

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 March 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat Wave conditions Forecast:
- Heat wave to severe heat wave conditions in most parts very likely to continue over West Rajasthan on 30th March and in many parts on 31st March & in some parts over West Uttar Pradesh, East Rajasthan & West Madhya Pradesh on 30th & 31st March. Heat wave to severe heat wave conditions in isolated pockets over south Haryana & Delhi on 30th & 31st March. It is likely to reduce spatially and in terms of intensity over these areas during 01st-03rd April with Heat wave conditions in some pockets over these areas during the same period.
- Isolated Heat Wave conditions very likely over Himachal Pradesh & East Uttar Pradesh on 30th & 31st; over Madhya Maharashtra, Jharkhand & interior Odisha during 30th March-01st April; over Gangetic West Bengal on 31st March & 01st April; over Chhattisgarh, Marathwada & Telangana during 31st March-02nd April; over Vidarbha during 30th -02nd April; over Gujarat region on 01st-03rd April and over East Madhya Pradesh & Saurashtra-Kutch during next 5 days.
- Rainfall Forecast & Warnings:
- Under the influence of strong southwesterly winds from Bay of Bengal to northeastern states at lower tropospheric levels; fairly widespread to widespread light/moderate rainfall with thunderstorm/lightning & squall (50-60 kmph) very likely over Assam-Meghalaya; with thunderstorm/lightning/gusty winds (30-40 kmph) over Nagaland-Manipur-Mizoram-Tripura and with thunderstorm/lightning over Arunachal Pradesh on 31st March & 01st April.
- Isolated heavy rainfall likely over Sub-Himalayan West Bengal-Sikkim on 03rd April; Assam-Meghalaya on 31st March, 02nd & 03rd April and over Arunachal Pradesh during 31st March-03rd April, 2022. Under the influence of trough/wind discontinuity over south Peninsular India: i) Light to moderate isolated/scattered rainfall very likely over Coastal Karnataka & Lakshadweep on 30th & 31st March; over Kerala-Mahe, Tamil Nadu Puducherry-Karaikal and South Interior Karnataka during next 5 days. ii) Isolated thunderstorm/lightning activity also

very likely over Lakshadweep on 30th March; over Tamil Nadu-Puducherry-Karaikal on 30th & 31st March and over Kerala & Mahe 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 Arunachal Pradesh, Sub-Himalayan West Bengal-Sikkim; a few places over Assam-Meghalaya, Lakshadweep and at isolated places over Andaman & Nicobar Islands, Nagaland-Manipur Mizoram-Tripura, Karnataka, Kerala & Mahe, and Tamilnadu-Puducherry-Karaikal.
- Heat Wave to Severe Heat Wave conditions were observed in most parts of West Rajasthan; in many parts of East Rajasthan; in some parts of Delhi; in isolated pockets of south Haryana and Heat Wave conditions in some parts of Himachal Pradesh, East Uttar Pradesh and Madhya Pradesh and in isolated pockets of Jammu Division and West Uttar Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Lakshadweep and Sub-Himalayan West Bengal & Sikkim.
- Maximum Temperature Departures (as on 29-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and Himachal Pradesh; at many places over Uttarakhand and West Uttar Pradesh; at a few places over East Rajasthan; at isolated places over East Uttar Pradesh and Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand; at many places over Gujarat region, Vidarbha and Marathawada; at a few places over SaurashtraKutch, Madhya Maharashtra and Odisha; at isolated places over Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Chhattisgarh; at many places over Konkan-Goa, Rayalaseema, Telangana and Coastal Karnataka; at a few places over Kerala-Mahe, Coastal Andhra Pradesh & Yanam and Tamilnadu-Puducherry-Karaikal. They were below normal (-1.6°C to -3.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Island and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.4°C was reported at Chandrapur (Vidarbha) over the country.
- Minimum Temperature Departures (as on 30-03-2022): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Rajasthan and Bihar; appreciably above normal (3.1°C to 5.0°C) at many places over Punjab, East

Uttar Pradesh, Marathwada, Assam & Meghalaya and West Bengal & Sikkim; at isolated places over Haryana Chandigarh & Delhi, Himachal Pradesh and Arunachal Pradesh; above normal (1.6°C to 3.0°C) at most places over Gujarat State, Odisha, Uttarakhand, Coastal & South Interior Karnataka, Rayalaseema; at a few places over Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad, West Uttar Pradesh and Tamil Nadu Puducherry & Karaikal and at isolated places over Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Madhya Maharashtra and near normal over rest parts of the country. Today, the lowest minimum temperature of 15.2°C reported at Rewa and Malanjkhanda (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 30 March (Day 1): Heat wave conditions in some parts with severe heat wave conditions in isolated pockets very likely over West Madhya Pradesh; Heat wave to severe heat wave conditions in most parts of West Rajasthan; in some parts of East Rajasthan; in isolated pockets over south Haryana-Delhi, West Uttar Pradesh and heat wave conditions in some parts of West Uttar Pradesh; in isolated pockets over Himachal Pradesh, East Uttar Pradesh, Saurashtra-Kutch, East Madhya Pradesh, Vidarbha, Jharkhand, Odisha and Madhya Maharashtra. Thunderstorm accompanied with lightning at isolated places very likely over Sub-Himalayan West Bengal-Sikkim, Tamilnadu-Puducherry-Karaikal, Lakshadweep and Kerala-Mahe.
- 31 March (Day 2): Heat wave conditions in some parts with severe heat wave conditions in isolated pockets very likely over West Madhya Pradesh; Heat wave to severe heat wave conditions in many parts of West Rajasthan; in some parts of East Rajasthan and heat wave conditions in some parts of West Uttar Pradesh; in isolated pockets over Himachal Pradesh, south Haryana-Delhi, East Uttar Pradesh, Saurashtra-Kutch, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, Madhya Maharashtra and Marathawada. Thunderstorm accompanied with lightning, gusty winds & squall (speed reaching 50-60 kmph) at isolated places very likely over Assam-Meghalaya; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Nagaland-Manipur-Mizoram-Tripura and with lightning at isolated places over Arunachal Pradesh, Sub-Himalayan West Bengal-Sikkim, Tamilnadu-Puducherry-Karaikal, and Kerala-Mahe. Heavy rainfall at isolated places very likely over Assam-Meghalaya and Arunachal Pradesh.
- 01 April (Day 3): Heat wave conditions in some parts very likely over Madhya Pradesh, Rajasthan and in isolated pockets over West Uttar Pradesh, Gujarat State, Vidarbha, Chhattisgarh, Gangetic West Bengal, Jharkhand, Odisha, Madhya

Maharashtra, Marathwada and Telangana. Thunderstorm accompanied with lightning, gusty winds & squall (speed reaching 50-60 kmph) at isolated places very likely over Assam-Meghalaya; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Nagaland-Manipur-Mizoram-Tripura and with lightning at isolated places over Arunachal Pradesh and Kerala-Mahe. Heavy rainfall at isolated places very likely over Arunachal Pradesh.

- 02 April (Day 4): Heat wave conditions in some parts likely over Madhya Pradesh and in isolated pockets over Rajasthan, West Uttar Pradesh, Gujarat State, Vidarbha, Chhattisgarh, Marathwada and Telangana. Thunderstorm accompanied with lightning at isolated places likely over Andaman-Nicobar Islands and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya and Arunachal Pradesh.
- 03 April (Day 5): Heat wave conditions in some parts likely over Madhya Pradesh and in isolated pockets over Rajasthan, West Uttar Pradesh, Gujarat State and Telangana. Thunderstorm accompanied with lightning at isolated places likely over Andaman-Nicobar Islands and Kerala-Mahe. Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal-Sikkim, Assam-Meghalaya and Arunachal Pradesh.
- The weather outlook for seven days i.e., 30 Mar to 07 Apr 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)

West bengal

Weather condition:

Weather conditions during the 12th week at Mohanpur, West Bengal: Maximum temperature: 35.2 to 37.0 0C, minimum temperature: 19.8 to 25.5 0C, bright sun shine hours: 6.3 to 10.0 hours, Morning-time relative Humidity: 84 to 95 %, after noon-time R.H: 28 to 50%, weekly total pan evaporation: 27.3 mm, total weekly rainfall: 0.0 mm and average daily wind speed is around 0.17 km/h.

Contingency measure:

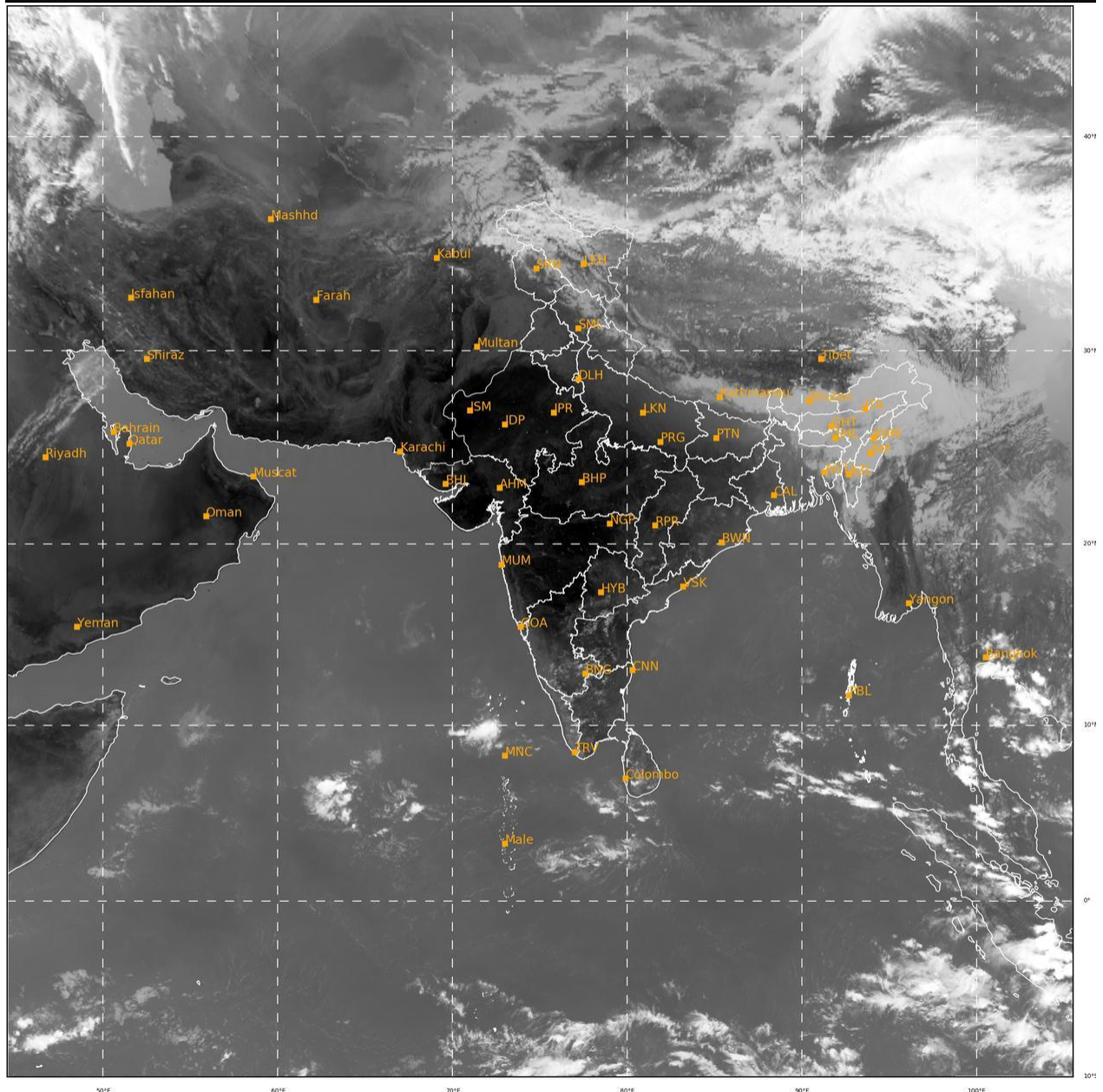
- Rice: After transplanting of Boro Rice be careful about weed control, insect pest control, fertilizer management etc.
- Chilli: To protect the crop against sucking pest in chilli spray Imidacloprid @10 ml/ 10 liters of water at 15 days interval. All spraying operation must be done in

consideration of weather.

- Mango: In Mango Orchard, start monitoring for mango hopper and start destroying infected inflorescence if malformation is found.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

30-03-2022/(0800 to 0826) GMT
30-03-2022/(1330 to 1356) IST



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IMD,DELHI

Figure: 1. Latest available satellite picture as on 30 Mar 2022 at 1356 Hrs (IST). (Source: IMD).

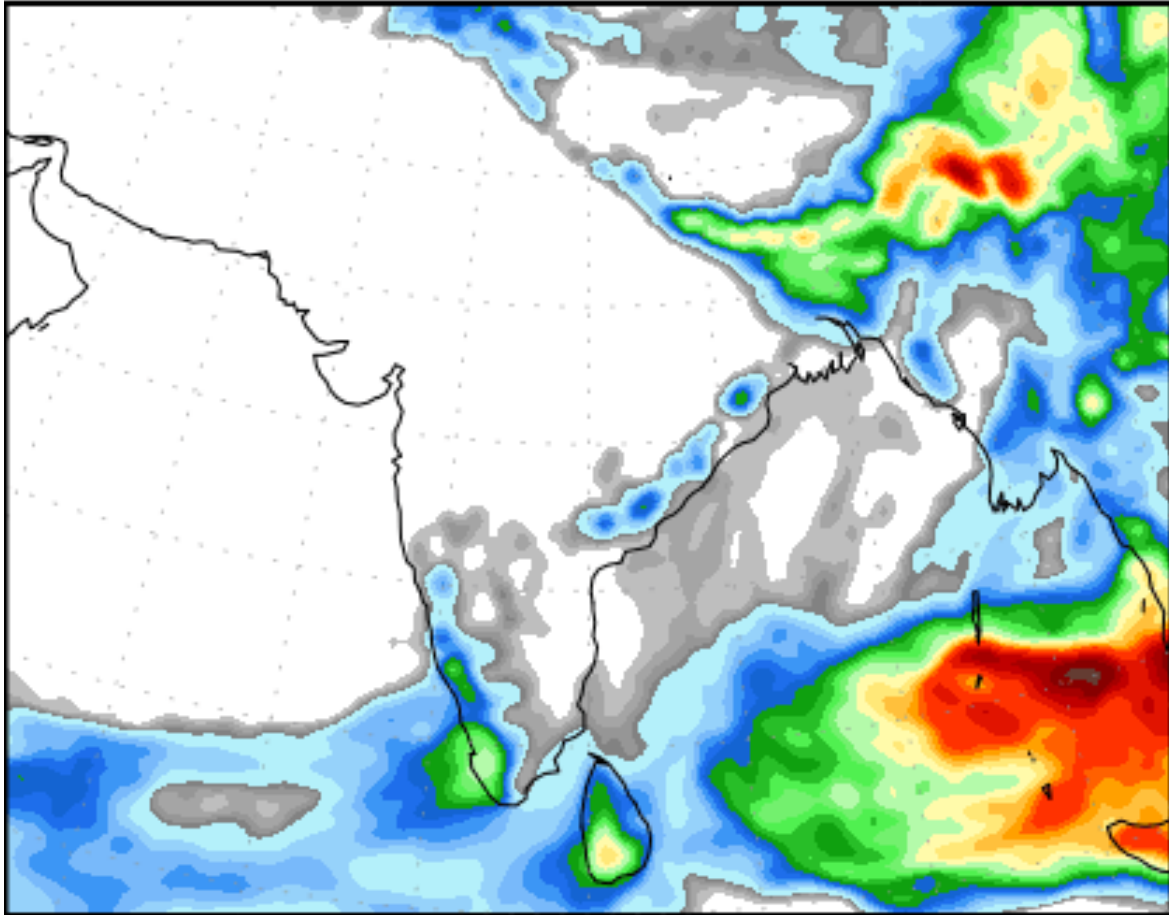


Figure:2. Precipitation forecast for 30 Mar to 07 Apr 2022 (Source: NOAA NCEP).

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