

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 21 October 2019**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- The Low Pressure Area over eastcentral Arabian Sea with the associated cyclonic circulation extending upto 4.5 km above mean sea level persists. It is very likely to become Well Marked Low Pressure Area during next 24 hours and is likely to concentrate into a Depression during subsequent 24 hours. It is likely to initially move north-northeastwards over eastcentral Arabian Sea till 24th October and then west-northwestwards with gradual intensification.
- Another Low Pressure Area is likely to form over southwest & adjoining westcentral Bay of Bengal off north Tamilnadu-south Andhra Pradesh coast during next 48 hours.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy falls likely over peninsular India during next 4-5 days. Heavy to very heavy rainfall with extremely heavy falls likely over Kerala & Mahe on 21 & 22nd Oct., Tamilnadu, Puducherry & Karaikal on 22nd and over Coastal Karnataka 23rd-24nd-25th October, heavy to very heavy falls over Interior Karnataka, Coastal Andhra Pradesh, Rayalaseema, Telangana, Konkan & Goa and Madhya Maharashtra during next 3-4 days.
- Thunderstorm accompanied with lightning very likely over part of peninsular, east and central India during next 3 days.
- The images showing the latest satellite picture in figure. 1

#### **Main Weather Observations (IMD)**

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Karnataka, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands; at many places over Jharkhand, Coastal Andhra Pradesh and Rayalaseema; at a few places over Bihar, Odisha and East Madhya Pradesh and at isolated places over Uttarakhand, Assam & Meghalaya, East Uttar Pradesh, Gangetic West Bengal, West Madhya Pradesh and Vidarbha.

- Rainfall recorded at 0830 hours IST of today (4 cm or more) are: Kochin -16; Punalur -12; Kottayam- -10; Satara -9; Sholapur and Chitradurga -8 each; Chennai and Tuticorin -6 each; Jamshedpur, Gondia, Raipur, Cannur -5 each, Sangli, Palakkad, Tundi and Long Island -4 each. Heavy to very heavy Rainfall observed at a few places over Kerala & Mahe and heavy rainfall at isolated places over Madhya Maharashtra and South Interior Karnataka. Thunderstorm observed (from 0830 hours IST to 1430 hours IST of today): at isolated places over Assam & Meghalaya and Kerala & Mahe.
- Maximum Temperature Departures as on 20-10-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya and at isolated places over Telangana; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Himachal Pradesh and Odisha; at a few places over Arunachal Pradesh, Gangetic West Bengal and Kerala & Mahe and at isolated places over Uttarakhand, Saurashtra & Kutch and Coastal Karnataka. They were markedly below normal (-5.1°C or less) at most places over Madhya Maharashtra; at many places over Madhya Pradesh; at a few places over East Uttar Pradesh, Vidarbha, Marathwada and Konkan & Goa; appreciably below normal (-3.1°C to -5.0°C) at a few places over Gujarat region, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands and at isolated places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, Interior Karnataka and Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over Bihar; at many places over East Uttar Pradesh; at a few places over Punjab and at isolated places over Jharkhand, Chhattisgarh and Rayalseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.5°C was recorded at Barmer (West Rajasthan).
- Minimum Temperature Departures as on 21-10-2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya, Bihar, East Uttar Pradesh and Madhya Pradesh; at isolated places over Arunachal Pradesh, West Uttar Pradesh and Vidarbha; above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Gujarat, Odisha and Nagaland, Manipur, Mizoram and Tripura; at a few places over Rajasthan, Madhya Maharashtra, Telangana and Rayalaseema and at isolated places over Himachal Pradesh, Gangetic West Bengal, Marathwada, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir and Haryana, Chandigarh & Delhi and at isolated places over Punjab,

Konkan & Goa and Andaman & Nicobar Islands and near normal over rest parts of the country. The lowest minimum temperature of 14.7°C recorded at Amritsar (Punjab).

**Weather Warning during next 5 days (IMD)**

- 21 October (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Kerala & Mahe; Heavy to very heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam, Karnataka and Tamilnadu, Puducherry & Karaikal and Heavy Rainfall at isolated places over Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Rayalseema and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Odisha, Arunachal Pradesh, east Assam, Nagaland, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather very likely over eastcentral & adjoining southeast Arabian Sea along with Maharashtra-Goa-Karnataka-Kerala coasts, Lakshadweep and Comorin area and over southwest & adjoining westcentral Bay of Bengal along with north Tamilnadu-south Andhra Pradesh coast. Fishermen are advised not to venture into these areas.
- 22 October (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Coastal Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe; Heavy to very heavy rainfall at isolated places over Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalseema, Interior Karnataka and Heavy Rainfall at isolated places over Marathwada, Konkan & Goa, Telangana and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather very likely over eastcentral & adjoining southeast Arabian Sea along with Maharashtra-Goa-Karnataka-Kerala coasts, Lakshadweep and Comorin area and over southwest & adjoining westcentral Bay of Bengal along with north Tamilnadu-south Andhra Pradesh coast. Fishermen are advised not to venture into these areas.
- 23 October (Day 3): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Coastal & South Interior Karnataka; Heavy to very heavy rainfall at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over Vidarbha, Chhattisgarh, Odisha, Madhya Maharashtra,

Marathwada, Telangana, Rayalseema and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with hail very likely at isolated places over Arunachal Pradesh and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather very likely over eastcentral & adjoining southeast Arabian Sea along with Maharashtra-Goa-Karnataka-Kerala coasts, Lakshadweep and Comorin area and over southwest & adjoining westcentral Bay of Bengal along with north Tamilnadu-south Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

- 24 October (Day 4): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Coastal Karnataka; Heavy to very heavy rainfall at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam and South Interior Karnataka and Heavy Rainfall at isolated places over Chhattisgarh, Jharkhand, Odisha, Madhya Maharashtra, North Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala. Thunderstorm accompanied with lightning very likely at isolated places over Jharkhand and Gangetic West Bengal.
- 25 October (Day 5): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Coastal Karnataka; Heavy to very heavy rainfall at isolated places over Tamilnadu, Puducherry & Karaikal and Heavy Rainfall at isolated places over Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Interior Karnataka and Kerala & Mahe..
- The weather outlook for the period of seven days i.e., 17 to 25 October 2019 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Jharkhand, Odisha and entire South Peninsular India. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

### **Assam**

#### **Weather condition:**

Dry weather prevailed over Assam state during past few days. The maximum temperature was ranged between 30-33°C and minimum temperature was ranged between 22-24°C.

#### **Contingency measure:**

- Sali rice: (panicle initiation stage): Due to favorable weather condition, attack of leaf folder/stem borer/rice hispa may occur during seedling and tillering stage of

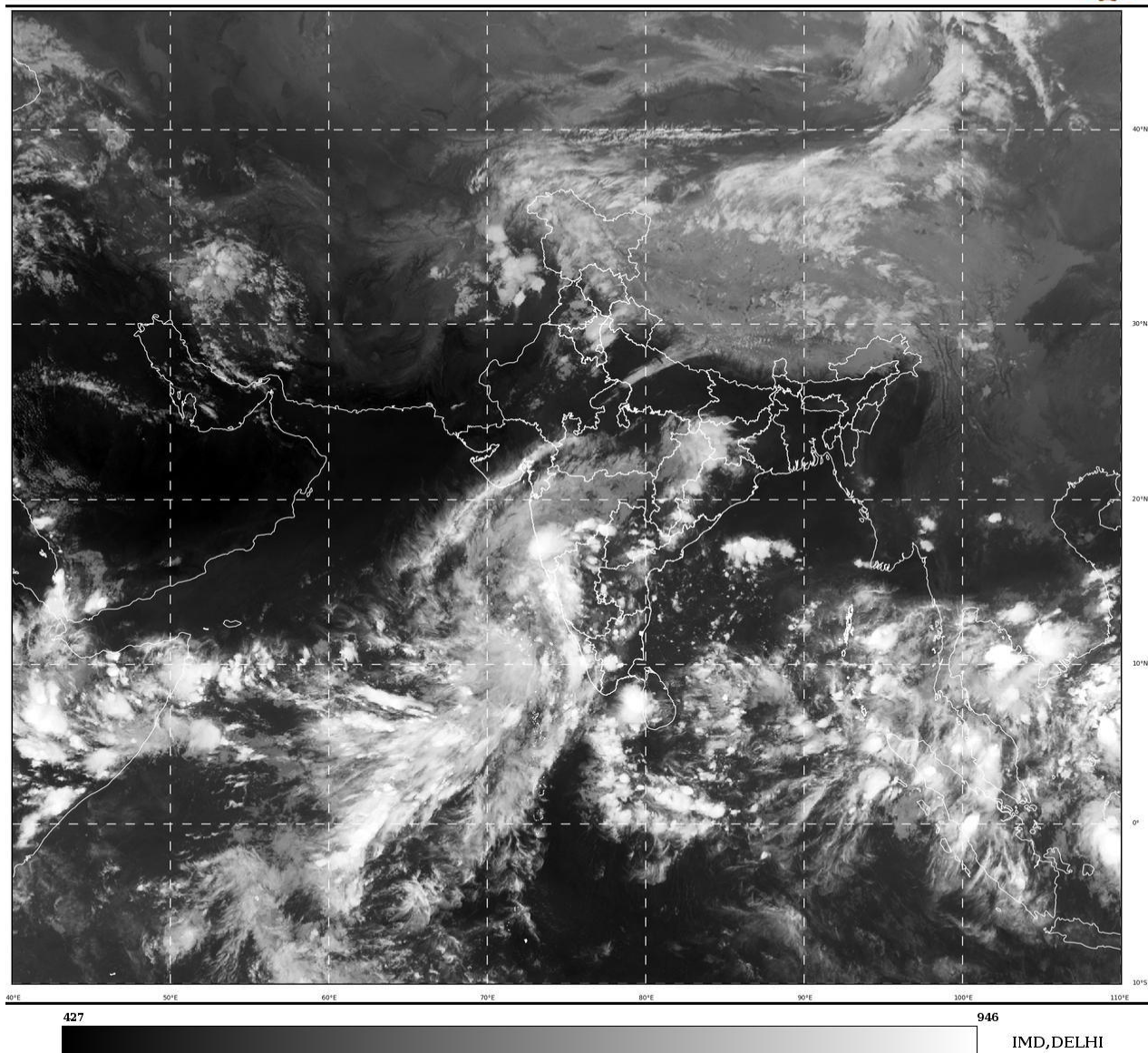
rice. So, the farmers are advised to spray 0.02% chloropyriphos 20 EC or Quinalphos 25 EC @ 2.5-3.0ml per litre of water to control the pests.

- Radish: Sowing of late radish varieties like Japanese White, Janupuri and Bombay Red can be started from this week. Before sowing, seed should be treated with captan 50WP@ 3g/kg.
- Cabbage, cauliflower, knolkhol: Sowing of cauliflower seeds @8-10gm/sq.m for mid-season varieties (like Improved Japanese, Pusa Synthetic, Pusa Snowball) and early maturity cabbage varieties (like Golden Acre, Pride of India, Pusa Mukta) can be started from this week. Seed treatment should be done with captan or thiram @3g/kg before sowing the seeds. 80g seed is required for cultivating 1 bigha of land. Sowing of knolkhol seeds @10gm/sq.m for early maturity varieties (like White Vienna)
- Brinjal: Brinjal seeds @10gm/sq.m for long varieties (like Cluster, JC-1, Kuchia, Pusa Kranti, Pusa Purple Long) or round varieties (like Pusa Purple Round, Pusa Vairab, JC-2, BWR-12) can be started from this week. 80-90g seed is required for cultivating 1 bigha of land in case of both crops.
- Poultry: Vaccination (RDF1) against Ranikhet disease in one week old chicks and against Gamboro disease in two weeks old chicks may be carried out.

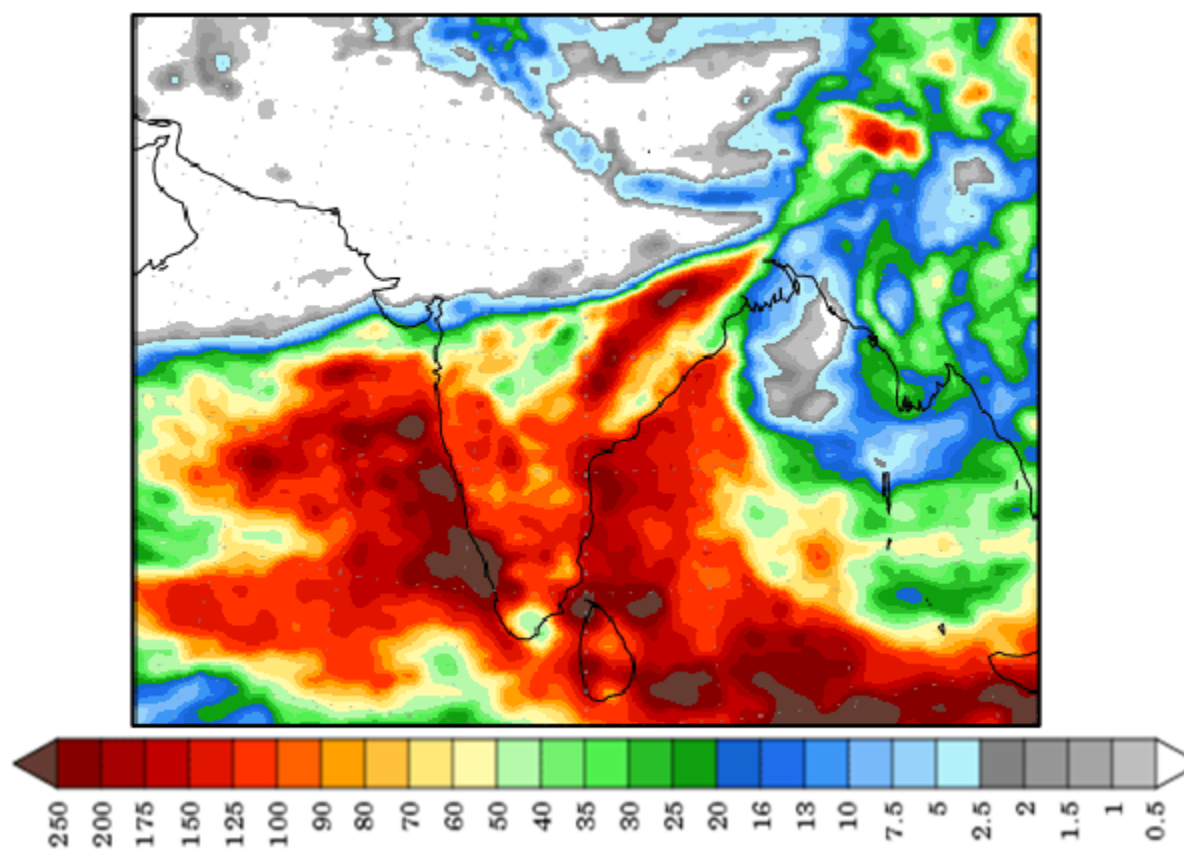


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LIC Mercator

18-10-2019/(1345 to 1411) GMT  
18-10-2019/(1915 to 1941) IST



**Figure: 1. Latest available satellite picture as on 21 October 2019 at 1930 Hrs (IST).  
(Source: IMD).**



**Figure:2. Precipitation forecast for 21 to 29 October 2019 (Source: NOAA NCEP).** *Disclaimer: The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*