



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

**Press Release
Date: 17th May, 2022
Time of Issue: 1315 hrs IST**

Subject:

- i) Advancement 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 days.**
- ii) Heavy to very heavy falls over Kerala, coastal & south interior Karnataka, Assam & Meghalaya and Arunachal Pradesh during next 3 days.**
- iii) A fresh spell of heat wave conditions likely over northwest & central India from 19th May, 2022.**

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 Bihar, Assam, South Interior Karnataka and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal, Arunachal Pradesh, Tripura, Tamilnadu, Rayalaseema, Coastal & North Interior Karnataka, Kerala and Lakshadweep. **(for rainfall amount refer Annexure I)**
- **Heat Wave conditions** prevailed in isolated pockets over Punjab, Himachal Pradesh, South Uttar Pradesh, Bihar, Vidarbha and Northeast Madhya Pradesh.

(i) Advancement of Southwest Monsoon (Annexure II)

- The Northern Limit of Southwest Monsoon continues to pass 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 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 3 days.
 - ✓ **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;**
 - ✓ 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 on 17th & 18th May.
 - ✓ Widespread light/moderate rainfall with isolated **heavy falls** very likely over Mizoram & Tripura on 17th & 18th May.

- ✓ Isolated to scattered light rainfall with isolated **thunderstorm/lightning/gusty winds** likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha during next 4 days.
- **A cyclonic circulation lies over Kerala & neighbourhood in lower & middle tropospheric levels and a north-south trough runs from west Vidarbha to north Kerala 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, Tamilnadu, Coastal & South Interior Karnataka during next 3 days and isolated heavy for subsequent 2 days.
 - ✓ Isolated **heavy rainfall** also very likely over Rayalaseema during 17th to 19th May and over Lakshadweep area on 17th & 18th May.
- **Under the influence of a Western Disturbance over central Pakistan & adjoining West Rajasthan:**
 - ✓ Scattered to fairly widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds & hailstorm** very likely over Jammu-Kashmir, Himachal Pradesh and Uttarakhand on 17th May.
 - ✓ Isolated light rainfall with **thunderstorm/lightning/gusty winds** very likely over Punjab, Haryana and West Uttar Pradesh on 17th May.
 - ✓ **Duststorm/Thunderstorm** at isolated places very likely over Punjab, Haryana and West Rajasthan on 17th May.
- **Under the influence of a fresh Western Disturbance affecting Western Himalayan region from 19th May:**
 - ✓ Scattered to fairly widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds & hailstorm** very likely over Jammu-Kashmir during 19th-21st and over Himachal Pradesh & Uttarakhand on 20th & 21st May.
 - ✓ Isolated light rainfall with **thunderstorm/lightning/gusty winds** very likely over Punjab, Haryana and Uttar Pradesh on 20th & 21st May.
 - ✓ **Duststorm/Thunderstorm** at isolated places very likely over Punjab, Haryana and West Rajasthan on 20th & 21st 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 India during next 24 hours; rise by 2-3°C during subsequent 2 days and fall by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over many parts of Central India during next 48 hours and rise by about 2°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
 - ✓ southwest Uttar Pradesh during 17th to 19th;
 - ✓ Bihar, Himachal Pradesh, Jammu division and north Madhya Maharashtra on 17th;
 - ✓ north Madhya Pradesh and Vidarbha on 17th, 20th & 21st;
 - ✓ south Punjab and south Haryana on 19th & 20th;
 - ✓ West Rajasthan during 18th to 21st and over East Rajasthan on 20th & 21st May, 2022.

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: Cherrapunji-37, Mawsynram-32, Mawkyrwat-22, Williamnagar-16, A P ghat-14, Jowai, B P ghat, Gosaigaon-13 each, Silchar, Goalpara-12 each, Baksa, Lakhimpur, Bahalpur, Haflong, Matunga, majbat-9 each, Manash, Tura, Dhemaji-8 each, Dhubri, Kokrajhar-7 each

South Interior Karnataka: Narasipur-12, Naganahalli-11, Bangluru-8, Yagati, Krishnarajasagara, Srirangapatna, Katikere-8 each, Honnur-7

Bihar: Kadwa-12, Dhengraghat-10, Purnea-9

Arunachal Pradesh: Naharlagun-11, Itanagar-8, Pasighat-7

Sub-Himalayan West Bengal: Barobhisha-11; Cooch behar-9, Chepan-8, Alipurduar-7

Kerala: Kodungallur-11, Piravom-8, Vadakkancherry-7

Coastal Karnataka: Mudubidre, Bantwal-11 each, Mangluru-9, Karkala-8, Manki, Yellapur-7 each

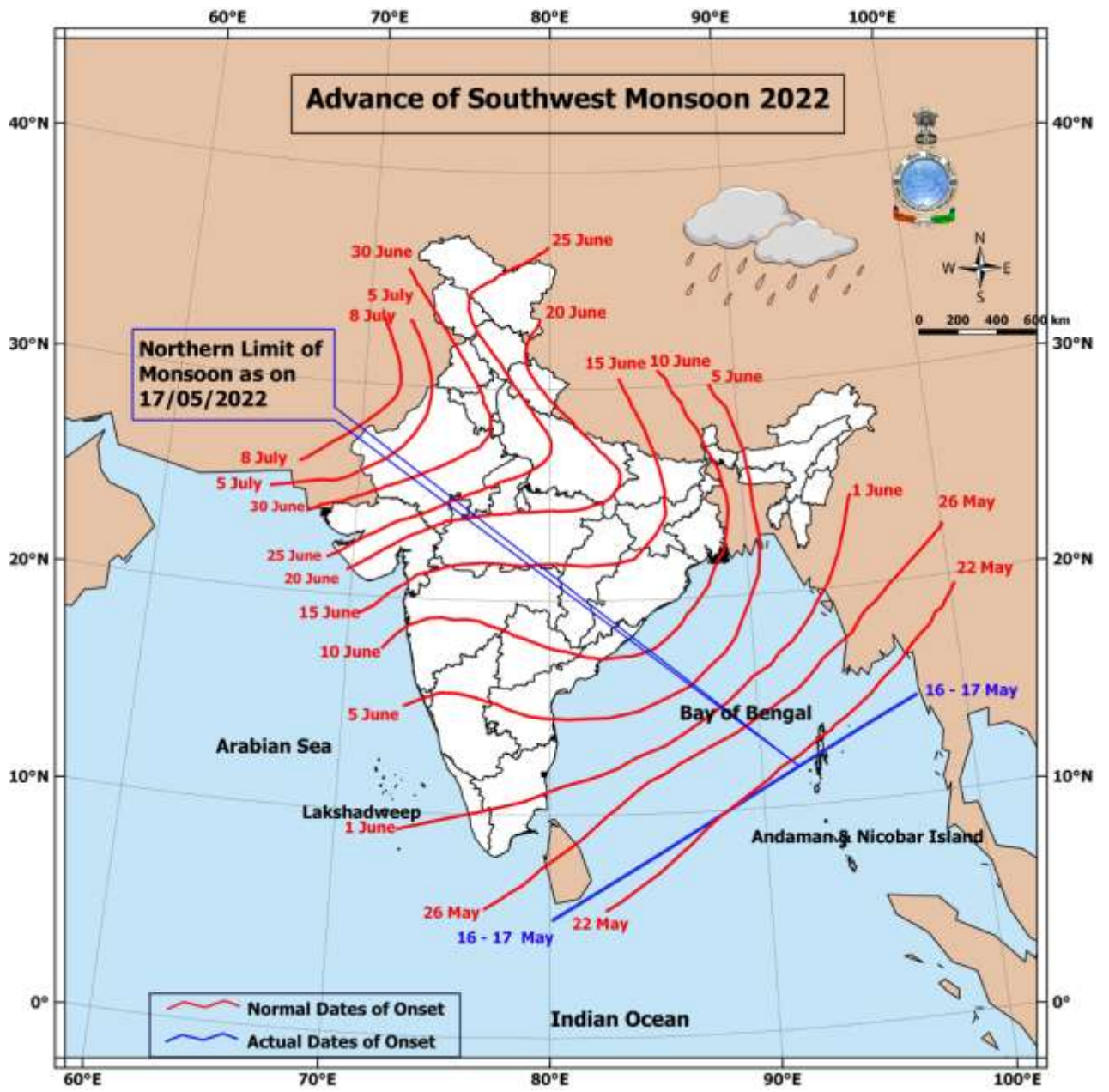
North Interior Karnataka: Haveri: Kelvarkop-8

Tamilnadu: Nilgiris-10, Krishnagiri-8, Shoolagiri-7

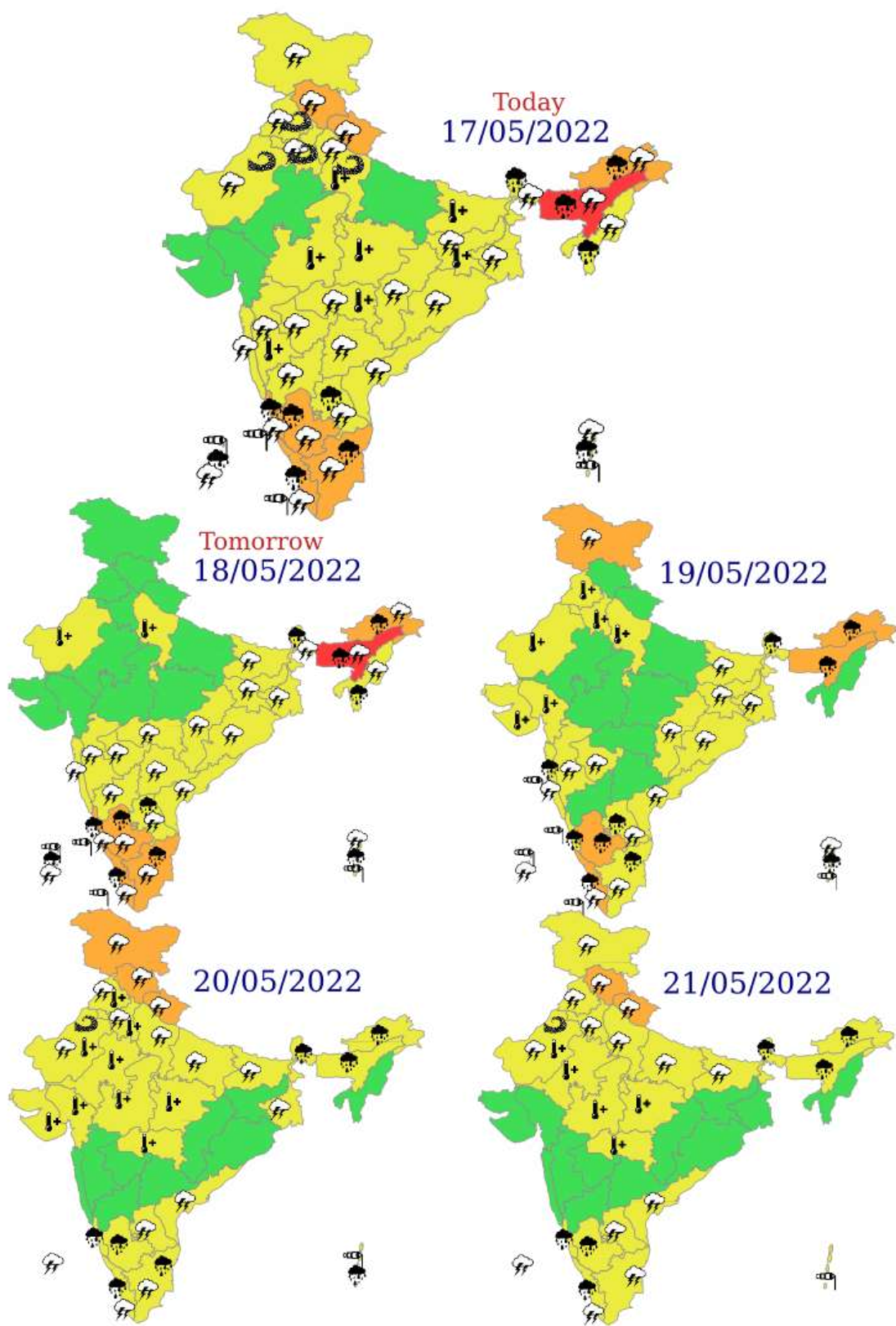
Lakshadweep: Minicoy-8, Amini-7

Rayalaseema: YSR district: Badvel, Duvvur-7 each, Chittoor: Kuppam-7

Tripura: Tamenglongi-9, Tenig-7



Advance of Southwest Monsoon 2022



EXPECTED IMPACT & ACTION SUGGESTED due to heavy to very heavy/extremely heavy rainfall over Assam-Meghalaya, Arunachal Pradesh, 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 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.

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)



Heavy Rain



Strong Winds



Thunderstorm with Lightning



Heat Wave

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