

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 04 September 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The western end of the Monsoon Trough at mean sea level lies south of its normal position and is likely to remain so during next 24 hours. The eastern end lies to the north of its normal position. The Monsoon trough is likely to shift to the north of its normal position from 05th September onwards.
- A cyclonic circulation lies over northwest Rajasthan and another over northwest Madhya Pradesh in the lower tropospheric levels. Under the influence of the above systems, isolated Heavy rainfall accompanied with thunderstorm & lightning very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana & Chandigarh and Rajasthan on 04th September and over Uttarakhand during 04th-06th September, 2020.
- A cyclonic circulation lies over southeast and adjoining eastcentral Arabian Sea off Karnataka & north Kerala coasts at lower & middle tropospheric levels. This circulation is likely to meander over the same region during next 3-4 days. Under its influence, Fairly widespread to widespread rainfall with isolated heavy falls and thunderstorm & lightning very likely over Peninsular India during next 4-5 days.
- Moderate thunderstorms with lightening very likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and Rajasthan 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 Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; at many places over Andaman & Nicobar Islands, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Punjab, Rajasthan, Konkan & Goa, Madhya Maharashtra, Rayalaseema and South Interior Karnataka; at a few places over Assam & Meghalaya, Nagaland, Manipur,

Mizoram & Tripura, East Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal, Coastal & North Interior Karnataka, Kerala & Mahe and Lakshadweep; at isolated places over Gangetic West Bengal, Odisha, Jharkhand, West Uttar Pradesh, East Madhya Pradesh, Gujarat state, Marathawada, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam and Telangana.

- Heavy to very heavy rainfall observed at isolated places over East Rajasthan and heavy rainfall at isolated places over Chhattisgarh, Kerala and Himachal Pradesh.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hrs IST of today): at isolated places over Assam & Meghalaya, Haryana, Punjab, Rajasthan, East Madhya Pradesh, Chhattisgarh, Marathawada, Karnataka, Rayalaseema and Kerala & Mahe.
- Maximum Temperature Departures as on 03-09-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Vidarbha; at a few places over Madhya Maharashtra and Assam & Meghalaya; at isolated places over Madhya Pradesh, Telangana, Chhattisgarh and Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at most places over West Bengal & Sikkim, Marathwada and Odisha; at a few places over Bihar, Saurashtra & Kutch and Konkan & Goa; at isolated places over Uttarakhand, East Pradesh, Gujarat region, South Interior Karnataka and Kerala. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Rajasthan; below normal (-1.6°C to -3.0°C) at a few places over West Rajasthan and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.5°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 04-09-2020: Minimum temperatures are appreciable above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over Madhya Maharashtra and SubHimalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Haryana, Chandigarh & Delhi and Marathawada; at a few places over Gujarat state, Vidharbha, Nagaland, Manipur, Mizoram & Tripura and Interior Karnataka and at isolated places over Himachal Pradesh, Rajasthan, Uttar Pradesh, Telangana, Bihar, Coastal Andhra Pradesh & Yanam and Odisha. They are below normal (-1.6°C to -3.0°C) at isolated places over Madhya Pradesh and Assam & Meghalaya and near normal over rest parts of the country. The lowest minimum temperature of 19.0°C reported at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 04 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Rayalaseema, south interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea and Squally weather with wind (speed reaching 40- 50 kmph) southeast & east central Arabian Sea. Fishermen are advised not to venture into these areas.
- 05 September (Day 2): Heavy rainfall very likely at isolated places over Uttarakhand, East Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest & Southeast Arabian Sea and Maldives area and Squally weather with wind (speed reaching 40-50 kmph) along & off Kerala coast. Fishermen are advised not to venture into these areas.
- 06 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, South interior Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Uttarakhand, Bihar, Odisha, Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, Coastal & North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Bihar, Jharkhand, Gangetic West Bengal, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and

Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest & Southeast Arabian Sea and Maldives area and Squally weather with wind (speed reaching 40-50 kmph) along & off Kerala coast, Lakshadweep and Comorin area. Fishermen are advised not to venture into these areas.

- 07 September (Day 4): Heavy rainfall likely at isolated places over Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal, Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 45-55 kmph) likely over Southwest Arabian Sea and Squally weather with wind (speed reaching 45-55 kmph) along & off Kerala coast. Fishermen are advised not to venture into these areas.
- 08 September (Day 5): Heavy rainfall likely at isolated places over Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. 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., 04 to 12 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.3 °C lower and Actual minimum temperature was 0.7 °C higher as compared to its normals. Total BSS was 40.2 hrs. with an average of 5.7 hrs. The daily average evaporation and wind speed was 3.3 mm and 5.8 km/hr

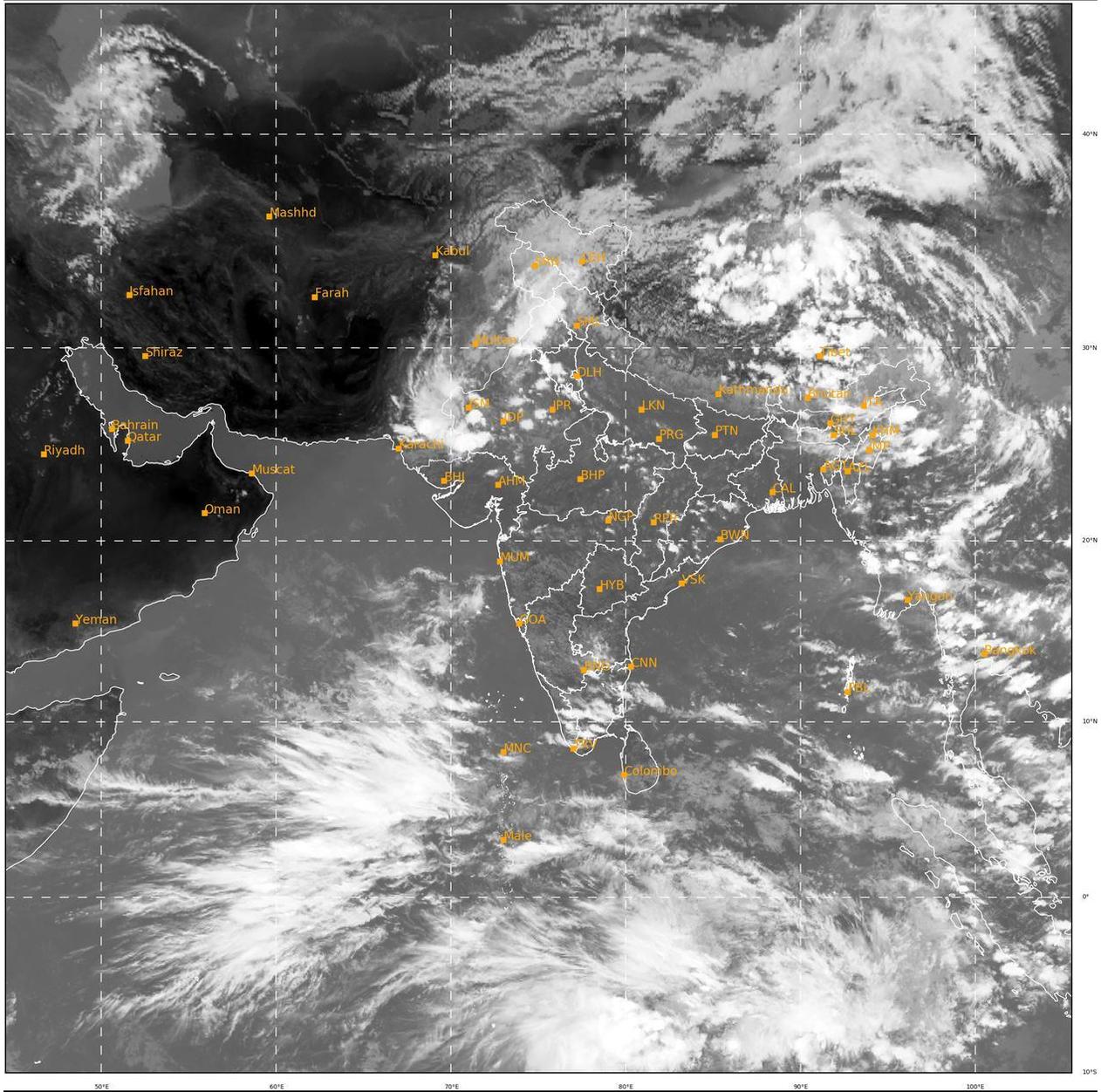
respectively. The daily average RH during morning and afternoon was 93.7 % and 71.9 % respectively.

Contingency measure:

- Pearl millet: Vegetative to reproductive stage: Carry out hand weeding and interculturing operations at vapsa condition and apply recommended dose of fertilizer (Top dressing). Protect early sown crop from birds.
- Paddy: Vegetative: Apply carbofuran 3 G 33 kg per hectare after drain out water from the field for control of stem borer. Hand weeding should be done.
- Tobacco: Transplanting: Carry out transplanting of seedlings of tobacco crop at recommended spacing.
- COTTON: Vegetative to reproductive: Weeding and inter-culturing should be done at vapsa condition. For control of pink boll worm infestation install the pheromone trap @ 16 per hectare. Apply carbaryl 50% WTP 40 gm in 10 liter water.
- Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- Cattle: Provide adequate fodder and keep the animals in clean shed. Give stored fodder balanced mineral mixture in diet. Protect shed from rain and wind. Care should be taken in rainy days for cattle and stored dry fodder.

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

04-09-2020/(0800 to 0827) GMT
04-09-2020/(1330 to 1357) IST



225

946

IMD, DELHI

Figure: 1. Latest available satellite picture as on 04 September 2020 at 1357 Hrs (IST). (Source: IMD).

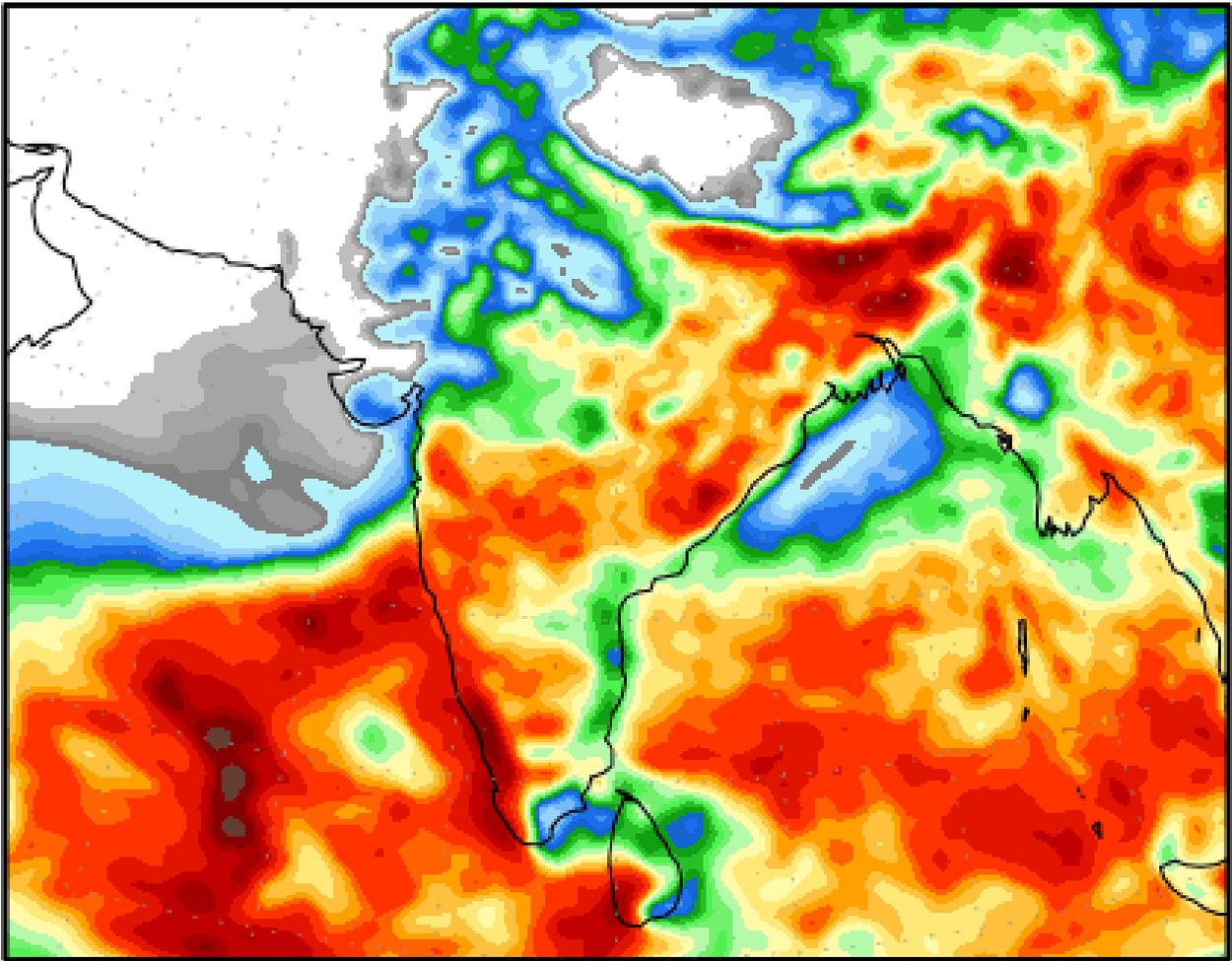


Figure:2. Precipitation forecast for 04 to 12 Sep 2020 (Source: NOAA NCEP).

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