

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 09 September 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over central parts of West Madhya Pradesh & adjoining East Rajasthan extending upto middle tropospheric levels tilting southwestwards with height. It is very likely to persist over the same region during next 3 days.
- The monsoon trough lies south of its normal position. It is very likely to be south of its normal position during next 4 days.
- A trough runs from Northeast Arabian Sea to north Odisha across south Gujarat, south Madhya Pradesh and north Chhattisgarh tilting southwards with height between 3.1 km & 5.8 km above mean sea level.
- A Low Pressure Area is likely to form over North and adjoining Central Bay of Bengal around 11th September, 2021. It is likely to become more marked during subsequent 48 hours.
- Under the influence of likely formation of a Low Pressure area and its west-northwestward movement; consequent strengthening of lower level westerlies along the west coast; fairly widespread to widespread rainfall with isolated heavy to very heavy falls likely over north Konkan, south Gujarat region, Odisha, Chhattisgarh during 12th-13th September.
- Under the influence of cyclonic circulation over West Madhya Pradesh; Fairly widespread rainfall with isolated heavy to very heavy falls are likely over Gujarat State, southeast Rajasthan and West Madhya Pradesh during 09th-12th September.
- Rainfall activity is likely to increase with isolated heavy falls over south Haryana, southwest Uttar Pradesh during 10th-11th September. Isolated heavy to very heavy falls are likely over Uttarakhand and isolated heavy falls are likely over Jammu division and Himachal Pradesh during next 3 days.
- Reduced rainfall activity very likely to continue over south peninsular India till 11th and increase thereafter with scattered to fairly widespread rainfall from 12th September. Isolated heavy falls are likely over Karnataka, Kerala, Telangana and Andhra Pradesh on 13th September.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Himachal Pradesh, Gujarat state, Konkan & Goa and Coastal Karnataka; at many places over Andaman & Nicobar Islands, Arunachal Pradesh, West Bengal & Sikkim, Jharkhand, Madhya Pradesh, Madhya Maharashtra, Vidarbha and Kerala & Mahe; at a few places over Assam & Meghalaya, Odisha, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Chhattisgarh and Interior Karnataka and at isolated places over Bihar, Uttar Pradesh, Haryana, Chandigarh & Delhi, Punjab, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely heavy rainfall at isolated places over Saurashtra & Kutch and very heavy rainfall at isolated places over Gujarat Region, East Rajasthan, Tamilnadu and heavy rainfall at isolated places over Jammu division, Punjab, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Gangetic West Bengal, Jharkhand, Odisha, Coastal & South Interior Karnataka, Mizoram and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu division, Himachal Pradesh, East Uttar Pradesh, Bihar, Gujarat state, Vidarbha, Coastal Odisha, Coastal Andhra Pradesh & Yanam, Konkan & Goa, West Bengal & Sikkim, Assam & Meghalaya and Tripura.
- Maximum Temperature Departures as on 08-09-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Uttarakhand and Sub-Himalayan West Bengal & Sikkim; at a few places over Arunachal Pradesh, Bihar and East Madhya Pradesh; at isolated places over Assam & Meghalaya, West Madhya Pradesh and Coastal Andhra Pradesh & Yanam. They were below normal (-1.6°C to -3.0°C) at most places over North Interior Karnataka; at many places over Himachal Pradesh, Saurashtra & Kutch and Telangana; at a few places over Vidarbha, Chhattisgarh and Gangetic West Bengal; at isolated places over Punjab, East Rajasthan, Gujarat Region, Jharkhand and Odisha. Yesterday, the highest maximum temperature of 40.8°C was reported at Jaisalmer (West Rajasthan).

- Minimum Temperature Departures as on 08-09-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan; at isolated places over Himachal Pradesh and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Uttarakhand; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and East Rajasthan; at a few places over East Uttar Pradesh and East Madhya Pradesh; at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha and Madhya Maharashtra. They are below normal (-1.6°C to -3.0°C) at a few places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C is reported at Khargone (West Madhya Pradesh) and Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 09 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, East Rajasthan, West Madhya Pradesh, Gujarat Region and Saurashtra & Kutch and heavy rainfall at isolated places over Jammu division, Himachal Pradesh, Punjab, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning & gusty winds (40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Uttarakhand, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely Northeast Arabian Sea along & off Gujarat-north Maharashtra coasts and Andaman Sea. Fisherman are advised not to venture into these areas.
- 10 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, East Rajasthan, Andaman & Nicobar Islands and Gujarat Region and heavy rainfall at isolated places over Jammu division, Himachal Pradesh, Haryana, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Konkan & Goa. Thunderstorm accompanied with lightning & squall (50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Uttarakhand, West Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Assam

& Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely Northeast Arabian Sea along & off Gujarat-north Maharashtra coasts and Andaman Sea. Fisherman are advised not to venture into these areas.

- 11 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, East Rajasthan and Gujarat Region and heavy rainfall at isolated places over Himachal Pradesh, Haryana, Uttar Pradesh, West Rajasthan, West Madhya Pradesh, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Konkan & Goa and Coastal Karnataka. Thunderstorm accompanied with lightning & squall (50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Uttarakhand, West Uttar Pradesh, Rajasthan, Gangetic West Bengal and Kerala & Mahe. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely over Andaman Sea. Fisherman are advised not to venture into these areas.
- 12 September (Day 4): Heavy to very heavy rainfall likely at isolated places over East Rajasthan, Odisha, Gujarat Region and Konkan & Goa; heavy rainfall at isolated places over West Rajasthan, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and north Kerala. Thunderstorm accompanied with lightning likely at isolated places over Madhya Pradesh, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Strong wind (speed 45-55 kmph to gusting 65 kmph) likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 45-55 kmph to gusting 65 kmph) very likely Northwest & Central Bay of Bengal along & off West Bengal-Odisha coasts. Fisherman are advised not to venture into these areas.
- 13 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Odisha, Gujarat Region and Konkan & Goa; heavy rainfall at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Saurashtra & Kutch, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Madhya Pradesh, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Strong wind (speed 45-55 kmph to gusting 65

kmph) likely over Southwest & Westcentral Arabian Sea. Squally weather (wind speed 45-55 kmph to gusting 65 kmph) very likely Northwest & Central Bay of Bengal along & off West Bengal-Odisha coasts. Fisherman are advised not to venture into these areas. Kindly download MAU

- The weather outlook for seven days i.e., 09 Sep to 17 Sep 2021 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 1.5 °C and the actual minimum temperature was 0.8 °C higher as compare to their normals. Total BSS was 29.4 hrs. with an average of 4.2 hrs. The daily average evaporation and wind speed was 4.1 mm and 4.6 km/hr respectively. The daily average RH during morning and afternoon was 92.4 % and 75.4 % respectively.

Contingency measure:

- Pearl millet : Grain filling/ maturity : Protect the crop from bird damage. Harvest early sown mature crop and keep it at safe place to protect from rain. Tobacco : Weeding in tobacco nursery is advised. Preapare land for tobacco transplanting. Carry out transplanting of seedlings of tobacco crop at recommdoned spacing (90 cm x 75 cm or 105 cm x 90 cm). Gap filling, inter-culturing and hand weeding in established transplanted crop is advised.
- 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. Apply second split dose of Nitrogen fertilizer (40 kg N/ha) Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Castor : Vegetative Growth : Cercospora leaf spot disease is caused by cercospora fungus. For controlling of this disease Mencozeb 75% WP 25gm in 10 lit of water should be sprayed. If disease severity is higher, do second spray after 15 days.
- 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.

- Mango : Farmers are advised to clean the orchards by removing dead plant debris and prepare for excess water drain out from the field. It is the best time for plantation of fruit orchard.
- 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.

09-09-2021/(0800 to 0827) GMT
09-09-2021/(1330 to 1357) IST

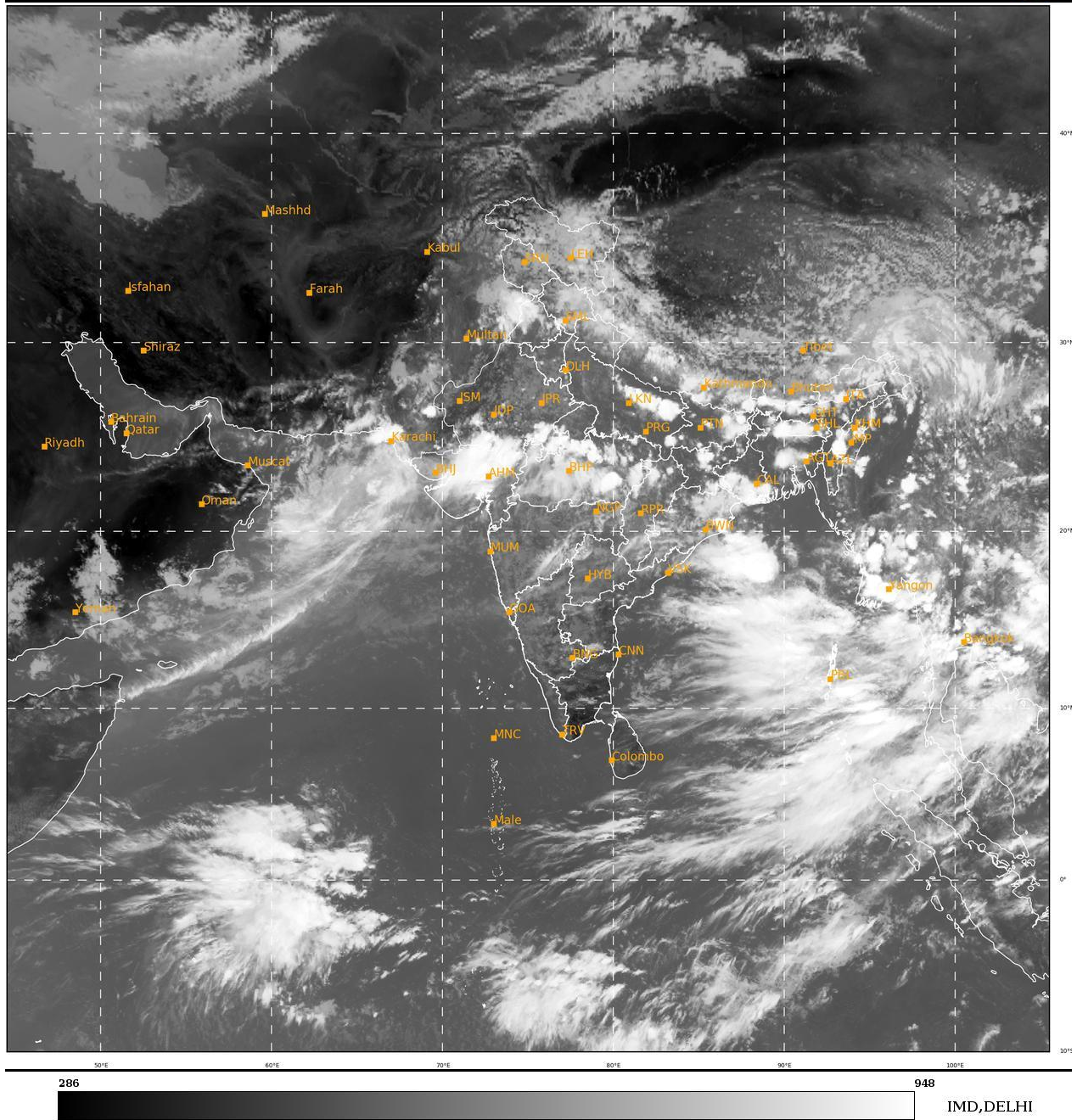


Figure: 1. Latest available satellite picture as on 09 Sep 2021 at 1357 Hrs (IST). (Source: IMD).

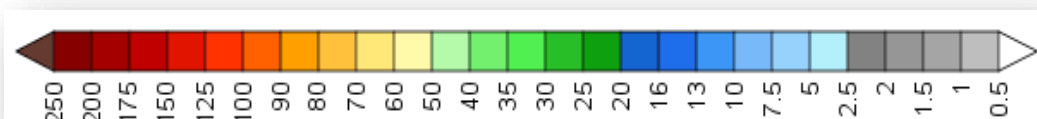
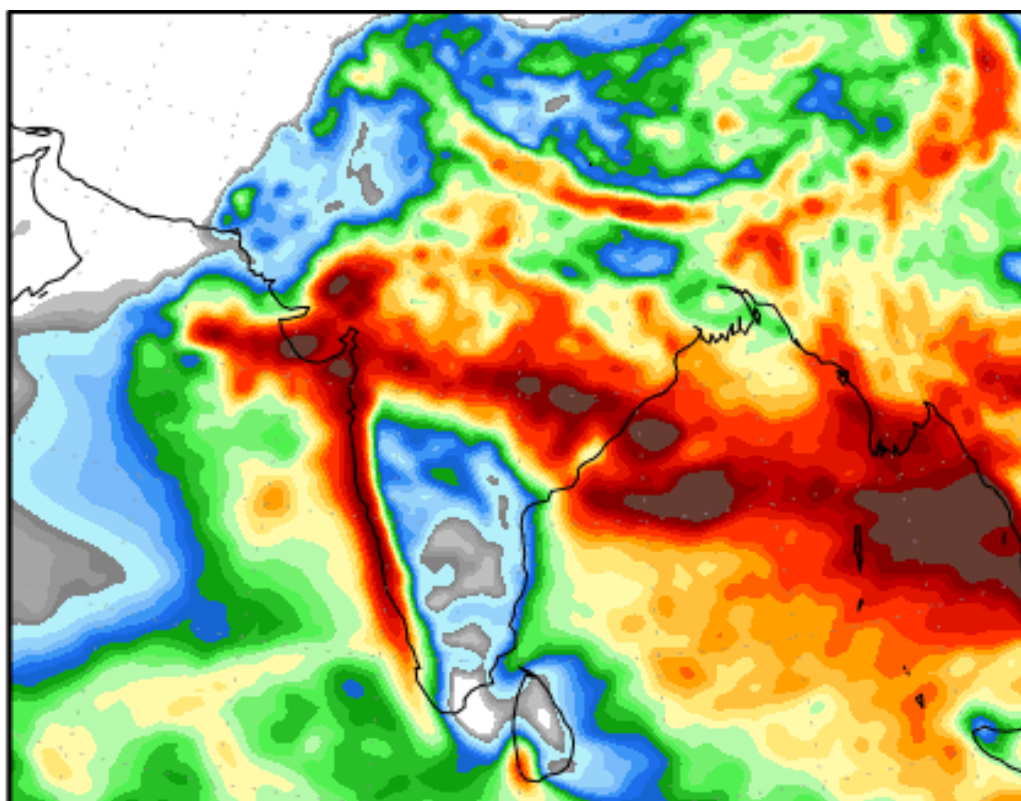


Figure:2. Precipitation forecast for 09 Sep to 17 Sep 2021 (Source: NOAA NCEP).

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