

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 28 April 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat wave conditions: Heat wave conditions very likely over Northwest & Central India during next 5 days and over East India during next 3 days and abate thereafter.
- Heat Wave conditions in isolated pockets very likely over West Rajasthan during 28th-30th April with Severe Heat Wave conditions on 01st-02nd May;
- Heat Wave conditions in some/isolated parts over
 - Vidarbha, West Uttar Pradesh, Madhya Pradesh, Punjab, Haryana-Chandigarh-Delhi & Rajasthan during next 5 days;
 - East Uttar Pradesh during 28th April-01st May, Bihar, Jharkhand, interior Odisha, Chhattisgarh & Gangetic West Bengal during 28th-30th April;
 - Telangana during 28th April-01st May;
 - Gujarat State on 28th April, 2022.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels, rainfall intensity is likely to increase over the region from 29th April :
 - i) Fairly widespread/widespread rainfall with thunderstorm/lightning/gusty winds (speed reaching 40-50 kmph) very likely over Arunachal Pradesh, Assam-Meghalaya and scattered/fairly widespread rainfall over Nagaland-Manipur-Mizoram-Tripura & Sub-Himalayan West Bengal-Sikkim during next 5 days.
 - ii) Isolated heavy rainfall very likely over Arunachal Pradesh on 30th and over Assam-Meghalaya during 30th April-02nd May.
- Under the influence of a Western Disturbance as a trough in mid & upper tropospheric westerlies along Long. 55°E & to the north of Lat. 28°N: light/moderate isolated rainfall accompanied with thunderstorm/lightning/gusty winds (speed reaching 30- 40 kmph) very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 28th-30th & Himachal Pradesh during next 5 days and over Uttarakhand during 29th April-

01st May. Isolated hailstorm also likely over Uttarakhand during 29th April-02nd May 2022.

- Duststorm very likely over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan on 30th April.
- Under the influence of another fresh Western Disturbance likely to affect Northwest India from 02nd May, 2022:
 - i) Light/moderate isolated/scattered rainfall accompanied with thunderstorm/lightning likely over Western Himalayan Region during 02nd-04th May.
 - ii) Isolated light rainfall likely over plains of northwest India during 03rd-04th May.
- Due to trough/wind discontinuity over peninsular India in lower tropospheric levels: Isolated to scattered rainfall with thunderstorm/lightning very likely over Kerala, Karnataka, Tamil Nadu, Andhra Pradesh and Telangana during next 5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Assam & Meghalaya and Arunachal Pradesh; at a few places over Nagaland-Manipur-Mizoram-Tripura and at isolated places over Sub-Himalayan West Bengal-Sikkim, Konkan & Goa, Coastal Andhra Pradesh, Telangana, Rayalaseema, Coastal & North Interior Karnataka, Tamil Nadu and Kerala.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya, North Interior Karnataka, Kerala & Mahe and Chhattisgarh.
- Yesterday, Heat wave conditions prevailed in some parts of Gangetic West Bengal and in isolated pockets over Bihar, Jharkhand, West Rajasthan, Odisha, Vidarbha and Saurashtra-Kutch.
- Maximum Temperature Departures (as on 27-04-2022): Maximum temperatures were Markedly above normal (5.0 or more) at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad, Himachal Pradesh and Gangetic West Bengal; appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand; at a few places over Punjab, West Rajasthan, Gujarat Region, Uttar Pradesh, Bihar, Odisha and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Madhya Pradesh, Saurashtra & Kutch and Assam & Meghalaya;

above normal (1.6°C to 3.0°C) at most places over Vidarbha; at many places over Haryana, Chandigarh & Delhi, East Rajasthan, Kerala & Mahe, Madhya Maharashtra and Marathwada; at a few places over Uttarakhand, Coastal Karnataka, Konkan & Goa and Rayalaseema and at isolated places over Telangana, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu-Puducherry-Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.6°C was reported at Rajgarh (West Madhya Pradesh).

- Minimum Temperature Departures (as on 28-04-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh and Bihar; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Rajasthan, Madhya Maharashtra and Assam & Meghalaya and above normal (1.6°C to 3.0°C) at many places over Coastal & North Interior Karnataka, Jharkhand and West Bengal & Sikkim; at a few places over Vidarbha, Telangana, Kerala & Mahe, Odisha and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Haryana, Chandigarh & Delhi, East Madhya Pradesh, East Uttar Pradesh, Saurashtra & Kutch, Marathwada and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.5°C is reported at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 28 April (Day 1): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Telangana and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal-Sikkim, south Konkan-Goa, south Madhya Maharashtra, south Chhattisgarh, Karnataka, Coastal Andhra Pradesh, Kerala-Mahe and Tamil Nadu, Puducherry & Karaikal. Heat wave conditions in some parts very likely over West Rajasthan, Vidarbha and isolated pockets over Jammu, Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, interior Gangetic West Bengal, interior Odisha, Telangana and northern parts of Gujarat State.
- 29 April (Day 2): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Telangana and with lightning at isolated places over Arunachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal-Sikkim, south Chhattisgarh

and Kerala & Mahe. Heavy rainfall at isolated places very likely over Arunachal Pradesh and Assam-Meghalaya. Heat wave conditions in some parts very likely over West Madhya Pradesh, Vidarbha and in isolated places over Jammu, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, western parts of Gangetic West Bengal, Telangana and interior Odisha.

- 30 April (Day 3): Thunderstorm accompanied with lightning/gusty winds & hail (speed 30-40 kmph) at isolated places very likely over Uttarakhand; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Bihar, Jharkhand, Gangetic West Bengal, Telangana, Nagaland-Manipur-Mizoram-Tripura and with lightning at isolated places over Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, south Chhattisgarh and Kerala-Mahe. Heavy rainfall at isolated places very likely over Assam-Meghalaya. Duststorm at isolated places very likely over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh and Rajasthan. Heat wave conditions in some parts very likely over West Madhya Pradesh, Vidarbha and in isolated pockets over Punjab, HaryanaChandigarh-Delhi, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, western parts of Gangetic West Bengal, Telangana and interior Odisha.
- 01 May (Day 4): Thunderstorm accompanied with lightning/gusty winds & hail (speed 30-40 kmph) at isolated places likely over Uttarakhand; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Jharkhand, Gangetic West Bengal; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Bihar and with lightning at isolated places over Himachal Pradesh, Odisha, Andaman & Nicobar Islands, south Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya. Heat wave conditions in some parts with severe heat wave conditions in isolated pockets over West Rajasthan; Heat wave conditions in some prats over Madhya Pradesh, Vidarbha and in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan and Telangana.
- 02 May (Day 5): Thunderstorm accompanied with lightning/gusty winds(speed 40-50 kmph) at isolated places over Jharkhand and Gangetic West Bengal; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Bihar with lightning at isolated places over Himachal Pradesh, Odisha, Andaman & Nicobar Islands, south Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya. Heat wave conditions in some parts with severe heat wave conditions in isolated

pockets over West Rajasthan; Heat wave conditions in some parts over Madhya Pradesh, Vidarbha and in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and East Rajasthan.

- The weather outlook for seven days i.e., 28 Apr to 06 May 2022 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Western U.P

Weather condition:

Dry weather next 5 days. Maximum temperature may be expected 3.0-4.0 0C higher than its normal, while minimum temperature may be also 1-2 0C higher than its normal. North- West winds may be expected and prevailing 5 to 6 km higher than its normal during this week as per forecast.

Contingency measure:

- Wheat : Hot and dry weather appearing during this week farmers are advised to harvest their crop and tying bundles immediate and threshing should be done.
- Barley : Threshing and winnowing should be completed as earlier.
- Zaid maize: Irrigation and weeding should be done. Pigeon pea:Harvest mature crop and threshing should be done.
- Zaid Urd : Weeding should be done at optimum moisture by hand hoe. Weeds should be used as mulch.
- Zaid : emergence/ Vegetative Weeding should be done after 20 days of sowing.
- Brinjal / Chilies:Irrigation, pick up mature fruits in standing crop.
- Leafy Vegetable:Cutting , marketing and irrigation.
- Barseem : Harvest mature seed crop.
- MP Chari / Mucchari / Pearl-millet :Sowing of SSG-988-898, PC-23 ,SSG-59 -3 and MP chari @ 30-40 kg seeds /ha. Light irrigation applied after 20 days of sowing. Sowing should be Pearl-millet varieties such as Raj-171, L-72 and L-74 done.
- Animal :Balanced diet should be given for milch animal. Fresh water used for dirking 4 or 5 time and bathing should be taken up at morning. The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

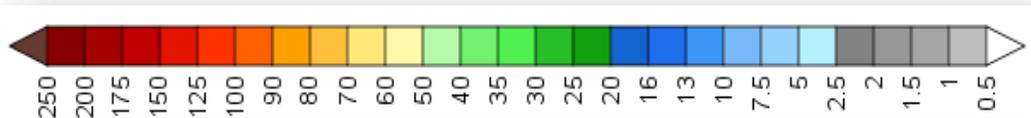
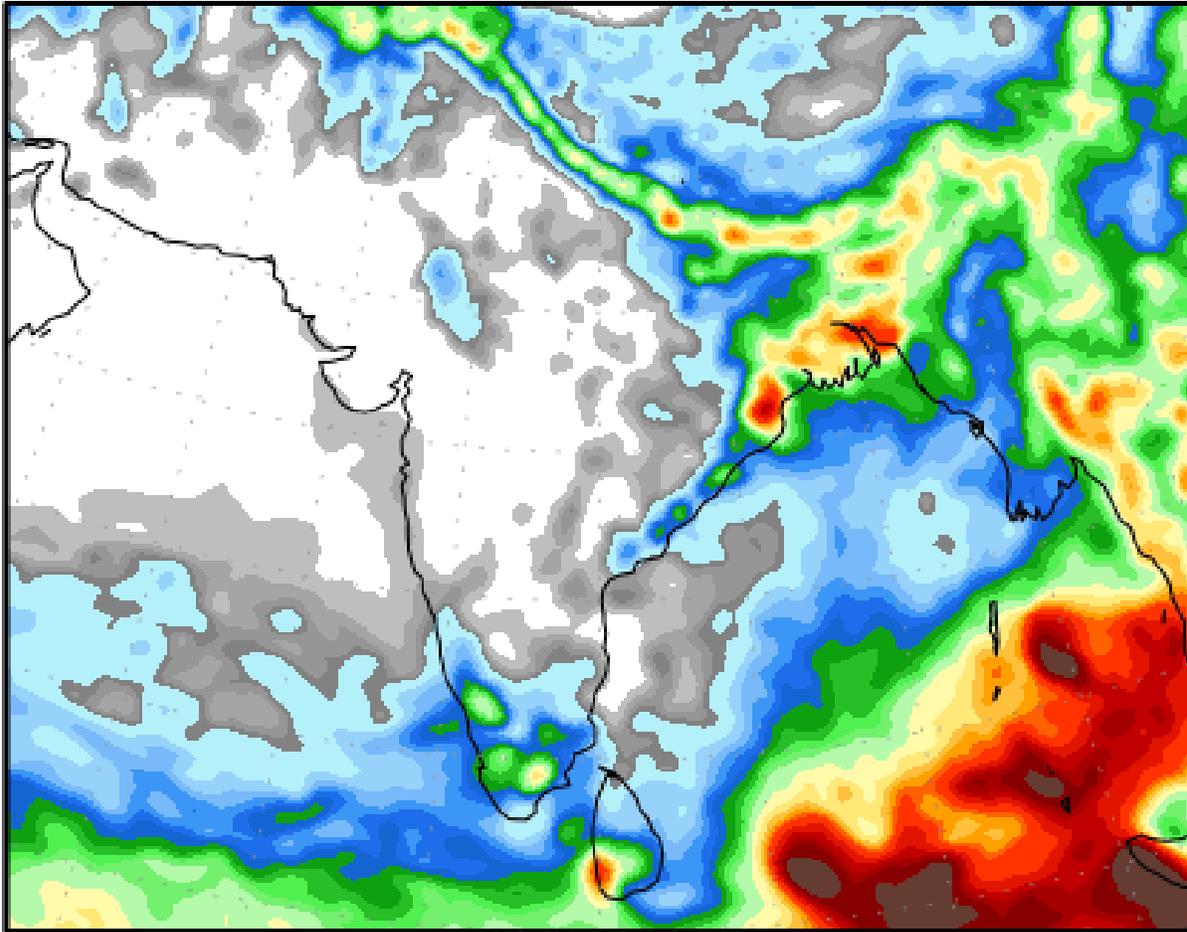


Figure:2. Precipitation forecast for 28 Apr to 06 May 2022 (Source: NOAA NCEP).

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