**Sikkim:** Ravangla 10

**Telangana:** Tadwai-10, Lingampet-8, Navipet-8

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



Advance of Southwest Monsoon 2022



**EXPECTED IMPACT & ACTION SUGGESTED due to heavy to very heavy/extremely heavy rainfall** over Assam-Meghalaya, Arunachal Pradesh, Sub-Himalayan West Bengal, coastal & south interior Karnataka 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 kutchra 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)



**WARNING**

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

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