

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 14 August 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The well marked low pressure area over northwest Bay of Bengal off West Bengal–north Odisha coasts with associated cyclonic circulation extending upto 7.6 km above mean sea level tilting southwestwards with height persists. It is likely to concentrate into a depression during next 48 hours.
- Western part of monsoon trough is likely to further shift southwards gradually during next 3 days and the above low pressure system is also likely to move westnorthwestwards during next 45 days. Under this scenario widespread rainfall with heavy to very heavy and extremely heavy falls at isolated places is very likely over Odisha during next 2 days.
- Widespread rainfall with heavy to very heavy falls very likely over Chhattisgarh during next 2 days, parts of Madhya Pradesh and north Maharashtra on 16th & 17th and over north Konkan & Gujarat state and adjoining parts of Rajasthan on 17th & 18th. The rainfall activity over western Himalayan region is likely to decrease during next 3 4 days.
- The enhanced rainfall activity over Kerala, Karnataka and Ghat areas of Tamilnadu is likely to continue during next 2 days and decrease in intensity thereafter. The resultant dust loading from a dust storm which occurred over Afghanistan yesterday is likely to cause light dust/haze conditions over parts of Rajasthan and Gujarat during next 48 hours.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/thundershowers observed at most places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Chhattisgarh, Odisha, Coastal Andhra Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Telangana, Coastal & South Interior Karnataka, Kerala and Andaman & Nicobar Islands; at many places over North Interior Karnataka; at a few places over Uttar Pradesh, Haryana, Chandigarh & Delhi, Jharkhand, SubHimalayan West Bengal & Sikkim, Assam & Meghalaya, Madhya Pradesh, Vidarbha, Rayalaseema and Tamilnadu & Puducherry and at isolated places over Punjab, Bihar, Arunachal Pradesh, East Rajasthan, Gujarat, Marathwada and Lakshadweep. Rainfall recorded at 0830 hours IST of today (4 cm or more) are: Agumbe31; Honavar15; Mandi13; Mahabaleshwar12; Palakkad10; Sambalpur, Kozhikode & Karipur9 each;

Lucknow, Matheran & Mangalore 7 each; Raipur⁶; Katra, Bhubaneshwar, Koraput & Karwar⁵ each; Dharamsala, Nahan, Sultanpur, Nowgong, Gondia, Gopalpur, Vishakhapatnam, Tuni, Bapatla, Vengurla, Chickmagalur & Mayabandar⁴ each.

- Maximum temperature departures as on 13/08/2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Gujarat region, Vidarbha, Odisha, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Madhya Pradesh, East Rajasthan, SubHimalayan West Bengal & Sikkim, Assam & Meghalaya and Tamilnadu & Puducherry. They were appreciably below normal (3.1° C to 5.0° C) at many places over Coastal Andhra Pradesh; at a few places over Himachal Pradesh; at isolated places over Jammu & Kashmir and below normal (1.6° C to 3.0° C) at most places over Uttarakhand and Chhattisgarh; at a few places over Punjab, interior Karnataka, Madhya Maharashtra & Telangana; at isolated places over Uttar Pradesh & Bihar and near normal over rest of the country. Yesterday, the highest maximum temperature of 37.5°C was recorded at Tondi (Tamilnadu & Puducherry) over the country.
- Minimum temperature departures as on 14/08/2018 : Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Haryana, Chandigarh & Delhi, south Gujarat, SubHimalayan west Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Punjab, Rajasthan, West Madhya Pradesh, Gangetic West Bengal, Odisha, Assam & Meghalaya and Tamilnadu & Puducherry. They are below normal (1.6° C to 3.0° C) at a few places over Coastal Andhra Pradesh; at isolated places over Himachal Pradesh, East Uttar Pradesh and East Madhya Pradesh and near normal over rest of the country.

Weather Warning during next 5 days (IMD)

- 14 August (Day 1): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places very likely over Coastal Karnataka & Kerala; heavy to very heavy rain with extremely heavy falls at isolated places very likely over Odisha & South Interior Karnataka; heavy to very heavy rain at isolated places very likely over Chhattisgarh and Tamilnadu and heavy rain at isolated places very likely over Himachal Pradesh, East Uttar Pradesh, Uttarakhand, Konkan & Goa, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Vidarbha and Coastal Andhra Pradesh. Rough to very rough Sea conditions are likely to prevail over Central Arabian Sea and Maharashtra, Gujarat, Karnataka, Kerala, West Bengal and Odisha coasts and over & around Andaman & Nicobar Islands. Fishermen are advised not to venture into these areas.
- 15 August (Day 2): Heavy to very heavy rain with extremely heavy falls at isolated places very likely over Odisha; heavy rain at a few places with very heavy rain at isolated places very likely over Coastal Karnataka & Kerala; heavy to very heavy rain at isolated places very likely over Chhattisgarh, South Interior Karnataka and Tamilnadu and heavy rain at isolated places very likely over Assam & Meghalaya, Gangetic West Bengal, Jharkhand, west Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Coastal Andhra Pradesh and Telangana. Rough to Very Rough Sea conditions are likely to prevail over Central Arabian Sea and Maharashtra, Gujarat, Karnataka, Kerala, West Bengal and Odisha

coasts and over & around Andaman & Nicobar Islands. Fishermen are advised not to venture into these areas.

- 16 August (Day 3): Heavy to very heavy rain at isolated places very likely over Odisha, Madhya Maharashtra, Vidarbha and Coastal Karnataka; heavy rain at isolated places very likely over Jharkhand, East Rajasthan, Madhya Pradesh, Konkan & Goa, Chhattisgarh, Telangana, South Interior Karnataka and Kerala.
- 17 August (Day 4): Heavy to very heavy rain at isolated places likely over Konkan & Goa and Madhya Maharashtra and heavy rain at isolated places likely over Nagaland, Manipur, Mizoram & Tripura, Rajasthan, Madhya Pradesh, Gujarat Region, Coastal Karnataka and Kerala.
- 18 August (Day 5): Heavy to very heavy rain at isolated places likely over Konkan & Goa, Gujarat Region and West Madhya Pradesh and heavy rain at isolated places likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic west Bengal, Odisha, Rajasthan, Saurashtra & Kutch, Madhya Maharashtra, Tamilnadu, Coastal Karnataka and Kerala.
- The weather outlook for the period of seven days *i.e* 14 to 21 August 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, West Bengal & Sikkim, Bihar, Jharkhand Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Odisha, Gujarat, Konkan & Goa, Vidarbha, Marathawada, Madhya Maharashtra, Karnataka, Coastal Andhra Pradesh, Rayalaseema, Telangana, Kerala, Tamilnadu, Lakshadweep, Andaman & Nicobar Islands and eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Assam

Weather condition

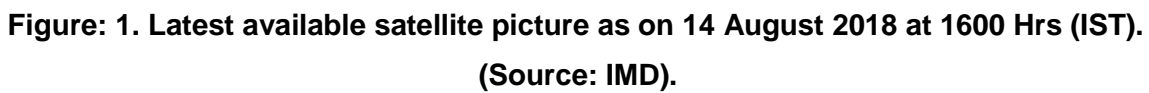
Medium rainfall received in Assam state during past few days. Maximum temperatures were ranged between 31-35°C and 24-26°C respectively.

Contingency measure:

- sali rice: In flood affected areas farmers are advised to grow rice varieties like Andrew Sali, Biraj, MonoharSali, Kmj-1-19-1, Luit, Kapilee, etc by mid August.
- Sesamum (Summer): Collect and sow the recommended varieties of sesame like Gauri, Madhavi, Punjab Tall No-1 etc.
- Summer vegetables: Make provisions in the gardens so that excess rain-water is quickly drained out during the ensuing rainy season. If the attack of fruit fly, red pumpkin beetle and

epilechna beetle in summer gourds may observed, spray endosulphon or malathion 50 EC @ 1 ml per litre in the field to control these insects when the weather is sunny.

- Gamosis disease in citrus plants can be controlled by draining excess water from the field. The affected portion should be scraped with a little extra healthy tissue without injure the wood and then smear Bordeaux paste(1.2 linseed oil).
- Sugarcane: The second earthing up of sugarcane should be done two months after the first earthing up. The second earthing up will transform the trenches/furrows into ridges. The furrows thus made in between the ridges will facilitate draiage of excess water during high rainfall.
- Poultry: Poultry growers can use the hybrid variety of chicken like BV 300, Babcock, BV 380 etc for egg production purpose.



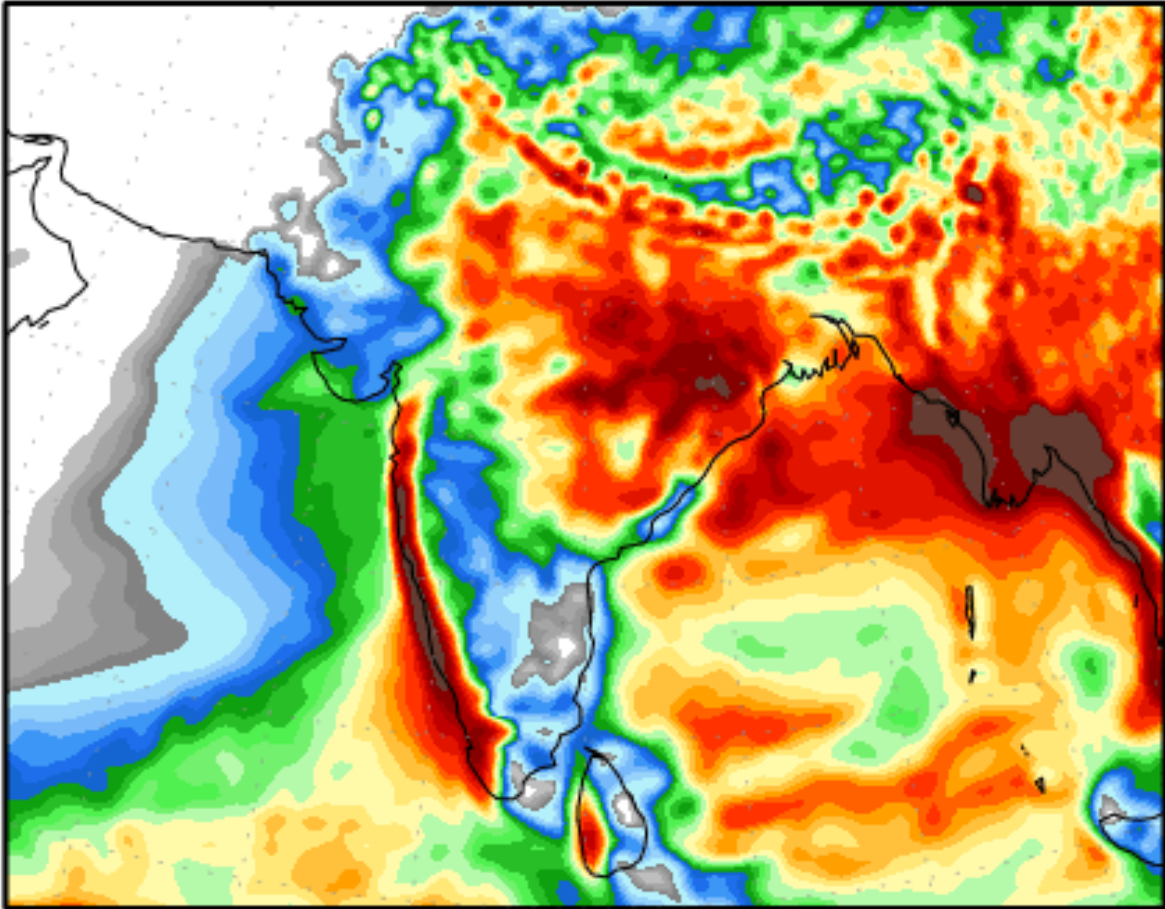


Figure: 2. Precipitation forecast for 14 to 21 August 2018 (Source: NOAA NCEP).