Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 19th April, 2022
Time of Issue: 1330 hrs IST

Subject:

i) Heat wave spell in isolated pockets likely over parts of Northwest, Central & East India today, 19th April and likely to further abate thereafter.

ii) Thunderstorm accompanied by lightning/gusty winds very likely to continue over Western Himalayan Region & adjoining plains today the 19th April, 2022 and likely to expand towards central & east India from tomorrow onwards till 21st April.

iii) Heavy rainfall spell likely to continue over Assam-Meghalaya during next 5 days.

Weather observed during past 24 hours:

- ✓ **Severe Heat wave conditions** prevailed in isolated pockets over northwest Rajasthan and Himachal Pradesh and **Heat wave conditions** in some parts of Punjab, Jharkhand and Delhi and in isolated pockets of Haryana, Uttar Pradesh, Bihar, Gangetic West Bengal and West Madhya Pradesh.
- ✓ **Maximum Temperatures** (as on 18/04/2022) were **42-44°C** in most parts over West Rajasthan, Vidarbha, East Uttar Pradesh, East Madhya Pradesh; in some parts over West Madhya Pradesh, Haryana-Delhi & Bihar; in isolated pockets over Saurashtra-Kutch, Jharkhand, Gangetic West Bengal and **40-42°C** in many parts of East Rajasthan, West Uttar Pradesh, Punjab, interior Odisha, Telangana & Marathawada and in isolated pockets over Chhattisgarh & Gujarat Region.
- ✓ **Chief amount of rainfall (in cm): Tamilnadu:** Tirunelveli: Radhapuram -6, Coimbatore: Valprai-4, Dindigul: Nilakottai-5**; Kerala-Mahe:** Kollam**-** Aryankavu-5, Thrissur: Enamackel-5, Ernakulam-5, Malappuram: Perinthalmanna-5; **Assam-Meghalaya:** Mawsynram-5.

Maximum Temperature forecast and Heat Wave warning:

- ✓ No significant change in maximum temperatures very likely over Northwest India today and fall by 3-5°C during next 2 days and rise by 2-3°C thereafter.
- ✓ No significant change in maximum temperatures very likely over Central India and Gujarat today and fall by 2-3°C during subsequent 2 days.
- ✓ No significant change in maximum temperatures very likely over East India during next 2 days and fall by 2-3°C during subsequent 3 days.
- ✓ No significant change in maximum temperatures very likely over rest parts of the country.
- ✓ **Heat wave conditions** very likely to prevail in isolated pockets over Himachal Pradesh, Punjab, Haryana-Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha & Gangetic West Bengal on 19th; over Jharkhand on 19th & 20th April, 2022. **Heat wave to severe heat wave**

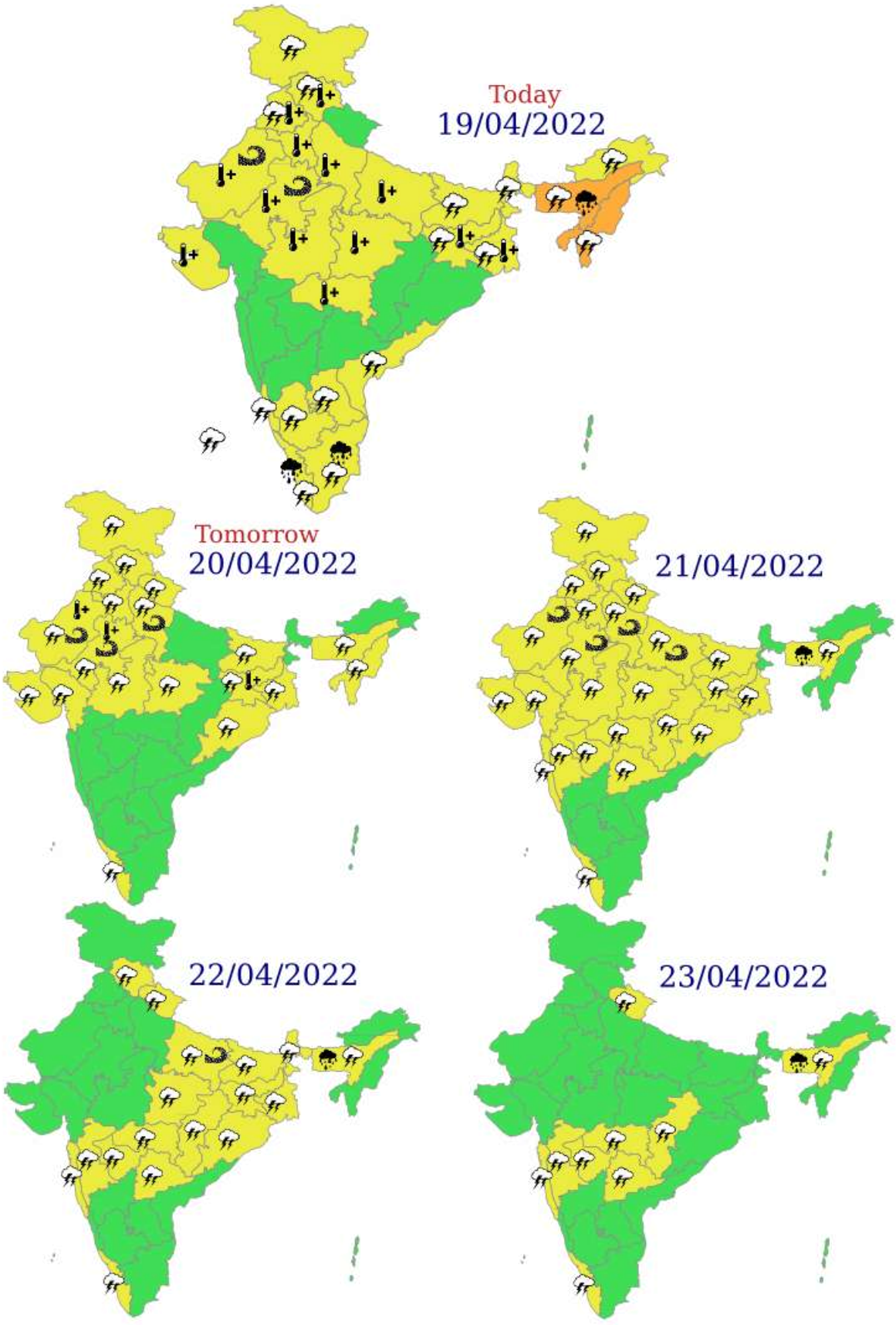
conditions also likely over Rajasthan and south Haryana on 19th April. It is likely to abate thereafter due to approaching Western Disturbance, wind conditions & cloudiness over the region.

Rainfall/thunderstorm Forecast & Warnings:

- ✓ Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States and a cyclonic circulation over Jharkhand at lower tropospheric levels:
  - ❖ Fairly widespread rainfall very likely over Arunachal Pradesh, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and Sub-Himalayan West Bengal & Sikkim during next 5 days. **Isolated heavy rainfall** likely over Assam-Meghalaya on 19th, 21st, 22nd & 23rd April, 2022.
  - ❖ **Thunderstorm/lightning/gusty winds** very likely over Assam-Meghalaya during next 5 days, over Nagaland-Manipur-Mizoram-Tripura during next 2 days. T**hundersquall** (wind speed reaching 50-60 kmph) & **Hailstorm** at isolated places also very likely over Assam-Meghalaya & Manipur-Mizoram on 19th April, 2022.
  - ❖ Isolated to scattered rainfall with **thunderstorm/lightning/gusty winds** very likely over Bihar, Jharkhand, Gangetic West Bengal & Odisha during next 5 days.
- ✓ Under the influence of a Western Disturbance:
  - ❖ Light scattered/fairly widespread rainfall accompanied with isolated **thunderstorm/lightning/gusty winds** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during next 4 days and over Uttarakhand on 21st & 22nd April. Isolated **hailstorm** also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 19th; over Himachal Pradesh on 20th and over Uttarakhand on 21st & 22nd April.
  - ❖ Light isolated rainfall with **thunderstorm/lightning/gusty winds** likely over Punjab and Haryana-Chandigarh-Delhi during next 3 days; over West Madhya Pradesh on 20th & 21st; over East Madhya Pradesh during 20th-22nd; over Vidarbha during 21st-23rd and over Chhattisgarh during 19th-23rd April.
  - ❖ **Duststorm** at isolated places very likely over Rajasthan & West Uttar Pradesh on 20th & 21st; East Uttar Pradesh on 21st & 22nd and, 2022.
  - ❖ **Strong dust raising winds (speed reaching 25-35 kmph)** very likely at isolated places over Rajasthan on 19th April, 2022.

- ✓ Under the influence of cyclonic circulation over south Tamil Nadu in lower tropospheric levels:
  - ❖ Scattered/fairly widespread rainfall accompanied with **thunderstorm/lightning/gusty winds** very likely over Kerala-Mahe during next 5 days and isolated rainfall accompanied with **thunderstorm/lightning/gusty winds** over Tamilnadu-Puducherry-Karaikal, Karnataka, Coastal Andhra Pradesh and Telangana during next 5 days.
  - ❖ **Isolated heavy rainfall** likely over Kerala-Mahe and south Tamil Nadu on 19th April, 2022.

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


Today
19/04/2022
Tomorrow
20/04/2022
21/04/2022
22/04/2022
23/04/2022

Impact expected and action suggested due to Isolated Thunderstorm/lightning/Squall & Hailstorm over Assam-Meghalaya, Manipur-Mizoram on 19th; over Jammu-Kashmir on 19th; Himachal Pradesh on 20th and over Uttarakhand on 21st & 22nd April, 2022.

Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

Action suggested:

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.
- Farming operations may be suspended during the event.

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