

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 September 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- An off-shore trough at mean sea level runs from Maharashtra coast to Kerala coast. The east-west shear zone runs roughly along 14°N across the peninsular India between 3.1 km & 3.6 km above mean sea level and likely to persist during next 4-5 days. Under their influence: i) Fairly widespread to widespread rainfall with isolated heavy falls, thunderstorm & lightning very likely over Peninsular India during next 4-5 days. ii) Heavy to very heavy rainfall at isolated places very likely over Coastal Karnataka during 10th-13th; South Interior Karnataka and Kerala & Mahe on 10th & 11th September. Extremely heavy rainfall at isolated places also very likely over Coastal & South Interior Karnataka on 10th & 11th September, 2020.
- The western end of the monsoon trough lies to the north of its normal position and its eastern end near to its normal position. The monsoon trough very likely to shift 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 during next 4 days; Odisha on 09th and over Northeast India during next 4-5 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 the same period.
- Moderate thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, Bihar, Gangetic West Bengal, Assam & Meghalaya, Maharashtra, Odisha, Karnataka and Madhya Pradesh 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, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Karnataka, Kerala & Mahe and Lakshadweep; at many places over Arunachal Pradesh, Assam & Meghalaya, Gangetic West Bengal, Konkan & Goa, Vidarbha, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; at a few places over Odisha, Jharkhand, Bihar, Madhya Maharashtra, Marathwada, Chhattisgarh and Telangana and at isolated places over Uttar Pradesh, Uttarakhand, Himachal Pradesh, Rajasthan, Madhya Pradesh, Gujarat Region and Coastal Andhra Pradesh & Yanam.
- Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places observed over Tamilnadu; heavy to very heavy rainfall at isolated places over Tripura, Konkan & Goa and North Interior Karnataka and heavy rainfall at isolated places over Assam & Meghalaya, Odisha, East Rajasthan, Chhattisgarh, South Interior Karnataka and Kerala.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hrs IST of today): at isolated places over East Rajasthan, East Uttar Pradesh, East Madhya Pradesh, Bihar, Gangetic West Bengal, Jharkhand, Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh, Odisha, Kerala & Mahe, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 09-09-2020: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Himachal Pradesh and Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Konkan & Goa, Madhya Maharashtra, Vidarbha and Telangana; at a few places over Odisha; at isolated places over Uttar Pradesh, Gujarat state, Gangetic West Bengal, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Chhattisgarh and Nagaland, Manipur, Mizoram & Tripura; at many places over East Rajasthan, Bihar and Jharkhand; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab and Interior Karnataka; at isolated places over Haryana, Chandigarh & Delhi, West Rajasthan, Arunachal Pradesh and Andaman & Nicobar Islands. They were below normal (-1.6°C to -3.0°C) at a few places over Tamil Nadu, Puducherry & Karaikal and at isolated places over Kerala & Mahe and were near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.4°C was reported at Bikaner (West Rajasthan).

- Minimum Temperature Departures as on 10-09-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over West Madhya Pradesh; at isolated places over Gujarat and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most Places over Sub-Himalayan West Bengal & Sikkim; at many places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Konkan & Goa and Telangana; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Rajasthan and Interior Karnataka; at isolated places over Uttar Pradesh, Bihar, Odisha, Gangetic West Bengal, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam. 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 19.6°C reported at Koraput (Odisha) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 10 September (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls very likely at isolated places over Coastal Karnataka; Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places over South Interior Karnataka; Heavy to very heavy rainfall at isolated places over Assam & Meghalaya, North Interior Karnataka, ghat areas of Tamilnadu and Kerala & Mahe; heavy rainfall at isolated places over SubHimalayan West Bengal & Sikkim, Odisha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Nicobar Islands, east Arunachal Pradesh, Marathawada, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Thunderstorm accompanied with lightning very likely at isolated places over East Uttar Pradesh, 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, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Kerala-Karnataka coasts and Lakshadweep area. Squally Weather (wind speed reaching 40-50 kmph) over Southeast Bay of Bengal and Andaman Sea and along & off south Maharashtra coast. Fishermen are advised not to venture into these areas.
- 11 September (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Coastal Karnataka; heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places over South Interior Karnataka; heavy to very heavy rainfall at isolated places over

Assam & Meghalaya, Konkan & Goa, North Interior Karnataka and Kerala & Mahe; heavy rainfall at isolated places over Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Gujarat region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. 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, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Kerala-Karnataka coasts and Lakshadweep area. Squally Weather (wind speed reaching 40-50 kmph) along & off south Maharashtra coast. Fishermen are advised not to venture into these areas.

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

55 kmph) likely over Kerala-Karnataka coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.

- 14 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Vidarbha, Marathawada and Telangana; heavy rainfall at isolated places over Madhya Pradesh, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Gujarat region, Madhya Maharashtra, Konkan & Goa, Coastal & North Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong Wind (speed reaching 45-55 kmph) likely over Kerala-Karnataka coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 10 to 18 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)

Uttar Pradesh

Weather condition:

Light rainfall occurred in the region, avg. temp. is 1-2 degree above the normal

Contingency measure:

- Looking weather forecast farmers are advised for second top dressing of nitrogen in paddy transplanted in second fortnight of June (30 kg N through urea) at 45-50 DAT while first top dressing of nitrogen in paddy transplanted in first fortnight of June at 25-30 DAT. Gap filling are advised in order to maintain optimum plant stand Under prevailing weather situation, there is possibility for infestation of stem borer, hence advised to use Pheromone trap@ 5 per ha) at 25-30 DAT. There is possibility for attack of khaira disease, hence advised to spray ZnSO₄@ 5 kg + 20 kg urea dissolved in 800 litres of water.
- Maize- Farmers are advised to maintain optimum moisture condition as they are most susceptible to water logging Second top dressing of N (through urea) at 45-50 DAS(Silking stage).
- Bajra: Sowing of Bajra varieties such as ICMB-155, WCC-65, ICTP-8203, Raj-17.
- Arhar: Sowing of late varieties such as Bahar and PDA-11 may be done They are advised for drainage of excess water Thinning are advised as to remove extra plants

and to maintain optimum plant stand Urd/mung. Mung varieties such as Pant mung-1, Narendra mung-1, Pant mung-4, Malviya Jyoti may be sown Sowing of urd varieties such as Pant urd-35, Narendra urd-1, Pant urd-30 Azad urd-2 may be done.

- Fruit Plantation of mango, guava, ber, aonla, papaya and citrus etc may be done.

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

10-09-2020/(0807 to 0827) GMT
10-09-2020/(1337 to 1357) IST

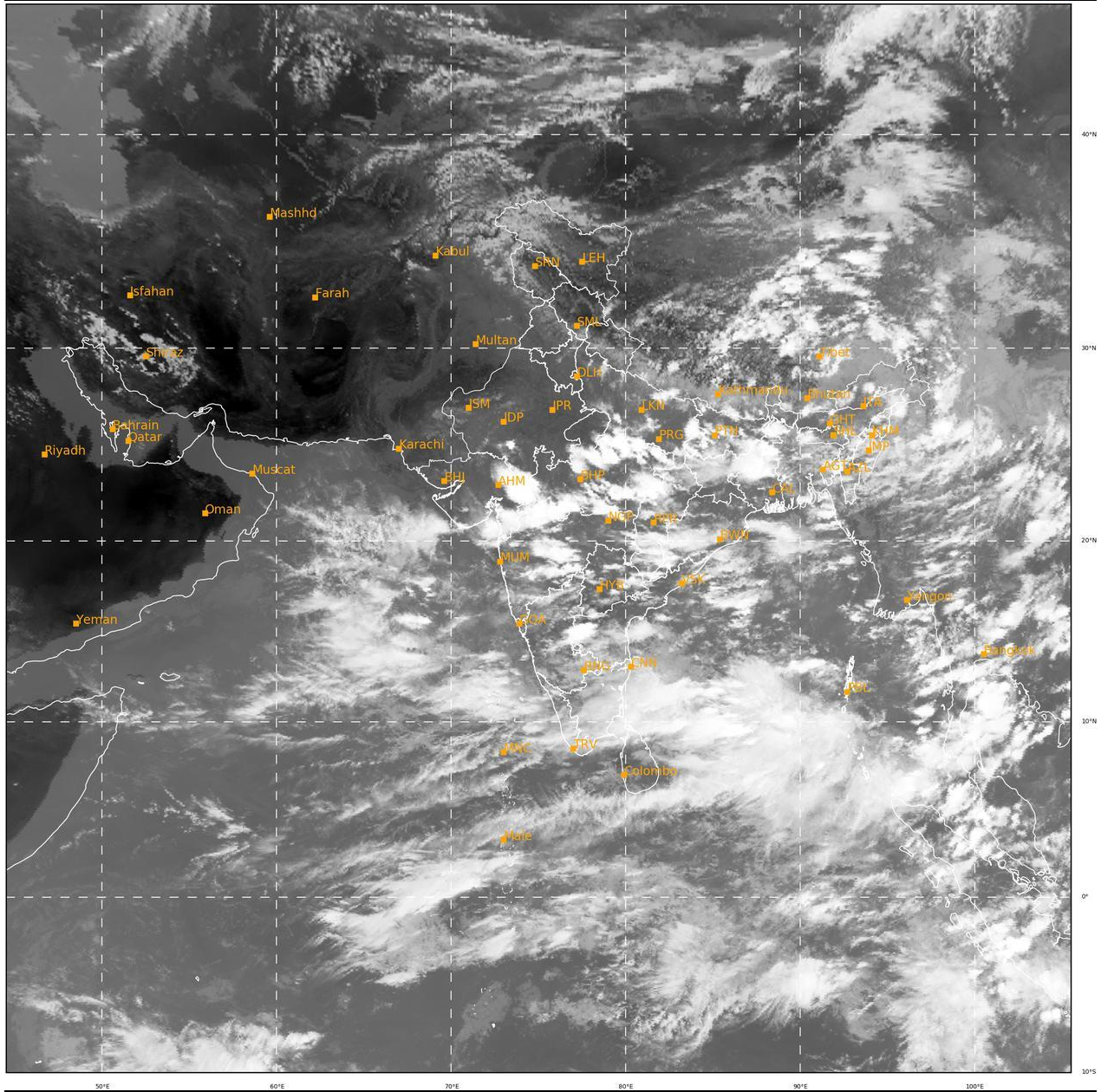


Figure: 1. Latest available satellite picture as on 10 September 2020 at 1456 Hrs (IST). (Source: IMD).

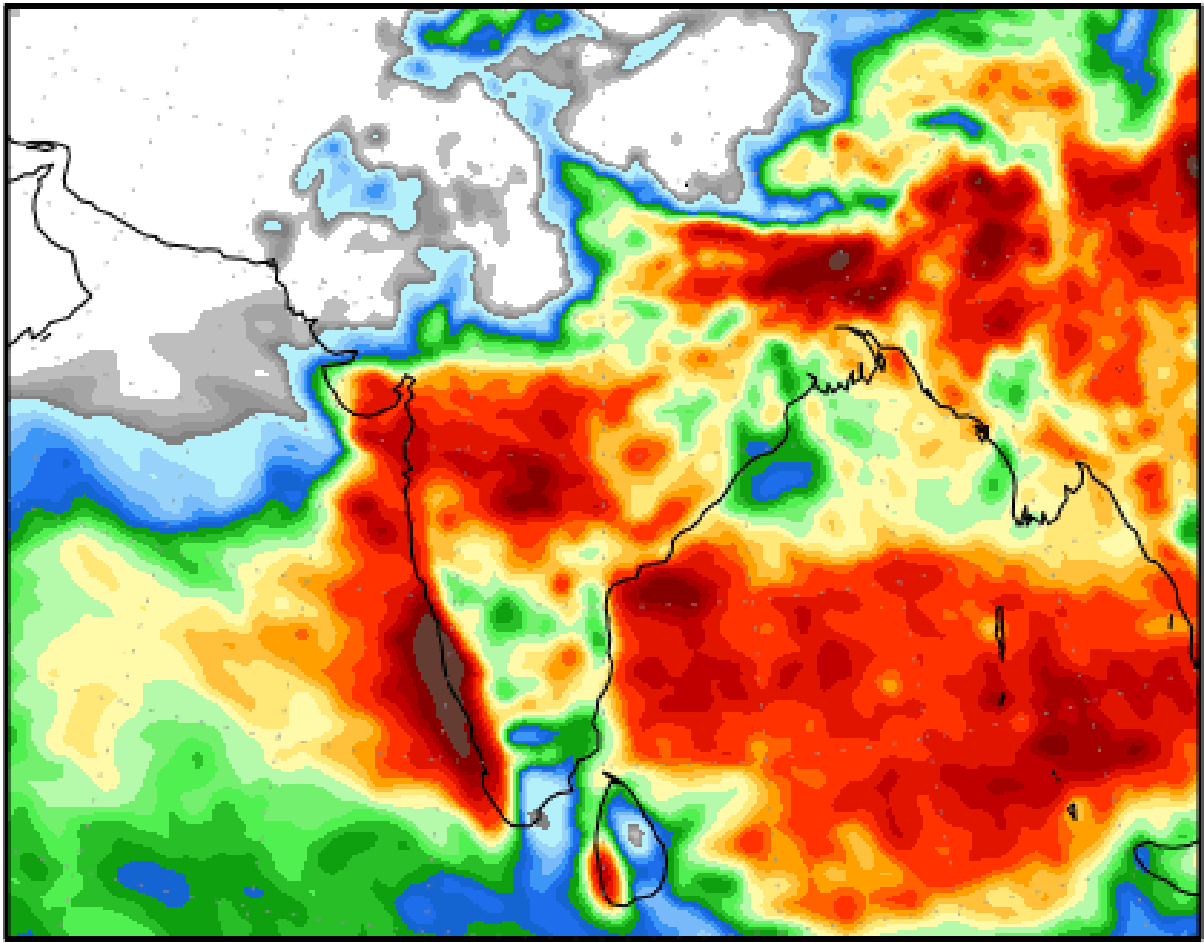


Figure:2. Precipitation forecast for 10 to 18 Sep 2020 (Source: NOAA NCEP).

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