

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 20 September 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence, the cyclonic circulation over east-central Arabian Sea & adjoining areas of Maharashtra, A Low Pressure area has formed over East-central Arabian Sea and off north Maharashtra coast. The associated cyclonic circulation extends upto 7.6 km above mean sea level. It is likely to move west-northwestwards and become more marked & concentrate into a Depression during next 48 hours.
- The east-west shear zone runs roughly along latitude 15°N across south peninsula between 1.5 km & 5.8 km above mean sea level. Also there are two cyclonic circulations embedded in this, one over Rayalaseema & neighborhood and the other over east-central Arabian Sea & adjoining areas of Maharashtra.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Konkan & Goa, Madhya Maharashtra during 20-21st Sept (with probable isolated extremely heavy falls over north Konkan on 20th Sept). Fairly widespread to widespread rainfall with isolated heavy to very heavy falls are also likely over Gujarat during 20th-22nd September with isolated extremely heavy falls over Saurashtra on 21st and 22nd September.
- The images showing the latest satellite picture in figure. 1

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hours IST to 1730 hours IST of yesterday): at most places over Assam & Meghalaya; at many places over West Madhya Pradesh, Konkan & Goa, Telangana, Coastal Karnataka and Kerala & Mahe; at a few places over East Madhya Pradesh, Vidarbha, Madhya Maharashtra, Odisha, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Gujarat, Marathwada, South Interior Karnataka, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya
- Heavy rainfall observed at isolated places over Andaman & Nicobar Islands.

- Thunderstorm observed (from 1730 hours IST of yesterday to 0530 hours IST of today): at isolated places over Saurashtra & Kutch, Vidarbha, Telangana, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal.
- Maximum temperature departures as on 19-09-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Assam & Meghalaya; at isolated places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir and Gangetic West Bengal; at many places over West Rajasthan and Arunachal Pradesh; at a few places over Saurashtra & Kutch and Bihar; at isolated places over East Madhya Pradesh and Kerala & Mahe. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Punjab, West Madhya Pradesh, Vidarbha and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi, East Uttar Pradesh and Rayalaseema; at many places over Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada, Telangana, Coastal & North Interior Karnataka; at a few places over East Rajasthan; at isolated places over Himachal Pradesh, West Uttar Pradesh, South Interior Karnataka and Coastal Andhra Pradesh & Yanam and near normal over rest of the country.
- Minimum temperature departures as on 19-09-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at few places over Sub-Himalayan West Bengal & Sikkim and at isolated places over Uttarakhand; above normal (1.6°C to 3.0°C) at most places over West Rajasthan; at a few places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha and Lakshadweep and at isolated places over Himachal Pradesh, East Madhya Pradesh, North Interior Karnataka, Arunachal Pradesh and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at isolated places over East Uttar Pradesh, Konkan & Goa, Marathwada, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 20 September (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Konkan & Goa; Heavy to very heavy rainfall likely at isolated places over Gujarat state and Madhya Maharashtra and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, East Rajasthan, Andaman & Nicobar Islands and Coastal Karnataka. Thunderstorm accompanied with lightning very likely to occur at isolated places over Odisha. Strong winds, speed reaching 40-50 kmph, likely to prevail over east-central & adjoining northeast Arabian Sea and south Gujarat & north Maharashtra coasts. Squally weather likely to prevail over southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

- 21 September (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Saurashtra & Kutch; Heavy to very heavy rainfall likely at isolated places over Gujarat region and Konkan & Goa and heavy rainfall at isolated places over Uttarakhand, East Rajasthan, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Coastal Karnataka. Strong winds, speed reaching 45-55 kmph gusting to 65 kmph, likely to prevail over northeast & adjoining east-central Arabian Sea and Gujarat & Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 22 September (Day 3): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Saurashtra & Kutch; Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over East Rajasthan, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat region, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong winds, speed reaching 45-55 kmph gusting to 65 kmph, likely to prevail over northeast & adjoining east-central Arabian Sea and Gujarat & Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 23 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha. Strong winds, speed reaching 45-55 kmph gusting to 65 kmph, likely to prevail over northeast & adjoining east-central Arabian Sea and Gujarat coast. Fishermen are advised not to venture into these areas.
- 24 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Vidarbha, Chhattisgarh and Odisha. Strong winds, speed reaching 45-55 kmph gusting to 65 kmph, likely to prevail over northeast & adjoining east-central Arabian Sea and Gujarat coast. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e.*, 20 to 28 September 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thunder shower may occur over Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Pradesh, Odisha, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka, Coastal & South Interior Karnataka, Kerala,

Tamil Nadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Andhra Pradesh

Weather condition:

Light rainfall is received in Andhra Pradesh state during past few days. The maximum temperature was ranged between 34-37°C and minimum temperature was ranged between 23-25°C.

Contingency measure:

- Farmers of Kadapa and Ananthapuramu districts are advised not to sow contingency crops as soil moisture is insufficient for sowing.
- Farmers of Chittoor districts can take up sowing of contingency crops like jowar, bajra, foxtail millet, cowpea, wherever sufficient soil moisture is available with the rains received last week.
- Farmers of Kurnool district are advised to sow maghi Jowar in black soil areas after receiving sufficient rainfall only.
- 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 Chlorpyrifos@2.5ml/L of water.
- Incidence of sucking pests observed in cotton crop in Kurnool, Ananthapuramu, Guntur, Krishna, Prakasam districts. Farmers are advised to take up stem application with monochrotophos and water in 1:4 ratio for control.

- 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.

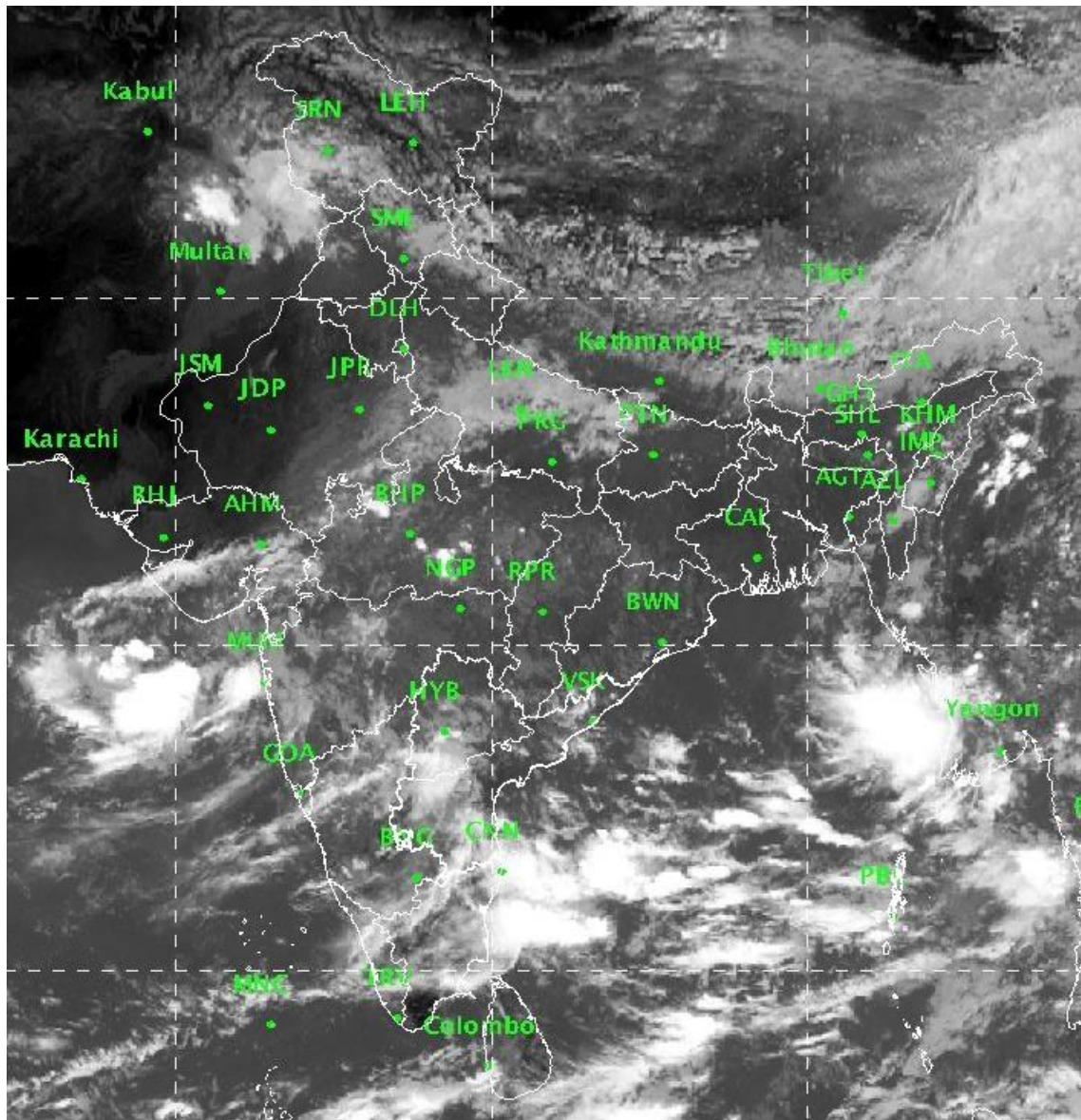


Figure: 1. Latest available satellite picture as on 20 September 2019 at 1000Hrs (IST).

(Source: IMD).

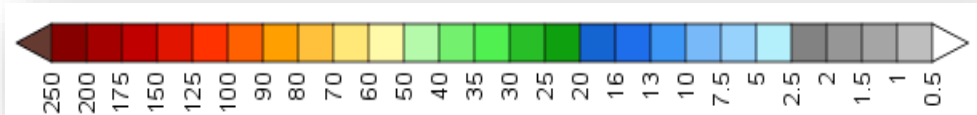
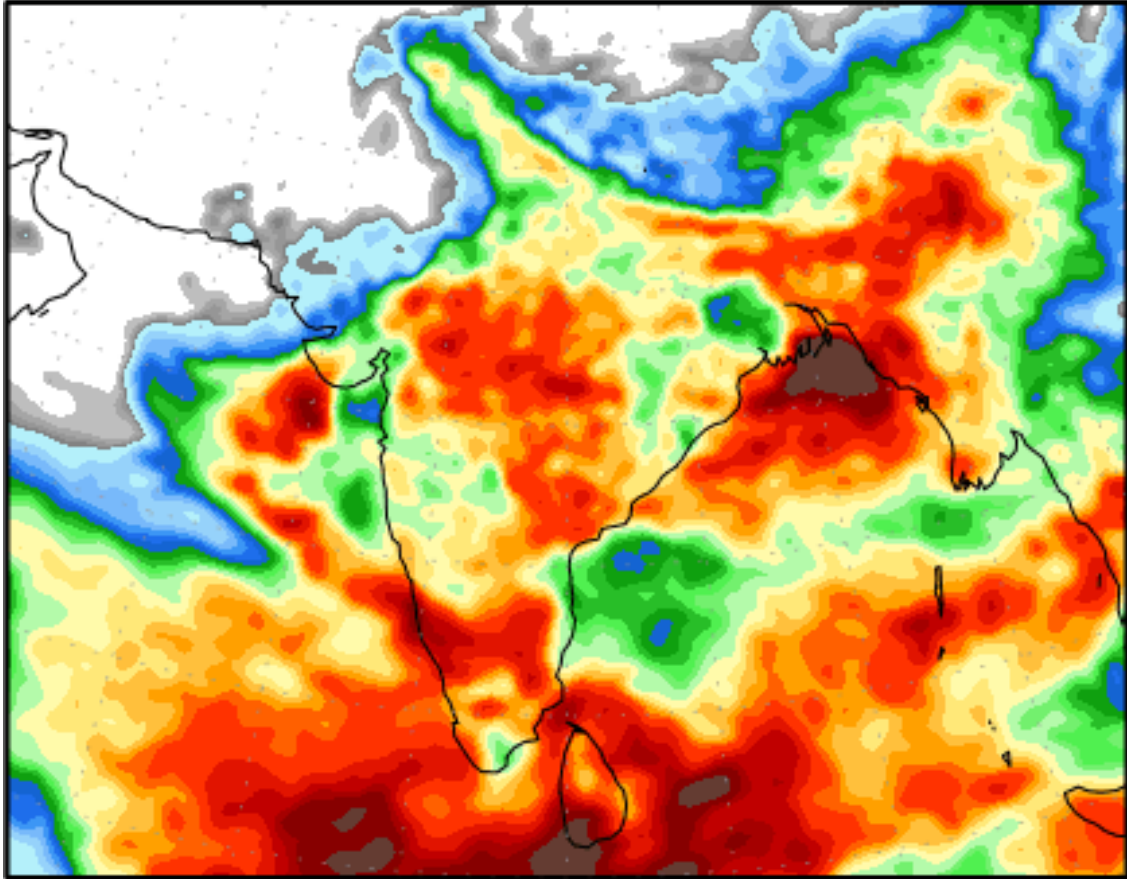


Figure:2. Precipitation forecast for 20 to 28 September 2019 (Source: NOAA NCEP).