

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 09 November 2021

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Significant Weather Features (IMD)

- Under the influence of the cyclonic circulation over southeast Bay of Bengal & neighbourhood, a low pressure area has formed over the same region. Associated cyclonic circulation extends upto mid-tropospheric levels. It is very likely to concentrate into a Depression over Southwest & adjoining Southeast Bay of Bengal during next 36 hours. It is likely to move west-northwestwards and reach near north Tamilnadu coast by the early morning of 11th November, 2021. Under its influence:
 - i) Fairly widespread to widespread light to moderate rainfall is very likely over Kerala, south Coastal Andhra Pradesh and Tamil Nadu during next 5 days.
 - ii) Isolated heavy to very heavy rainfall with Isolated extremely heavy falls is very likely over Tamil Nadu, Puducherry & Karaikal during 09th-11th and over south Coastal Andhra Pradesh on 11th November. Heavy to very heavy rainfall at isolated places also likely over Kerala & Mahe during 09th-11th; over south Coastal Andhra Pradesh on 10th and over Rayalaseema during 10th-11th November, 2021.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely to prevail over southeast Bay of Bengal on 09th & 10th November, 45-55 kmph gusting to 65 kmph over southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu & south Andhra Pradesh coasts on 10th & 11th November. Fishermen are advised not to venture into southeast Bay of Bengal; southwest Bay of Bengal and adjoining West Central Bay of Bengal and along & off Tamil Nadu & south Andhra Pradesh coasts during 09th- 11th November.
- The Well Marked Low Pressure Area (Remnant of the Depression) over central parts of Arabian Sea with the associated cyclonic circulation extending upto 5.8 km above mean sea level persists. It is likely to move west-southwestwards during next 3 days.
- Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast Arabian sea along & off Kerala coast during next 24 hours. Fishermen are advised not to venture into these areas.

- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at most places over Andaman & Nicobar Islands, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe; at a few places over Lakshadweep and Coastal & South Interior Karnataka and at isolated places over Coastal Andhra Pradesh & Yanam and Rayalaseema.
- Heavy Rainfall recorded (from 0830 hrs IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Kerala & Mahe.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Kerala & Mahe, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 08-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya. They were markedly below normal (-5.1°C or less) at isolated places over Tamilnadu, Puducherry & Karaikal; appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at many places over Bihar and Kerala & Mahe; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Rayalaseema and Andaman & Nicobar Islands; at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Gangetic West Bengal and Interior Karnataka and near normal at rest parts of the country. Yesterday, the maximum temperature 35.5°C was reported at Barmer (West Rajasthan) and Deesa (Gujarat Region).
- Minimum Temperature Departures as on 09-11-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over West Rajasthan and Andaman & Nicobar islands; at isolated places over Himachal Pradesh and Saurashtra & Kutch. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Madhya Maharashtra and Telangana; at isolated places over Gangetic West Bengal, Odisha and East Rajasthan; below normal (-1.6°C to -3.0°C) at most places over Chhattisgarh, Vidarbha and North Interior Karnataka; at many places over Madhya Pradesh, Marathwada and Assam & Meghalaya; at a few places over Konkan & Goa, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Sub-Himalayan West Bengal & Sikkim; at isolated places over East Uttar Pradesh and Bihar and near normal over rest parts of the

country. Today, the lowest minimum temperature of 9.8°C reported at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 09 November (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Heavy to very heavy rainfall at isolated places over Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast Arabian Sea along & off Kerala coast, Southwest & adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh-Tamil Nadu coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 10 November (Day 2): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Tamil Nadu, Puducherry & Karaikal and heavy to very heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Southwest & adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh-Tamil Nadu coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 11 November (Day 3): Heavy to very heavy rainfall at with extremely heavy falls at isolated places very likely over south Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; heavy to very heavy rainfall at isolated places over Rayalaseema and Kerala & Mahe and heavy rainfall at isolated places over South Interior Karnataka. Thunderstorm accompanied with lightning likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Southwest & adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh-Tamil Nadu coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 12 November (Day 4): Heavy rainfall at isolated places likely over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with

lightning likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Bay of Bengal and along & off south Andhra Pradesh-Tamil Nadu coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 13 November (Day 5): Heavy rainfall at isolated places likely over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Andaman & Nicobar Islands. Thunderstorm accompanied with lightning likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- The weather outlook for seven days i.e., 09 Nov to 17 Nov 2021 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)

Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 30.5 to 32.1 Deg C, minimum temperature ranges from 23.2 to 24.4 Deg C. Morning relative humidity ranges from 086% to 097% and afternoon relative humidity ranges from 069% to 078%. Wind speed ranges from 0.7 to 4.8 km/h. Evaporation ranges from 1.3 to 2.4 mm. Sunshine hours range from 0.0 to 4.6 hours. 5 cm morning soil temperature ranges from 24.5 to 26.0 Deg C and afternoon soil temperature ranges from 31.1 to 33.1 Deg C.

Contingency measure:

- General Advisory:- In flood affected areas, thick mud deposition has occurred due to flood water which will destroy the soil structure. Hence lime / dolomite can be applied at a rate of 2 kg / cent after complete draining of flood water to improve soil aggregation. Spraying should be done only on dry/clear weather conditions. When spraying is required during intermittent rains, spraying of pesticides along with stickers will help to keep the chemical in the leaves and it improves its effectiveness. Apply fertilizers when the water is drained out completely from the field.

- Rice (Mundakan): Tillering stage: Bacterial Leaf blight To control and prevent Bacterial Leaf blight in paddy, dissolve 20 g of cow dung in one litre of water and spray the supernatant liquid by mixing with 20g of pseudomonas in one litre of water. Leaf folder- There is a chance of Leaf folder attack in Mundakan Paddy. It can be controlled by using trichogramma cards (2CC per one acre). Cut the cards in to small pieces and fix in different regions of the field. If the attack is severe, spray quinalphos @ 2ml per one litre of water. Rice case worm- During rainy season, there is a chance of rice case worm in paddy field. To control this 25 kg sawdust or rice husk ash mixed with one litre kerosene (for 1 acre) can be spread after draining the field.
- Coconut: Bud rot: To control the Bud rot in coconut, chisel out the affected area and apply 10% Bordeaux paste. Care should be taken to protect the affected area from heavy rain. Nutmeg- Leaf fall- As a precautionary measure to manage leaf fall during rainy season, spray 1% bordeaux mixture.
- Pepper: Foot rot: As a prophylactic measure to manage foot rot during rainy season, add 2 kg Trichoderma to a mixture of 90 kg FYM & 10 kg Neem cake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to each matured vine to control foot rot of pepper.
- Turmeric: Leaf Blotch (*Taphrina maculans*) & Ginger- *Phyllosticta* leaf spot- Due to high relative humidity, there is a chance of diseases. Remove and destroying disease affected plants. As a prophylactic measure, spray 2ml hexaconazole (Contaf) or 1 ml Propiconazole (Tilt) or 2 gram SAAF or 2.5 g copper oxychloride (Blitox or Blue copper) or 2 g copper hydroxide dissolved in one litre of water. Otherwise 1% Bordeaux mixture can be sprayed. Spraying can be continued at fortnightly intervals depending upon the intensity of the disease.
- Cucurbitaceous Vegetables: Downy mildew- Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. Spray 2.5gm Mancozeb per one litre of water under the leaves.
- Animal Husbandry: Deworm the animals after dung examination. Vaccinate animals against foot and mouth disease.

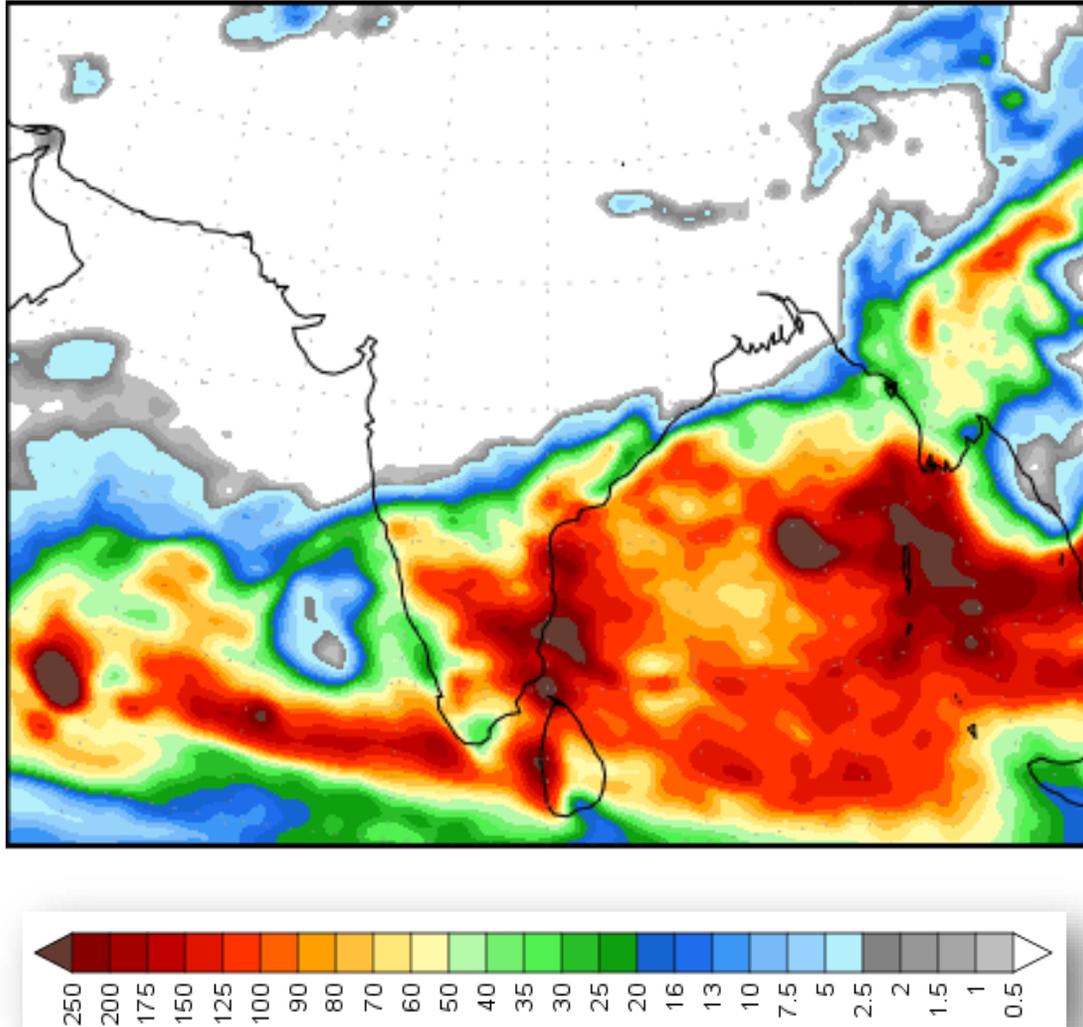


Figure:2. Precipitation forecast for 09 Nov to 17 Nov 2021 (Source: NOAA NCEP).

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