

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 08 June 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Northern Limit of Monsoon (NLM) continue passes through Lat.14°N/Long.60°E, Lat.14°N/Long.70°E, Karwar, Shimoga, Tumukuru, Chittoor, Chennai, 16°N/Long.85°E, Lat.20°N/Long.90°E and Lat.22°N/Long.93°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of Central Arabian Sea, Goa, Some parts of Konkan, some more parts of Karnataka, Rayalaseema, remaining parts of Tamil Nadu, some parts of Coastal Andhra Pradesh, some more parts of Central and North Bay of Bengal and some parts of Northeastern states during next 2 days. Conditions likely to become favorable subsequently for further advance of Southwest monsoon into some more parts of Maharashtra, Some more parts of Karnataka, Some parts of Telangana, some more parts of Coastal Andhra Pradesh, remaining parts of Bay of Bengal & northeastern states, Sikkim, some parts of Odisha and Gangetic West Bengal during subsequent 2 days.
- A Low Pressure Area is likely to form over eastcentral Bay of Bengal during next 48 hours. It is likely to move westnorthwest wards and become more marked during subsequent 24 hours. Under the influence of this Low Pressure Area and convergence of lower level westerlies along the West Coast, fairly widespread to widespread rainfall accompanied with isolated heavy to very heavy rainfall is likely over Odisha, north Coastal Andhra Pradesh, Telangana, Coastal Karnataka, north Konkan and Kerala & Mahe during 10th-12th June and isolated heavy falls over north Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh and south Madhya Pradesh during 11th-12th June.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Haryana, Chandigarh & Delhi, Konkan & Goa,

Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Andaman & Nicobar Islands and Lakshadweep; at many places over East Rajasthan, Saurashtra & Kutch, Odisha, Gangetic West Bengal, Assam & Meghalaya, Coastal Karnataka and Kerala & Mahe; at a few places over Gujarat Region, Madhya Pradesh, Jharkhand and South Interior Karnataka; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarkhand, Uttar Pradesh, West Rajasthan, Madhya Maharashtra, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

- Heavy rainfall observed at isolated places over Konkan & Goa, Kerala & Mahe, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura.
- Thunderstorm observed (from 1730 hours IST Yesterday to 0830 hours IST of today): at isolated places over West Uttar Pradesh, West Madhya Pradesh, Odisha, Coastal Andhra Pradesh, Gujarat State, Coastal Karnataka, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, West Rajasthan, Vidarbha, Telangana, Kerala & Mahe and Lakshadweep.
- Maximum Temperature Departures as on 07-06-2020: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Coastal Andhra Pradesh, Konkan & Goa and Tamilnadu Puducherry & Karaikal and at isolated places over west Bengal & Sikkim, Assam & Meghalaya, Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Saurashtra & Kutch. They were markedly below normal (-5.0°C or less) at most places over Punjab and Haryana, Chandigarh & Delhi; at a few places over Himachal Pradesh; . appreciably below normal (-3.1°C to -5.0°C) at most places over Uttar Pradesh, Madhya Pradesh and Gujarat region and at isolated places over Gujarat region, Madhya Maharashtra and Andaman & Nicobar Islands and below normal (-1.6°C to -3.0°C) at most places over East Rajasthan; at many places over Chhattisgarh, Vidarbha, Marathawada; at a few places over west Rajasthan and at isolated places over Bihar, odisha and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 41.6.0°C was reported at Bikaner(West Rajasthan),Khammam(Telangana) and Rentichintala (Coastal Andhra Pradesh & Yanam).
- Minimum Temperature Departures as on 08-06-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Coastal Andhra Pradesh & Yanam; at isolated places over Sub-Himalayan West Bengal & Sikkim, Telangana, South Interior

Karnataka, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands. They are markedly below normal (-5.1°C or less) at a few places over Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at a few places over Haryana, Chandigarh & Delhi and Konkan & Goa; at isolated places over East Uttar Pradesh, East Madhya Pradesh, Saurashtra & Kutch and Odisha; below normal (-1.6°C to -3.0°C) at most places over East Rajasthan; at many places over Vidarbha; at a few places over Chhattisgarh and Marathawada; at isolated places over Punjab, West Rajasthan, West Uttar Pradesh, Gangetic West Bengal and Assam & Meghalaya and near normal over rest parts of the country. The lowest minimum temperature of 21.0°C reported at Banda (East Uttar Pradesh) and Khandwa & Khargone (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 08 June (Day 1): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Konkan & Goa, Odisha and Gangetic West Bengal and with lightning at isolated places over Rajasthan, Jharkhand, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Coastal & South Interior Karnataka. Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds (speed reaching 45-55 kmph) very likely over southwest & westcentral Arabian Sea and south Bay of Bengal. Fishermen are advised not to venture into sea over these areas.
- 09 June (Day 2): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands, Odisha and Gangetic West Bengal and with lightning at isolated places over Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal, Gujarat State, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Heavy rainfall at isolated places very likely over Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong wind (wind speed reaching 45-55 kmph) very likely over Southwest & Westcentral Arabian Sea, South and Eastcentral Bay of Bengal. Squally weather (wind speed reaching

40-50 kmph) along & off Andhra Pradesh coast. Fishermen are advised not to venture into sea over these areas.

- 10 June (Day 3): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands, Madhya Maharashtra and Konkan & Goa and with lightning at isolated places over Rajasthan, Bihar, West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and Rayalaseema. Heavy to very heavy rainfall at isolated places very likely over Odisha and Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Telangana, Rayalaseema, Coastal Karnataka, Kerala & Mahe, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong wind (wind speed reaching 45-55 kmph) very likely over Southwest & Westcentral Arabian Sea, South and Central Bay of Bengal, North Andaman Sea and Gulf of Mannar. Squally weather (wind speed reaching 40-50 kmph) along & off Andhra Pradesh coast. Fishermen are advised not to venture into sea over these areas.
- 11 June (Day 4): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarkhand, Bihar, Gangetic West Bengal, Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada and Konkan & Goa and with lightning at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and Rayalaseema. Heavy to very heavy rainfall at isolated places likely over Odisha, Telangana, Coastal Karnataka and Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal Sikkim, Andaman & Nicobar Islands, Marathwada, Konkan & Goa, South Interior Karnataka, Kerala & Mahe, Lakshadweep, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong wind (wind speed reaching 45-55 kmph) likely over Southwest & Westcentral Arabian Sea, South, Central & Northeast Bay of Bengal, North Andaman Sea and Gulf of Mannar. Squally weather (wind speed reaching 40-50 kmph) over Lakshadweep area, along & off Kerala-Karnataka and Andhra Pradesh coasts. Fishermen are advised not to venture into sea over these areas.
- 12 June (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarkhand, Bihar, Gangetic

West Bengal and Konkan & Goa and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Heavy to very heavy rainfall at isolated places likely over Vidarbha, Odisha, Konkan & Goa, Coastal Karnataka, Kerala & Mahe and heavy rainfall at isolated places over Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal Sikkim, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong wind (wind speed reaching 45-55 kmph) likely over Southwest & Westcentral Arabian Sea and South, Central & Northeast Bay of Bengal. Squally weather (wind speed reaching 40-50 kmph) over Lakshadweep area, along & off Kerala-Karnataka-Konkan and Andhra Pradesh coasts. Fishermen are advised not to venture into sea over these areas.

- The weather outlook for seven days i.e., 08 to 16 June 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)

Himachal Pradesh

Weather condition:

The maximum and minimum temperature ranged between 20.5 to 32.7 °C and 13.0 to 19.5 °C which was below normal by 1.1 to 10.3 °C and 3.7 to 6.6 °C. 63.2 mm rainfall was received during the week against the normal of 17.5 mm. The relative humidity varied between 39-92% and sunshine hours between 0.5-10 hrs/day with variable sky conditions (Octa 2-8). The evaporation rate varied 2-8 mm per day.

Contingency measure:

- *KHARIF* CROP PREPARATION: Advised deep ploughing of fields after harvesting of Rabi crops. It helps in destroying the eggs and pupating stages of insects and weed seeds. Advised to test their soil from certified agencies and to do leveling in their field if required.
- RICE NURSERY: Advised sowing of Paddy nursery and ensure proper soil moisture before nursery sowing and treat the seed before nursery sowing with recommended chemical.
- FODDER CROPS: Advised to sowing of fodder maize alongwith cowpeas and soybean in irrigated areas. In mid hill regions one cut of berseem can be taken.

- **VEGETABLE CROPS:** The higher temperature expected, farmers are advised for harvesting of mature vegetables at morning and evening and after harvesting of crops keep it in the shade. Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop. Advised Irrigation in the morning hours or evening hours only if no rains occurred.
- **BHINDI & FRENCHBEAN:** Advised sowing of bhindi and frenchbean in the field. Monitor of lady finger crop against attack of mite is advised.
- **TOMATO, CHILLI, CAPSICUM AND BRINJAL:** Installation of bird perches in tomato, pea, brinjal and gram crops is advised to control fruit borer insect. Hand picking of damaged fruit and burying are advised. Installation of pheromone trap @ 2-3 traps per acre of crop field is advised for monitoring the fruit borer. Constant monitoring of the chilli crop against attack of mites is advised. Advised to transplant of nursery crop on field with healthy seedlings. For damping off disease in seedling raising of tomato, brinjal, chillies and capsicum etc treat seed beds with formalin 5 litres/100 litres water before 15-20 days of sowing.
- **GINGER, TURMERIC, CALCOCASIA AND ELEPHANT FOOT AND LEAFY VEGETABLES:** Apply mulch and well rotten FYM on these crops.
- **POLY HOUSE AGRICULTURE:** It is optimum time for nursery sowing of Tomato, Brinjal, chillies and capsicum crops in poly house. Cucurbits plantation may be done in polytubes under the polyhouse. Sowing of green coriander, raddish turnip. For control of mites in polyhouse spray recommended chemicals.
- **TEA:** Advised picking in tea at 8-9 days interval to maintain the quality and productivity. Monitor for mites and Milli bug in the orchards, for control of milli bug spray recommended chemicals.
- **LIVESTOCK:** To protect animals from high temp stress splash water on their body 2-3 times a day. Milk the animals during cooler place. Monitor the animals for FMD and advised Protect calves against parasites, get them dewormed with piperazine liquid @ 4 ml/kg body weight, first at 10 days of age, then 15 days and then monthly upto three months of age and then quarterly upto one year of age. Vaccination. Ecto-parasite attack is expected in this weather for control spray Butox @ 2ml per litre in cowshed Give mixture of hay & green fodder.
- **HORTICULTURE:** Mango plant hopper expected, for control spray, recommended chemicals. In litchi fruit borer, for control spray recommended chemicals. Monitor red rust in litchi which is expected. Spray micro nutrients of zinc, copper, manganese, iron and boron in mango, grape and guava orchards. If a termite outbreak appears on the trees, sprinkle recommended chemicals. Ensure moisture in

Figure: 1. Latest available satellite picture as on 08 June 2020 at 1426 Hrs (IST). (Source: IMD).

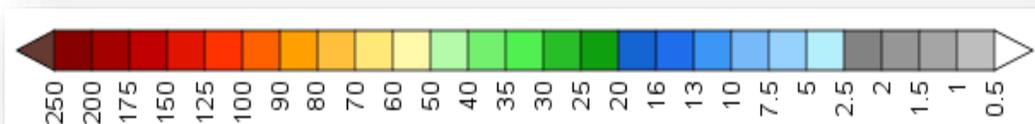
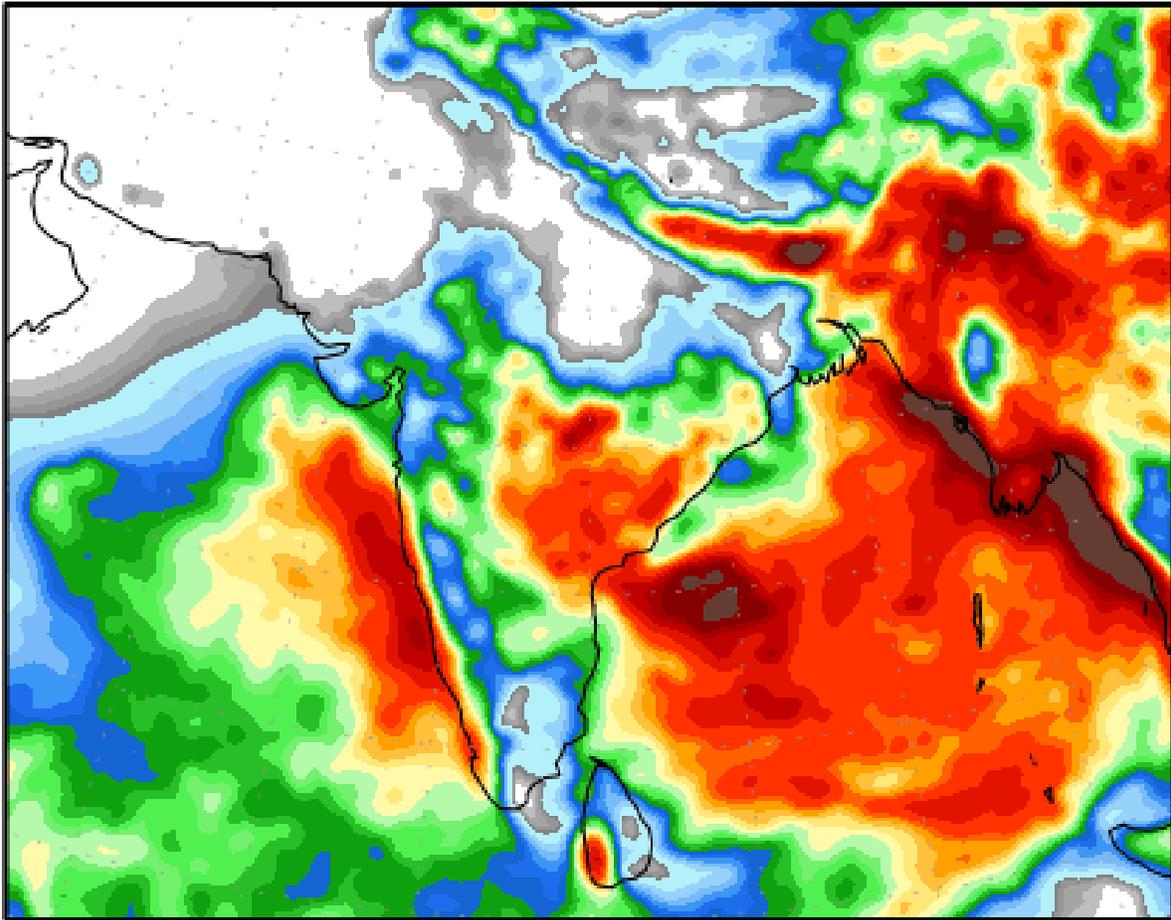


Figure:2. Precipitation forecast for 08 to 16 June 2020 (Source: NOAA NCEP).

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