

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 06 December 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low Pressure Area (Remnant of Cyclonic Storm 'JAWAD') lies over northwest Bay of Bengal and adjoining West Bengal-Bangladesh coasts. Under its influence, heavy to very heavy rainfall at isolated places over Tripura and heavy rainfall at isolated places over south Assam & Meghalaya, Manipur and Mizoram during next 24 hours.
- A Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 70°E to the north of Lat. 30°N. i) It is likely to cause isolated to scattered light rainfall/snowfall over Jammu- Kashmir- Ladakh- Gilgit- Baltistan- Muzaffarabad, Himachal Pradesh and Uttarakhand during next 24 hours. ii) Light isolated rainfall very likely over Uttar Pradesh on today, the 06th December. iii) Fall in minimum temperatures by 3-5°C over Gujarat State, Northwest, Central and East India during next 3 days.
- A fresh Western Disturbance likely to affect Western Himalayan Region from 08th December, 2021. Under its influence, isolated light rainfall/snowfall over Jammu- Kashmir- Ladakh- Gilgit- Baltistan- Muzaffarabad and Himachal Pradesh on 08th & 09th December.
- Isolated to scattered light to moderate rainfall over Coastal Andhra Pradesh, Tamilnadu and Kerala on 08th & 09th with isolated heavy falls over Tamilnadu
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Odisha and Gangetic West Bengal; at a few places over Nagaland, Manipur, Mizoram & Tripura, and at isolated places over Punjab, Haryana, Rajasthan, West Uttar Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh and Tamilnadu, Puducherry & Karaikal.
- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall with extremely heavy falls at isolated places over

Odisha; at isolated places over Odisha and very heavy rainfall at isolated places over Gangetic West Bengal and Tamilnadu.

- Fog observed (at 0530-0830 hrs IST of today): Dense fog in isolated pockets over Himachal Pradesh and Madhya Maharashtra and Shallow to moderate fog in isolated pockets over Punjab, Uttar Pradesh, northwest Madhya Pradesh Assam & Meghalaya, Tripura and Tamil Nadu.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at most places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Odisha, Gangetic West Bengal and Kerala & Mahe and at isolated places over Haryana, Chandigarh & Delhi, Punjab, West Uttar Pradesh, Rajasthan, Tamil Nadu, Coastal Andhra Pradesh, Assam & Meghalaya and Manipur.
- Minimum Temperature Departures (as on 06-12-2021): Minimum temperatures are markedly above normal (5.1°C or more) at most places over Bihar, Jharkhand and Chhattisgarh; at a few places over Punjab, Uttar Pradesh and at isolated places over West Rajasthan, Madhya Pradesh, Gangetic West Bengal and Odisha; appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand, East Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Rajasthan, Gujarat State, Sub-Himalayan West Bengal & Sikkim, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Vidarbha, Tamil Nadu, Puducherry & Karaikal and Rayalaseema; above normal (1.6°C to 3.0°C) at a few places over Madhya Maharashtra, Kerala & Mahe and Interior Karnataka. They are below normal (-1.6°C to -3.0°C) at many places over Konkan & Goa and near normal over rest parts of the country. Today, the Lowest minimum temperature of 10.2°C reported at Hissar (Haryana) over the plains of the country.
- Maximum Temperature Departures (as on 05-12-2021): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya, Arunachal Pradesh and Tamil Nadu, Puducherry & Karaikal; at isolated places over Telangana and Coastal Andhra Pradesh; above normal (1.6°C to 3.0°C) at many places over Bihar; a few places over East Madhya Pradesh and Kerala & Mahe; at isolated places over Punjab, East Uttar Pradesh, Vidharbha and Interior Karnataka. They were markedly below normal (-5.1°C or less $^{\circ}\text{C}$) at many places over Gangetic West Bengal and Odisha; appreciably below normal (-3.1°C to -5.0°C) at many places over Madhya Maharashtra; a few places over Coastal

Karnataka and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and below normal (-1.6°C to -3.0°C) at many places over Konkan & Goa; at a few places over Gujarat State and at isolated places over East Rajasthan & West Madhya Pradesh and near normal at rest parts of the country. Today, the highest maximum temperature of 34.6°C was reported at Punalur (Kerala & Mahe).

Weather Warning during the next 5 days (IMD)

- 06 December (Day 1): Heavy to very heavy rainfall very likely at isolated places over Tripura and heavy rainfall at isolated places over south Assam & Meghalaya, Manipur, Mizoram, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 07 December (Day 2): Thunderstorm accompanied with lightning very likely at isolated places over Kerala & Mahe. Dense fog very likely in isolated pockets over Assam & Meghalaya and Nagaland.
- 08 December (Day 3): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. Dense fog very likely in isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 09 December (Day 4): Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Coastal Andhra Pradesh & Yanam. Dense fog likely in isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 10 December (Day 5): Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 06 Dec to 14 Dec 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:

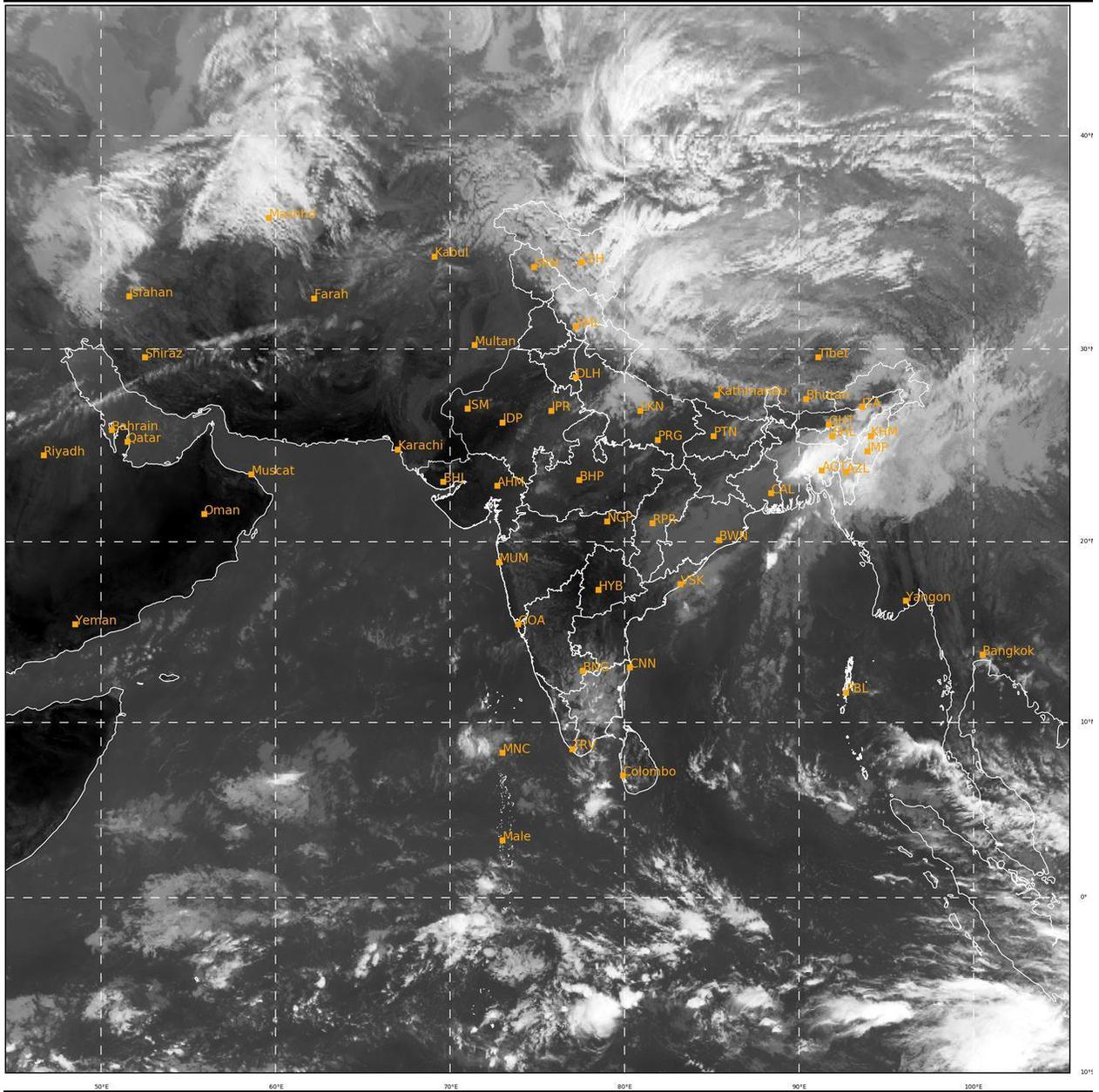
In Vellanikkara, the maximum temperature ranges from 29.0 to 33.3 Deg C, minimum temperature ranges from 22.8 to 25.2 Deg C. Morning relative humidity ranges from 076% to 095% and afternoon relative humidity ranges from 058% to 069%. Wind speed ranges from 2.7 to 7.0 km/h. Evaporation ranges from 2.0 to 3.5 mm. Sunshine hours range from 0.0 to 9.5 hours. 5 cm morning soil temperature ranges from 24.8 to 26.0 Deg C and afternoon soil temperature ranges from 27.5 to 35.4 Deg C.

Contingency measure:

- Mundakan Rice in Panicle initiation- Brown Plant Hopper (BPH)- During cloudy weather condition, there is a chance of Brown plant hopper attack in rice. Spray Imidacloprid 3 ml per ten litre of water or Thiamethoxam 2 gram per ten litre of water.
- 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.
- Vegetables- Chilli- Anthracnose disease- During rainy season, there is a chance of Anthracnose disease in chilli. As a prophylactic measure, apply 1% Bordeaux mixture or spray pseudomonas 20 gm per litre.
- Animal Husbandry: Take precautions to avoid ecto parasitic infestation. If fever, shivering, brown colored urine, off feed etc. are noticed, consult veterinary doctor immediately.

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

06-12-2021/(0800 to 0827) GMT
06-12-2021/(1330 to 1357) IST



408

924

IMD,DELHI

Figure: 1. Latest available satellite picture as on 06 Dec 2021 at 1357 Hrs (IST). (Source: IMD).

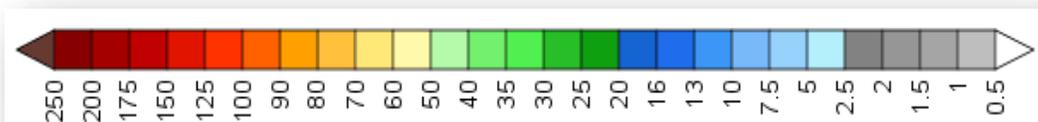
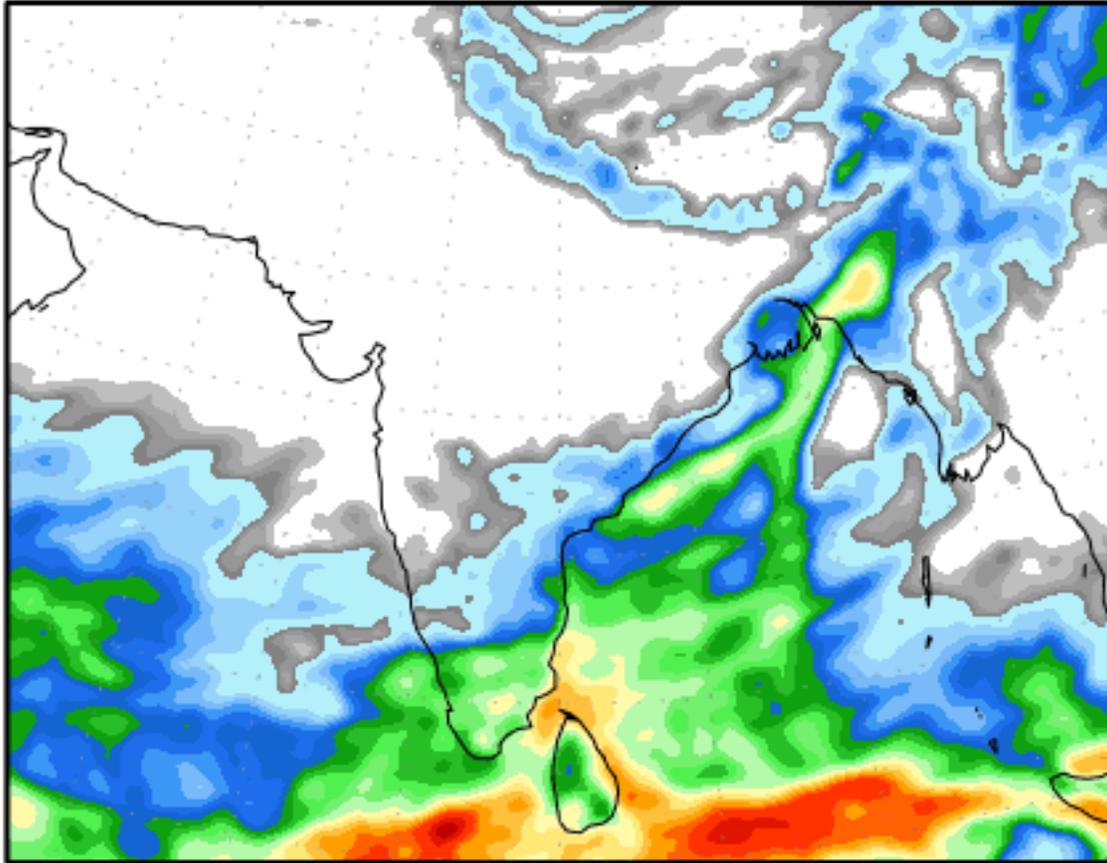


Figure:2. Precipitation forecast for 06 Dec to 14 Dec 2021 (Source: NOAA NCEP).

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