



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 20th May, 2022
Time of Issue: 1400 hrs IST

Subject:

- i) Depression over Gulf of Martaban and adjoining Myanmar, likely to move northeastwards and cross south Myanmar coast around Mawlamyine by evening of today, the 20th May, 2022
- ii) Wet spell over Northwest & East India during 20th to 24th May, 2022. Enhancement in thunderstorm activity over the region during 22nd to 24th May.
- iii) Substantial reduction in rainfall intensity over South Peninsular India from 21st May and over Northeast India from 22nd May.
- iv) Abatement of heat wave conditions over the Indian region from 21st May, 2022.

Weather observed during past 24 hours:

- Isolated **heavy to very heavy rainfall** occurred over Karnataka and Tripura and **heavy rainfall** at isolated places over Konkan-Goa, Madhya Maharashtra, Andaman-Nicobar Islands, Assam-Meghalaya. (for rainfall amount refer Annexure I)
- **Thundersquall** reported at isolated places over Bihar, Sub-Himalayan West Bengal, Tripura, Andaman-Nicobar Islands.

Rainfall/thunderstorm Forecast & Warnings:

- i. **Wet spell over Northwest & East India during 20th to 24th May, 2022. Enhancement in thunderstorm activity over the region during 22nd to 24th May.**
 - A Western Disturbance as a cyclonic circulation lies over northeast Afghanistan & neighbourhood with a trough aloft in middle tropospheric levels.
 - Another Western Disturbance likely to affect Northwest India from 22nd May.
 - The east-west trough is likely to reappear in the lower levels across north India.Under their influence:
 - ✓ Scattered to fairly widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** very likely over Western Himalayan Region during next 5 days. **Isolated hailstorm** also likely over Himachal Pradesh during 20th-23rd & **over Uttarakhand during 21st- 24th May.**
 - ✓ Isolated to scattered light rainfall with **thunderstorm/lightning/gusty winds** very likely over plains of Northwest India during next 5 days. **Isolated** hailstorm also likely over Punjab, Haryana & West Uttar Pradesh on 23rd and over East Uttar Pradesh on 23rd & 24th May.
 - ✓ **Duststorm/Thunderstorm** at isolated places very likely over Uttar Pradesh on 21st and over West Rajasthan on 20th & 23rd and over East Rajasthan on 20th & 22nd May.
 - ✓ **Strong Surface Winds** with wind speed reaching 30-40 kmph over Rajasthan on 20th & 21st 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 4-5 days.
- ✓ Widespread light/moderate rainfall with isolated **heavy falls** very likely over Arunachal Pradesh on 20th-21st; over Assam-Meghalaya & Sub-Himalayan West Bengal & Sikkim during 20th-22nd May. Isolated **extremely heavy falls** very likely over Meghalaya on 21st May. **Significant reduction** in rainfall intensity over Northeast India from 22nd May.

ii) A cyclonic circulation lies over South Interior Karnataka & neighbourhood in middle & upper tropospheric levels. A north-south trough runs across Central & Peninsular India.

Under their influence:

- ✓ Widespread light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** very likely over Kerala-Mahe during next 5 days and over Karnataka during 20th-22nd with isolated **heavy to very heavy falls** over Coastal & South Interior Karnataka today and isolated **heavy rainfall** on 21st May. Isolated **heavy rainfall** over Kerala during 20th-22nd May.
- ✓ Isolated to scattered light/moderate rainfall with isolated **thunderstorm/lightning/gusty winds** over Tamilnadu, Andhra Pradesh and Telangana during next 5 days.
- ✓ **Significant reduction** in rainfall activity over South Peninsular India from 21st May.

(iii) Heat wave spells over Northwest & Central India

Maximum Temperature forecast:

- ✓ No significant change in maximum temperatures during next 24 hours over Northwest India and fall by 3-5°C thereafter.
- ✓ No significant change in maximum temperatures during next 48 hours over Central India and fall by 2-4°C thereafter.
- ✓ No significant change in maximum temperatures during next 24 hours over Gujarat State and fall 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 in many places with **severe heat wave** conditions in isolated pockets over West Rajasthan and heat wave conditions in some parts with **severe heat wave** conditions in isolated pockets over Rajasthan on 20th May.
- ✓ **Heat wave** conditions in isolated pockets very likely over south Uttar Pradesh, south Punjab & south Haryana on 20th and over Madhya Pradesh on 20th & 21st May 2022.
- ✓ **Abatement of heat wave conditions over the Indian region from 21st May, 2022.**

(iv) Advancement of Southwest Monsoon (Annexure II)

- Southwest Monsoon has further advanced into parts of south Arabian Sea, southern parts of Maldives, some more parts of south and Eastcentral Bay of Bengal. The Northern Limit of Southwest Monsoon now passes 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.
- **Strong cross equatorial flow from Bay of Bengal to Andaman Sea in lower tropospheric levels;**
- Latest observations indicate that a **depression** has formed over **Gulf of Martaban and adjoining Myanmar** and lay centered at 0830 hours IST of today, the 20th May, 2022 near latitude 16.2°N and longitude 97.3°E, about 40 km southwest of Mawlamyine (Myanmar), 140 km east-southeast of Yangon (Myanmar) and 700 km northeast of Port Blair (Andaman Islands). It is very likely to move

northeastwards and cross south Myanmar coast around Mawlamyine by evening of today, the 20th May, 2022. Under their influence;

- ✓ Widespread rainfall with isolated **heavy falls & thundersquall/lightning/gusty winds** very likely over Andaman & Nicobar Islands during next 5 days.
- ✓ **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely to prevail over Gulf of Martaban, adjoining North Andaman Sea and along & off South Myanmar coast during next 24 hours.
- ✓ **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph likely over north Andaman Sea and adjoining Southeast and Eastcentral Bay of Bengal during next 5 days.
- ✓ Fishermen are advised not to venture into Gulf of Martaban, adjoining North Andaman Sea Andaman and along & off South Myanmar coast during next 24 hours.

For more details refer: https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php

Annexure I

Chief amount of rainfall (in cm):

Tripura

West Tripura - A.D.Nagar-19, Lembucherra, Teliamura-7 each; South Tripura –Amarpur- 8

Coastal Karnataka: Udupi: Kollur- 18, Kundapur-11, Udupi, Kota-8 each, Siddapura-7

North Interior Karnataka: Belagavi: Hukkeri-12, Sedbal-11, Yadgir: Shorapur-11, Gadag: Bellatti -10, Bagalkote: Rabkavi-10

South Interior Karnataka: Shivamoga: Shivamoga-12, Hunchadakatte -10, Tyagarthi -9, Davangere: Davangere-8

Assam

Barpeta- Barpeta-8, Manas NH Xing-7; Kokrajhar- Gossaigaon-9, Kokrajhar-7, Barpeta - Beki rd. bridge-7,Dhubri- Bilasipara-7

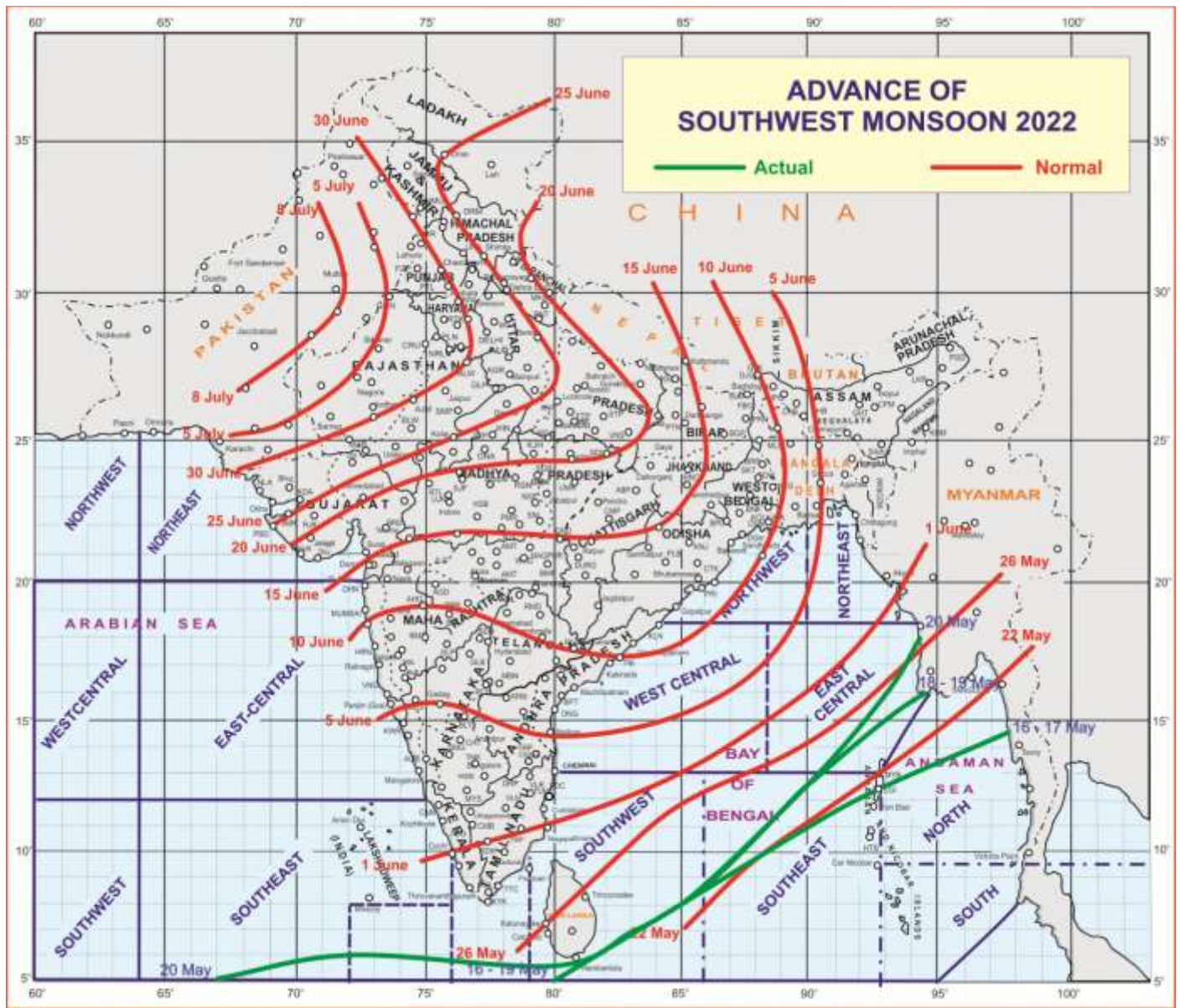
Meghalaya

East Garo Hills- Williamnagar-8; East Khasi Hills-Sohra-9; West Jantia Hills –Anlarem- 9

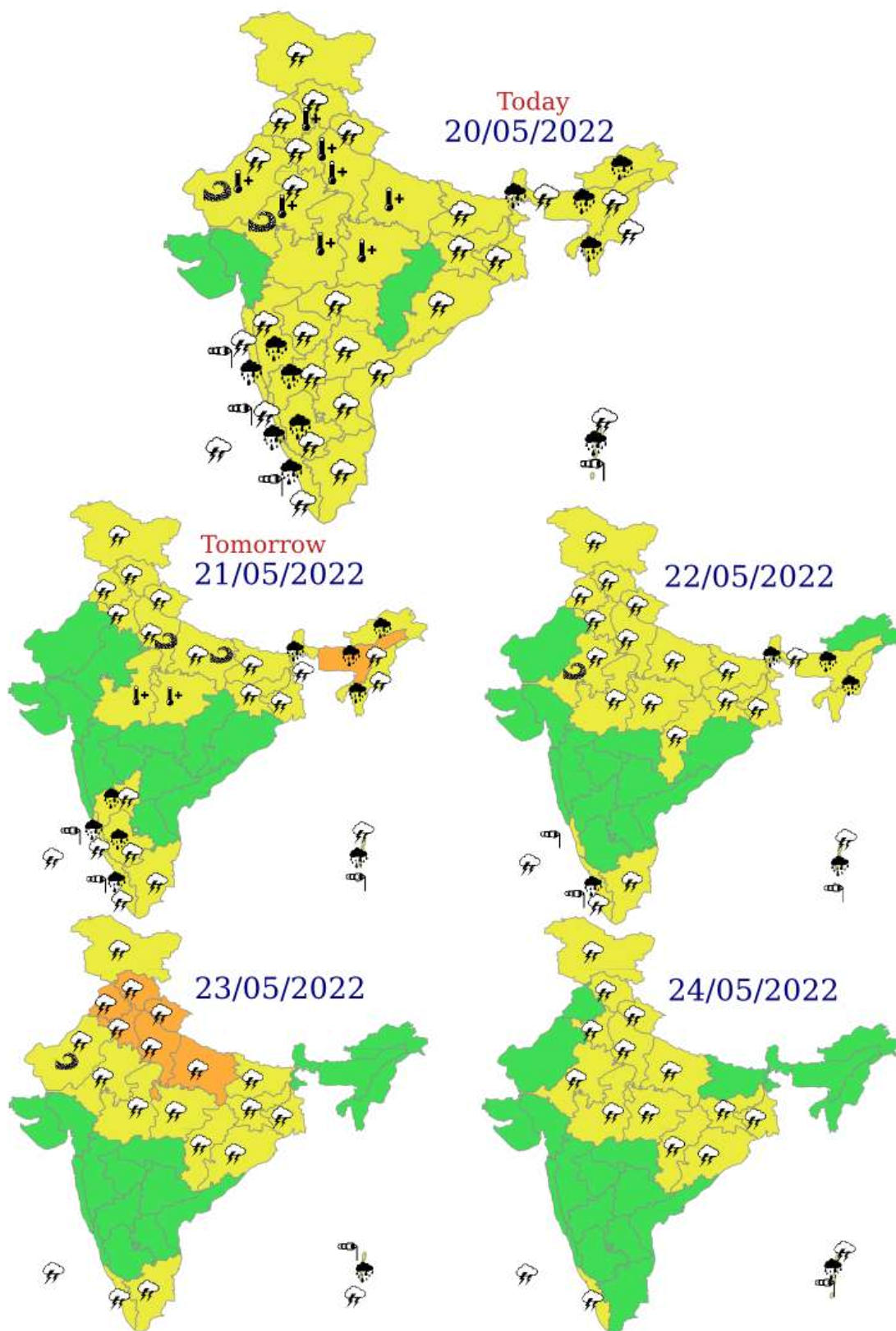
Andaman & Nicobar Islands: Long Island-11, Mayabunder-10

Konkan & Goa: North Goa: Valpoi, Pernem-7 each, South Goa: Sanguem-7

Madhya Maharashtra: Kolhapur: Ajra 7



Advance of Southwest Monsoon 2022



EXPECTED IMPACT & ACTION SUGGESTED due to heavy to very heavy/extremely heavy rainfall over Coastal & South Interior Karnataka on 20th and over Meghalaya on 21st May.

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