

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 21 October 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Southwest monsoon withdrawal line continues to pass through Lat. 27.0°N/Long. 92.0°E, Kohima, Silchar, Krishnanagar, Baripada, Malkangiri, Nalgonda, Bagalkote, Vengurla, Lat. 16.0°N/Long. 65.0°E and Lat. 16.0°N/Long. 60.0°E. Conditions are becoming favourable for further withdrawal of Southwest Monsoon from remaining parts of Northeast India; entire north Bay of Bengal; remaining parts of West Bengal; some parts of Central Bay of Bengal; remaining parts of Odisha; some parts of Andhra Pradesh; some more parts of Telangana; entire Goa; some more parts of Karnataka and some more parts of Central Arabian Sea around 23rd October.
- With likely setting in of northeasterly winds in the lower tropospheric levels over Bay of Bengal and extreme south Peninsular India, the Southwest Monsoon is likely to withdraw from entire country around 26th October, 2021. Simultaneously, the Northeast Monsoon rains are also likely to commence over Southeast Peninsular India from around 26th October, 2021.
- A cyclonic circulation lies over Comorin area & neighbourhood and a trough runs from the cyclonic circulation to Eastcentral Arabian sea off Karnataka coast in Lower tropospheric levels. Under its influence, fairly widespread to wide spread rainfall with isolated heavy falls with thunderstorm & lightning very likely over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal during 21st-25th and over Coastal & South Interior Karnataka on 21st October. Isolated very heavy falls also very likely over Kerala & Mahe on 21st October.
- A fresh Western Disturbance is likely to affect Western Himalayan Region especially Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh during 22nd-24th October and adjoining plains of Northwest India during 23rd-24th October, 2021. Isolated heavy rainfall with thunderstorm, lightning, gusty wind & hailstorm likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Punjab on 23rd October, 2021.
- 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 hrs IST today): at most places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe; at a many places over Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal; at a few places over Bihar, Gangetic West Bengal, Coastal Karnataka and Lakshadweep and at isolated places over Uttarakhand, East Uttar Pradesh, Chhattisgarh, Jharkhand, Odisha, Coastal Andhra Pradesh, Telangana and North Interior Karnataka.
- Heavy rainfall recorded (from 0830 hrs IST of yesterday to 0830 hrs IST today): Very Heavy rainfall at isolated places over Kerala & Mahe, Assam & Meghalaya and Sub-Himalayan and Heavy Rainfall at isolated places over South Interior Karnataka, Tamilnadu, Rayalaseema, Nagaland and Arunachal Pradesh.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over Bihar, Sub-Himalayan West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Assam & Meghalaya, Tripura and Tamil Nadu.
- Maximum Temperature Departures as on 20-10-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan Muzaffarabad, Himachal Pradesh, Punjab, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam and at isolated places over Rayalaseema. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Bihar and at isolated places over East Uttar Pradesh, West Madhya Pradesh and Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh, Gujarat Region and Gangetic West Bengal and at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Odisha and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.3°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 21-10-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Uttarakhand, West Rajasthan, Coastal Andhra Pradesh & Yanam and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over South Interior Karnataka and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands and at isolated places over

Punjab, East Rajasthan, East Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra, Chhattisgarh, Odisha, Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at a few places over Haryana, Chandigarh & Delhi and at isolated places over Saurashtra & Kutch, West Madhya Pradesh, Vidarbha and Marathwada and near normal over rest parts of the country. Today, the lowest minimum temperature of 12.8°C was reported at Hissar (Haryana) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 21 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over Kerala & Mahe and heavy rainfall at isolated places over Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (wind speed reaching 40-50 kmph) very likely over Southeast Arabian sea along & off Kerala-Karnataka coasts, Lakshadweep area, Gulf of Mannar, Comorin area. Fishermen are advised not to venture into these areas.
- 22 October (Day 2): Heavy rainfall very likely at isolated places over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 23 October (Day 3): Heavy rainfall/snowfall very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Himachal Pradesh and Heavy rainfall likely over north Punjab, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning, hail & gusty winds (speed 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Punjab; with lightning & gusty winds (speed 40-50 kmph) at isolated places over West Rajasthan; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Haryana, Chandigarh; with lightning at isolated places over South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 24 October (Day 4): Heavy rainfall likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty wind (speed 30-40 kmph) likely at isolated places over West Rajasthan and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan,

Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

- 25 October (Day 5): Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- The weather outlook for seven days i.e., 21 Oct to 29 Oct 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 42nd week at Mohanpur, West Bengal: Maximum temperature: 26.6 to 35.0 0C, Minimum temperature: 24.0 to 25.2 0C, bright sun shine hours: 0.0 to 8.8 hours, Morning-time relative Humidity: 95 to 100 %, after noon-time R.H: 70 to 100%, weekly total pan evaporation: 10.5 mm, total weekly rainfall: 95.9 mm and average daily wind speed varying between 0.42 km/h.

Contingency measure:

- Rice: There is need for continuous surveillance. Present weather condition is congenial for Brown Plant Hopper. If infestation crosses ETL, apply imidacloprid 17.8 sl @ 1ml per litre of water. To manage sheath blight, Benomyl may be used. Apply plant protection measures under clear weather condition.;
- Broccoli: Farmers may prepare land for Broccoli this time because this vegetable is rich in Vitamin A, C and mineral Magnesium, Iron and Calcium. It requires less fertilizer, less susceptible to attack of pest and disease and gives more profit. Fertile loam or sandy loam and medium to high land with pH 6 to 7 are required. Collect seed from any certified source and prepare seed bed. Main field may be prepared with 12 to 15 ton Cowdung per hect. land. Single row planting may be done. Transplanting may be done at plant age 4 to 6 weeks. 400 to 500 gm seed required for one hect. planting. Seed may be sown at 0.5 inch depth and spacing should be min. 12 inch. Irrigation may be done just after planting.;

- Cauliflower: Transplanted seedling of cauliflower is advised to apply boron at regular interval. Spraying of borax 2.5 g/lit of water or Solibor 20% @ 1 g/lit of water at 25 days after transplanting (DAT), 35 DAT and 45 DAT is advised. Farmers are advised to monitor borer insect. If insect population is above ETL, spraying of Spinosad 1.0 ml/4 litre of water is advised when sky is clear against borer, diamond back moth etc.

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

21-10-2021/(0800 to 0826) GMT
21-10-2021/(1330 to 1356) IST

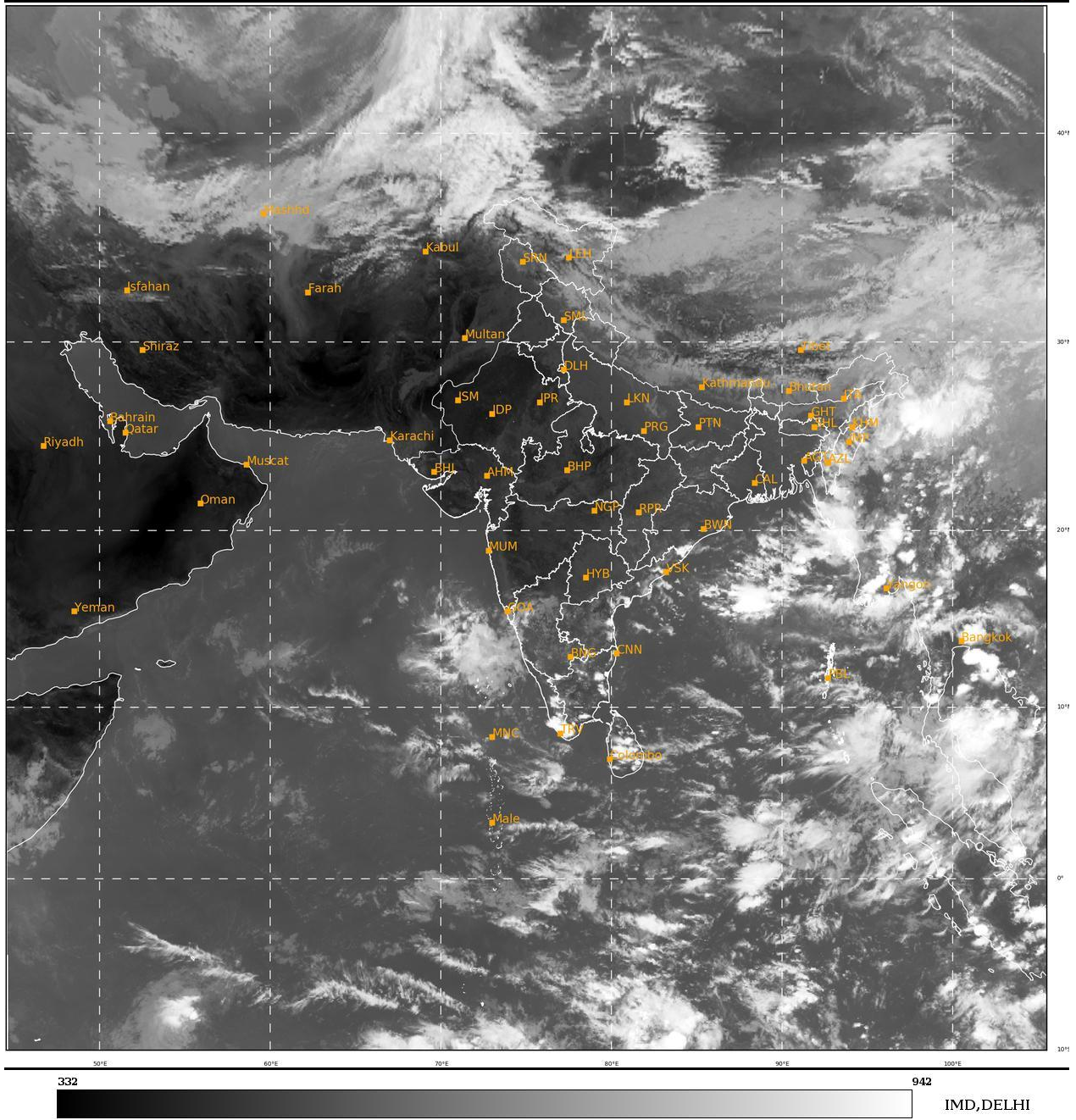


Figure: 1. Latest available satellite picture as on 21 Oct 2021 at 1356 Hrs (IST). (Source: IMD).

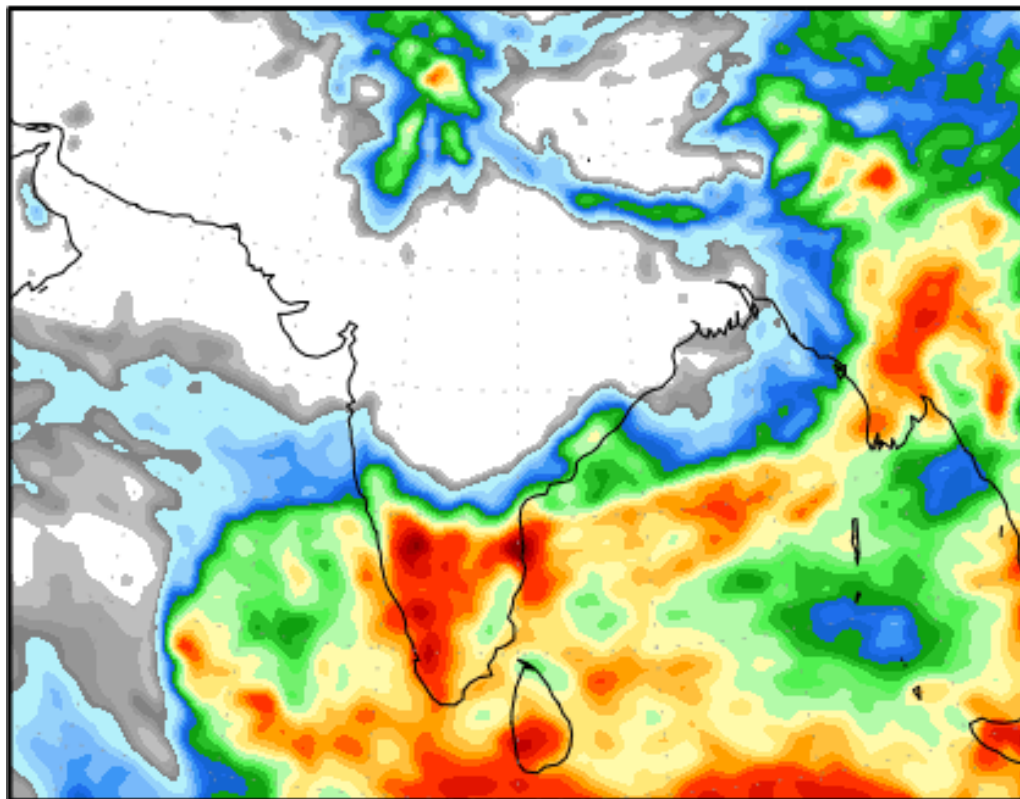


Figure:2. Precipitation forecast for 21 Oct to 29 Oct 2021 (Source: NOAA NCEP).

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