

All India Coordinated Research Project on Agrometeorology

CRIDA, Santosh nagar, Hyderabad – 500 059

Daily Crop Weather Information as on 11 July 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Northern Limit of Monsoon (NLM) continues to pass through Lat. 25°N/Long. 60°E, Lat. 25°N/Long. 65°E, Barmer, Jodhpur, Churu, Ludhiana, Kapurthala and Lat. 33°N/Long. 74.5°E.
- The well marked low pressure area over East Uttar Pradesh & adjoining Bihar now lies as a Low Pressure Area over northeast Uttar Pradesh & adjoining Bihar. Associated cyclonic circulation extends upto 7.6 km above mean sea level.
- The seasonal trough across the northern plains is likely to shift further northwards after 48 hours. As a consequence, widespread of rainfall with heavy to very heavy falls at isolated places are likely over Bihar and adjoining areas of northeast Uttar Pradesh during 11th-13th July with isolated extremely heavy falls over north Bihar during next 48 hours and northeast Uttar Pradesh during next 24 hours. Widespread of rainfall with isolated heavy to very heavy falls are likely to continue over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya (isolated extremely heavy falls as well), Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura during next 2-3 days.
- Widespread of rainfall with isolated heavy to very heavy and extremely heavy falls are likely to continue over Konkan & Goa and Coastal Karnataka during next 24 hours. Intensity of rainfall is very likely to reduce gradually during the subsequent 3-4 days.
- Widespread of rainfall with isolated heavy to very heavy falls are likely over Himachal Pradesh and Uttarakhand during next 4-5 days.
- The images showing the latest satellite picture in figure. 1

Main Weather Observations (IMD)

- Rain/Thunder showers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over East Uttar Pradesh, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal

& Sikkim, Konkan & Goa, Coastal Karnataka, Lakshadweep and Kerala & Mahe; at many places over Uttarakhand, Punjab, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Marathawada, Interior Karnataka and Madhya Maharashtra; at a few places over Jammu & Kashmir, Himachal Pradesh, Chhattisgarh, East Madhya Pradesh, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and at isolated places over Gujarat region, Haryana, Chandigarh & Delhi, West Uttar Pradesh and Vidarbha.

- Heavy rainfall with extremely heavy falls observed at isolated places over Assam & Meghalaya and Konkan & Goa; Heavy rainfall at a few places with very heavy falls at isolated places over Arunachal Pradesh, East Uttar Pradesh and Madhya Maharashtra; Heavy Rainfall recorded at isolated places over Tripura, West Uttar Pradesh, Coastal Karnataka and Lakshadweep.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Punjab, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry, & Karaikal.
- Maximum temperature departures as on 10-07-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand, Telangana and Coastal Andhra Pradesh & Yanam; at a few places over Himachal Pradesh, Gujarat, Vidarbha, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Lakshadweep; above normal (1.6°C to 3.0°C) at many places over West Rajasthan; at a few places over Jammu & Kashmir, Jharkhand, Gangetic West Bengal and Chhattisgarh; at isolated places over Madhya Pradesh. They were markedly below normal (-5.1°C or less) at many places over Arunachal Pradesh; at a few places over Assam & Meghalaya; appreciably below normal (-3.1°C to -5.0°C) at most places over Bihar; at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over Konkan & Goa and Coastal Karnataka; at isolated places over Punjab and Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.2°C recorded at Churu (West Rajasthan).
- Minimum temperature departures as on 11-07-2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu & Kashmir, Himachal Pradesh and Rajasthan; above normal (1.6°C to 3.0°C) at most places over Haryana and Chandigarh & Delhi; at many places over Gujarat, Punjab, Uttarakhand and Andaman & Nicobar Islands; at a few places over Madhya Pradesh, Telangana, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim and Odisha and at isolated places over Vidarbha, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and West Uttar Pradesh. They are appreciably below normal (- 3.1°C to -5.0°C) at isolated places over East Uttar Pradesh and Lakshadweep; below normal (-1.6°C to -3.0°C) at a few places over Arunachal Pradesh and Marathawada and at isolated

places over Assam & Meghalaya, Konkan & Goa and Coastal Karnataka and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 11 July (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa, East Uttar Pradesh and Bihar; Heavy to very heavy rainfall with extremely heavy falls at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Coastal & South Interior Karnataka, Madhya Maharashtra, Uttarakhand and Nagaland, Manipur, Mizoram & Tripura; heavy rainfall at isolated places over Jammu division, Himachal Pradesh, Punjab, north Haryana & Chandigarh, West Uttar Pradesh, Jharkhand, Kerala & Mahe and North Interior Karnataka. Thunderstorm accompanied with lightning at isolated places very likely over Madhya Pradesh, Jharkhand and Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & west central Arabian Sea, along & off Gujarat-Maharashtra-Goa coasts. Squally weather is likely to prevail over Karnataka coast. Fishermen are advised not to venture into these areas.
- 12 July (Day 2): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Bihar; Heavy to very heavy rainfall at isolated places over Konkan & Goa, Uttarakhand, Himachal Pradesh, East Uttar Pradesh and Arunachal Pradesh; heavy rainfall at isolated places over Coastal Karnataka, Madhya Maharashtra, West Uttar Pradesh, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & west central Arabian Sea. Fishermen are advised not to venture into these areas.
- 13 July (Day 3): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; Heavy to very heavy rainfall at isolated places over Uttarakhand and Bihar; heavy rainfall at isolated places over Coastal Karnataka, Konkan & Goa, Punjab, north Haryana & Chandigarh, East Uttar Pradesh, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh and Arunachal Pradesh. Thunderstorm accompanied with lightning at isolated places very likely over Odisha. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & west central Arabian Sea. Fishermen are advised not to venture into these areas.
- 14 July (Day 4): Heavy to very heavy rainfall at isolated places likely over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; heavy rainfall at isolated places over Jammu division, Himachal Pradesh, Punjab,

north Haryana & Chandigarh, Uttar Pradesh, Bihar, Arunachal Pradesh, Coastal Karnataka, Lakshadweep and Konkan & Goa. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & west central Arabian Sea. Fishermen are advised not to venture into these areas.

- 15 July (Day 5): Heavy to very heavy rainfall at isolated places likely over Uttarakhand; heavy rainfall at isolated places over Himachal Pradesh, Punjab, north Haryana & Chandigarh, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal, Assam & Meghalaya, Arunachal Pradesh, Coastal & South Interior Karnataka and Konkan & Goa. Rough to very rough sea conditions (with wind speed reaching 40-50 kmph) are likely to prevail over southwest & west central Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e.*, 11 to 19 July 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower 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)

Chhattisgarh

Weather condition:

Very light to moderate rainfall is received in Chhattisgarh state during past few days. The maximum temperature was ranged between 26-34°C and minimum temperature was ranged between 24-26°C.

Contingency measure:

- In transplanted rice to control narrow leaf grass and broad weeds, apply Butachlor @ 3.0 litres. per ha. +500 litres of water within 3 to 7 days of planting. Monsoon rainfall has started in maximum portions of Chhattisgarh state. Therefore farmers should start sowing of *kharif* crops like paddy, soybean, arhar, sesamum, maize, urd, moong, groundnut etc., Seed treatment should be done before sowing. Nursery

should be prepared for 1/10th part of the main rice fields. For this coarse grain rice seed crops should be used @ 50 kg per ha. or thin grain rice variety seeds can be used @ 40 kg. per ha. In wilt affected regions mixed cropping with arhar and jowar will help in control of wilt in arhar, groundnut, soybean and other pulse crops should be sown with proper drainage arrangement. For this seeds should be treated with Rhizobium culture before sowing. The quantity of Rhizobium culture @ 5g + PSB @ 10 g/kg. seed should be used for this seed treatment. For control of weeds in soybean pre-emergence herbicides like Quizalofop-p-ethyl, Imazethapyr or Pendimethalin or Metribuzin should be sprayed in recommended quantity.

- Fruits & Vegetables: Prepare seedlings for *khariif* vegetables. Seeds of pumpkin, bitter gourd and bottle guard should be sown by vegetable growers in the fields. Need based intercultural operations should be done in tomato, brinjal, chillies, okra and other vegetable crops. Farmers are advised to start plantation of banana and new fruit plants.
- Animal husbandry: For control of flies, cattle shed's floors should be cleaned with phenyl water. In rainy season, cattle should be given drinking water and should not be fed with pit's water. Clear water of wells and hand pump should be given to these cattle. New born calves should be given Piprazine salt/Helmicide medicine @ 30ml/ months upto 3 months. Vaccinate the animal to prevent for Haemorrhagic Septicaemia (HS) and black quarter disease. Vaccinate the poultry birds to prevent Ranikhet disease. (first F-1 in age f 7 days & second R2B in age of 8 weeks)

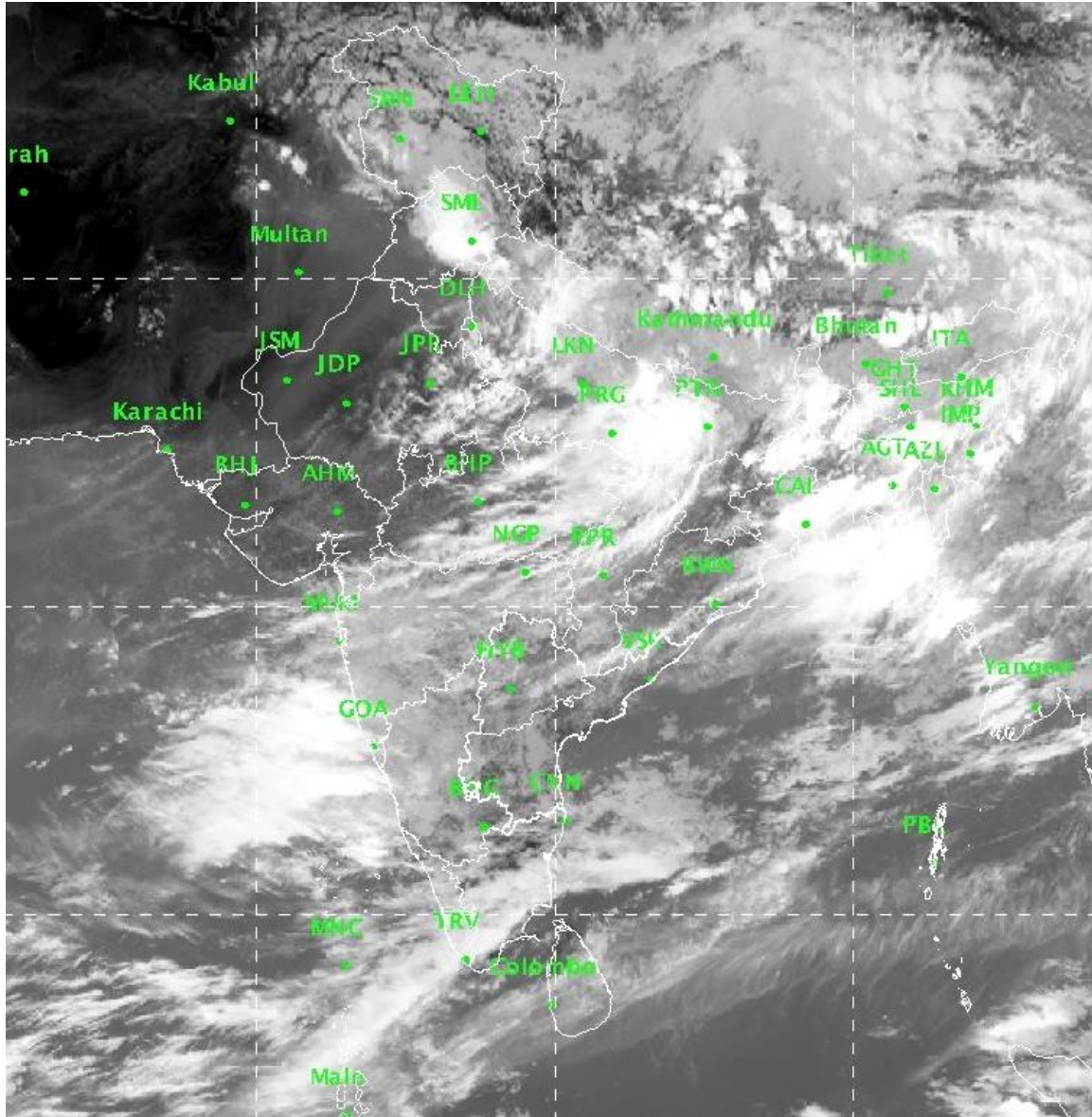


Figure: 1. Latest available satellite picture as on 11 July 2019 at 1300 Hrs (IST).

(Source: IMD).

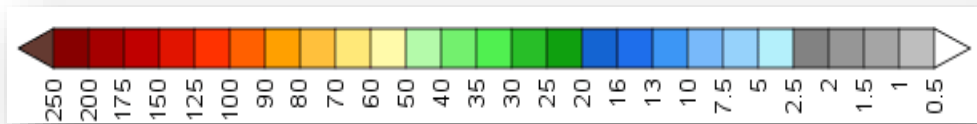
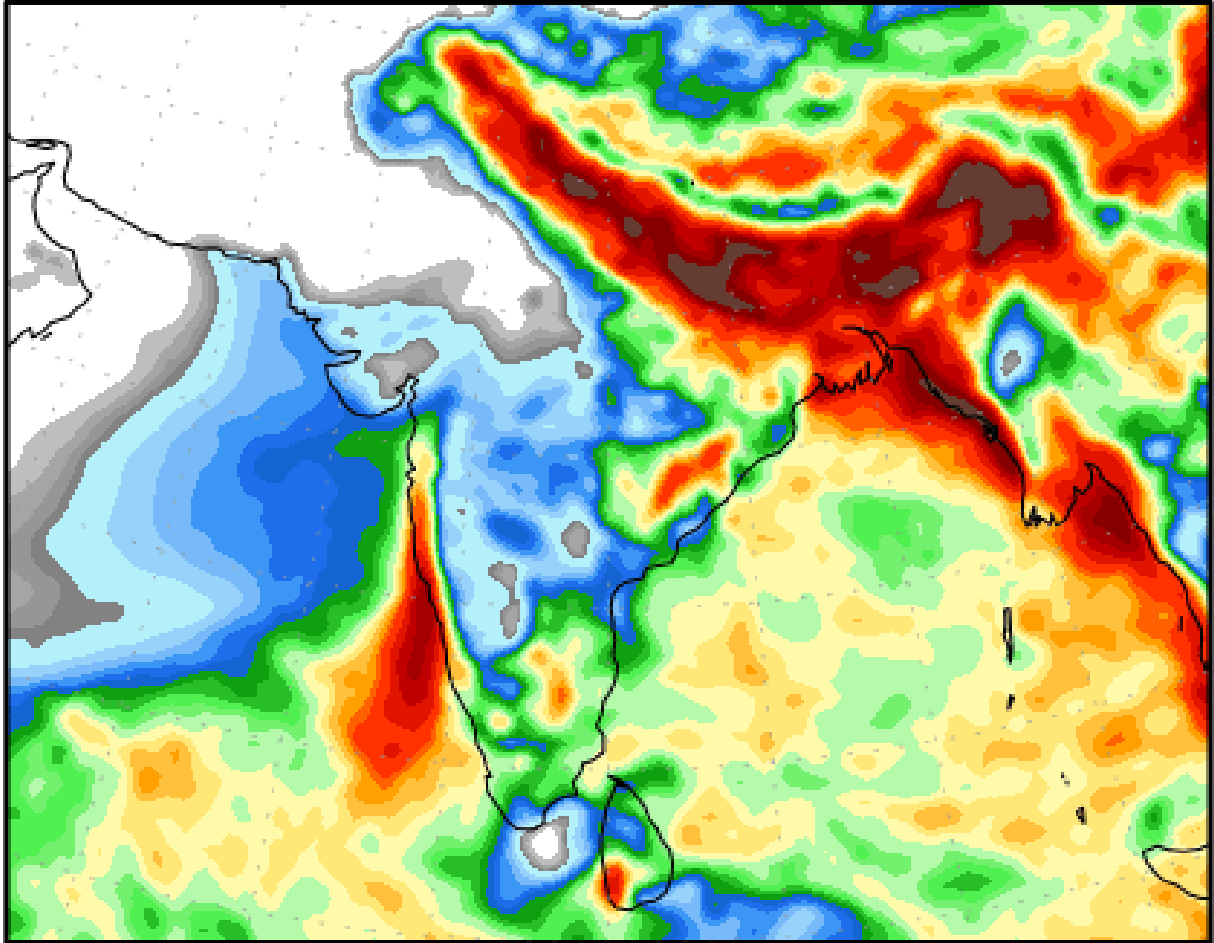


Figure:2. Precipitation forecast for 11 to 19 July 2019 (Source: NOAA NCEP).