

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 April 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Due to continued moisture incursion, strong wind convergence and conducive upper level features, fairly widespread to widespread rainfall activity is very likely to continue over parts of East and Northeast India during next 2-3 days with peak activity over Odisha, Jharkhand and Gangetic West Bengal on 26th April. Isolated heavy rainfall, thunderstorm/thundersquall likely over East & Northeast India. Hailstorms are also very likely over Odisha, Jharkhand and Nagaland, Manipur, Mizoram & Tripura during this period.
- Fairly widespread rainfall/thundershower activity along with isolated heavy rainfall likely over Kerala & Mahe during next 4-5 days. Rainfall activity likely to increase over Andhra Pradesh, Telangana, Tamil Nadu, Puducherry & Karaikal from 25th April for the subsequent 4 days. Thunderstorms, hailstorms, lightning, gusty winds & heavy rainfall are also likely over these regions during this period.
- Moisture influx from the Arabian Sea and low level easterlies from the Bay of Bengal are likely to cause scattered to fairly widespread rain/thundershowers over Uttarakhand and Himachal Pradesh during 26th-27th April and scattered to fairly widespread rain/thundershowers over plains of Northwest India (mainly over Punjab and Haryana, Chandigarh & Delhi) during 25th-27th April. Isolated hailstorms and gusty winds are also likely over the region during 26th-27th April.
- A Low Pressure Area is likely to developed over south Andaman Sea & adjoining southeast Bay of Bengal around 30th April. It is likely to become more marked over the same region subsequently. Initially it is likely to move north-northwestward and then north-northeastward towards Myanmar-southeast Bangladesh coasts during subsequent 3-4 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Odisha, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at many places over

West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal; at a few places over Kerala & Mahe and at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Coastal Andhra Pradesh, Telangana, Rayalaseema, Coastal & South Interior Karnataka and Andaman & Nicobar Islands.

- Heavy to very heavy rainfall reported at isolated places over Odisha and heavy rainfall at isolated places over Assam & Meghalaya and Tamilnadu. Hailstorms reported at isolated places over Chhattisgarh, Odisha and Telangana.
- Thunderstorm observed (from 2030 hours IST of yesterday to 0830 hours IST of today): at a few places over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and at isolated places over Rajasthan, Coastal Karnataka and Kerala & Mahe.
- Maximum Temperature Departures as on 24-04-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated place Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad; above normal (1.6°C to 3.0°C) at many places over Konkan & Goa and Coastal Karnataka and at isolated places over Saurashtra & Kutch, Madhya Maharashtra and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at many places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and north Odisha; at a few places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over Gangetic West Bengal; appreciably below normal (-3.1°C to 5.0°C) at a few places over East Uttar Pradesh and East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Uttarakhand, West Uttar Pradesh, Chhattisgarh and Jharkhand and at isolated places over south Odisha and South Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.9°C was reported at Akola (Vidarbha).
- Minimum Temperature Departures as on 25-04-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Gujarat, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands and Rayalaseema; at a few places over Punjab and East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Madhya Maharashtra and East Uttar Pradesh. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Odisha; at isolated places over Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at many places over Assam & Meghalaya, Sub-Himalayan West Bengal

& Sikkim and Jharkhand; at a few places over East Rajasthan; at isolated places over Telangana and near normal over rest parts of the country. The lowest minimum temperature of 14.9°C reported at Fatehgarh (East Uttar Pradesh).

Weather Warning during the next 5 days (IMD)

- 25 April (Day 1): Thunderstorm accompanied with lightning, hail & squall (speed reaching 50-60 kmph) very likely at isolated places over Odisha; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Telangana and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Gangetic West Bengal and Assam & Meghalaya; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Sub Himalayan West Bengal & Sikkim, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe and with lightning at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Bihar, Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Karnataka and Rayalaseema. Heavy rainfall very likely at isolated places over Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Squally Weather very likely to prevail over southeast Arabian Sea & adjoining Lakshadweep area, north Bay of Bengal and along & off West Bengal-Odisha coasts. Fishermen are advised not to venture into these areas.
- 26 April (Day 2): Thunderstorm accompanied with lightning, hail & squall (speed reaching 50-60 kmph) likely at isolated places over Odisha; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Uttarakhand and Chhattisgarh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Gangetic West Bengal, Bihar and Nagaland, Manipur, Mizoram & Tripura; with lightning & gusty winds (speed reaching 30- 40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Telangana, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands and South Interior Karnataka. Heavy to very heavy rainfall likely at isolated places over Odisha and heavy rainfall at isolated places over Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura. Squally Weather very likely to prevail

over north Bay of Bengal and along & off West Bengal-Odisha coasts. Fishermen are advised not to venture into these areas.

- 27 April (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Telangana, East Madhya Pradesh, Chhattisgarh, Himachal Pradesh and Uttarakhand; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Bihar and Odisha; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Vidarbha, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and Marathawada. Heavy rainfall likely at isolated places over Jharkhand, Gangetic West Bengal and Odisha, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- 28 April (Day 4): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Vidarbha and Telangana; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Jharkhand, SubHimalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal. Heavy rainfall likely at isolated places over Telangana and Kerala & Mahe.
- 29 April (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Vidarbha, Bihar, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Chhattisgarh, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall likely isolated places over Andaman & Nicobar Islands, Telangana, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Kindly visit State level Meteorological Centre /
- The weather outlook for seven days i.e., 24 April to 02 May 2020 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:

The maximum and minimum temperature ranged between 20.5 to 29.0 °C and 9.5 to 15.5 °C which was below normal by 1.8 to 5.5 °C and 3.1 to 6.7 °C, respectively. 28.6 mm rainfall was received during the week against the normal of 9.9 mm. The relative humidity varied between 32-83% and sunshine hours between 0-9 hrs/day with variable sky conditions (Octa 2-8). The evaporation rate varied 2.6-5.7 mm per day.

Contingency measure:

- **RABI CROPS:** Farmers are advised for harvesting of the matured mustard when 75-80 percent of the pods (Siliqua) turn parchment brown in colour is the right time for harvest. Over mature crop cause loss of grains due to scattering. Attack of painted bug more if crop is kept in the field for long time after harvest. Harvesting of timely sown wheat crop is advised in lower regions. Harvested crops should be properly tied to avoid being carried away by winds. Adequate drying of harvested grains before storage should be done.
- **FODDER CROPS:** Advised to sow in March chari and bajra for summer green fodder. Spray glyphosate 1% solutions in the grasslands/pastures having lantana bushes with 2-3 leaves stage.
- **PULSES:** In lower regions sowing of green gram and black gram can be done in second fortnight of March Pod borer in the gram crop, installation of Pheromone trap @ 3-4 traps per acre is advised if flowering has reached 10-15%. T shaped bird perches in and around crop field to be installed for controlling insect population.
- **VEGETABLE CROPS:** Rainfall expected Skip irrigation in Vegetables .Installation of bird perches in tomato crop is advised to control fruit borer insect.
- **ONION:** In onion crop against attack of thrips Spraying of Carbaryl @ 2 grams per litre of water with sticky material (Tipol 1.0 gram /litre) is advised. Purple blotch is expected for control spraying of Diethane M - 45 @ 3 grams per litre of water with sticky material (Tipol 1.0 gram /litre) advised. Onion crop against attack of thrips. Spraying of Carbaryl @ 2 gram/ litre of water with sticky material (Tipol 1.0 gram /litre) is advised.

- OTHER VEGETABLES: Sowing of French bean, cluster bean, summer radish is advised.
- POTATO: Infection of blight may occur in potato and tomato. Constant monitoring is advised. If symptoms appears then spray of Carbandizam @ 1.0 gm / litre of water or Dithane-M-45 @ 2.0 gm / litre of water is recommended.
- POLY HOUSE AGRICULTURE: It is optimum time for sowing of cole crops in polyhouses. It is optimum time for nursery sowing of Tomato, Brinjal, chillies and capsicum crops in poly house. Cucurbits plantation may be done in polytubes under the polyhouse.
- TEA: Apply fertilizers @ 18 kg ammonium sulphate, 22 kg Single super phosphate (SSP) and 3 kg Muriate of potash (MOP) per kanal area. The large trees causing shadow may be lopped so that enough sunshine can be received by tea plants.
- LIVESTOCK: Do not allow the water to stagnate in the cow shed. Ensure cleanliness in cows having advanced pregnancy to avoid mastitis. Monitor the animals for FMD and advised Vaccination. Ecto-parasite attack is expected in this weather for control spary Butox @ 2ml per litre in cowshed Give mixture of hay & green fodder.
- MUSHROOMS: Maintain room temperature 18-22oC and relative humidity around 85 per cent for successful cultivation. Fungal Disease: Bavistin @ 0.05%.

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

25-04-2020/(0830 to 0857) GMT
 25-04-2020/(1400 to 1427) IST

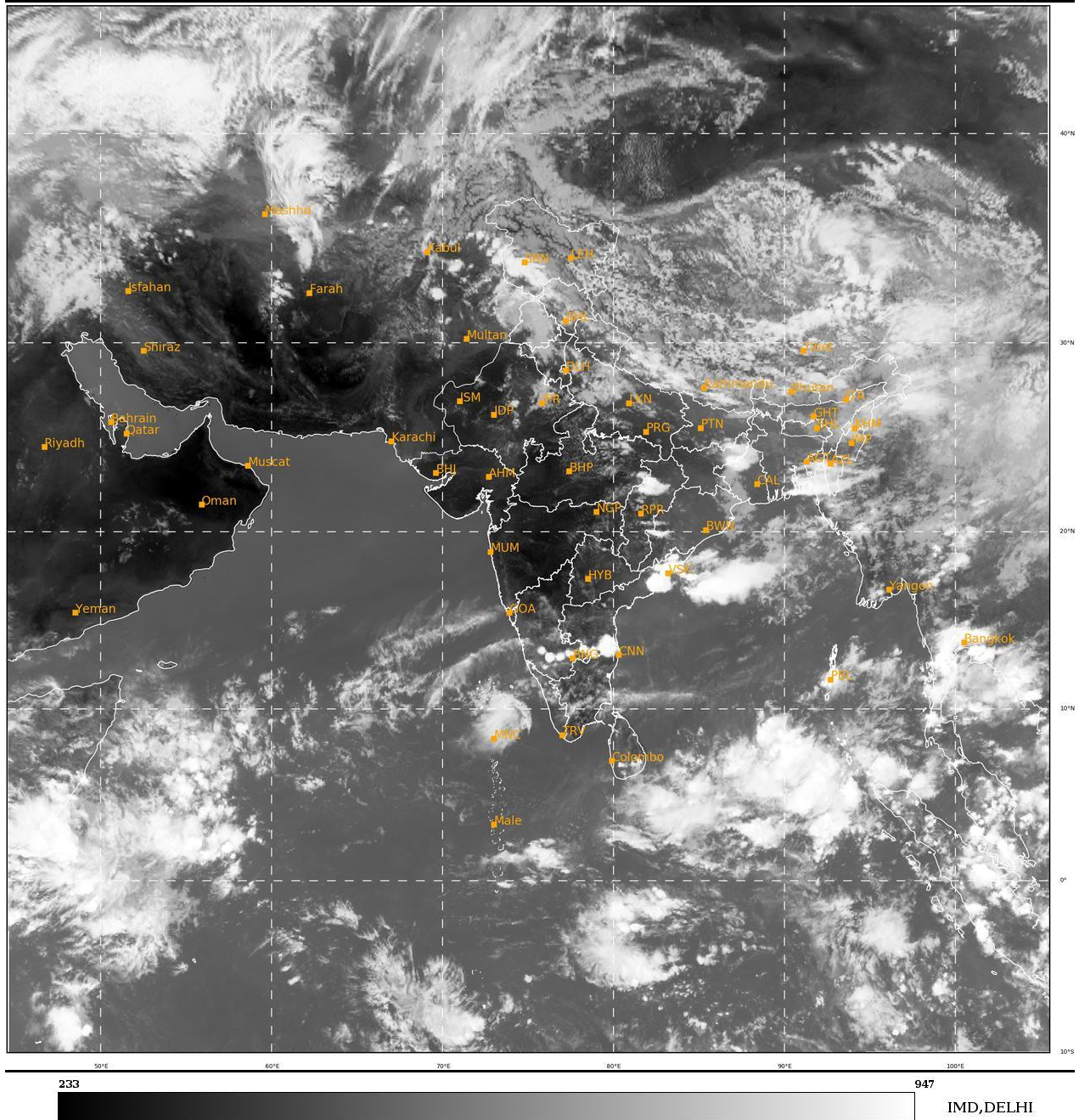


Figure: 1. Latest available satellite picture as on 25 April 2020 at 1427 Hrs (IST). (Source: IMD).

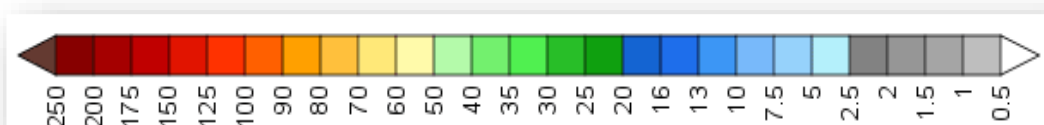
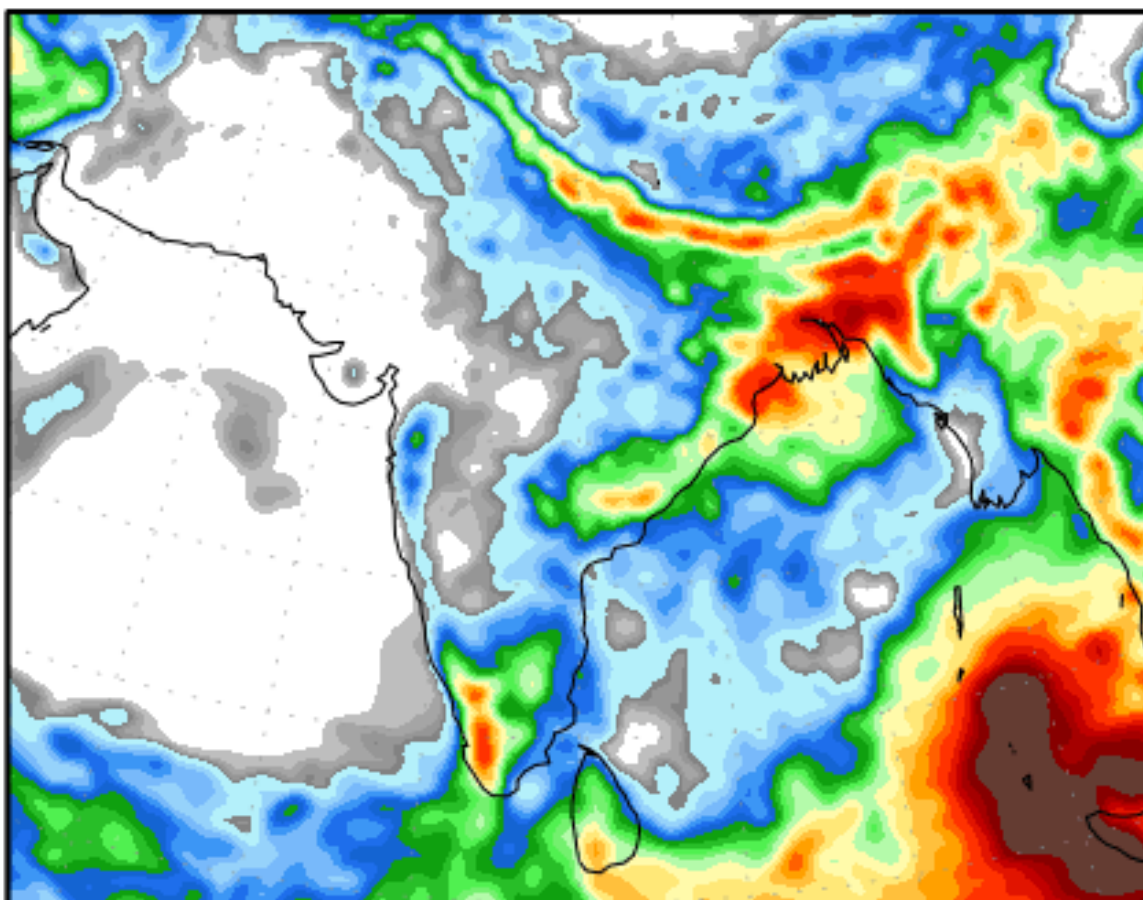


Figure:2. Precipitation forecast for 25 April to 03 May 2020 (Source: NOAA NCEP).

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.