

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 11 September 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- An off-shore trough at mean sea level runs from north Maharashtra coast to north Kerala coast. The east-west shear zone runs roughly along 15°N across the peninsular India in mid-tropospheric levels and likely to persist during next 3-4 days. Under their influence: i) Fairly widespread to widespread rainfall with isolated heavy falls, thunderstorm & lightning very likely over Peninsular India during next 5 days. ii) Heavy to very heavy rainfall at isolated places very likely over Coastal Karnataka during 11th & 12th; South Interior Karnataka and Kerala & Mahe on 11th September. Extremely heavy rainfall at isolated places also very likely over Coastal Karnataka on 11th September, 2020.
- The western end of the monsoon trough lies to the north of its normal position and its eastern end south of its normal position. The monsoon trough very likely to shift further southward due to formation of a low pressure area over Westcentral Bay of Bengal off Andhra Pradesh coast around 13th September. Under their influence. i) Fairly widespread rainfall with isolated thunderstorm & lightning very likely over Northeast and adjoining East India. Heavy rainfall at isolated places also very likely over Sub-Himalayan West Bengal & Sikkim and northeast India (mainly Assam & Meghalaya) during next 3-4 days.
- Rainfall distribution and intensity very likely to increase over Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Maharashtra and Gujarat State from 12th September onwards. Isolated heavy falls also very likely over these regions during next 3-4 days.
- Moderate thunderstorm with lightning very likely at isolated places over Bihar, Madhya Pradesh, Chhattisgarh, Jharkhand, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Telangana, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Konkan & Goa during next 12 hours.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at most places over Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Chhattisgarh, Vidarbha, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at many places over Assam & Meghalaya, Madhya Pradesh, Telangana, Rayalaseema and South Interior Karnataka; at a few places over Gangetic West Bengal, Odisha, Jharkhand, Bihar, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and North Interior Karnataka and at isolated places over East Uttar Pradesh, Uttarakhand, Punjab, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Rajasthan, Gujarat State and Tamil Nadu, Puducherry & Karaikal.
- Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places observed over Sub-Himalayan West Bengal & Sikkim and Coastal Karnataka; heavy to very heavy rainfall at isolated places over Kerala & Mahe and heavy rainfall at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Uttar Pradesh, Bihar, Madhya Pradesh, Chhattisgarh, Odisha, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over East Uttar Pradesh, Gujarat State, Madhya Pradesh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh, Vidharbha, Madhya Maharashtra, Telangana and Rayalaseema.
- Maximum Temperature Departures as on 10-09-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand and Madhya Pradesh; at a few places over Gujarat Region, Madhya Maharashtra and Telangana; at isolated places over Himachal Pradesh, Konkan & Goa, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at most places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Saurashtra & Kutch, Marathawada, Jharkhand and East Rajasthan; at many places over Punjab, Vidharbha, Chhattisgarh, Bihar, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, West Rajasthan and Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over East Uttar Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Tamil Nadu, Puducherry & Karaikal;

below normal (-1.6°C to -3.0°C) at isolated places over Kerala & Mahe and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.8°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 11-09-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Rajasthan, Gujarat State and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Uttarakhand and North Interior Karnataka; at many places over Sub-Himalayan West Bengal & Sikkim and South Interior Karnataka; at a few places over Himachal Pradesh and Coastal Andhra Pradesh & Yanam; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Marathwada, Konkan & Goa, Telangana, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands. They are below normal (-1.6°C to -3.0°C) at isolated Places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 18.4°C reported at Khargone (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 11 September (Day 1): Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places very likely over Coastal Karnataka; heavy to very heavy rainfall at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe; heavy rainfall at isolated places over northeast Uttar Pradesh, south Madhya Pradesh, Vidarbha, Chhattisgarh, western parts of Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Konkan & Goa, Telangana, Rayalaseema, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, south Maharashtra-Goa coasts, Gulf of Mannar area. Squally Weather (wind speed reaching 45-55 kmph) along & off Kerala-Karnataka coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.

- 12 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam and Coastal Karnataka; heavy rainfall at isolated places over south Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Telangana, Rayalaseema, Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Karnataka. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Squally Weather (wind speed reaching 45-55 kmph) along & off Kerala-Karnataka coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 13 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana; heavy rainfall at isolated places over south Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Rayalaseema, Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 14 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Telangana; heavy rainfall at isolated places over East Uttar Pradesh, southwest Madhya Pradesh, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal & North Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over East Uttar Pradesh, Madhya Pradesh, Bihar, Coastal Andhra Pradesh & Yanam, and Telangana. Strong Wind (speed reaching 45-55 kmph) likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 15 September (Day 5): Heavy rainfall likely at isolated places over East Uttar Pradesh, southwest Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands,

Assam & Meghalaya, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over East Uttar Pradesh, south Rajasthan, Bihar and Telangana. Strong Wind (speed reaching 45-55 kmph) likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 11 to 19 Sep 2020 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)

Haryana

Weather condition:

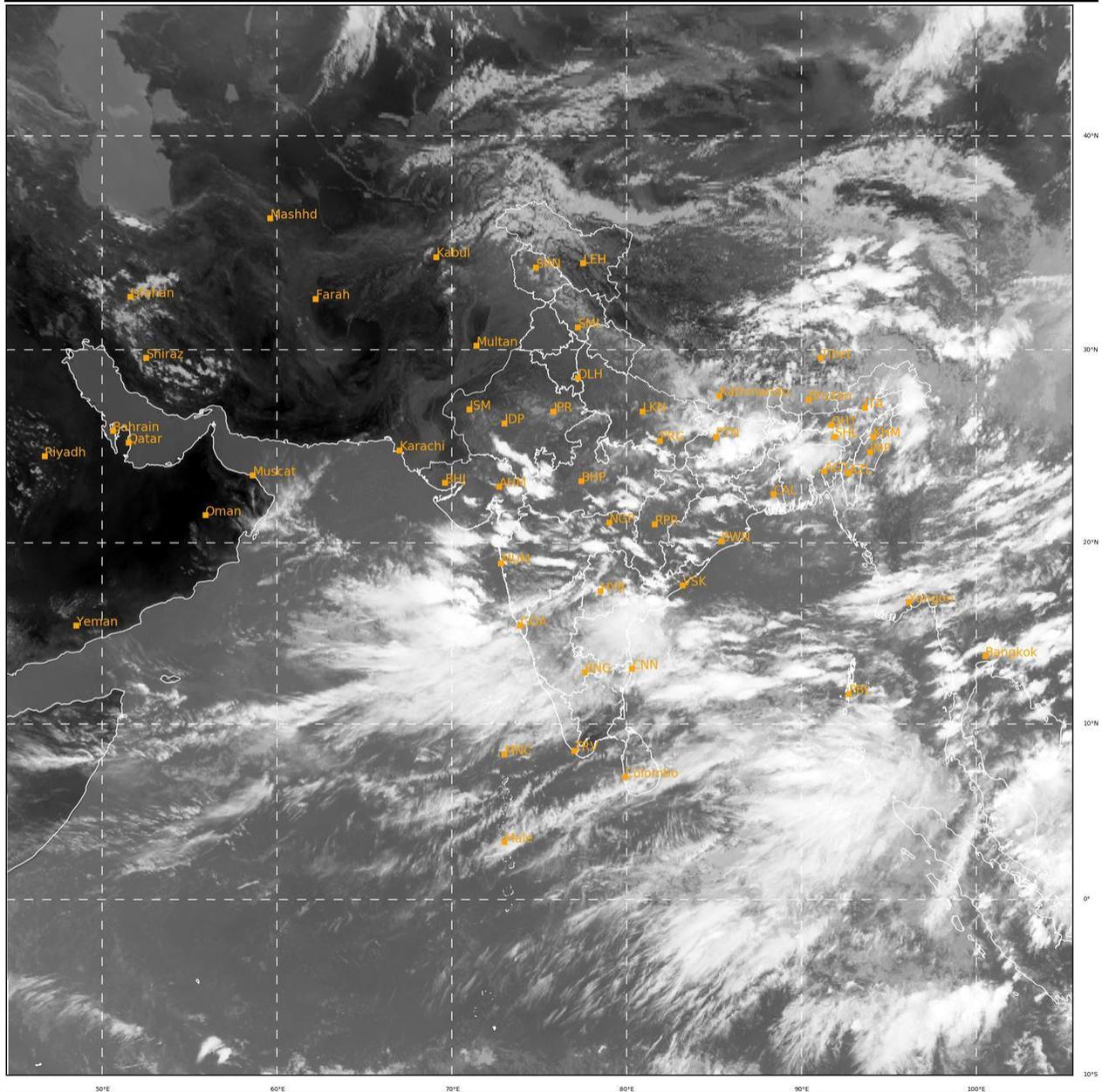
Weather was humid and variable during this week. About 32.5 mm rainfall was recorded during this week. Maximum temperature was above the normal. Minimum temperature was above the normal with except on 3th September. About 24.9 mm evaporation was observed in this week. Actual sunshine was ranged from 2.4 hr to 7.1 hr.

Contingency measure:

- Weather Forecast: Weather likely to be variable. Due to partial WD, chances of light rainfall with thunderstorm/ lightning on 31st March at isolated places. In remaining days, weather will be dry with partly cloudy condition.
- General advised: In view of variable weather, farmers are advised to apply irrigation and chemical spray as per crop need in rabi crops.
- Wheat: Irrigate the crop as per its requirement. Keep monitoring for rust and smut.
- Mustard/Raya: Keep variable weather in mind during harvesting and threshing of mustard/other oilseed crops.
- Fodder/Barseem: Apply irrigation accordance of crop need.
- Vegetables/Fruits: Apply need based irrigation in vegetable crops. Keep vigil for insect-pest and diseases and follow proper weed control measures.
- Fishery: Maintain good amount of water in pond to save fishes from variable weather.
- Live stock management: Protect the animals from variable weather conditions and provide proper ventilation and dry bedding. Provide 50 grams iodized salt and 50 to 100 grams mineral mixture daily along with animal feed/fodder, green fodder to keep them healthy.

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

11-09-2020/(0800 to 0827) GMT
11-09-2020/(1330 to 1357) IST



251

942

IMD, DELHI

Figure: 1. Latest available satellite picture as on 11 September 2020 at 1357 Hrs (IST).
(Source: IMD).

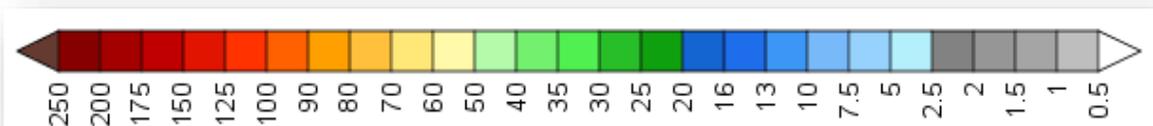
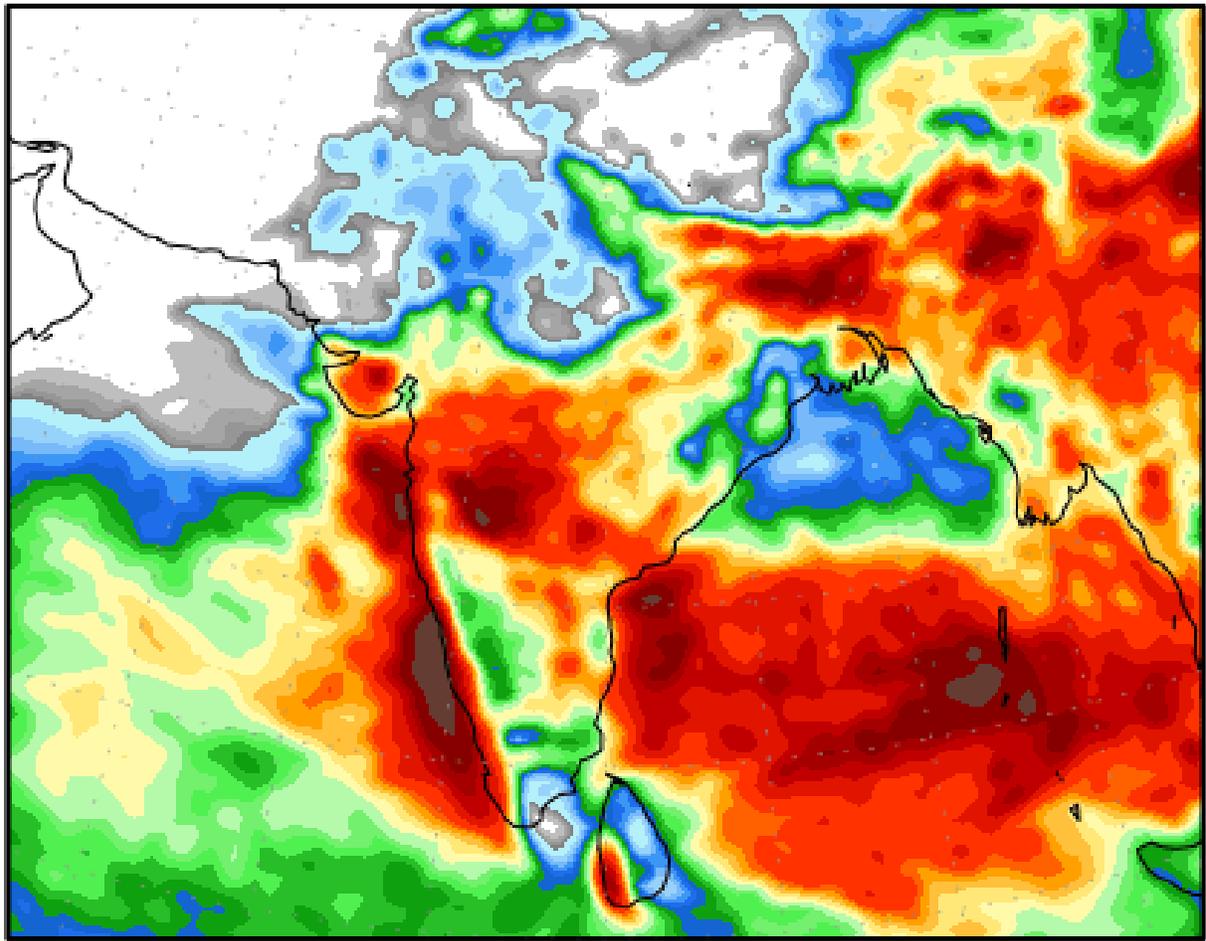


Figure:2. Precipitation forecast for 11 to 19 Sep 2020 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many dynamic factors. 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 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.