

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 02 July 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over south Gujarat & neighbourhood and another cyclonic circulation lies over East Uttar Pradesh & neighbourhood in lower & mid tropospheric levels.
- Under its influence, fairly widespread to widespread rainfall activity with isolated heavy to very heavy falls very likely along West coast, Gujarat State and interior Maharashtra during next 5 days. Isolated heavy to very heavy with extremely heavy falls very likely over Konkan & Goa on 3rd & 4th July and over Madhya Maharashtra on 4th July.
- Scattered to fairly widespread rainfall with isolated heavy falls most likely over Madhya Pradesh, Vidarbha, Chhattisgarh and East Uttar Pradesh during next 24 hours and increase in intensity & distribution thereafter.
- Northeast India and East India very likely to continue to receive fairly widespread to widespread rainfall activity with isolated heavy falls during next 5 days.
- Subdued rainfall activity over Western Himalayan Region and adjoining northwest India very likely to continue during next 2 days and its distribution & intensity very likely to increase thereafter.
- 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 Konkan & Goa and Lakshadweep; at many places over Assam & Meghalaya, Marathwada, Coastal Karnataka and Telangana; at a few places over East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Arunachal Pradesh and Kerala & Mahe; and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Saurashtra & Kutch, West Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Chhattisgarh, North interior Karnataka, Tamil Nadu, Puducherry &

Karaikal, Odisha, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands.

- Thunderstorm observed (from 1730 hours IST yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Bihar, Jharkhand, Rajasthan, Madhya Pradesh, Telangana, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Sub-Himalayan West Bengal & Sikkim, Odisha, Marathwada, Tamil Nadu, Puducherry & Karaikal and Assam & Meghalaya.
- Yesterday, Heat wave observed in some parts over West Rajasthan.
- Maximum Temperature Departures as on 01-07-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over West Rajasthan; at many places over Bihar and East Rajasthan; at a few places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Gangetic West Bengal, West Madhya Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, Punjab, Madhya Maharashtra, and Gujarat region; at many places over Saurashtra & Kutch, Chhattisgarh, Jharkhand and North Interior Karnataka; at a few places over Konkan & Goa, South interior Karnataka and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at a few places over Arunachal Pradesh and Coastal Andhra Pradesh & Yanam and at isolated places over East Uttar Pradesh and Assam & Meghalaya and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 44.8°C was reported at Bikaner (West Rajasthan).
- Minimum Temperature Departures as on 01-07-2020: Minimum temperatures were markedly above normal (5.1°C or more) at Isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi; above normal (1.6°C to 3.0°C) at most places over Gujarat Region, West Bengal & Sikkim; at many places over Uttarakhand, East Rajasthan and West Madhya Pradesh; at a few places over Madhya Maharashtra and Bihar and at isolated places over Saurashtra & Kutch, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Odisha. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Vidarbha; below normal (-1.6°C to -3.0°C) at a few places over Rayalaseema and at isolated places over East Madhya Pradesh and Telangana and near normal over rest parts

of the country. Yesterday, the lowest minimum temperature of 20.3°C was reported at Amraoti(Vidarbha) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 02 July (Day 1): Heavy rainfall at a few places with very heavy falls at isolated places over Sub-Himalayan West Bengal & Sikkim; heavy to very heavy rainfall very likely at isolated places over Bihar, Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe. Heat wave conditions in isolated pockets very likely over West Rajasthan. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttar Pradesh and East Rajasthan and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Coastal & North Interior Karnataka. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & Westcentral Arabian Sea and (speed reaching 40-50 kmph) over Eastcentral Arabian Sea. Squally Weather (speed reaching 40-50 kmph) likely over Eastcentral Arabian Sea and along & off south Gujarat-Maharashtra-Goa-north Karnataka coasts. Fishermen are advised not to venture into sea over these areas.
- 03 July (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Konkan & Goa; heavy rainfall at a few places with very heavy falls at isolated places over Coastal Karnataka; heavy to very heavy rainfall very likely at isolated places over East Uttar Pradesh, East Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra and Kerala & Mahe and heavy rainfall at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Heat wave conditions in isolated pockets very likely over West Rajasthan. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Uttar Pradesh and East Rajasthan and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh,

Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam and Coastal & North Interior Karnataka. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & Westcentral Arabian Sea and (speed reaching 40-50 kmph) over Eastcentral Arabian Sea. Fishermen are advised not to venture into sea over these areas.

- 04 July (Day 3): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places likely over Konkan & Goa; Heavy to very heavy rainfall with extremely heavy falls at isolated places over Madhya Maharashtra; heavy to very heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Odisha and Gujarat state and heavy rainfall at isolated places over West Uttar Pradesh, East Rajasthan, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Telangana, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) at a few places over East Uttar Pradesh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and East Rajasthan and with lightning at isolated places over Madhya Pradesh, Bihar, Jharkhand and Coastal Andhra Pradesh & Yanam. Duststorm/thunderstorm at isolated places likely over West Rajasthan. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & Westcentral Arabian Sea and (speed reaching 40-50 kmph) over Eastcentral & Northeast Arabian Sea and north Maharashtra & south Gujarat coasts. Fishermen are advised not to venture into sea over these areas.
- 05 July (Day 4): Heavy to very heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, West Madhya Pradesh, Gujarat state and Konkan & Goa and heavy rainfall at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, and Coastal Karnataka. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) at a few places over East Uttar Pradesh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and East Rajasthan and with lightning at isolated places over Madhya Pradesh, Bihar, Jharkhand and Coastal Andhra Pradesh & Yanam. Duststorm/thunderstorm at isolated places likely over West Rajasthan. Strong

Wind (speed reaching 50-60 kmph) likely over Southwest & central Arabian Sea and and (speed reaching 40-50 kmph) over Northeast Arabian Sea and north Maharashtra & south Gujarat coasts. Fishermen are advised not to venture into sea over these areas.

- 06 July (Day 5): Heavy to very heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, West Madhya Pradesh, Gujarat state and Konkan & Goa and heavy rainfall at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, and Coastal Karnataka. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) at a few places over East Uttar Pradesh and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and East Rajasthan and with lightning at isolated places over Madhya Pradesh, Bihar, Jharkhand and Coastal Andhra Pradesh & Yanam. Duststorm/thunderstorm at isolated places likely over West Rajasthan. Strong Wind (speed reaching 50-60 kmph) likely over Southwest & central Arabian Sea and and (speed reaching 40-50 kmph) over Northeast Arabian Sea and north Maharashtra & south Gujarat coasts. Fishermen are advised not to venture into sea over these areas.
- The weather outlook for seven days i.e., 02 to 10 July 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)

Maharashtra

Weather condition:

In Vellanikkara, the maximum temperature ranges from 29.8 to 32.0 Deg C, minimum temperature ranges from 22.6 to 24.1 Deg C. Morning relative humidity ranges from 085% to 099% and afternoon relative humidity ranges from 066% to 075%. Wind speed ranges from 0.4 to 1.4 km/h. Evaporation ranges from 1.8 to 2.9 mm. Sunshine hours range from 2.0 to 6.4 hours. 5cm morning soil temperature ranges from 25.4 to 27.7 Deg C and afternoon soil temperature ranges from 32.1 to 35.2 Deg C.

Contingency measure:

- Paddy-Seedling stage: During rainy season, the micronutrient deficiency of paddy can be managed by spraying 10 gram of paddy sampoorna in one litter of water.
- Coconut- Management: During the begining of southwest monsoon season, one-kilogram lime can be applid per one matured palm by opening the coconut basin.
- Banana- Pseudo stem weevil: There is a chance of pseudo stem weevil attack in banana. As a precaution,apply 50 g neem cake powder in leaf axils. Vegetables- During rainy season, the micronutrient deficiency of vegetables can be managed by spraying 5 gram of vegetable sampoorna in one litter of water.
- Animal Husbandry- Keep the cattle shed and premises clean to avoid mosquito breeding. Avoid waterlogging near the cattle shed. The cowdung pit can be covered to protect from direct falling of rain.

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

02-07-2020/(0730 to 0757) GMT
02-07-2020/(1300 to 1327) IST

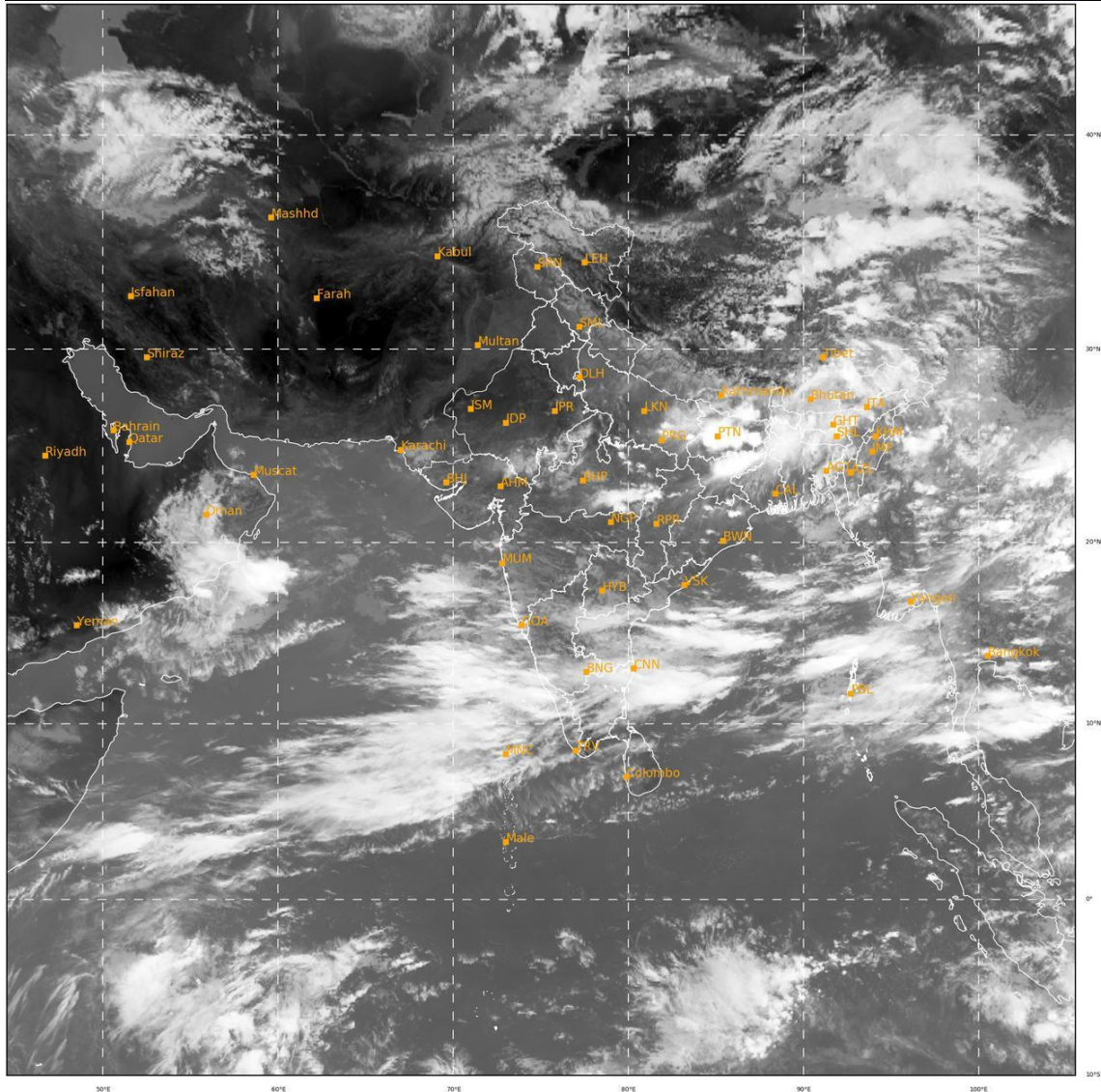


Figure: 1. Latest available satellite picture as on 02 July 2020 at 1327 Hrs (IST). (Source: IMD).

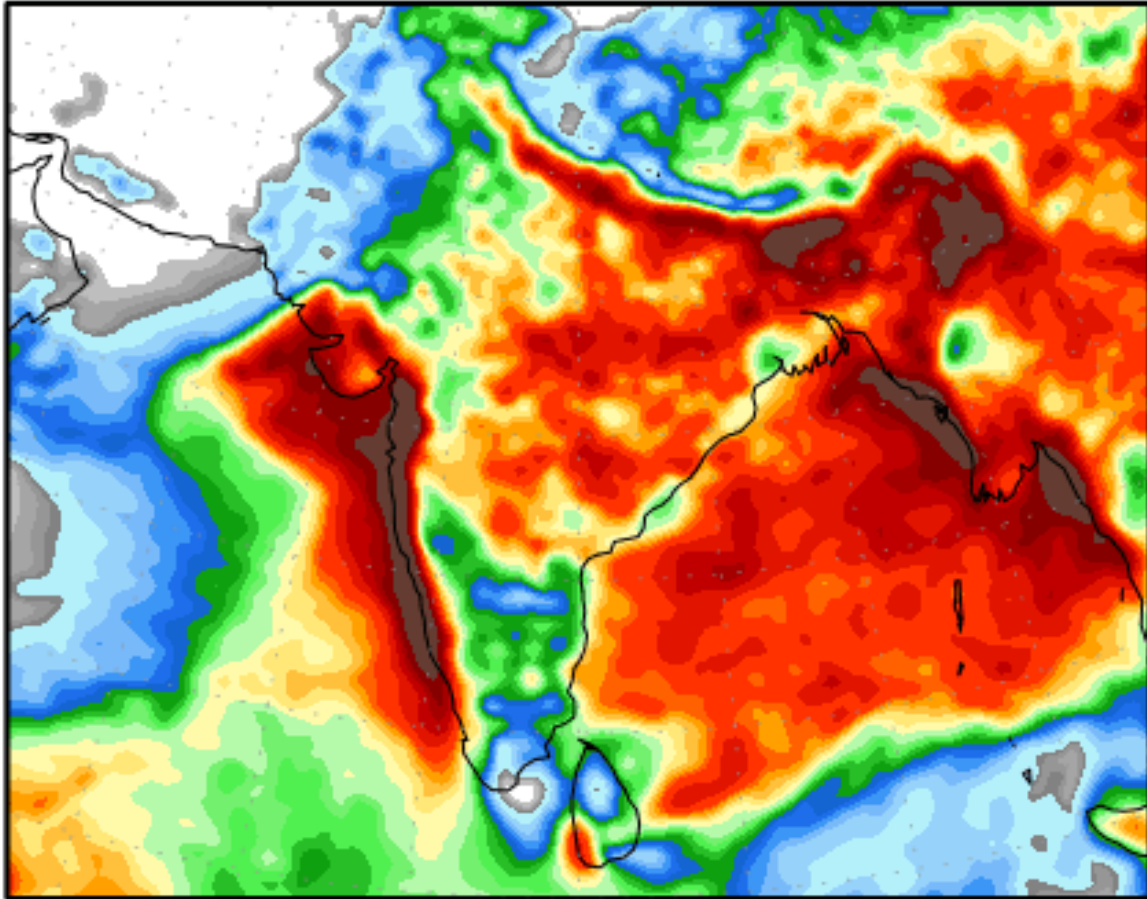


Figure:2. Precipitation forecast for 02 to 10 July 2020 (Source: NOAA NCEP).

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