

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 October 2019

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Significant Weather Features (IMD)

- The Southwest monsoon has further withdrawn from entire north Bay of Bengal, some parts of central Bay of Bengal, entire Odisha, Chhattisgarh, some parts of Coastal Andhra Pradesh, some more parts of Telangana, entire Vidarbha, Marathwada, some parts of North Interior Karnataka, most parts of Madhya Maharashtra, some more parts of Konkan, entire north Arabian Sea and some parts of central Arabian Sea.
- The withdrawal line of Southwest Monsoon passes through Lat. 17.5°N/Long. 95.0°E, Lat. 17.5°N/Long. 90.0°E, Tuni, Hanamkonda, Bidar, Solapur, Ratnagiri, Lat. 17.0°N/Long. 70°E, Lat 17.0°N/Long. 65°E and Lat. 17.0°N/Long. 60°E.
- Conditions are becoming favourable for further withdrawal of southwest monsoon from some more parts of central Bay of Bengal, some more parts of south India, remaining parts of west India and some more parts of central Arabian Sea during next 24 hours. Thereafter, conditions will become favourable for withdrawal of southwest monsoon from the remaining parts of the country and simultaneous commencement of northeast monsoon rains over southeast India during subsequent 48 hours. Fairly widespread to widespread rainfall with isolated heavy falls accompanied with thunderstorms and lightning likely over south peninsular 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 to 1730 hours IST of yesterday): at most places over Coastal Karnataka and Tamilnadu, Puducherry & Karaikal; at many places over Lakshadweep; at a few places over Rayalaseema and at isolated places over Himachal Pradesh, Interior Karnataka and Coastal Andhra Pradesh & Yanam. Rainfall recorded at 0830 hours IST of yesterday (2 cm or more) were: Shirali-4; Agumbe and Tirupathi -3 each; and Palakkad- 2. Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at many places over Coastal Andhra Pradesh & Yanam; at a few places over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Lakshadweep; at

isolated places over Jammu & Kashmir, Konkan & Goa, Coastal & North Interior Karnataka and Rayalaseema.

- Maximum temperature departures as on 15-10-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Konkan & Goa; at few places over Jammu & Kashmir and at isolated places over Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few place over Saurashtra & Kutch, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh, Rajasthan, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Odisha and West Bengal & Sikkim. They were below normal (-1.6°C to -3.0°C) at most places over Lakshadweep and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.0°C was recorded at Churu (West Rajasthan).
- Minimum temperature departures as on 15-10-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Andaman & Nicobar Islands; at isolated places over Jammu & Kashmir, Himachal Pradesh, Rajasthan and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Punjab, Uttarakhand, Konkan & Goa, Telangana and Rayalaseema; at a few places over Madhya Maharashtra and Interior Karnataka; at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Gujarat, Coastal Andhra Pradesh & Yanam, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Assam & Meghalaya and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Marathawada; at isolated places over East Madhya Pradesh and Odisha and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 13.5°C was recorded at Betul (West Madhya Pradesh).

Weather Warning during next 5 days (IMD)

- 16 October (Day 1): Heavy rainfall very likely at isolated places over Coastal Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Karnataka, Kerala & Mahe, Lakshadweep and Tamilnadu, Puducherry and Karaikal.
- 17 October (Day 2): Heavy rainfall likely at isolated places over Karnataka, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Odisha, Madhya Maharashtra, Konkan & Goa, Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- 18 October (Day 3): Heavy rainfall very likely at isolated places over Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm

accompanied with hail & lightning very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Thunderstorm accompanied with lightning likely at isolated places over Punjab, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Madhya Maharashtra, Marathawada, Konkan & Goa, South Interior Karnataka and Kerala & Mahe.

- 19 October (Day 4): Thunderstorm accompanied with lightning likely at isolated places over Vidarbha, Chhattisgarh, Konkan & Goa, Madhya Maharashtra and Marathawada.
- 20 October (Day 5): Thunderstorm accompanied with lightning likely at isolated places over Vidarbha, Chhattisgarh, Konkan & Goa, Madhya Maharashtra and Marathawada.
- The weather outlook for the period of seven days i.e., 15 to 23 October 2019 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over entire South Peninsular India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Royalaseema

Weather condition:

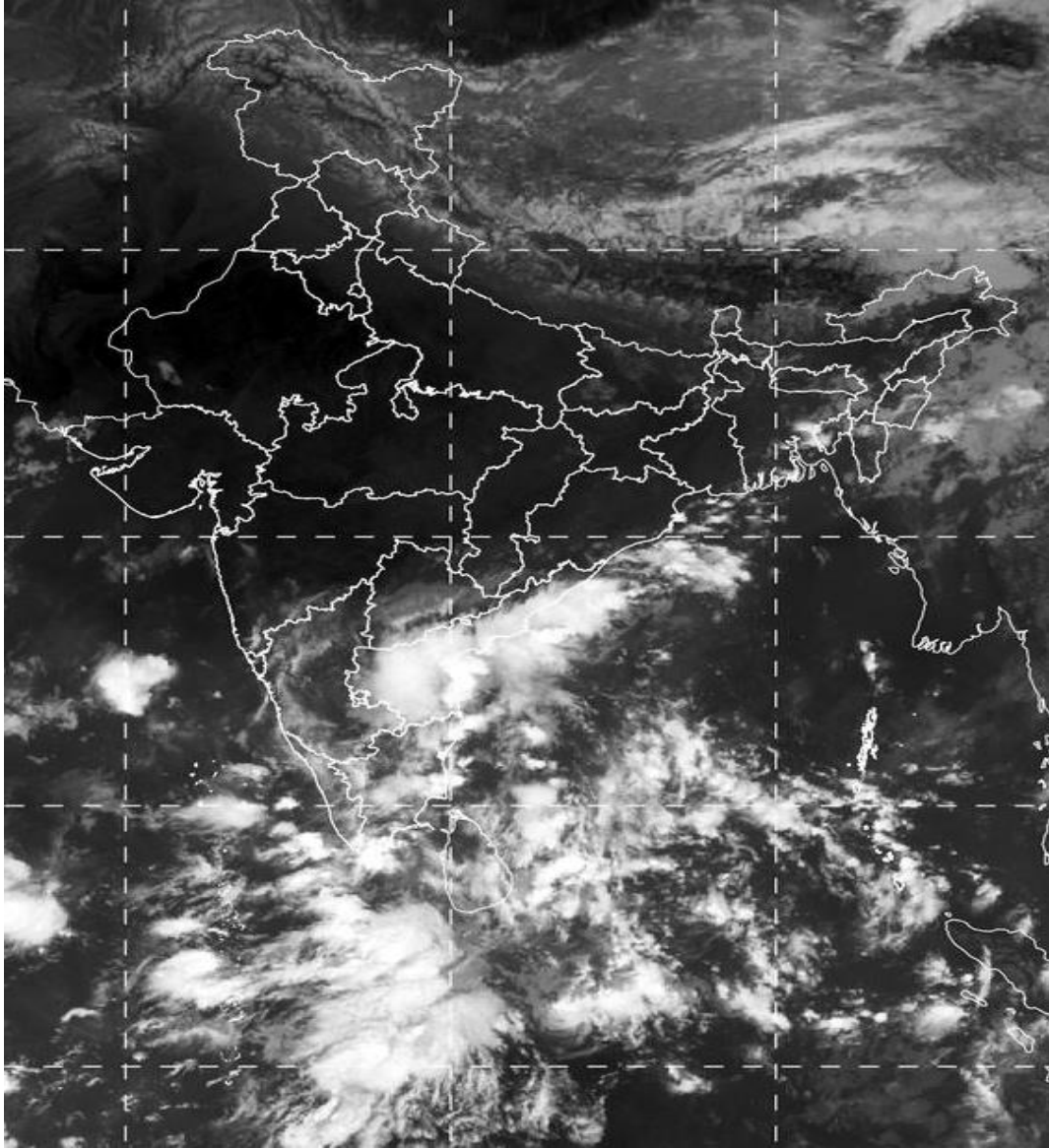
Light rainfall received over the region of Royalaseema during past few days. The maximum temperature was ranged between 30-33°C and minimum temperature was ranged between 22-25°C.

Contingency measure:

- Farmers of Ananthapuramu district are advised to drain out the excess water from crop fields, if any, accumulated due continuous rainfall received. They are advised to apply booster dose of Urea@25kg and MOP@10kg/acre to rice, cotton, castor, Jowar, foxtail millet and bajra crops after draining out of excess water.
- Farmers of Ananthapuramu, Chittoor, Kadapa districts can take up sowing of horsegram utilizing the available soil moisture.
- Farmers of Kurnool, Kadapa and Ananthapuramu can take up sowing of bengalgram in black soils after attaining suitable soil moisture for sowing from first fortnight of October onwards.
- As the prevailing conditions are favourable for incidence of blast and sheath blight in Rice crop in East Godavari, Srikakulam, Vishakhapatnam, Vizianagaram, Ananthapuramu, Kurnool districts, farmers are advised to spray Isoprothioline@1.5ml/L of water for control of blast and hexaconazole@2ml/L or Propiconazole@1ml/L of water for control of sheath blight.
- There is chance for early shoot borer incidence in sugarcane in Srikakulam, Vizianagaram and Vishakhapatnam districts. Farmers are advised to spray Chlorpyrifos@2.5ml/L or Monochrotophos@1.6ml/L for control. For control of

mites, scale insects and sucking pests, spray Acephate@1.5g/L or Malathion @ 2 ml/L of water.

- Leaf folder and stem borer incidence is observed in rice in Chittoor, Nellore, Kadapa districts, for control farmers are advised to spray Cartaphydrochloride @ 2 g or Chlorpyriphos@2.5ml/L of water.
- Farmers are advised to monitor incidence of fall army worm in maize by arranging 10 pheromone traps per acre. If the trap catch is more than 10, they are advised to spray neem oil @ 5ml/L of water. Based on the intensity of the pest they can go for spraying of Thiodicarb@2g or Emamectin Benzoate @ 0.4 g or Chlorantriliniprole @ 0.4 ml per liter of water.
- Farmers of Rayalaseema districts where heavy rainfall occurred are advised to monitor incidence of Spodoptera and Helicoverpa in groundnut, cotton, castor, greengram crops as the prevailing weather is favourable for its incidence. They are advised to take up precautionary spraying with monochrotophos @1.6ml/L or spraying of thiodicarb@1g/L or Chlorantriliniprole @ 0.3 ml/L of water if incidence is observed.
- Prevailing weather conditions are for incidence of bacterial blight in pomegranate in Ananthapuramu district. For control farmers are advised to spray Carbendazim@1g/L + Mancozeb@2g/l or SAAF @ 3g/L of water.
- Farmers of Krishna, Guntur, Prakasam, Kurnool, Kadapa, Ananthapuramu districts are advised to monitor the incidence of pink boll worm in cotton by keeping 4-6 pheromone traps/acre and observing the rosette flowers. If incidence is noticed they are advised to spray Chloropyriphos@2.5ml/L or Profenophos@2ml/L or Thiodicarb@1.5 g/L of water.



**Figure: 1. Latest available satellite picture as on 15 October 2019 at 17:30 Hrs (IST).
(Source: IMD).**

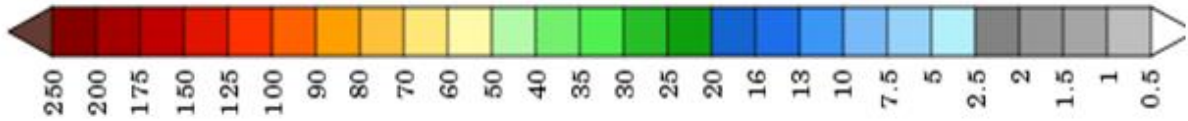
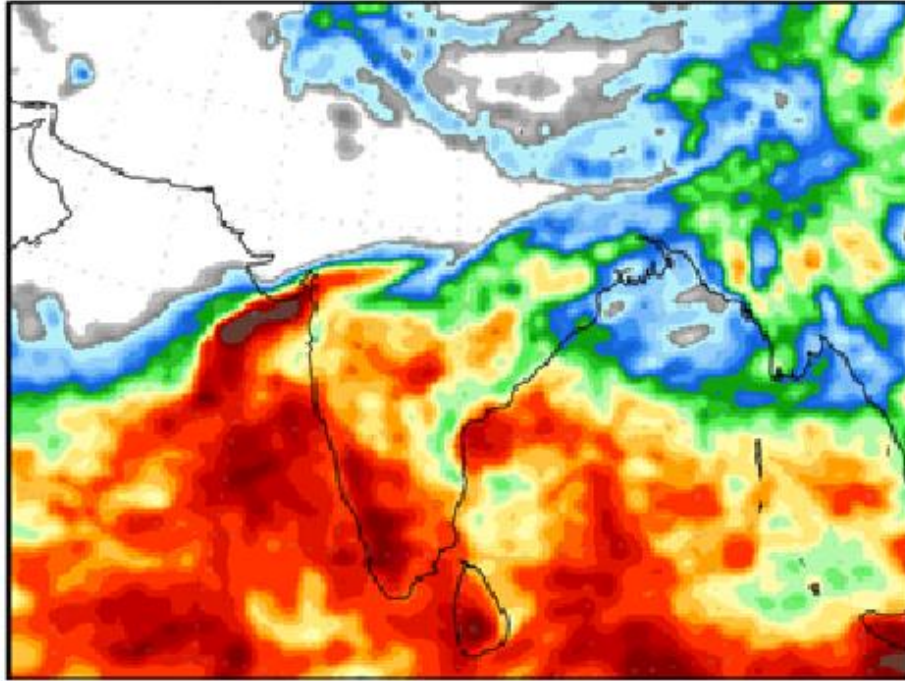


Figure:2. Precipitation forecast for 15 to 23 October 2019 (Source: NOAA NCEP).

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