

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 June 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest Monsoon has further advanced into remaining parts of Tamil Nadu, some more parts of westcentral & north Bay of Bengal; most parts of Mizoram & Manipur and Tripura and some parts of Assam & Nagaland.
- The Northern Limit of Monsoon (NLM) now passes through Lat.14°N/Long.60°E, Lat.14°N/Long.70°E, Karwar, Shimoga, Tumukuru, Chittoor, Ponneri, 18°N/Long.85°E, Lat.22°N/Long.90°E, Agartala, Kohima and Lat.26°N/Long.95°E.
- Conditions are becoming favourable for further advance of Southwest Monsoon into some more parts of Central Arabian Sea, Goa; Some parts of Maharashtra; some more parts of Karnataka and Rayalaseema; some parts of Telangana and Coastal Andhra Pradesh; some more parts of Central and North Bay of Bengal and some more parts of Northeastern states during next 48 hours.
- Conditions are likely to become favorable subsequently for further advance of Southwest Monsoon into some more parts of Maharashtra; remaining parts of Karnataka, Telangana, Rayalaseema, Coastal Andhra Pradesh, Bay of Bengal and northeastern states, entire Sikkim and some parts of Odisha and West Bengal during subsequent 24 hours.
- The low pressure area over Eastcentral and adjoining Westcentral Bay of Bengal persists with the associated cyclonic circulation extending upto mid-tropospheric levels tilting southwestwards with height. It is likely to move west-northwestwards and become well marked during next 48 hours.
- Under the influence of this Low Pressure Area, fairly widespread to widespread rainfall accompanied with isolated heavy to very heavy rainfall likely over Odisha, north Coastal Andhra Pradesh and Telangana during 10th-11th June and over central India during 11th-13th 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 Telangana, Coastal Karnataka, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands; at many places over Konkan & Goa, Coastal Andhra Pradesh & Yanam and Lakshadweep; at a few places over Saurashtra & Kutch, Chhattisgarh, Madhya Maharashtra, Vidarbha, Odisha, Assam & Meghalaya, South Interior Karnataka and Kerala & Mahe and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Uttarakhand, Haryana, East Uttar Pradesh, Rajasthan, Gujarat Region, Madhya Pradesh, Marathwada, Jharkhand, Arunachal Pradesh, West Bengal & Sikkim, North Interior Karnataka, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heavy to very heavy rainfall observed at isolated places over Andaman & Nicobar Islands; heavy rainfall observed at isolated places over Saurashtra & Kutch, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Thunderstorm observed (from 1730 hours IST yesterday to 0830 hours IST of today): at isolated places over Andaman & Nicobar Islands, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Madhya Pradesh, Gujarat Region, Vidarbha, Odisha, Jharkhand, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Coastal Karnataka, Telangana, Tamilnadu, Puducherry & Karaikal, Assam & Meghalaya, Tripura and Gangetic West Bengal.
- Maximum Temperature Departures as on 09-06-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Arunachal Pradesh; at a few places over Tamilnadu, Puducherry and Karaikal, Assam & Meghalaya and Kerala & Mahe; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Lakshadweep and West Bengal & Sikkim and at isolated places over Telangana, Coastal Andhra Pradesh & Yanam and Saurashtra & Kutch. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Punjab and Gujarat region and at isolated places over Himachal Pradesh and Jammu & Kashmir, Ladakh, Gilgit-Baltistan and below normal (-1.6°C to -3.0°C) at many places over Madhya Pradesh, Chhattisgarh and Andaman & Nicobar Islands; at a few places over Haryana, Chandigarh & Delhi and at isolated places over Maharashtra, Uttar Pradesh, Jharkhand, East Rajasthan and Odisha and near normal over rest parts of the country. Yesterday, the highest Maximum temperature of 43.3°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 10-06-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Uttarakhand and Sub-Himalayan West Bengal & Sikkim; at many places over East Uttar Pradesh and Assam & Meghalaya; at a few places over East Rajasthan, Saurashtra & Kutch, Gangetic West Bengal and Arunachal Pradesh; at isolated places over West Uttar Pradesh and Bihar. They are below normal (-1.6°C to -3.0°C) at a few places over West Madhya Pradesh and Coastal Andhra Pradesh & Yanam; at isolated places over East Madhya Pradesh, Telangana, Odisha and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 20.6°C reported at Angul (Odisha) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 10 June (Day 1): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Gangetic West Bengal and Odisha; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit- Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Tamil Nadu, Puducherry & Karaikal, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, Konkan & Goa, Madhya Pradesh, Bihar, Marathwada, Madhya Maharashtra, Gujarat State, Vidarbha, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at isolated places very likely over Odisha, Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over Telangana, Rayalaseema, Chhattisgarh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 45-55 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Strong wind (speed reaching 40-50 kmph) over Central & adjoining North Bay of Bengal, along & off Odisha Coast. Fishermen are advised not to venture into sea over these areas.
- 11 June (Day 2): Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Tamil Nadu, Puducherry & Karaikal, Madhya Pradesh, Bihar, Marathwada, Madhya Maharashtra, Gujarat State, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall with extremely heavy

falls at isolated places very likely over Coastal Andhra Pradesh & Yanam; heavy to very heavy rainfall at isolated places over Rayalaseema, Telangana and Odisha and heavy rainfall at isolated places over Kerala & Mahe, Lakshadweep, Coastal Karnataka, Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 45-55 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Strong wind (speed reaching 40-50 kmph) over Central & adjoining North Bay of Bengal, along & off north Tamil Nadu- Andhra Pradesh-Odisha Coasts. Fishermen are advised not to venture into sea over these areas.

- 12 June (Day 3): Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Bihar, Gujarat State, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy rainfall at a few places with very heavy falls at isolated places very likely over Coastal Karnataka; heavy to very heavy rainfall at isolated places over Kerala & Mahe, Telangana, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Chhattisgarh and Odisha and heavy rainfall at isolated places over Lakshadweep, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 45-55 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Strong wind (speed reaching 40-50 kmph) over Goa & Konkan coasts, Central & adjoining North Bay of Bengal, along & off Odisha Coast. Fishermen are advised not to venture into sea over these areas.
- 13 June (Day 4): Thunderstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Gujarat State, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall likely at isolated places over Coastal Karnataka, Konkan & Goa and Madhya Maharashtra and heavy rainfall at isolated places over Kerala & Mahe, Telangana, Marathwada, Vidarbha, Madhya Pradesh, Chhattisgarh, South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 45-55 kmph) very likely over

Southwest & adjoining Westcentral Arabian Sea. Strong wind (speed reaching 40-50 kmph) over Eastcentral Arabian Sea and Goa & Konkan coasts. Fishermen are advised not to venture into sea over these areas.

- 14 June (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttar Pradesh and Rajasthan; with lightning at isolated places over Gujarat State, Gangetic West Bengal, Jharkhand, Bihar, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Heavy to very heavy rainfall at isolated places likely over Konkan & Goa and heavy rainfall at isolated places over Coastal Karnataka, Gujarat State, Madhya Maharashtra, Madhya Pradesh, Arunachal Pradesh, Sub-Himalayan West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 45-55 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea. Strong wind (speed reaching 40-50 kmph) over Eastcentral Arabian Sea. Fishermen are advised not to venture into sea over these areas.
- The weather outlook for seven days i.e., 10 to 18 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)

Rajasthan

Weather condition:

State: Light scattered rainfall was reported in the most part of the state during the week. 8 district of the state reported more than 40 °C temperature on 9th June. Sree ganganagar recorded highest maximum temperature (43.3 °C) followed by Bikaner (43.2 °C) and Churu (43.0 °C) on 9th June 2020. At Centre: Cloudy weather and light rainfall (4.9 mm) reported during this week. Centre received 24.6 mm rainfall in two rainy days during the week. Maximum temperature ranged between 32.0 °C to 37.0 °C with mean 35.2 °C which was 3.6 oC below normal and minimum temperature ranged between 20.2 °C to 25.0 °C with mean 22.4 °C which was 3.8 °C below normal Wind velocity ranged between 2.5 to 7.1 with mean 5.2 and sunshine hours 2.9 to 8.7 with mean 6.8 hours. Mean evaporation 9.0 mm.

Contingency measure:

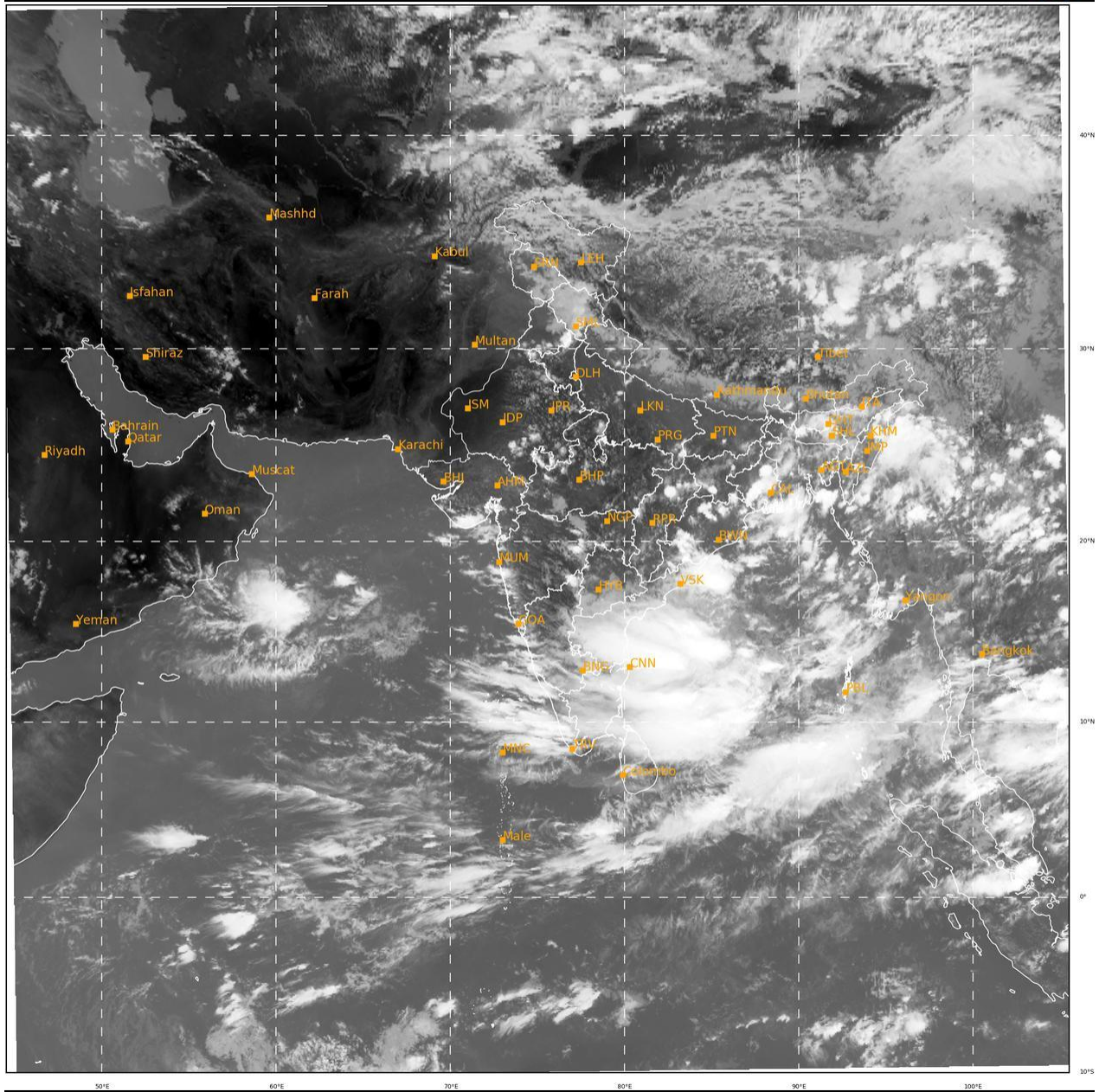
- Where the locust attack is prevailed farmer are advised to give the information to the agricultural authorities, and collectively make noise and sound to avoid settle down of locust in the field. Procure improved varieties of maize, Soybean and groundnut

and from reliable sources for ensuing Kharif sowing. Improved varieties of maize:- Pratap QPM-1, HQPM-1, HQPM-5, PEHM-2 and Pratap hybrid maize-1, Pratap Makka-9, Pratap hybrid Makka-3 Improved varieties of soybean:- Pratap soya-1, Pratap Raj soya- 24, NRC-37, Improved varieties of groundnut:- Pratap groundnut-1, Pratap groundnut-2, JL-24, GG-1 Farmers are advised to procure improved varieties of green gram and blackgram.

- Green gram Variety: Pusa Visal, Pusa 5931, SML-668, Samrat;. Blackgram Varieties Urd type-9, T-31, T-39. Seed treatment with crop specific Rhizobium culture as well as phosphorus solubilising bacteria is also advised before sowing. Late sowing of cotton should be completed in this week. Hoeing, weeding and thinning in timely sown cotton should be done.
- Farmers are advised to prepare nursery for tomato. Seed should be sown in nursery after treatment with thiram 2.0 ? 2.5 gram/kg of seed. Construct farm pond at field to conserve rain water.

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

10-06-2020/(0800 to 0827) GMT
10-06-2020/(1330 to 1357) IST



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943

IMD,DELHI

Figure: 1. Latest available satellite picture as on 10 June 2020 at 1357 Hrs (IST). (Source: IMD).

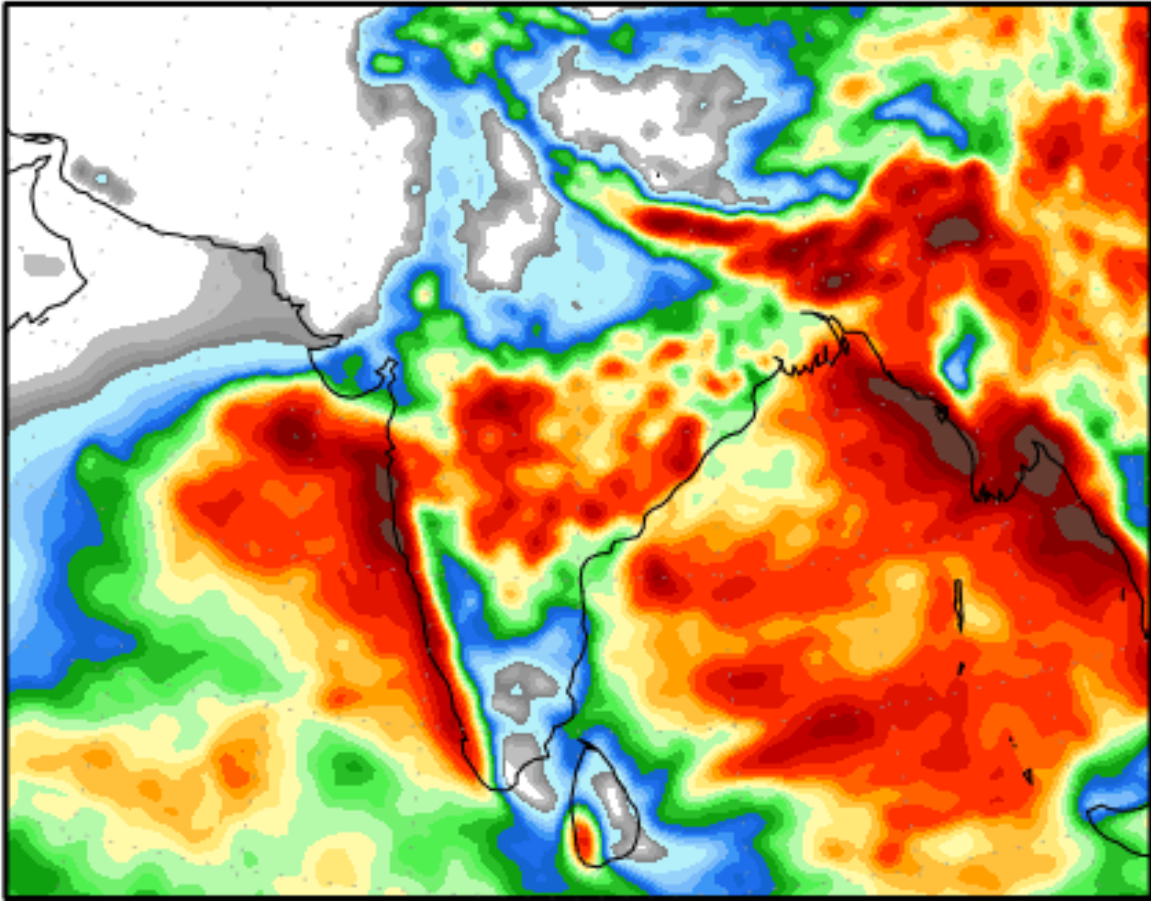


Figure:2. Precipitation forecast for 10 to 18 June 2020 (Source: NOAA NCEP).

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