

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area over southeast Bay of Bengal lay as a Well Marked Low Pressure Area over southeast and adjoining southwest Bay of Bengal at 0530 hrs IST of today the 10th November. It lay over central parts of south Bay of Bengal at 0830 hrs IST. It is likely to concentrate into a Depression over Southwest Bay of Bengal during next 12 hours, move west- northwestwards and reach near north Tamilnadu coast by the early morning of 11th November, 2021. Thereafter, it is likely to continue to move west-northwestwards and cross north Tamil Nadu & adjoining south Andhra Pradesh coast between Karaikal & Sriharikota around Cuddalore by the evening of 11th November 2021.
- Rainfall warning:
 - i) 10th November: Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places & extremely heavy falls at isolated places very likely over north coastal Tamil Nadu, north interior Tamil Nadu and south coastal Andhra Pradesh and heavy to very heavy rainfall at isolated places over Rayalaseema.
 - ii) 11th November: Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places & extremely heavy falls at isolated places very likely over north coastal Tamil Nadu, north interior Tamil Nadu, south coastal Andhra Pradesh and Rayalaseema. Heavy to very Heavy rainfall at isolated places over South Interior Karnataka.
- Wind warning: Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail over southwest & adjoining westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts during 10th -11th November.
- Fishermen Warning: Fishermen are advised not to venture into southwest & adjoining west-central Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts during 10th-11th November.
- 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 Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands; at a few places over Kerala & Mahe and Lakshadweep and at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and South Interior Karnataka.
- Heavy Rainfall observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): Extremely heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 1730 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 09-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Assam & Meghalaya and at isolated places over West Bengal & Sikkim, West Rajasthan and Nagaland, Manipur, Mizoram & Tripura. 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 a few places over Kerala & Mahe and at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over East Uttar Pradesh, Telangana and Rayalaseema and at isolated places over West Madhya Pradesh, Bihar and Andaman & Nicobar Islands and near normal at rest parts of the country. Yesterday, the maximum temperature 37.0°C was reported at Bhuj (Saurashtra & Kutch).
- Minimum Temperature Departures as on 10-11-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over West Rajasthan, South Interior Karnataka and Andaman & Nicobar Islands and Saurashtra & Kutch. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Vidarbha; at a few places over Marathwada and at isolated places over Madhya Maharashtra, Telangana, Odisha and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at a few places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Konkan & Goa, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Bihar, West Bengal & Sikkim and Assam & Meghalaya and near normal over rest parts of the country. Today, the lowest minimum temperature of 10.0°C reported at Sikar (East Rajasthan) and Raisen and Mandla (Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 10 November (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over north coastal & north Interior Tamil Nadu and south Coastal Andhra Pradesh; Heavy to very heavy rainfall at isolated places over Rayalaseema and Heavy rainfall at isolated places over South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka. Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail over southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts; Sea condition will be rough to very rough over southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu & south Andhra Pradesh coasts. Fishermen are advised not to venture into southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts.
- 11 November (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over north coastal Tamil Nadu, north interior Tamil Nadu, south coastal Andhra Pradesh and Rayalaseema; Heavy to very heavy rainfall at isolated places over South Interior Karnataka and Heavy rainfall at isolated places over Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka. Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail over southwest & adjoining Westcentral Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts; Sea condition will be rough to very rough over southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu & south Andhra Pradesh coasts. Fishermen are advised not to venture into southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts.
- 12 November (Day 3): Heavy rainfall at isolated places very likely over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Odisha, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam,

Telangana, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

- 13 November (Day 4): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind(speed 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) likely over south Andaman sea. Fishermen are advised not to venture into these areas.
- 14 November (Day 5): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind(speed 30-40 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) likely over south Andaman sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 10 Nov to 18 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)

Jharkhand

Weather condition:

Atmospheric temperature is decreased during morning and evening time. Maximum and minimum temperature range between 28.4 to 30.5 °C and 17.4 to 20.4°C respectively. Maximum and minimum actual average temperatures are 29.8 °C and 19.0 °C, whereas normal maximum and minimum temperature are 28.5 °C and 17.4°C respectively.

Contingency measure:

- General: Next few days weather will be clear. Hence, farmers may proceed for the cultivation of different matured crops and threshing may be done after drying in the sun. After harvesting, the field must be ploughed in presence of optimum soil moisture and sow different rabi crops pulses (gram, lentil, field pea etc.), oil seeds (mustard, linseed), potato, table pea, heat (rainfed) or various

vegetables, id having assured irrigation facility. Selection of crop must be based on amount & frequency of irrigation. Seeds of pulse crop must be treated with Rhizobium culture before seeding. To conserve soil moisture, inter-culture operations must be performed in already sown crop field like potato, table pea, rapeseed & mustard etc.

- Rice: Harvest the matured crops and try to store the grain after threshing and drying immediately. During harvesting, pick the black ear head (affected ear head with false smut disease) and destroy them after burning. At present in some pockets crops are attacked by Brown plant hopper. To control the insects immediately spray the insecticide Buprofejin 25 EC @ 1.5 ml per liter of water and again after 8-10 days later spray the insecticide Fifronil 5 SC @ 2 ml per liter of water.
- Wheat: Farmers wishing to cultivate Rainfed wheat may arrange improved seed and fertilizer & manures and start sowing. Select one of the recommended varieties like K-1317, HD-3171, HI- 1612, Birsa gehun-3 etc. 40 kg seeds, 80 kg Urea, 75 kg SSP and 15 kg Muriate of Potash are required for cultivation in one acre. Sow the seed in line at a distance of 20 cm (Row to row) and 7-8 cm. (Plant to plant).
- Mustard: Farmers who wish to cultivate mustard crop, may start sowing after preparation of the field and Select the improved variety of seed, recommended for this region like Shiwani, Pusa Bold, Pusa mustard etc. 3 kg seeds and 70 kg Urea, 130 kg SSP and 25 kg Muriate of Potash are required for cultivation in one acre. Sow the seed in line at a distance of 30 cm (Row to row) and 10 cm. (Plant to plant).
- Chick Pea: Farmers wishing to cultivate chickpea (gram) crop, may start sowing after field preparation. The recommended varieties for Deshi (indigenous) gram are Pusa-372, KWR108, KGP-59, Birsa chana-3 and for Kabuli variety are H.K.-9431, Kak-2 etc. 30 kg seeds for deshi variety and 40 kg seeds for Kabuli type varieties are required for cultivation in one acre. Seed may be sown in line at a distance of 30 cm (Row to row) and 10 cm. (Plant to plant). Before seeding, the seeds must be treated with Rhizobium culture.
- Field Pea: Farmers wishing to cultivate field pea crop, may start sowing after field preparation. Select one of the recommended varieties of pea for this region are H.U.D.P.-15, Dantewada matar-1, V.L. 42 etc. 40 kg seeds are required for sowing in 1 acre. Seed may be sown in line at a distance of 30 cm (Row to row) and 15 cm. (Plant to plant). Before seeding, the seeds must be treated with Rhizobium culture.

- Lentil: Farmers wishing to cultivate lentil crop, may start sowing after field preparation Recommended varieties of lentil are H.U. L.- 57, W.B.L.-77, K.L.S.- 218 etc. 12kg seeds are required for cultivation in one acre. Seed may be sown in line at a distance of 25 cm (Row to row) and 8 cm. (Plant to plant). Before seeding, the seeds must be treated with Rhizobium culture.
- Linseed: Farmers wishing to cultivate linseed crop may start sowing. Recommended varieties for this region are Divya, Priyam, Surbhi etc. 8 kg seeds are required for cultivation in one acre. Sow the seed at a distance of 30 cm (Row to row) and 10 cm (Plant to plant).
- Potato: Farmers having assured irrigation facility and wish to cultivate potato may utilize available soil moisture in land preparation and plant recommended varieties (Kufri Ashoka, Kufri Pukhraj, Kufri Kanchan, Kufri Pushkar, Kufri Lalima etc.) at a distance of 40-50 cm (row to row) and 15 cm (between 2 tubers) after possible rain during next 4 days. 12 quintal seeds (germinated tubers of 20-30 gram each), 40 kg Urea, 70 kg D.A.P., 80 kg Muriate of Potash and 10 kg Sulphur are required for cultivation in 1 acre.
- Vegetable Pea: Farmers wish to cultivate table pea may utilize present soil moisture in land preparation and select one of the recommended variety Arkel, Azad pea, Pusa Pragati, Kashi Nandini, P.M.- 113 etc. Sow the seed at a distance of 25 cm (row to row) and 15 cm (plant to plant. 40 kg seeds, 35 kg Urea, 200 kg S.S.P., 25 kg Muriate of Potash are required for cultivation in 1 acre.

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

10-11-2021/(0800 to 0826) GMT
10-11-2021/(1330 to 1356) IST

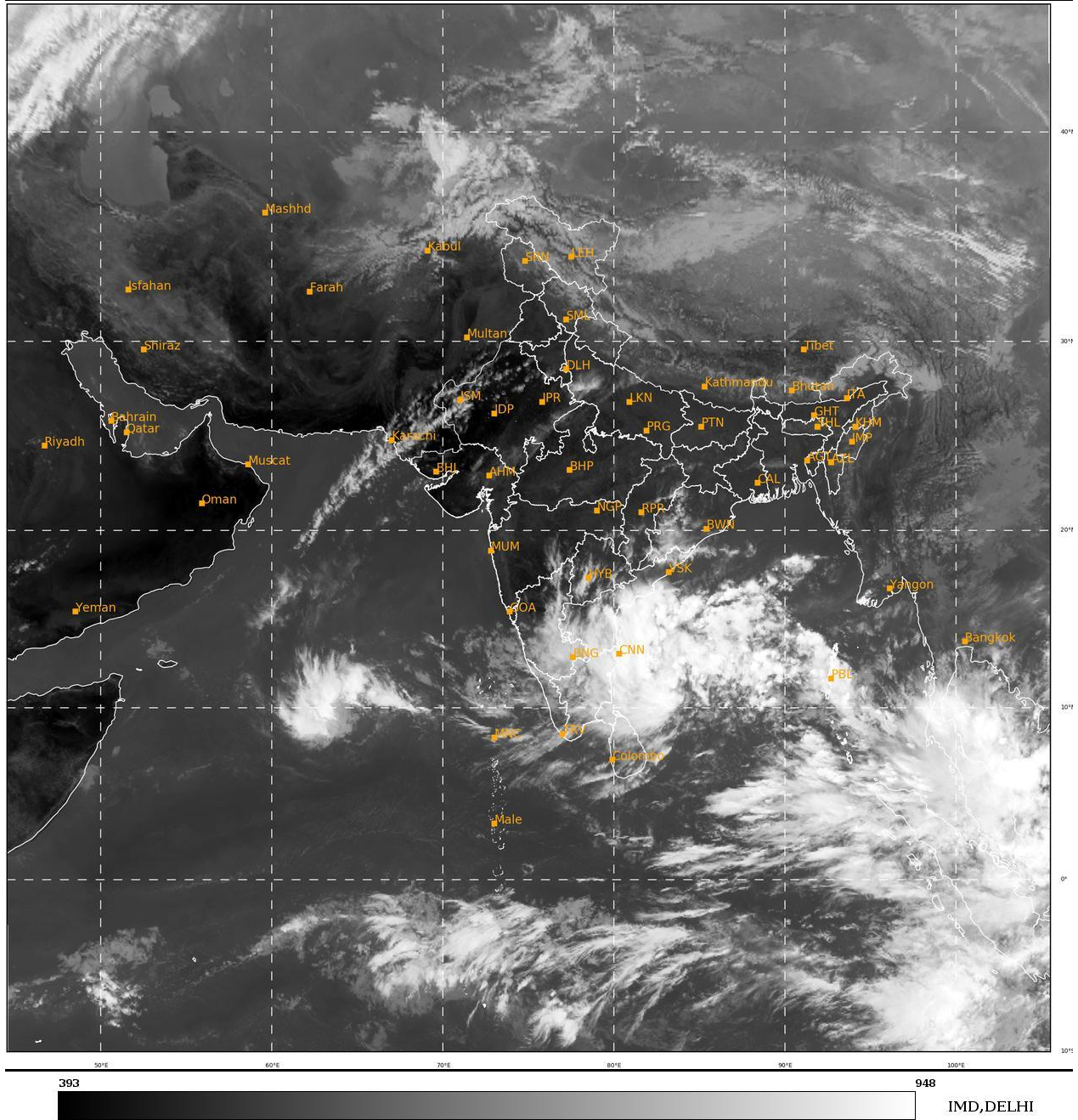


Figure: 1. Latest available satellite picture as on 10 Nov 2021 at 1356 Hrs (IST). (Source: IMD).

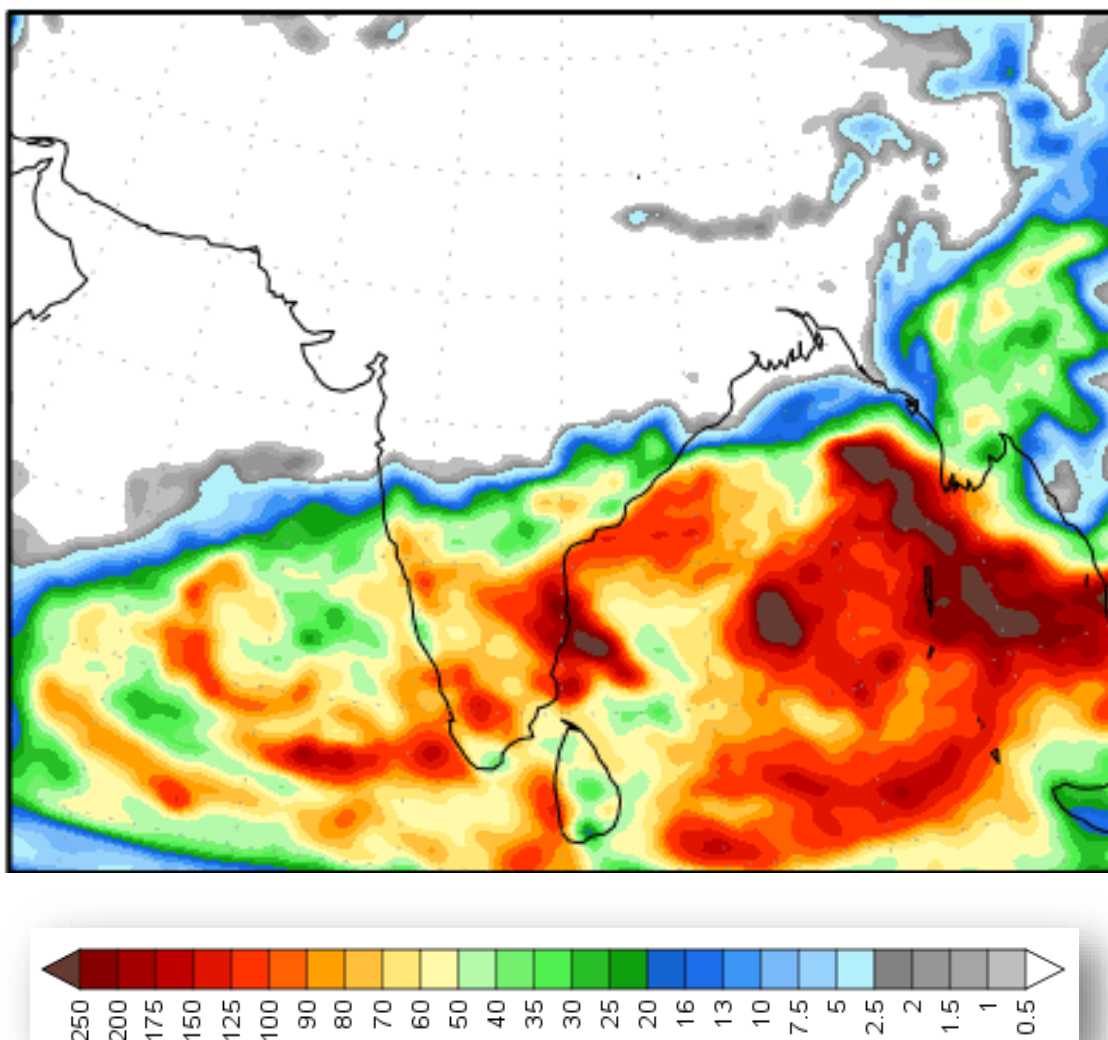


Figure:2. Precipitation forecast for 10 Nov to 18 Nov 2021 (Source: NOAA NCEP).

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