

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 22 November 2021

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Significant Weather Features (IMD)

- A cyclonic circulation lies over Southeast Bay of Bengal & neighbourhood in lower tropospheric levels. It is very likely to move westnorthwestwards towards Tamilnadu coast during next 4-5 days.
- A trough runs from the cyclonic circulation Southeast Bay of Bengal & neighbourhood to Tamilnadu coast in lower tropospheric levels.
- Forecast and warning:
- Light to moderate scattered/fairly widespread rainfall over Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during next 5 days. Isolated heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal during next 5 days and over Kerala & Mahe on 25th & 26th November. Isolated very heavy rainfall also very likely over Tamil Nadu, Puducherry & Karaikal on 25th & 26th November.
- Cold wave conditions in isolated pockets very likely over Punjab, Haryana and north Rajasthan during next 2 days and abate thereafter.
- 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 many places over Interior Karnataka; at a few places over Andaman & Nicobar Islands, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, Kerala & Mahe and Lakshadweep and at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Gujarat Region, Konkan & Goa, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Heavy Rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy rainfall at isolated places over East Madhya Pradesh, Chhattisgarh and Coastal Andhra Pradesh & Yanam.

- Fog observed (at 0830 hours IST of today): Dense to moderate fog in isolated pockets over Sub-Himalayan West Bengal & Sikkim and Shallow fog at isolated pockets over Jammu & Kashmir.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Chhattisgarh.
- Minimum Temperature Departures as on 22-11-2021: Minimum temperatures are markedly above normal (5.1°C or more) at most places over Gujarat state, Marathwada and Vidarbha; at many places over Madhya Pradesh, Madhya Maharashtra and Odisha and at a few places over Telangana, Chhattisgarh and Jharkhand; appreciably above normal (3.1°C to 5.0°C) at many places over Rayalaseema and Coastal Andhra Pradesh & Yanam; at a few places over East Rajasthan and Gangetic West Bengal and at isolated places over East Uttar Pradesh, Konkan & Goa, Tamilnadu, Puducherry & Karaikal, Assam & Meghalaya and Andaman & Nicobar Islands; above normal (1.6°C to 3.0°C) at Bihar, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Interior Karnataka and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Haryana, Chandigarh & Delhi and West Uttar Pradesh. They are below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and near normal over rest parts of the country. Today, the Lowest minimum temperature of 5.5°C reported at Churu (West Rajasthan) over the plains of the country.
- Maximum Temperature Departures as on 21-11-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Odisha and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at Himachal Pradesh, Uttarakhand, Vidarbha, Chhattisgarh and Jharkhand and at isolated places over Saurashtra & Kutch, Madhya Pradesh, Telangana and Gangetic West Bengal. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Madhya Maharashtra and Coastal Karnataka and at isolated places over East Rajasthan and North Interior Karnataka and below normal (-1.6°C to -3.0°C) at a few places over Haryana, Chandigarh & Delhi and Konkan & Goa and at isolated places over West Rajasthan, East Uttar Pradesh, Marathwada, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Sub-Himalayan West Bengal & Sikkim and near normal at rest parts of the country. Yesterday, the highest maximum temperature 35.8°C was reported at Mahuva (Saurashtra & Kutch).

Weather Warning during the next 5 days (IMD)

- 22 November (Day 1): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Arunachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Rayalaseema. Cold waves in isolated pockets very likely over Punjab, Haryana and north Rajasthan. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Westcentral and adjoining Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 23 November (Day 2): Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Arunachal Pradesh, Konkan & Goa and Madhya Maharashtra. Cold waves in isolated pockets very likely over Punjab, Haryana and north Rajasthan.
- 24 November (Day 3): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands. Thunderstorm accompanied with lightning very likely at isolated places over Konkan & Goa, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 25 November (Day 4): Heavy to very heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Andaman & Nicobar Islands Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 26 November (Day 5): Heavy to very heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over south Coastal Andhra Pradesh, Rayalaseema and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Rayalaseema and Kerala & Mahe.
- The weather outlook for seven days i.e., 22 Nov to 30 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)

West Bengal

Weather condition:

Weather conditions during the 46th week at Mohanpur, West Bengal: Maximum temperature: 22.0 to 28.0 0C, Minimum temperature: 16.0 to 22.8 0C, bright sun shine hours: 0.0 to 8.4 hours, Morning-time relative Humidity: 85 to 96 %, after noon-time R.H: 54 to 94 %, weekly total pan evaporation: 8.6 mm, total weekly rainfall: 20.7 mm and average daily wind speed is 0.24 km/h.

Contingency measure:

- Rice: After last two to three days depression rainfall , already harvested rice should be dried in the field for 2-3 days and thereafter threshing should be done. Grains should be properly dried to right moisture level. No need to store right now and sell it through Krisak Mundi as early as possible.;
- Lentil: Present weather conditions are suitable for sowing of lentil, gram, field pea, khesari , arhar etc after harvesting of prekharif and kharif rice.
- Lentil : seed rate 4 kg per bigha ,bengal Gram : seed rate 8 kg per bigha , field pea : seed rate 8 kg per bigha, khesari : seed rate 8 kg per per bigha. Seeds should be mixed with Rhizobium culture @200 g per bigha. Pulse may be sown as Paira crop with the help of residual moisture of paddy field or may be sown as mixed crop with mustard, linseed ,wheat etc.;
- Potato: Complete planting of potato in between 15th to 24th Nov. N:P:K dose 150 :150 : 150 kg / ha may give the good result. The crop matures in 80-90 days. Medium high land , sandy loam to loamy soil , slightly acidic to neutral ph is ideal for potato cultivation. One deep ploughing, 2-3 cross & shallow ploughing make the soil well pulverized , loose , & friable with good tilth . 10- 15 ton well rotten organic manure must be mixed during first ploughing . Apply phorate 10 G @ 15 Kg/ha to control soil borne insect.;
- Cauliflower: This weather is favourable for sowing of cabbage, cauliflower, tomato, chilly and brinjal. Make the soil loose & friable before sowing the seed.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

22-11-2021/(0800 to 0827) GMT
22-11-2021/(1330 to 1357) IST

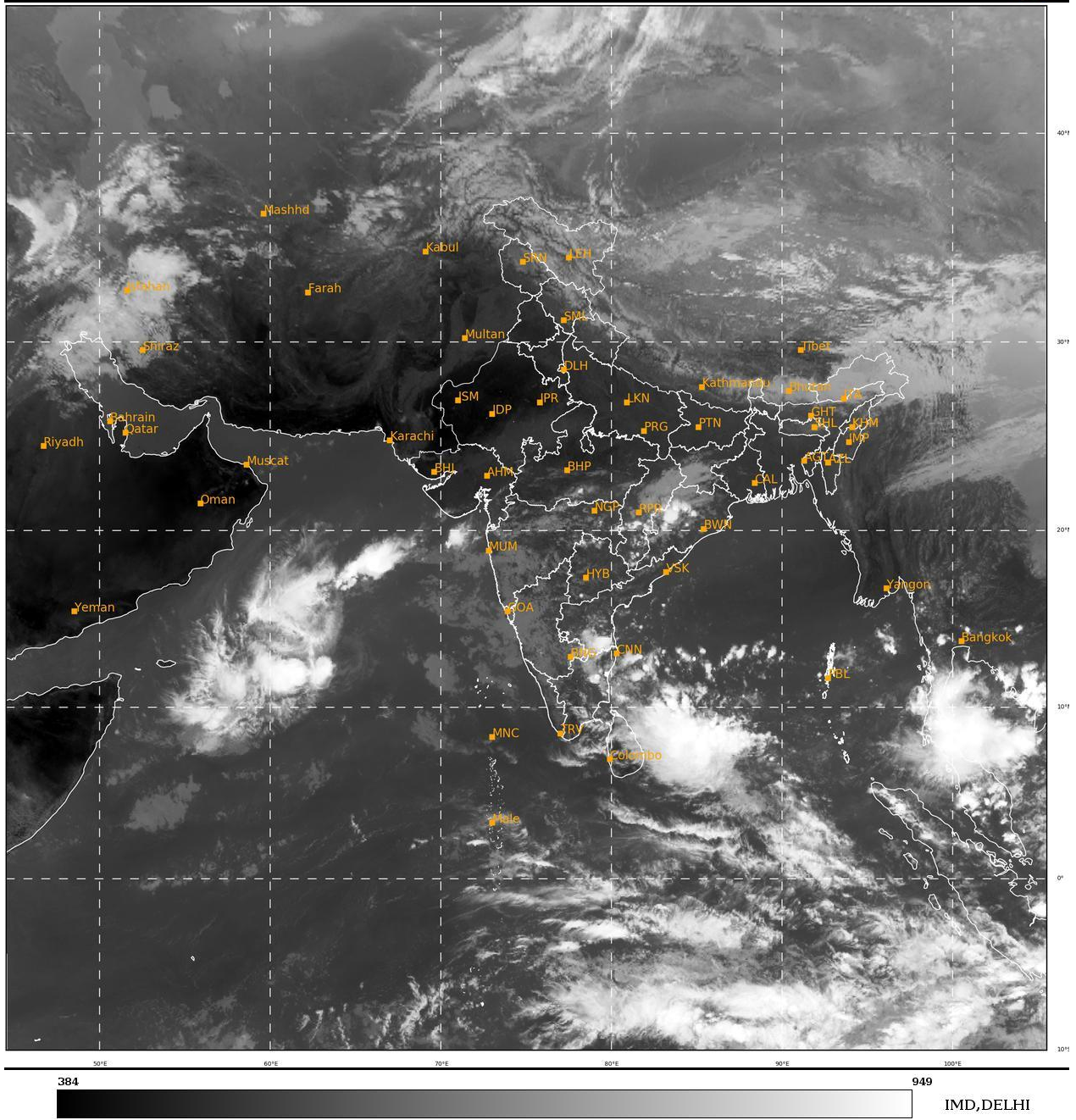


Figure: 1. Latest available satellite picture as on 22 Nov 2021 at 1357 Hrs (IST). (Source: IMD).

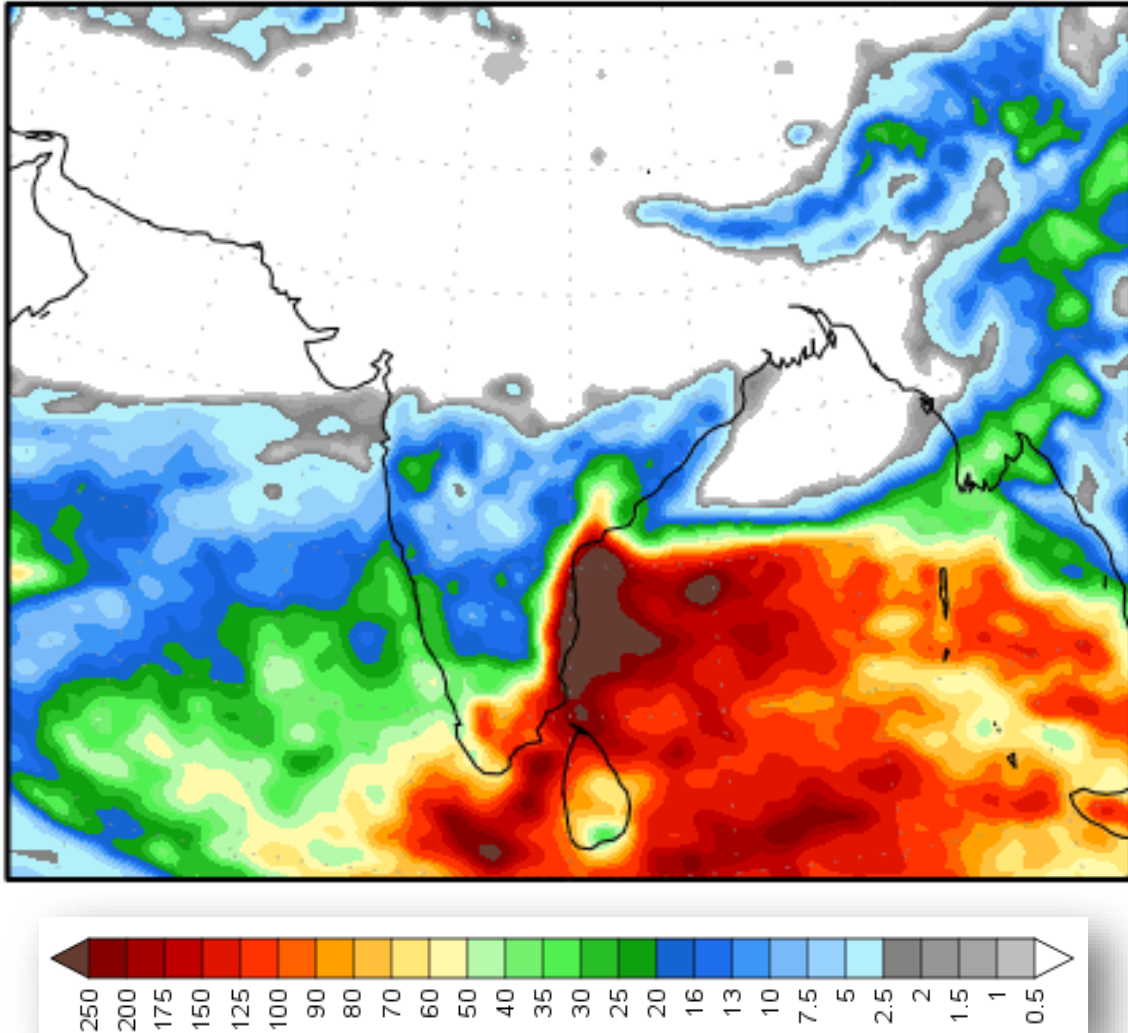


Figure:2. Precipitation forecast for 22 Nov to 30 Nov 2021 (Source: NOAA NCEP).

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