



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

**Press Release
Date: 02nd June, 2022
Time of Issue: 1300 hrs IST**

Subject: i) Advancement of Southwest monsoon.

ii) Intense spell of rainfall over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 5 days.

iii) Heat Wave Conditions in isolated pockets over Northwest & Central India during next 3 days.

Weather observed during past 24 hours ending at 0830 hrs IST of today:

- Isolated **heavy to very heavy rainfall** occurred over Meghalaya and **heavy rainfall** over Assam and Sub-Himalayan West Bengal & Sikkim. (Annexure-II).

Advancement of Southwest Monsoon:

- Southwest Monsoon has further advanced into some parts of northwest Bay of Bengal, some more parts of northeast & eastcentral Bay of Bengal and most parts of Mizoram, Manipur & Nagaland. The Northern Limit of Monsoon (NLM) now passes through Lat. 15°N/Long.60°E, Lat.15°N/Long.70°E, Karwar, Chikmagaluru, Bengaluru, Dharmapuri, Lat.10°N/ Long. 80°E, Lat. 11.0°N/ Long. 83°E, Lat.14.0°N/ Long.86°E, Lat.21.0°N/91°E, Aizwal, Kohima and 26.50°N/95°E.
- Conditions are favourable for further advance of Southwest monsoon into some more parts of Central & North Bay of Bengal, remaining parts of northeastern states and some parts of Sub-Himalayan West Bengal & Sikkim during next 2 days. (Annexure-I)

Rainfall/thunderstorm Forecast & Warnings:

- Due to cyclonic circulation over Northwest Bay of Bengal in mid-tropospheric levels; the east-west trough from the cyclonic over Southeast Uttar Pradesh to Nagaland, north-south trough roughly along Long.88°E & to north of Lat.20°N and strong southwesterly winds from Bay of Bengal to Northeast India at lower tropospheric levels:
 - ✓ Fairly widespread/ widespread light/moderate rainfall with isolated **heavy falls** very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 5 days.
 - ✓ Isolated **heavy to very heavy rainfall** very likely over Assam & Meghalaya during 02nd-04th and over Sub-Himalayan West Bengal & Sikkim during 03rd-06th June. Isolated **extremely heavy falls** also likely over Meghalaya on 02nd & 03rd June.
 - ✓ Isolated/scattered rainfall with **thunderstorm/lightning/gusty winds** very likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal next 5 days.
- Under the influence of monsoonal westerly winds from Arabian Sea over the south peninsular India and shear zone runs along Lat.10° N across South Peninsular India in lower tropospheric levels:

- ✓ Fairly widespread/ widespread light/moderate rainfall with **thunderstorm/lightning** very likely over Coastal Karnataka, South Interior Karnataka, Kerala & Mahe and Lakshadweep and isolated to scattered over Andhra Pradesh, Telangana, North Interior Karnataka & Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated **heavy rainfall** also likely over Tamilnadu & South Interior Karnataka during 02nd-04th and over Kerala & Mahe on 02nd, 03rd & 05th & 06th June, 2022.
- ✓ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southeast Arabian Sea, Lakshadweep area, off Kerala coast on 02nd; southeast Bay of Bengal and adjoining Andaman Sea on 02nd & 03rd; southeast Bay of Bengal on 04th; southwest Bay of Bengal and adjoining westcentral Bay of Bengal on 06th; June, 2022. **Strong Winds** (wind speed 40-50 kmph gusting to 60 kmph) over southwest Arabian Sea, Comorin area, gulf of Mannar, south Tamil Nadu coast and south Andaman sea on 02nd & 03rd; southwest Arabian Sea during next 5 days. Fishermen are advised not to venture into these areas.

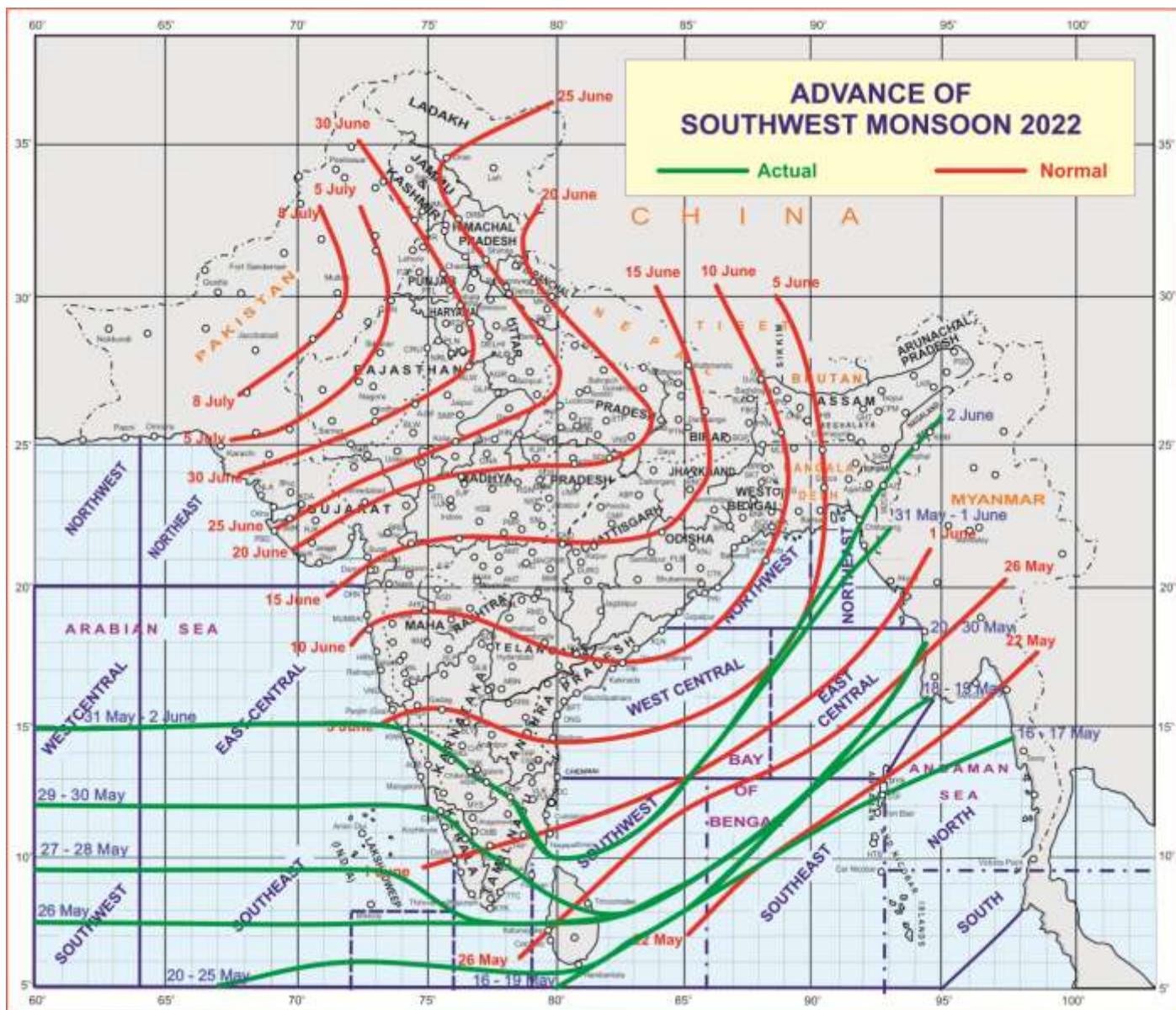
Maximum Temperature forecast and Heat wave warnings:

- ✓ Gradual rise in maximum temperatures by about 2°C very likely over most parts of Northwest India during next 2 days and thereafter fall by 2-3°C.
- ✓ 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 isolated places very likely over Rajasthan on 2nd & 03rd; over south Punjab, south Haryana, south Uttar Pradesh & north Madhya Pradesh on 03rd & 04th and over Vidarbha during 02nd-05th June, 2022.

Multi-hazard warning is given in annexure-III.



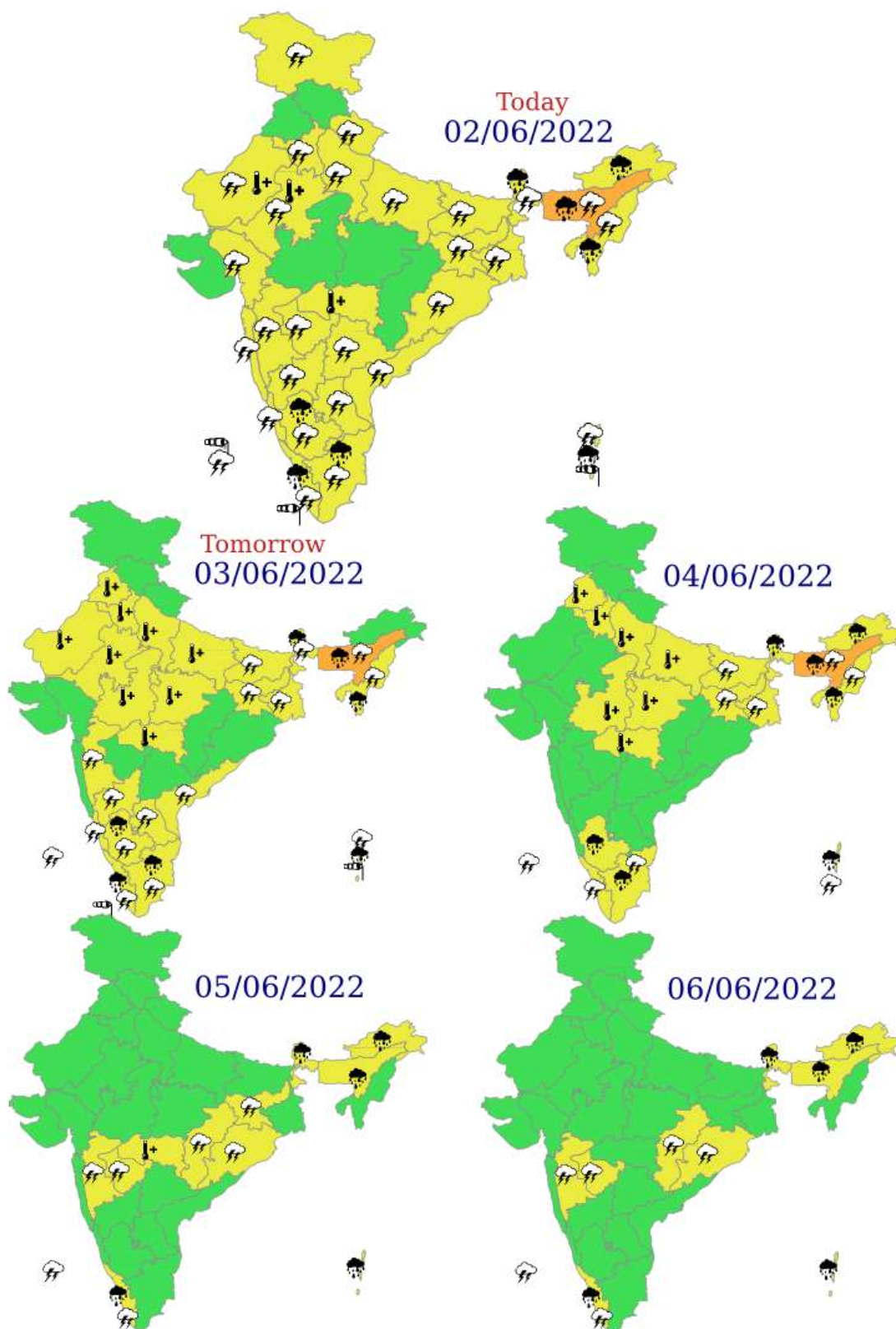
MEGHALAYA: South Garo Hills-RONGARA =12; East Jaintia Hills-KHLIEHRIAT= 9; West Jaintia Hills-ANLAREM(ARG) =9; South west Khasi Hills-MAWKYRWAT(ARG)= 8; East Khasi Hills- SOHRA(ARG)= 7;

ASSAM: Cachar- LAKHIPUR & LAKHIPUR(ARG)= 7 each; Baksa- MUSHALPUR(AWS)=7;

MADHYA MAHARASHTRA: Ahmednagar: Akole-5, Shirampur-2;

COASTAL KARNATAKA: Dakshina Kannada; Mani-3, Uttara Kannada: Shirali Pto-3, Udupi: Udupi-2,

TAMILNADU: Kanyakumari: Kuzhithurai-5, Kalial-3; Dindigul: Kodaikanal Boat Club-4, Nilgiris: Udagai-4, Ketti-3; Tirupattur: Ambur-3,



EXPECTED IMPACT & ACTION SUGGESTED due to very heavy/extremely heavy Rainfall over Assam & Meghalaya during 02nd-04th June, 2022.

A. 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)

B. 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