

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 28 August 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The monsoon trough at mean sea level now passes through Jaisalmer, Kota, Guna, Umaria, Korba, Balasore and thence southeastwards to eastcentral Bay of Bengal and extends upto 2.1 km above mean sea level.
- A fresh low pressure area is likely to develop over north Bay of Bengal & neighbourhood around 29th August.
- Fairly widespread to widespread rainfall with isolated heavy rainfall likely over Gujarat, Rajasthan during 24 hours and over Coastal & South Interior Karnataka, Kerala and Odisha during 72 hours.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Jammu & Kashmir, Madhya Pradesh, Gujarat, Vidarbha, Madhya Maharashtra, Konkan & Goa, Lakshadweep and Andaman & Nicobar Islands; at a few places over East Rajasthan, Gangetic West Bengal and Kerala & Mahe and at isolated places over Himachal Pradesh, Uttarakhand, West Rajasthan, Odisha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Tamil Nadu, Puducherry and Karaikal.
- Yesterday, heavy rainfall observed at isolated places over Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours IST yesterday to 0530 hours IST of today): at isolated places over Andaman & Nicobar Islands, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Rajasthan and Madhya Pradesh.
- Maximum temperature departures as on 27-08-2019: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at most places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur,

Mizoram & Tripura; at many places over Himachal Pradesh; at isolated places over Punjab, Haryana, Chandigarh & Delhi, Bihar, Coastal Andhra Pradesh & Yanam and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Konkan & Goa; at many places over Jammu & Kashmir, Uttar Pradesh, Telangana, Rayalaseema and North Interior Karnataka; at isolated places over West Rajasthan, Gangetic West Bengal, Jharkhand and Marathwada. They were markedly below normal (-5.1°C or less) at isolated places over Gujarat Region and West Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Vidarbha; at isolated places over Lakshadweep and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at a few places over Odisha and Chhattisgarh; at isolated places over East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country.

- Minimum temperature departures as on 27-08-2019: Minimum temperatures were appreciably above normal (3.1°C to 53.0°C) at isolated places over Jammu & Kashmir and West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Sub-Himalaya West Bengal & Sikkim; at many places over Punjab, Uttarakhand and Coastal Andhra Pradesh & Yanam; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Madhya Pradesh and Lakshadweep; below normal (-1.6°C to -3.0°C) at isolated places over Madhya Maharashtra, Marathwada and Chhattisgarh and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 28 August (Day 1): Heavy to very heavy rainfall very likely at isolated places over Saurashtra & Kutch; Heavy Rainfall at isolated places over Rajasthan, Andaman & Nicobar Islands, Gujarat region, Madhya Maharashtra, Konkan & Goa, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over southwest Arabian Sea off Somalia coast, westcentral Arabian Sea and central Bay of Bengal. Fishermen are advised not to venture into these areas.
- 29 August (Day 2): Heavy rainfall very likely at isolated places over Uttarakhand, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Saurashtra & Kutch, Konkan & Goa, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong winds, speed reaching 45-55 kmph, are very likely to prevail over southwest Arabian Sea off Somalia coast, westcentral Arabian Sea and central Bay of Bengal. Fishermen are advised not to venture into these areas.

- 30 August (Day 3): Heavy to very heavy rainfall likely at isolated places over Odisha and Heavy Rainfall at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Gujarat region, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka and Kerala & Mahe. Strong winds, speed reaching 40-50 kmph, are likely to prevail over central Bay of Bengal. Fishermen are advised not to venture into this areas.
- 31 August (Day 4): Heavy to very heavy rainfall likely at isolated places over Odisha and Coastal Karnataka and Heavy Rainfall at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Gujarat region, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Strong winds, speed reaching 40-50 kmph, are likely to prevail over central Bay of Bengal. Fishermen are advised not to venture into this areas.
- 01 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Odisha and Coastal Karnataka and Heavy Rainfall at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Gujarat region, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Strong winds, speed reaching 40-50 kmph, are likely to prevail over central Bay of Bengal. Fishermen are advised not to venture into this areas.
- The weather outlook for the period of seven days i.e., 28 August to 05 September 2019 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thunder shower may occur over Sub-Himalayan West Bengal & Sikkim, Bihar, Madhya Pradesh, Odisha, Konkan & Goa, Vidarbha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka, Coastal & South Interior Karnataka, Kerala, Tamil Nadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Gujarat

Weather condition:

No rainfall received in isolated places in Gujarat state during past few days. The maximum temperature was ranged between 32-34°C and minimum temperature was ranged between 24-26° C.

Contingency measure:

- Pearl millet: Vegetative to reproductive stage : Carry out hand weeding and interculturing operations at vapsa condition and apply recommended dose of fertilizer (Top dressing). Paddy : Vegetative : Apply carbofuran 3 G 33 kg per hectare after drain out water from the field for control of stem borer. Hand weeding should be done. Cotton : Vegetative to reproductive: Weeding and inter-culturing should be done at vapsa condition. For control of pink boll worm infestation install the pheromone trap @ 16 per hectare. Apply carbaryl 50% WTP 40 gm in 10 liters of water to avoid pink boll worm in cloudy condition. Tobacco : Transplanting :Carry out transplanting of seedlings of tobacco crop at recommended spacing. Groundnut: Vegetative : Carry out hand weeding and interculturing operations to remove weeds before starting of peg penetration. Green gram : Vegetative : Carry out hand weeding and interculturing operations to remove weeds.
- Vegetable : Transplanting: Carry out transplanting of seedlings of vegetable crops likes tomato, brinjal, chilli, etc.
- Cattle : Provide adequate fodder and keep the animals in clean shed. Give stored fodder balanced mineral mixture in diet. Protect shed from rain and wind. Care should be taken in rainy days for cattle and stored dry fodder

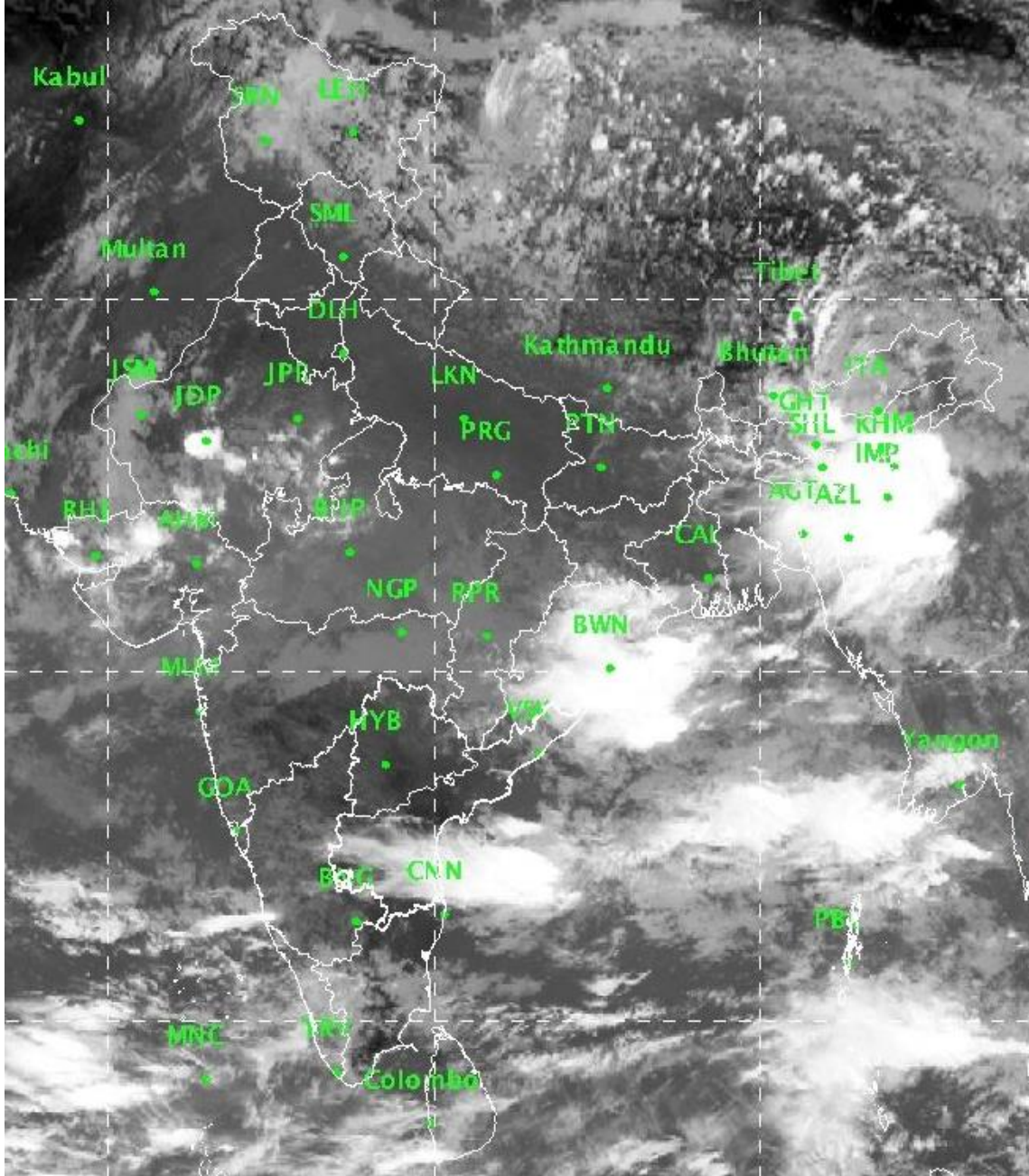


Figure: 1. Latest available satellite picture as on 28 August 2019 at 10:30 Hrs (IST).

(Source: IMD).

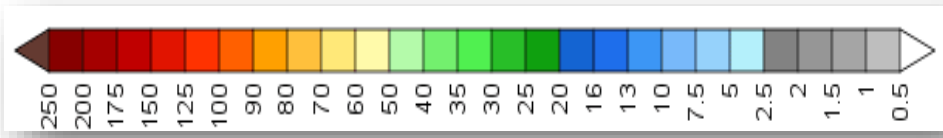
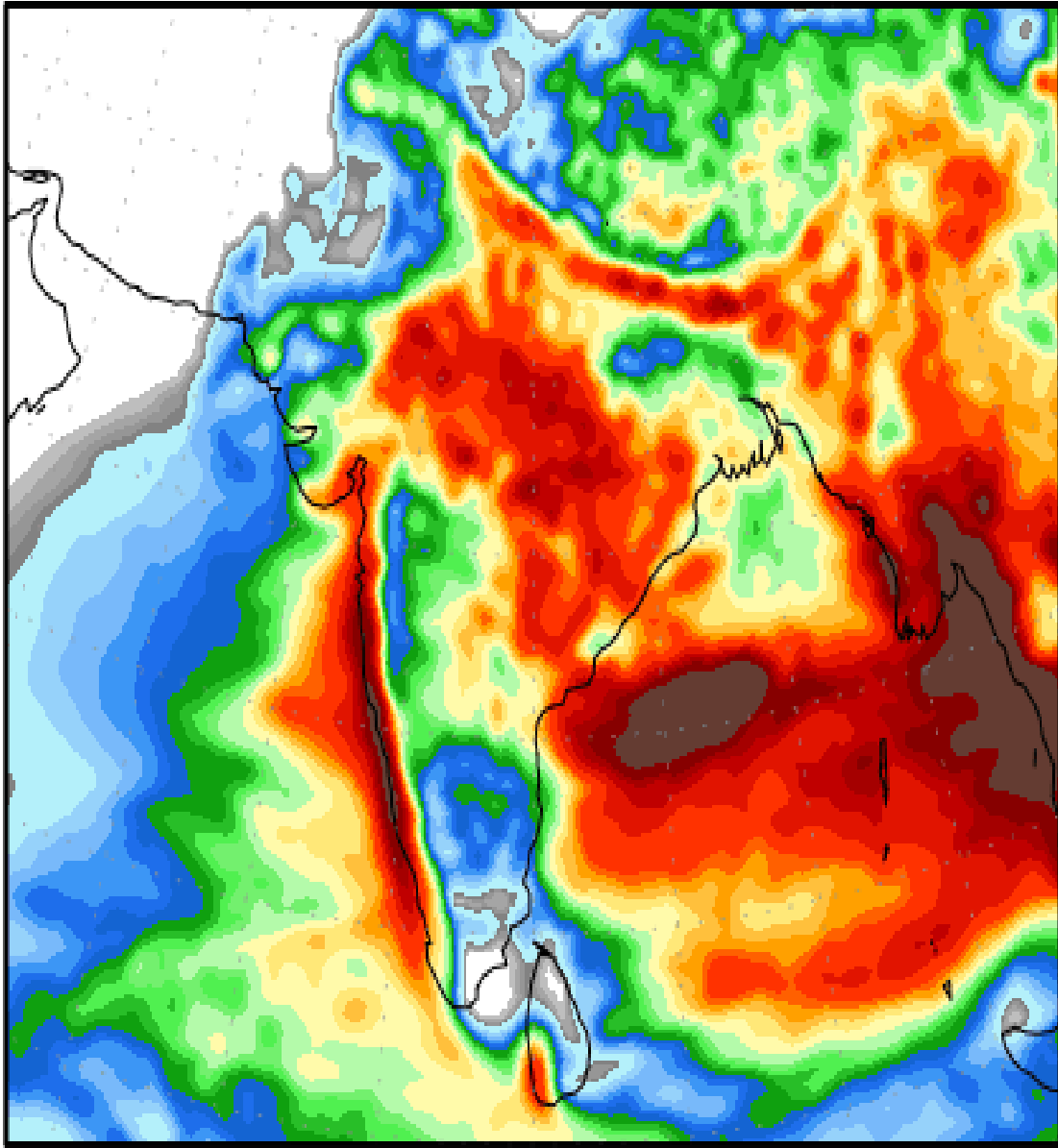


Figure: 2. Precipitation forecast for 28 August to 05 September 2019 (Source: NOAA NCEP).