

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 31 July 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The western end of the monsoon trough lies near to its normal position, however its eastern end is still to the north of its normal position. Convergence of lower level winds from Arabian Sea over Northwest India is very likely to continue during next 2-3 days. Under the influence of these meteorological conditions, Widespread rainfall with isolated heavy falls very likely over Jammu Division, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and Gujarat State during next 2-3 days.
- Due to convergence of strong lower level winds over the west coast, widespread rainfall with isolated heavy to very heavy falls are likely over Konkan & Goa and ghat areas of Madhya Maharashtra during 01st-03rd August, 2020. Heavy to very heavy falls also very likely over Kerala & Mahe on today, 31st July.
- Moderate to severe thunderstorm accompanied with lightning at isolated places very likely over Uttarakhand, Delhi, northwest and north east Uttar Pradesh, Telangana, Rayalaseema, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and south Coastal Andhra 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 hours IST to 1730 hours IST of yesterday): at most places over Arunachal Pradesh, SubHimalayan West Bengal & Sikkim, Konkan & Goa and Lakshadweep; at many places over Saurashtra & Kutch, Coastal Karnataka, Kerala and Andaman & Nicobar Islands; at a few places over Himachal Pradesh, Assam & Meghalaya, Madhya Maharashtra and North Interior Karnataka; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Bihar, Chhattisgarh, Odisha, Telangana, Coastal Andhra Pradesh &

Yanam, Rayalaseema, Gujarat Region, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Uttarakhand, Rajasthan, Haryana, Chandigarh & Delhi, Gujarat region, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Telangana, Marathawada and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 30-07-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Chhattisgarh; at a few places over West Madhya Pradesh and Odisha; at isolated places over East Madhya Pradesh and Jharkhand; above normal (1.6°C to 3.0°C) at most places over Rajasthan, Gangetic West Bengal, Vidarbha, Marathwada and Madhya Maharashtra; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Gujarat, Konkan & Goa and Coastal Andhra Pradesh & Yanam; at isolated places over Himachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Haryana, Chandigarh & Delhi; at isolated places over West Uttar Pradesh and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at most places over Punjab; at a few places over Lakshadweep; at isolated places over East Uttar Pradesh and Bihar and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.4°C was reported at Bikaner (West Rajasthan).
- Minimum Temperature Departures as on 30-07-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over West Rajasthan; at isolated places over Gujarat and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Uttarakhand; at a few places over Himachal Pradesh and Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Vidarbha, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam, Odisha, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura. They were below normal (-1.6°C to -3.0°C) at a few places over Assam & Meghalayan and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.0°C was reported at Khargone (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 31 July (Day 1): Heavy to very heavy rainfall very likely at isolated places over Kerala & Mahe and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Madhya Maharashtra, Marathwada and Telangana. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and South Andaman Sea. Squally weather (wind speed reaching 45-55 kmph) over Southeast Arabian Sea and along & off Kerala-Karnataka-Maharashtra coasts & Lakshadweep area. Fishermen are advised not to venture into these areas.
- 01 August (Day 2): Heavy to very heavy rainfall very likely at isolated places over Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Marathawada, Madhya Maharashtra, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & squall (speed 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha, Marathwada and Telangana. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and South Andaman Sea. Squally weather (wind speed reaching 45-55 kmph) over Southeast Arabian Sea and along & off Kerala-Karnataka-Maharashtra coasts & Lakshadweep area. Fishermen are advised not to venture into these areas.
- 02 August (Day 3): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, ghat areas of Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat State, Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with

lightning & squall (speed 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha and Telangana. Strong Wind (speed reaching 50-60 kmph) likely over South Andaman Sea and speed reaching 45-55 kmph over Southwest & adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 03 August (Day 4): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Thunderstorm accompanied with lightning & squall (speed 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Uttar Pradesh, West Madhya Pradesh, Jharkhand and Telangana. Strong Wind (speed reaching 50-60 kmph) likely over South Andaman Sea and speed reaching 45-55 kmph over Southwest & adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 04 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat State, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Thunderstorm accompanied with lightning & squall (speed 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Uttar Pradesh, West Madhya Pradesh, Jharkhand and Telangana. Strong Wind (speed reaching 50-60 kmph) likely over South Andaman Sea and speed reaching 45-55 kmph over Southwest & adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 31 July to 08 Aug 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)

Madhya Maharashtra

Weather condition:

At Solapur centre: 9 July to 15 July. (SMW 28) during this period 75.6 mm rainfall was recorded. The Maximum temperature was range from 30.5 to 35.3 °C and minimum

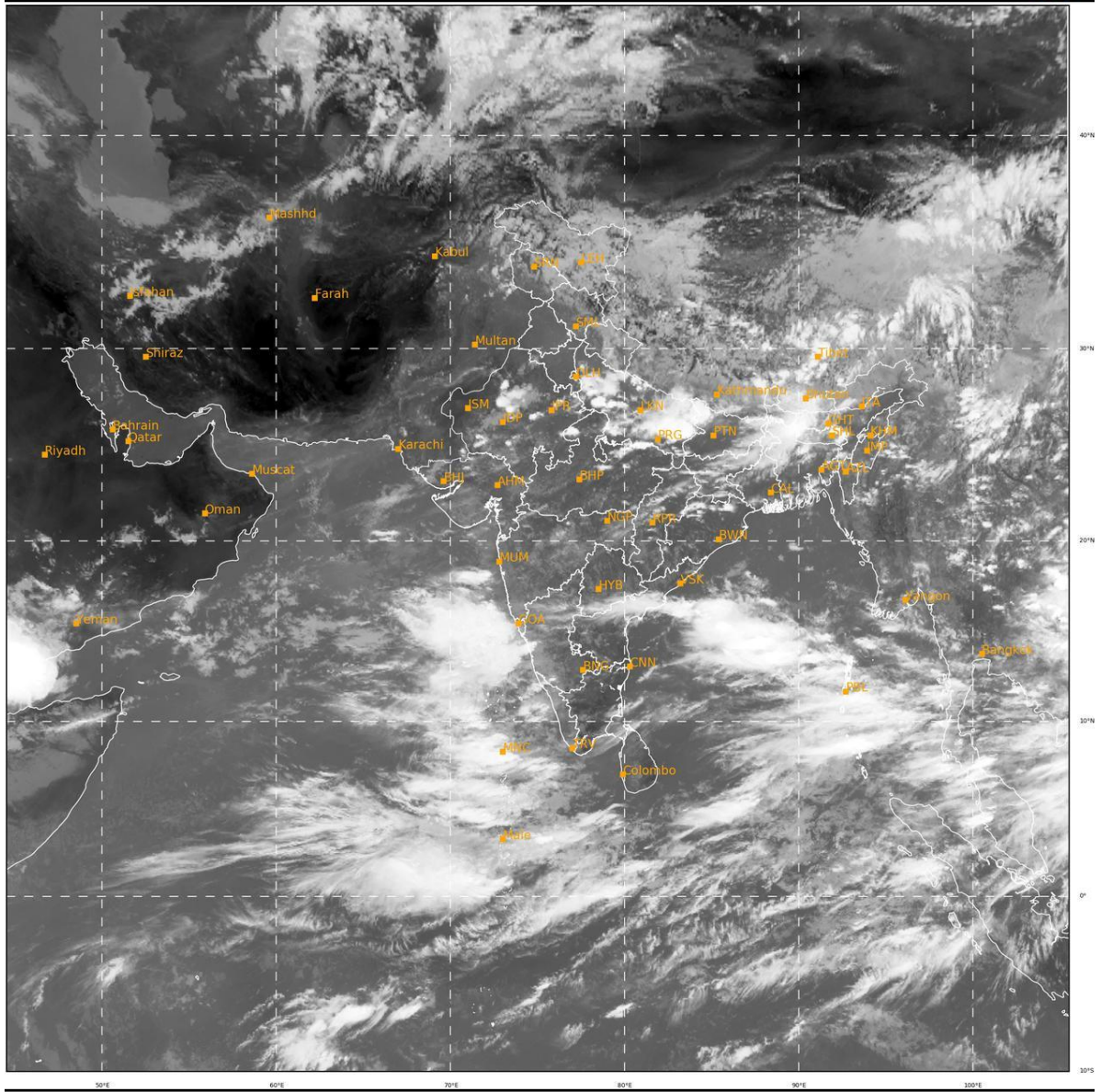
temperature range from 20.4 to 23.0 °C. relative humidity (RH I) ranged between 87 to 98 % and relative humidity (RH II) recorded was 57 to 74 %. The wind speed varied between 5.3 to 8.9 km/hr.

Contingency measure:

- Rainfall received during last week in 10 Districts of Madhya Maharashtra which comes under MPKV Jurisdiction is deficit by 81.55 %.
- Control of American Army Worm: a. Keep the field weed free by timely doing of weeding & hoeing. b. Collection of Larvae and pupae in kerosene mixed with water. c. Use of pheromone traps for collection of adults @5 per acre. d. Fill the sand or sand + lime @9:1 ratio in the apical bud. e. Apply 50,000 eggs of Trichogramma pretiosum or Telenomus remus parasite per acre after one week interval for three times.
- At the time of sowing of *Kharif* crops to avoid the incidence of pests (white grub, nematodes, termites etc) apply granular phorate mixed with fertilizers @ 10-12 kg /ha.
- For control of army worm attack on Bajra, maize, sugarcane etc use of pheromone trap five per ha.
- Do not sow the crop until sufficient moisture is available in the field.
- Use two bowl ferti-seed drill for sowing of seed and fertilizer at a time.
- For sowing of *Kharif* crops use recommended varieties and should be purchased from authorized saler only.
- The recommended dose of fertilizer i.e. for green gram 20 kg Nitrogen, 40 kg Phosphorus and for Black gram. 25 kg Nitrogen and 50 kg Phosphorus will be given at the time of sowing by using two bowl ferti- seed drill.
- If sowing of kharif crops is already taken by farmers and if dry spell is observed give protective irrigation to avoid crop loss.

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

31-07-2020/(0630 to 0656) GMT
31-07-2020/(1200 to 1226) IST



242

940



IMD, DELHI

Figure: 1. Latest available satellite picture as on 31 July 2020 at 1226 Hrs (IST). (Source: IMD).

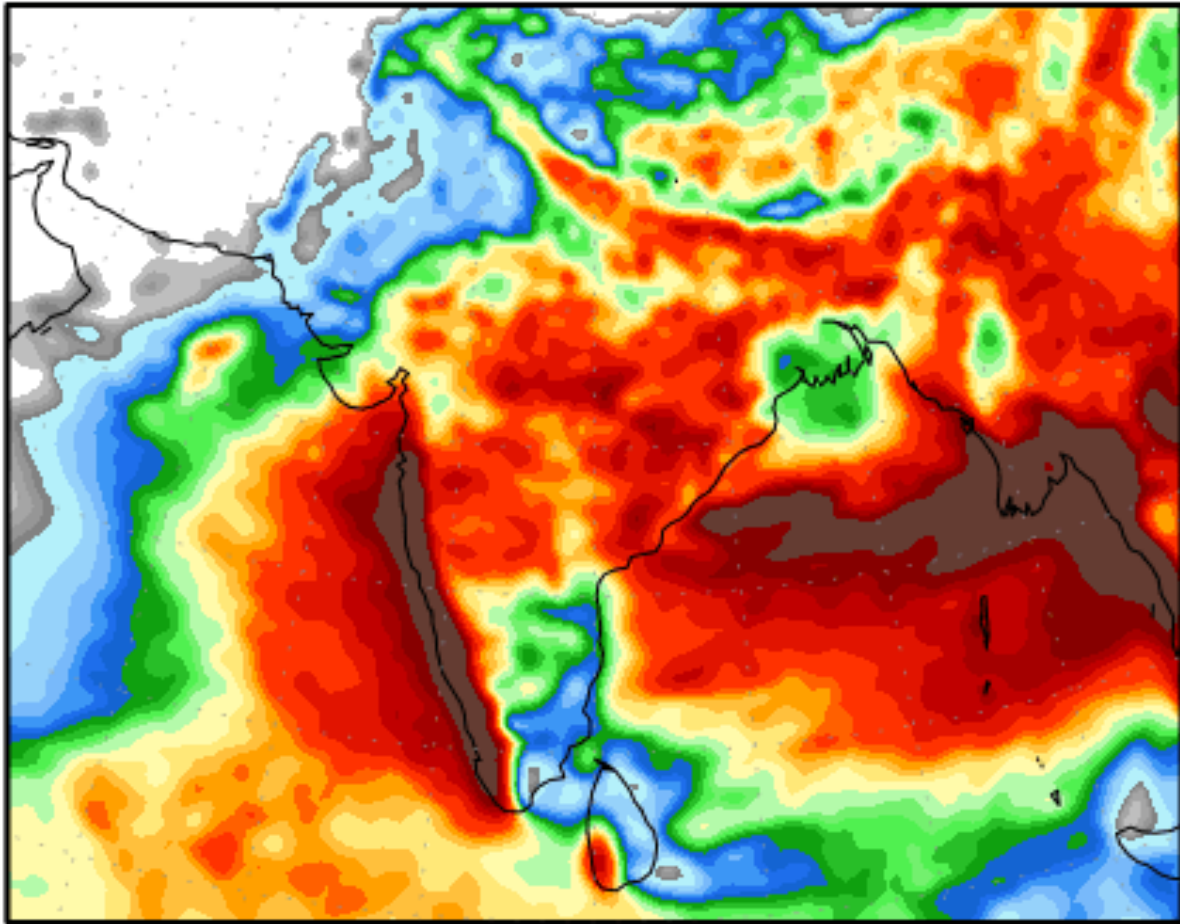


Figure:2. Precipitation forecast for 31 July to 08 Aug 2020 (Source: NOAA NCEP).

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.