

All India Coordinated Research Project on Agrometeorology, CRIDA, Santoshnagar, Hyderabad – 500 059

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Daily Crop Weather Information as on 20 June 2018

Significant Weather Features (IMD)

- The Southwest Monsoon could not advance further since last one week due to weak monsoon flow in associations with (a) weak cross equatorial flow (ii) Unfavorable location of active phase of Madden Julian Oscillation (MJO) (iii) an equatorial eastwards propagating oscillations which lay over central & east Pacific Ocean, Western Hemisphere and Africa and (iv) development of low pressure system over northwest pacific Ocean. However, the monsoon circulation is likely to improve from around 24th June with (i) expected movement of active phase of Madden Julian Oscillation (MJO) to west Equatorial Indian Ocean and adjoining Arabian Sea during next 23 days and (ii) development of cyclonic circulations over eastern India leading to strengthening of easterlies winds over Gangetic plains. The Northern Limit of Monsoon continues to pass through Thane (including Mumbai), Ahmednagar, Buldhana, Amravati, Gondia, Titlagarh, Cuttack, Midnapore, Heat wave conditions are likely to prevail over parts of east India and Coastal Andhra Pradesh during next 48 hours. Thunderstorm observed at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Rajasthan, West Madhya Pradesh, Odisha, Madhya Maharashtra, Telangana, Kerala and Coastal Karnataka from 11:30 hours IST of yesterday to 05:30 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 08:30 hours to 17:30 hours IST of yesterday): Rain/thundershowers observed at most places over Coastal Karnataka, Kerala and Andaman & Nicobar Islands; at many places over Konkan & Goa; at a few places over Jharkhand, Vidarbha, Chhattisgarh, North Interior Karnataka and Lakshadweep and at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, East Rajasthan, Madhya Pradesh, Odisha, Telangana, Rayalaseema, Madhya Maharashtra, South Interior Karnataka, Tamilnadu & Puducherry. Amount of rainfall recorded at 17:30 hours IST of yesterday (1 cm or more) were: Mangalore, Bhubaneswar, Vengurla, Karipur, Vallanikara, Valparai, Cochin, Portblair, Mukteshwar, Bhopal, Akola, Wasim, Goa, Karwar and Kottayam.

- **Maximum temperature departures as on 19-06-2018:** Maximum temperatures were markedly above normal (5.1°C or more) at many places over Gangetic West Bengal and Jharkhand; at a few places over Odisha and Coastal Andhra Pradesh appreciably above normal (3.1°C to 5.0°C) at many places over Bihar; at a few places over Assam & Meghalaya and above normal (1.6°C to 3.0°C) at most places over Chhattisgarh and Telangana; at many places over Madhya Pradesh, Gujarat and Madhya Maharashtra; at a few places over Uttar Pradesh, Rayalaseema and Kerala and at isolated places over Tamilnadu & Puducherry. They were below normal (1.6°C to 3.0°C) at most places over Punjab and Andaman& Nicobar Islands; at a few places over Jammu & Kashmir and North Interior Karnataka and at isolated places over Haryana, Chandigarh, Delhi, Rajasthan, Coastal & South Interior Karnataka and near normal over rest of the country. Yesterday, the highest maximum temperature of 43.2°C was recorded at Churu (West Rajasthan) & Banda(East Uttar Pradesh).
- **Minimum temperature departures as on 19-06-2018 :** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Gangetic West Bengal and Jharkhand; at isolated places over Odisha; above normal (1.6°C to 3.0°C) at a few places over East Rajasthan, West Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh and Bihar; at isolated places over Uttar Pradesh. They were appreciably below normal (3.1°C to 5.0°C) at isolated places over Jammu & Kashmir and East Madhya Pradesh; below normal (1.6 °C to 3.0°C) at Haryana, Chandigarh & Delhi and at isolated places over Himachal Pradesh, West Rajasthan, Madhya Maharashtra and Konkan & Goa and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- **20 June (Day 1) :** Heavy to very heavy rain at isolated places very likely over Konkan & Goa and heavy rain at isolated places over Kerala, Coastal Karnataka, Madhya Maharashtra, Assam, Meghalaya and Andaman & Nicobar Islands. Thunderstorm accompanied with gusty winds and lightning very likely at isolated places over east Bihar, West Bengal & Sikkim, Coastal Andhra Pradesh, Rayalaseema, Telangana, Tamilnadu & Puducherry. Heat wave conditions expected at one or two pockets over east Bihar, Jharkhand, Gangetic West Bengal, Odisha and Coastal Andhra Pradesh.
- **21 June (Day 2) :** Heavy rain at a few places very likely over Konkan & Goa; over Assam, Meghalaya, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Coastal Karnataka and Kerala.

- **22 June (Day 3) :** Heavy to very heavy rain expected at Isolated places over Assam, Meghalaya and Konkan & Goa; over Sub Himalayan West Bengal, Sikkim, Arunachal Pradesh, Marathwada, Coastal Karnataka and Kerala.
- **23 June (Day 4) :** Heavy rain very likely at isolated places over Sub Himalayan West Bengal, Sikkim, Arunachal Pradesh, Assam, Meghalaya, Konkan & Goa, Coastal Karnataka and Kerala.
- **24 June (Day 5) :** Heavy rain expected at isolated places over Sub Himalayan West Bengal, Sikkim, Arunachal Pradesh, Assam, Meghalaya, Konkan & Goa, Coastal Karnataka and Kerala.
- The weather outlook for the period of eight days i.e. 20 June to 28 June 2018 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) Light to heavy rainfall expected over Punjab, Haryana, Central, Peninsular and North East India (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Western Uttar Pradesh

Weather condition:

- Very light rainfall was observed on 13th June thereafter dry weather condition prevailed. The maximum and minimum temperatures were ranged between 40.0°C to 41°C and 28°C to 30°C, respectively.

Contingency measure:

- Weeding is advised in Pigeon pea (Arhar).
- Farmers are advised to give light irrigation to leafy vegetables.
- Pick up mature fruits on standing crop of Brinjal and Chillies and optimum moisture should be maintained.
- Seed of short duration rice variety should be treated with Streptocycline 4.0 g with 45 litre water for 30-35 kg seed/ ha soaking for the control of Bacterial blight.

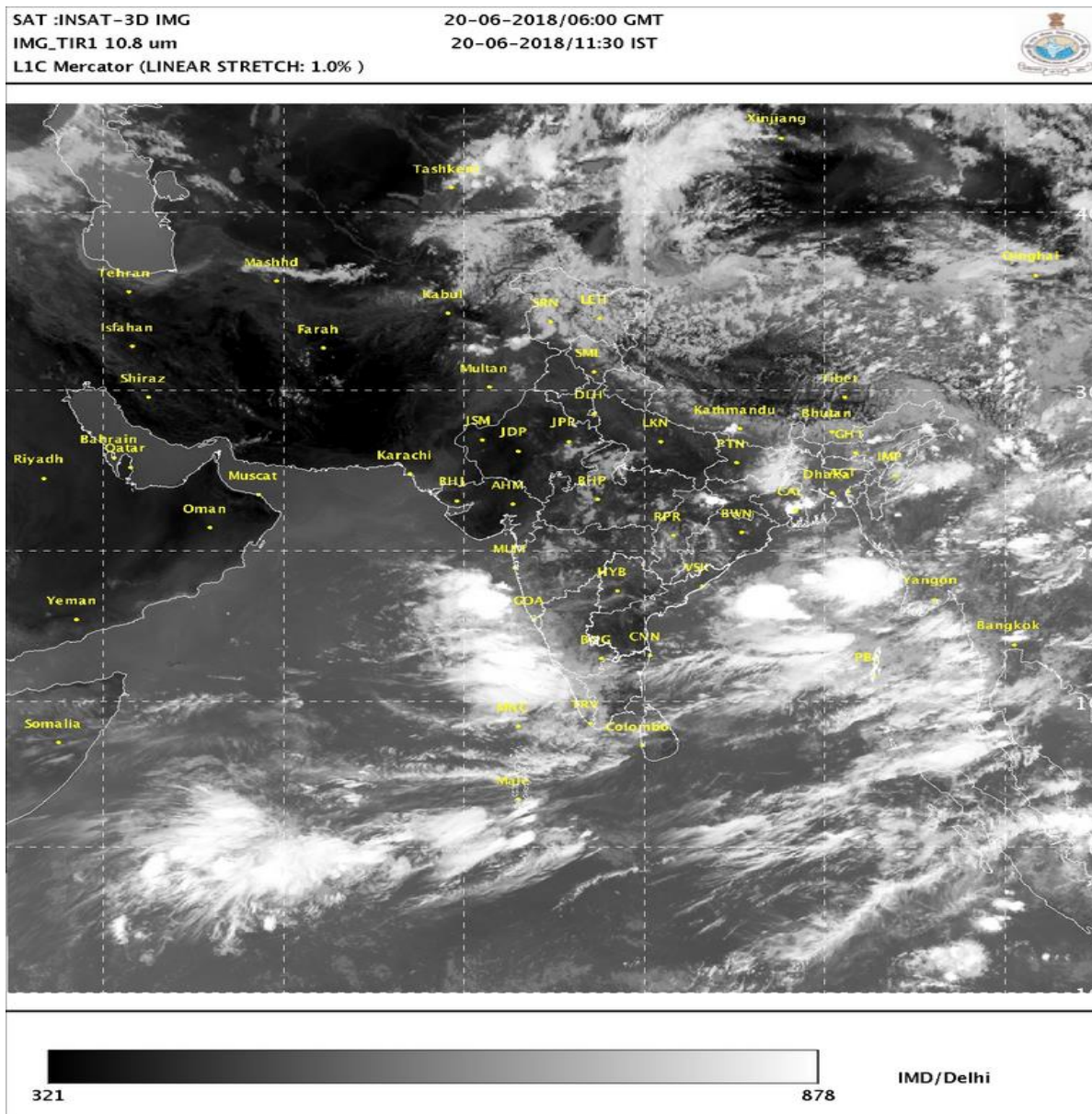


Figure: 1. Latest available satellite picture as on 20 June 2018 at 11:30 Hrs (IST).

(Source: IMD).

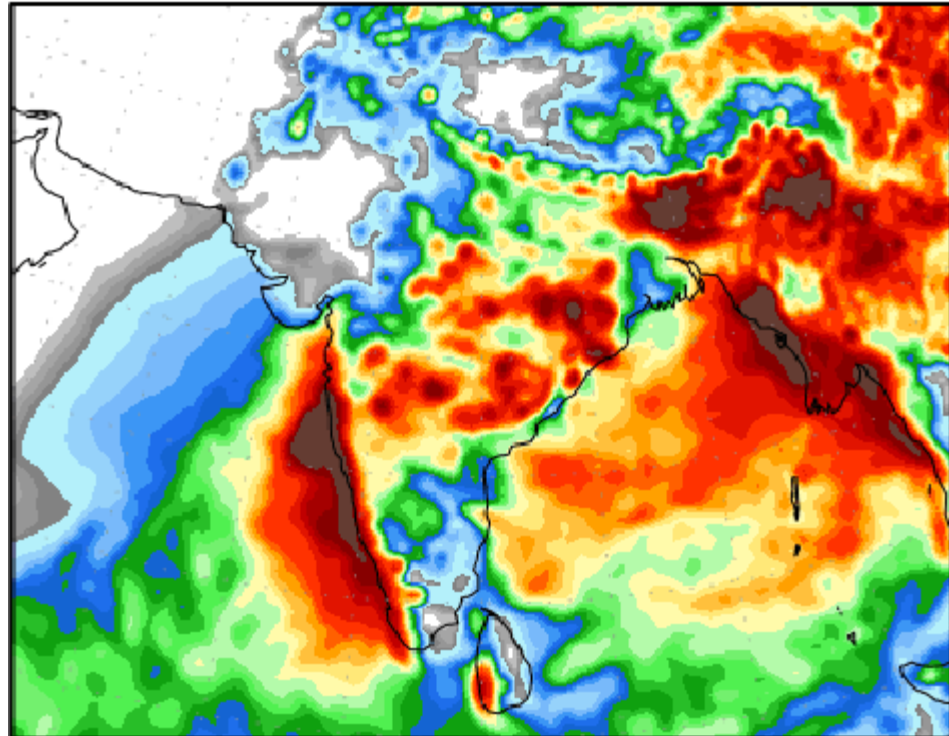


Figure: 2. Precipitation forecast for 20 June to 28 June 2018 (Source: NOAA NCEP)