

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 April 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Heat wave conditions very likely to prevail in isolated pockets over
 - Vidarbha, Rajasthan & Madhya Pradesh during next 5 days;
 - Uttar Pradesh, Jharkhand, interior Gangetic West Bengal & interior Odisha during 27th-30th April;
 - Punjab, Haryana-Chandigarh-Delhi during 28th April-01st May;
 - Bihar during 27th-29th and over Chhattisgarh during 28th-30th April;
 - Northern parts of Gujarat State on 27th & 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 April & 01st May; over Assam-Meghalaya on 29th & 30th April and isolated heavy to very heavy rainfall also likely over Assam-Meghalaya on 01st May.
- Under the influence of a fresh Western Disturbance; light/moderate isolated rainfall accompanied with thunderstorm/lightning/gusty winds (speed reaching 30-40 kmph) very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad & Himachal Pradesh during 28th April-01st May and over Uttarakhand during 29th April-01st May. Isolated hailstorm also likely over Jammu-Kashmir & Himachal Pradesh on 29th April and over Uttarakhand on 30th April & 01st May 2022.
- Very light isolated rainfall with Duststorm/thunderstorm likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh on 29th April and over Rajasthan on 29th & 30th April.

- Strong surface winds (speed reaching 30-40 kmph) very likely over Rajasthan on 28th & 29th and over Uttar Pradesh on 29th & 30th April.
- Under the influence of another fresh Western Disturbance likely to affect Northwest India from 02nd May, 2022: i) Light/moderate scattered to fairly widespread 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 most places over Sub-Himalayan West Bengal-Sikkim, Assam & Meghalaya. Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many over Andaman & Nicobar Islands and at isolated places over Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema, Interior Karnataka, Kerala & Mahe and Tamilnadu.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Coastal Karnataka, North Interior Karnataka and Kerala & Mahe.
- Heat wave conditions prevailed in isolated pockets over Bihar and Gangetic West Bengal.
- Maximum Temperature Departures (as on 26-04-2022): Maximum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand and Nagaland, Manipur, Mizoram & Tripura; at many places over Bihar, Jharkhand and West Rajasthan; at a few places over Himachal Places, Odisha, Assam & Meghalaya and Saurashtra & Kutch. They are below normal (-1.6°C to -3.0°C) at a few places over Arunachal Pradesh and at isolated places over Tamil Nadu-Puducherry Karaikal and near normal over rest parts of the country. Today, the highest maximum temperature of 45.1°C is reported at Barmer (West Rajasthan).

- Minimum Temperature Departures (as on 27-04-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Himachal Pradesh, Madhya Maharashtra, West Rajasthan and Bihar; above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal and Jharkhand; at many places over Marathwada; at a few places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, East Rajasthan, Vidarbha and Telangana; at isolated places over East Madhya Pradesh, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. They are below normal (- 1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi; at a few places Coastal Karnataka and North Interior Karnataka and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.7°C is reported at Hissar (Haryana, Chandigarh & Delhi) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 April (Day 1): Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Sub-Himalayan West Bengal-Sikkim; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Telangana and with lightning at isolated places over Arunachal Pradesh, south Konkan-Goa, Madhya Maharashtra, Marathwada, Karnataka, Coastal Andhra Pradesh, Rayalaseema and Kerala-Mahe. Heat wave conditions in isolated places very likely over Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, interior Gangetic West Bengal, interior Odisha and northern parts of Gujarat State.
- 28 April (Day 2): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Sub-Himalayan West Bengal-Sikkim, Telangana and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Assam-Meghalaya, south Konkan-Goa, Madhya Maharashtra, south Chhattisgarh, Karnataka and Kerala-Mahe. Heat wave conditions in isolated pockets very likely over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, interior Gangetic West Bengal, interior Odisha and northern parts of Gujarat State.
- 29 April (Day 3): Thunderstorm accompanied with lightning & hail at isolated places very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Assam-Meghalaya; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Uttarakhand, Sub-Himalayan West Bengal-Sikkim, Telangana

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

- 30 April (Day 4): Thunderstorm accompanied with lightning/gusty winds & hail (speed 30-40 kmph) at isolated places likely over Uttarakhand, Bihar, Gangetic West Bengal and with lightning at isolated places over Jammu-Kashmir-Ladakh-GilgitBaltistan-Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal-Sikkim, south Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema and Kerala-Mahe. Heavy rainfall at isolated places likely over Arunachal Pradesh and Assam-Meghalaya. Duststorm/Thunderstorm at isolated places likely over Rajasthan. Heat wave conditions in some parts likely over Vidarbha and in isolated places over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, western parts of Gangetic West Bengal and interior Odisha.
- 01 May (Day 5): 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, Sub-Himalayan West Bengal-Sikkim, south Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema and Kerala-Mahe. Heavy to very heavy rainfall at isolated places likely over Assam-Meghalaya and heavy rainfall at isolated places over Arunachal Pradesh & Nagaland-Manipur-Mizoram-Tripura. Heat wave conditions in some parts likely over Vidarbha and in isolated places over Punjab, Haryana-Chandigarh-Delhi, Rajasthan and Madhya Pradesh.
- The weather outlook for seven days i.e., 27 Apr to 05 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)

Assam

Weather condition:

Weather during the last week was cloudy. Daily average maximum temperature was 29.9 °C which was 1.4°C above normal and the average daily minimum temperature was 19.6°C which was 0.1°C below normal for the week. Total BSSH was 34.9 hrs with an average of 5.8 hrs/day. The daily average evaporation rate was 2.4 mm/day and the average daily wind speed during the week was 3.3 kmph. Daily average RH during morning and afternoon hour was 94.1% and 63.3% respectively.

Contingency measure:

- Boro rice (Booting stage): Farmers may go for spraying of pesticides if symptoms of white earhead is observed in the boro rice crops which are at booting stage. It is advised to spray Flubendiamide 39.35 SC (@ 1.25 ml per 10 lit of water) or Flubendiamide 20% WG (@ 2.5 grams per 10 lit of water) or Fipronil (@ 7.5 ml per 10 lit of water) against the pest.
- Summer Green gram/ Black gram (Vegetative): Incidence of blight may be observed in the green gram and black gram crops. To control this disease apply Carbendazim 0.05% @ 300-500 g in 600-700 lit of water at an interval of 12-15 days.
- Kharif maize (sowing): Farmers are suggested to complete the sowing of maize seeds in the fields which are free from water stagnation, within this month. Seeds should be dibbled at a depth of 3-4 cm, at a distance of 20-25 cm with a row spacing of 65-75 cm.
- Chilli (Fruiting): Fruit rot or Anthracnose disease may be observed in the chilli crop. Farmers can spray Glyodin or Maneb pesticide in the recommended dose to control the disease.
- Papaya (Planting / Seedling): Planting of papaya seedlings may be continued in pits of size 45×45×45 cm dug at a spacing of 1.8×1.8 m. Plant 4 seedlings per pit in case of dioecious type and 1 seedling per pit in case of hermaphrodite type.
- Poultry (Various): Regularly inspect the droppings of the poultry bird for any disease symptoms. Moreover, diseased and dead birds should be immediately removed.
- Fishery: Apply Potash @ 4-5 mg/lit of water to protect the fish population against various bacterial diseases prevalent in winter season.

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

27-04-2022/(0800 to 0826) GMT
27-04-2022/(1330 to 1356) IST

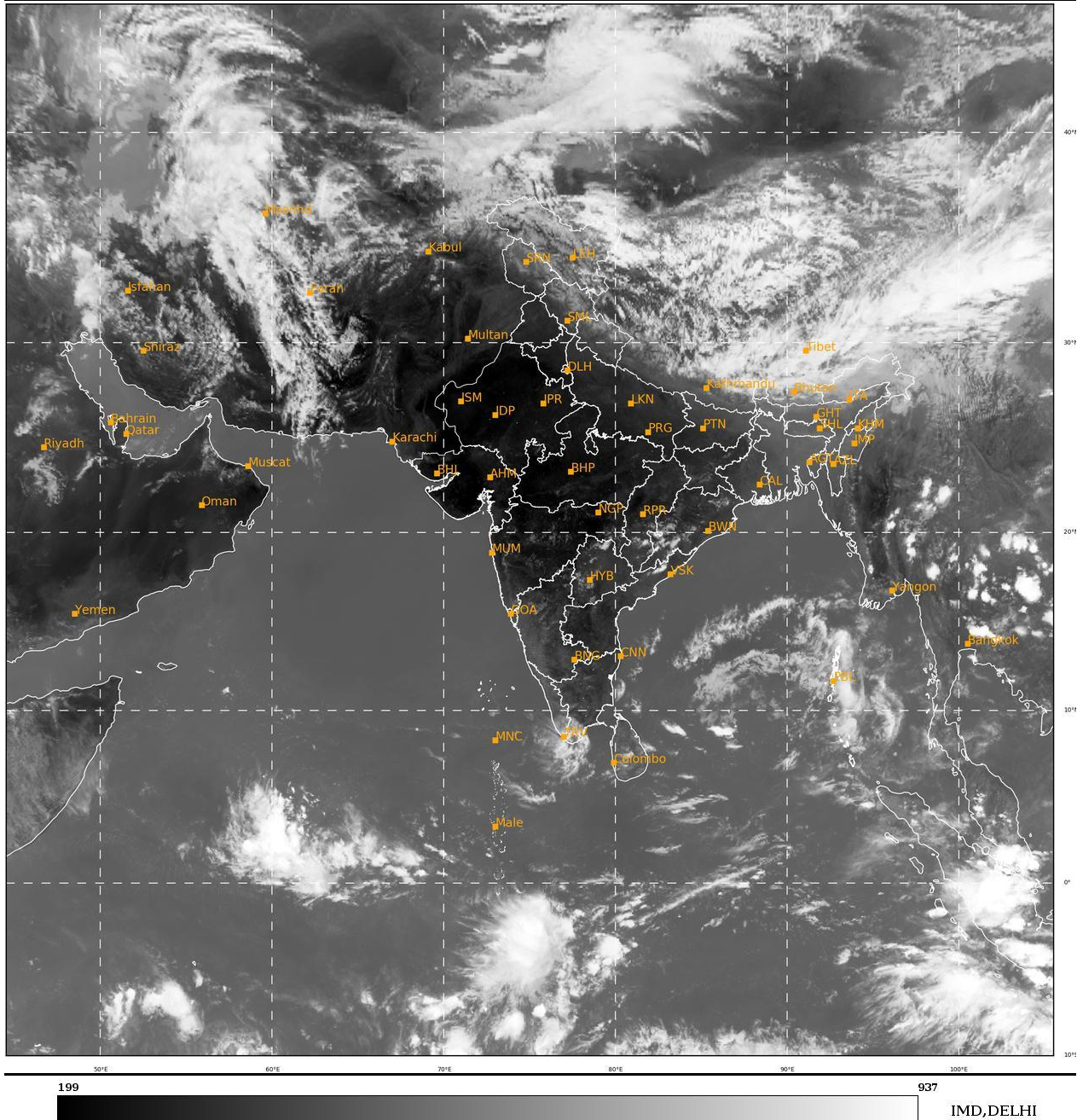


Figure: 1. Latest available satellite picture as on 27 Apr 2022 at 1356 Hrs (IST). (Source: IMD).

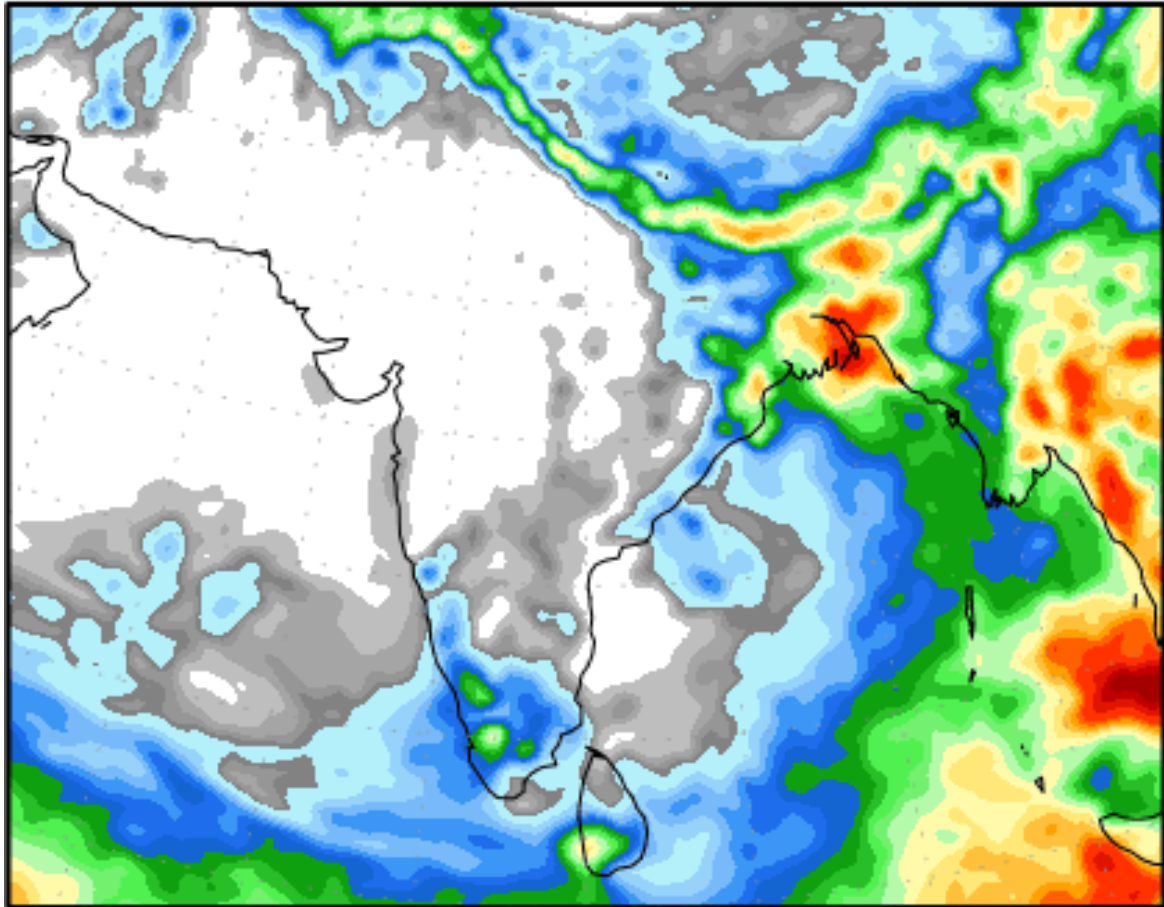


Figure:2. Precipitation forecast for 27 Apr to 05 May 2022 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.