



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

**Press Release
Date: 19th May, 2022
Time of Issue: 1400 hrs IST**

Subject:

- i) Wet spell over Northwest India during 22nd to 24th May, 2022.**
- ii) Substantial reduction in rainfall intensity over Northeast India from 22nd and over South Peninsular India from 21st May, 2022.**
- iii) A brief fresh spell of heat wave conditions likely over Northwest & Central India during 19th to 20th May and abatement thereafter.**
- iv) Advancement of Southwest Monsoon into some more parts of South & Central Bay of Bengal and some parts of South Arabian Sea likely during next 2 days.**

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 Coastal & North Interior Karnataka, Kerala, Rayalaseema, Andaman-Nicobar Islands and Assam and **heavy rainfall** at isolated places over Sub-Himalayan West Bengal, South Interior Karnataka Tamilnadu, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. **(for rainfall amount refer Annexure I)**

Rainfall/thunderstorm Forecast & Warnings:

i. Wet spell over Northwest India during 22nd to 24th May, 2022.

- A Western Disturbance as a cyclonic circulation lies over Afghanistan & neighbourhood in middle tropospheric levels. It is very likely to move eastwards to North Pakistan & neighbourhood during next 24 hours and persist over the region during subsequent 3-4 days. Under its influence:
 - ✓ Fairly widespread to widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds & hailstorm** very likely over Jammu-Kashmir, Himachal Pradesh & Uttarakhand during 21st to 24th May.
 - ✓ Isolated to scattered light rainfall with **thunderstorm/lightning/gusty winds** very likely over Punjab, Haryana, North Rajasthan and Uttar Pradesh during 20th-24th May with scattered to fairly widespread light rainfall over the region on 23rd May.
 - ✓ **Duststorm/Thunderstorm** at isolated places very likely over Uttar Pradesh on 20th and over Rajasthan on 21st & 22nd May.
 - ✓ **Strong Surface Winds** with wind speed reaching 25-35 kmph over Rajasthan on 20th & 21st and over Punjab, Haryana & Uttar Pradesh on 22nd & 23rd May.

- ii) A cyclonic circulation lies over north interior Tamilnadu & neighbourhood in middle & upper tropospheric levels. It is likely to persist over the region during next 2 days and become less marked thereafter. A north-south trough runs from central Madhya Pradesh to interior Tamilnadu in lower tropospheric levels. Under the influence of these systems:**
- ✓ Widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** very likely over Kerala-Mahe and Karnataka with isolated **extremely heavy falls over Coastal &**

South Interior Karnataka today and isolated **heavy rainfall** on 20th May. **Heavy to very heavy rainfall** at isolated places likely over Kerala-Mahe 19th & 20th and isolated **heavy rainfall** thereafter.

- ✓ Scattered to fairly widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** and isolated **heavy falls** very likely over Tamilnadu & Rayalaseema on 19th.
- ✓ Substantial reduction in rainfall activity over South Peninsular India from 21st May onwards.

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 on 19th-21st; over Assam-Meghalaya and Sub-Himalayan West Bengal & Sikkim during 19th-22nd May. Isolated **extremely heavy falls** very likely over Meghalaya on 19th & 21nd May.
- ✓ Substantial reduction in rainfall activity over Northeast India from 22nd May onwards.
- ✓ Isolated to scattered light rainfall with isolated **thunderstorm/lightning/gusty winds** likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha during next 5 days.

(iii) Heat wave spells over Northwest & Central India

Maximum Temperature forecast:

- ✓ No significant change in maximum temperatures during next 2 days over Northwest, Central India and Gujarat State 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 many places with **severe heat wave** conditions in isolated pockets over West Rajasthan on 20th with heat wave conditions in some parts on 19th May.
- ✓ **Heat wave** conditions in isolated pockets very likely over East Rajasthan, Madhya Pradesh, Uttar Pradesh, south Punjab and south Haryana on 19th & 20th May; 2022.

(iv) Advancement of Southwest Monsoon (Annexure II)

- The Northern Limit of Southwest Monsoon continues to pass through 5°N/80°E, 8°N/85°E, 12.5°N/90°E and 16.0°N/94.5°E.
- Conditions are 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 days.
- **Due to strong cross equatorial flow from Bay of Bengal to Andaman Sea in lower tropospheric levels;**
 - ✓ Widespread rainfall with isolated **heavy falls & thunderstorm/lightning/gusty winds** very likely over Andaman & Nicobar Islands during next 5 days. Isolated **heavy to very heavy rainfall** over the region during next 24 hours.
- A cyclonic circulation lies over Gulf of Martaban & adjoining Myanmar extending upto middle-tropospheric levels. Under its influence, a Low Pressure Area is likely to form over the same region during next 24 hours. Under its influence;
 - ✓ **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

Chief amount of rainfall (in cm):

Assam-Meghalaya: Sohra-26, Mawsynram-13, Karimganj-11, Dhubri & Dhekiajuli -10 each, Dhemaji, Williamnagar & Lakhipur-8 each, Mahbat-7;

Coastal Karnataka: Dakshin Kannada: Subramanya-16, Sulya-10, Mangaluru-7; **Udupi:** Karkala-7;

North Interior Karnataka: Haveri: Kelvarkop-17, Haveri-7; **Koppal:** Bevoor, Yelburga & Munirabad-10 each, Tavaragera-9, Kushtagi & Koppal-8 each; **Raichur:** Maski-9;

Kerala-Mahe: Ernakulam: Alwaye-15, Palluruthy, Neeleswaram & Perumpavur-14 each, North Paravur-13, Kochi & Piravam-12 each, Muvattupuzha-9; **Thrissur:** Kodungallur-16, Peringalkuthu-14, Chalakudi & Chimoni-13 each, Vyanthala-10; **Kottayam:** Vaikom-11, Kozha & Kumaram-7 each;

Kasargod: Vellarikkundu & Hosdurg-9 each;

Rayalaseema: Kurnool: Holagunda-12, Dhone, Gonegandla-7 each; **Anantapuramu:** Madakasira-9, Uravakonda-8, Hindpur, Kunurpi & Rolla-7 each;

Tamilnadu: Coimbatore: Valparai-9, Sholayar-8; Kanyakumari: Perunchani-7; **Vellore:** Virinjipuram-14; **Salem:** Sankaridurg-13, Edapadi-7;

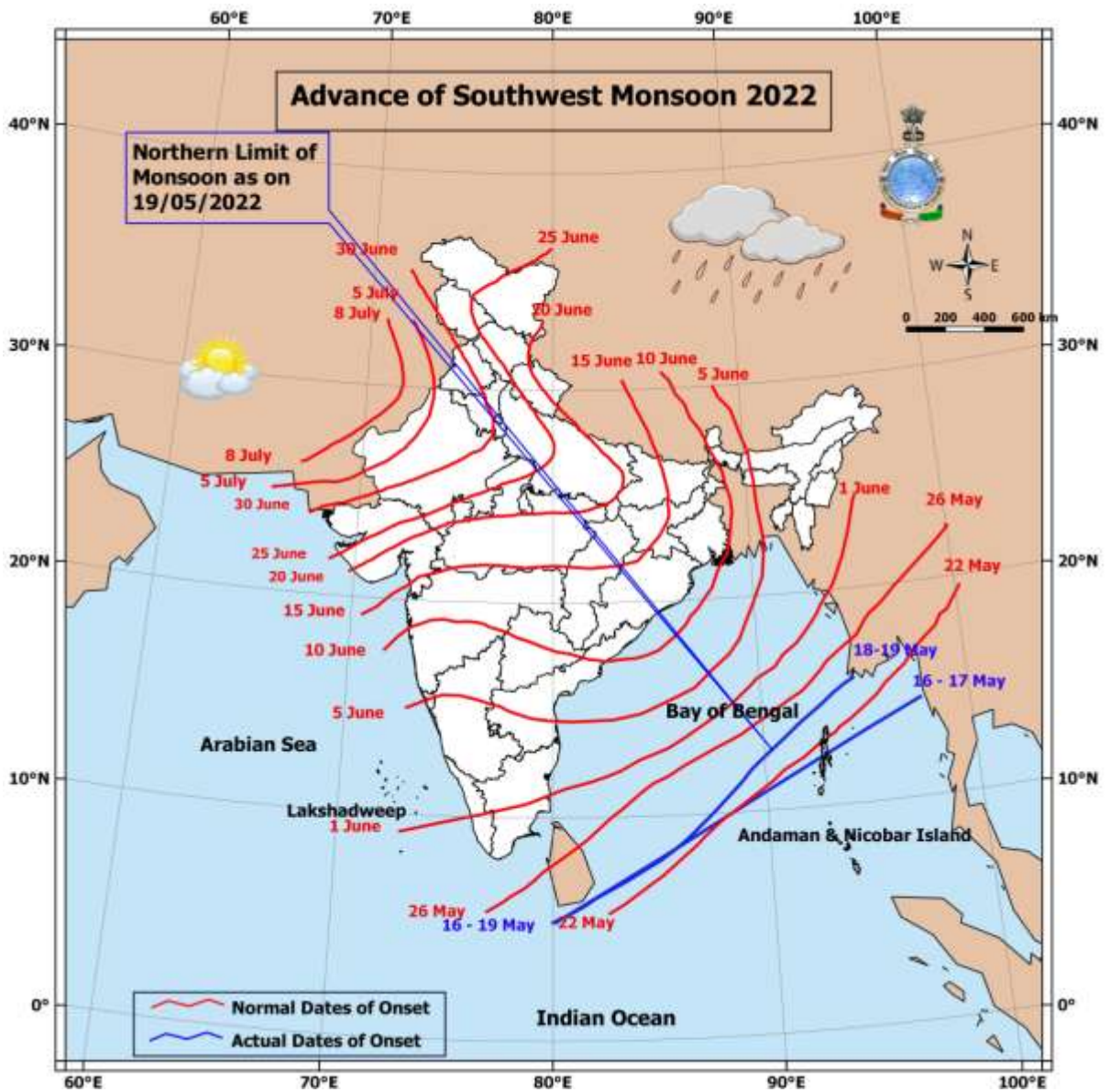
Andaman & Nicobar Islands: North & Middle Andaman: Long Island-14; **South Andaman:** Hut Bay-11;

Sub-Himalayan West Bengal & Sikkim: East Sikkim: Pakyong-8; **Darjeeling:** Rongo-7;

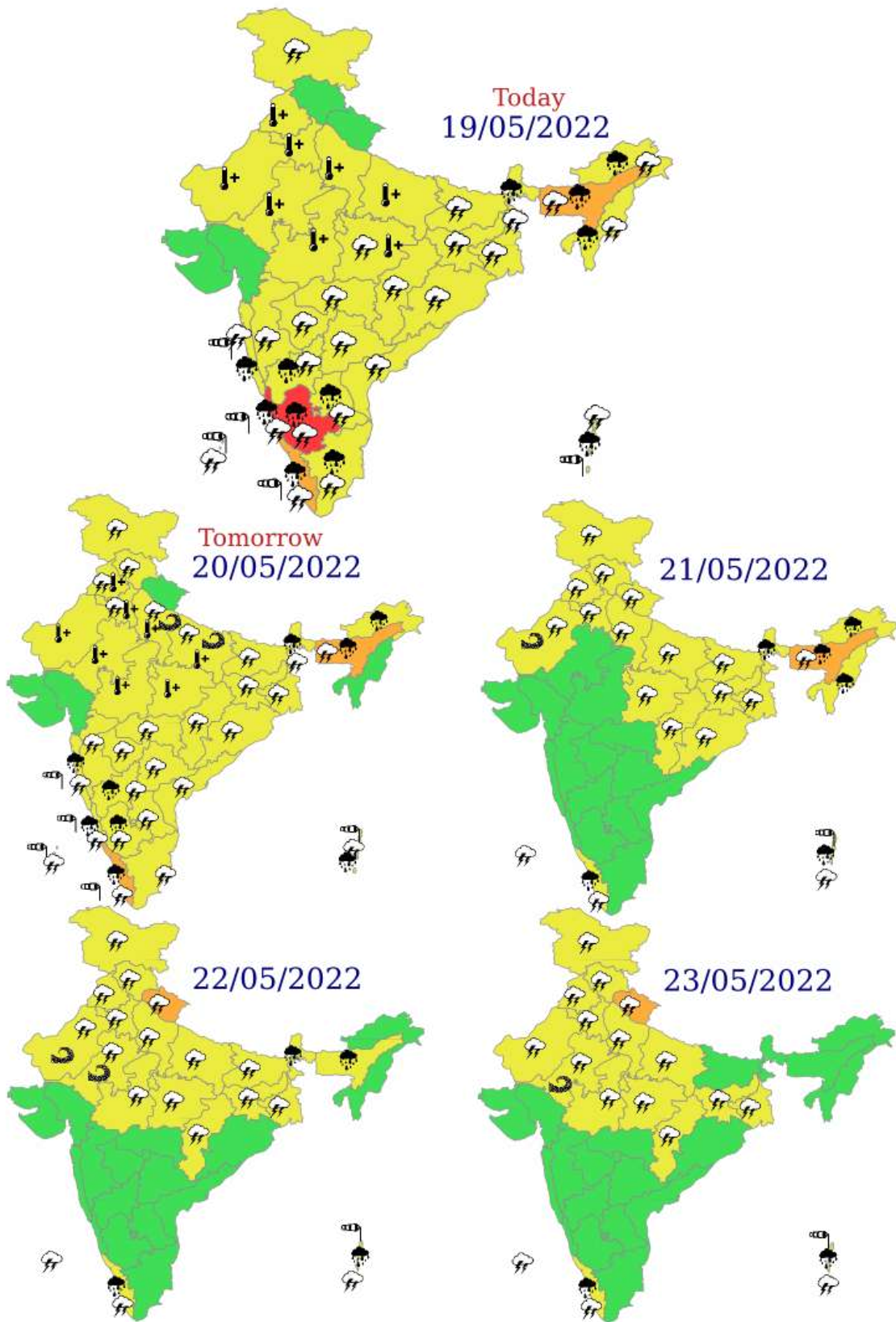
South Interior Karnataka: Ballari: Kurugodu-9, Sandur-7, **Chikaballapura:** Thondebhavi-9, Gowribidanur-8; **Chitradurga:** Chitradurga-9, **Davangere:** Uchangidurga-12; Davangere-9, **Kodagu:** Suntikoppa -11, Sampaje-10, Somwarpet-8; **Mandya:** Mandya-11, **Mysuru:** Bherya-8; **Shivamogga:** Nidige-12, Bhadravati-9; **Tumakuru:** Madhugiri-8;

Arunachal Pradesh: Pashighat-10;

Nagaland-Manipur-Mizoram-Tripura: Tamenglong, Dharamnagar, Kanchanpur & Peren-7 each,



Advance of Southwest Monsoon 2022



EXPECTED IMPACT & ACTION SUGGESTED due to heavy to very heavy/extremely heavy rainfall over Karnataka during 19th & 20th and over Assam-Meghalaya, Sub-Himalayan West Bengal, Andaman & Nicobar Islands and Kerala-Mahe during next 4 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

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