Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 16th April, 2022
Time of Issue: 1300 hrs IST

Subject:

i) A fresh heat wave spell likely to commence over Northwest India from today, 16th April and spread to Central India from tomorrow, 17th April, 2022.
ii) Reduction in rainfall intensity over South Peninsular India from 18th April, 2022.
iii) Heavy to very heavy rainfall spell likely to continue over Assam-Meghalaya and Arunachal Pradesh on 16th & 17th April, 2022.

Weather observed during past 24 hours:

- ✓ **Heat wave conditions** prevailed in isolated pockets of Himachal Pradesh, Bihar and Gangetic West Bengal.
- ✓ **Maximum Temperatures** (as on 15/04/2022) were **40-42°C** in most parts over Rajasthan, Haryana, East Uttar Pradesh, Madhya Pradesh, Bihar, Vidarbha & interior Odisha; in many parts over Gujarat Region, Madhya Maharashtra & Rayalaseema; in some parts over Saurashtra-Kutch, West Uttar Pradesh and in isolated pockets over Punjab, Chhattisgarh, northern parts of Andhra Pradesh and Marathwada.
- ✓ The maximum temperatures departure were **above normal by 3-5°C** at a few places over Himachal Pradesh, West Rajasthan, Gangetic West Bengal and at isolated places over Bihar, Jharkhand and Konkan-Goa**.**

✓ **Chief amount of rainfall (in cm):** **Assam-Meghalaya:** Khliehriat-12; Jowai, Haflong and Cherrapunji-9 each; Melabazar-8; Goibargaon-7; Tamulpur and Tamenglongi-6 each; **Arunachal Pradesh:** Upper Siang-9; **Kerala:** Palakkad-5; **Tamilnadu:** Theni-7.

✓ **Maximum Temperature forecast and Heat Wave warning:**

- ✓ No significant change in maximum temperatures very likely over Northwest India during next 24 hours and rise by 2-3ºC during subsequent 3 days and fall thereafter.
- ✓ Gradual rise in maximum temperatures by 2-3ºC very likely over Central India during next 5 days.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country.
- ✓ **Heat wave conditions** in isolated pockets very likely to prevail over Punjab, Haryana-Chandigarh-Delhi & Rajasthan on 16th & 17th and increase to **heat wave to severe heat wave conditions** in isolated pockets over the same region on 18th & 19th April, 2022.
- ✓ **Heat wave conditions** in isolated pockets also likely to prevail over Himachal Pradesh & Jammu Division during 16th-18th; over Uttar Pradesh & Vidarbha during 18th-20th and over

Gangetic West Bengal on 16th & 17th and over Bihar, Jharkhand & Sub-Himalayan West Bengal-Sikkim on 16th April, 2022.

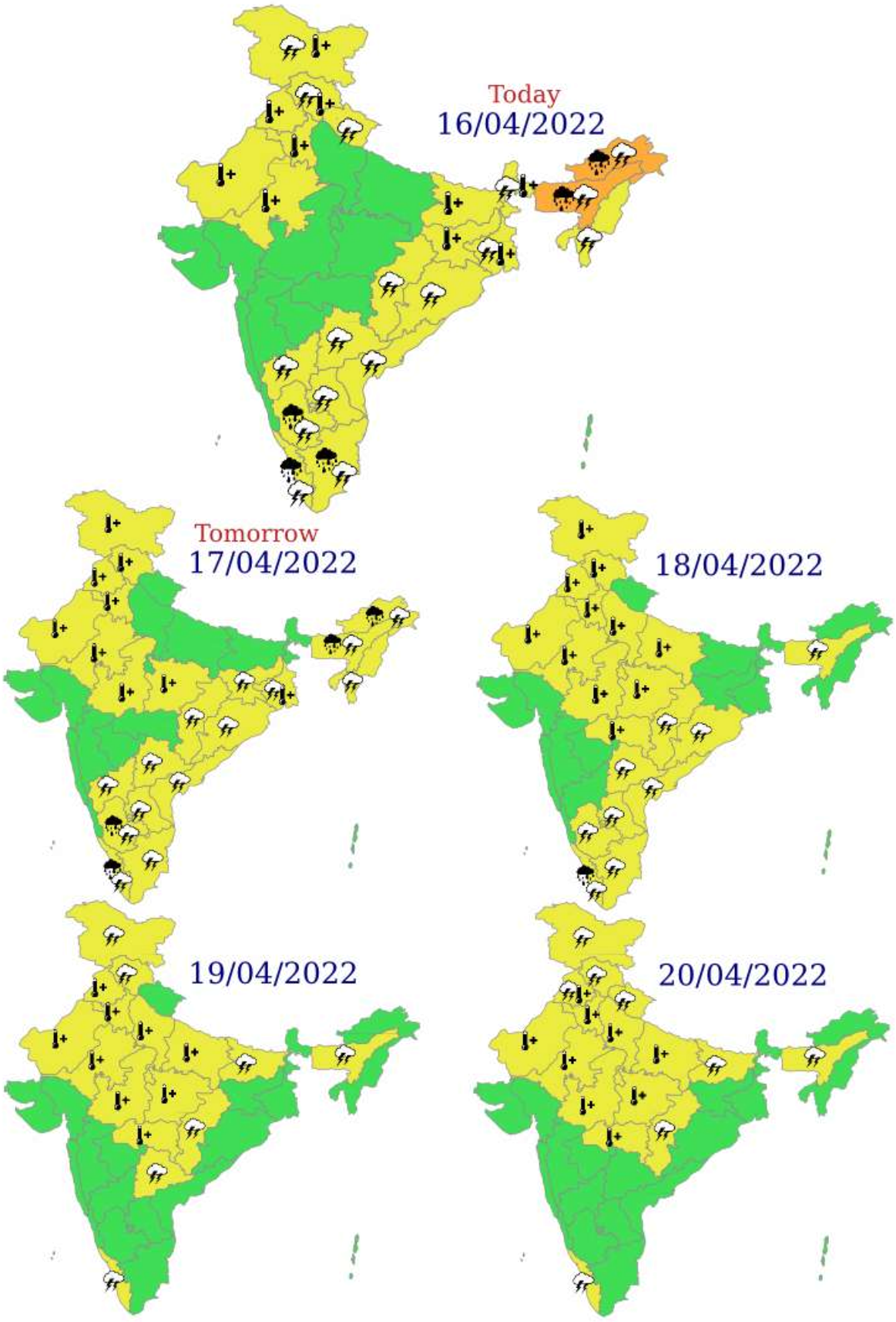
- ✓ **Heat wave conditions** in isolated pockets very likely to prevail over Madhya Pradesh on 17th & 18th and increase spatially to some parts over the same region on 19th & 20th April, 2022.

Rainfall/thunderstorm Forecast & Warnings:

- ✓ Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels:
  - ❖ Fairly widespread/widespread rainfall accompanied with **thunderstorm/lightning** very likely over Arunachal Pradesh, Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura during next 5 days.
- ✓ **Isolated heavy to very heavy rainfall** likely over Arunachal Pradesh & Assam-Meghalaya on 16th April and isolated **heavy rainfall** also likely over the same region on 17th April, 2022.

- ✓ Under the influence of trough/wind discontinuity in lower tropospheric levels from Chhattisgarh to South Interior Karnataka:
  - ❖ Scattered to fairly widespread rainfall accompanied with **thunderstorm/lightning** very likely over Kerala-Mahe & Karnataka during next 5 days and isolated to scattered rainfall accompanied with **thunderstorm/lightning** over Tamilnadu-Puducherry-Karaikal, Andhra Pradesh and Telangana during next 5 days.
  - ❖ Isolated **heavy rainfall** very likely over Tamil Nadu on 16th; over South Interior Karnataka on 16th &17th; over Kerala-Mahe during 16th-18th April, 2022.
  - ❖ A fresh Western Disturbance likely to affect Northwest India from the night of 18th April, 2022. Under its influence, light isolated to scattered rainfall accompanied with isolated **thunderstorm/lightning** very likely over Western Himalayan Region on 19th & 20th and over Punjab on 20th April, 2022.

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


Today
16/04/2022
Tomorrow
17/04/2022
18/04/2022
19/04/2022
20/04/2022

Impact expected and action suggested due to severe heat wave conditions over Rajasthan, Punjab & Haryana-Chandigarh-Delhi on 18th & 19th April, 2022.

Impact expected:

- Heat wave could lead to moderate health concern for vulnerable people e.g. infants, elderly, people with chronic diseases
- Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.

Action suggested:

- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Avoid heat exposure, wear lightweight, light-colored, loose, cotton clothes and cover the head by use of cloth, hat or umbrella etc.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Impact expected and action suggested due to Heavy to Very Heavy Rainfall over Arunachal Pradesh and Assam-Meghalaya 16th April, 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 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)

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 Widespred (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