

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 23 September 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Deep Depression over northeast and adjoining eastcentral Arabian sea moved nearly westwards with a speed of 17 kmph during past 06 hours, intensified into Cyclonic Storm 'HIKKA' and lay centred at 0530 hours IST of today, the 23rd September, 2019 over northeast and adjoining eastcentral Arabian Sea near latitude 20.5°N and longitude 66.2°E, about 500 km west-southwest of Veraval (Gujarat), 430 km south-southwest of Karachi (Pakistan) and 760 km east-southeast of Masirah (Oman). It is very likely to move nearly westwards and reach Oman coast by 25th September early morning. It is likely to intensify further during next 24 hours and weaken gradually thereafter.
- Under the influence of above system, Squally wind, speed reaching 40-50 kmph gusting to 60 kmph, very likely to prevail along & off Gujarat coast during next 24 hours. The fisherman are advised not to venture into northeast and adjoining eastcentral Arabian Sea and along & off Gujarat coast during next 36 hours.
- A low pressure area is likely to form over westcentral Bay of Bengal around 24 September, 2019. Under its influence, increase in rainfall activity likely over north Odisha, Gangetic West Bengal from 25 September.
- The cyclonic circulation over westcentral Bay of Bengal off north Andhra Pradesh coast extending upto 7.6 km above mean sea level tilting southwestwards with height persists. Under its influence, Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Rayalaseema, Telangana, Coastal Andhra Pradesh and South Interior Karnataka during next 48 hours. Subdued rainfall activity likely to continue over northwest, central and northeast India during next 3 days.
- 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 most places over East Uttar Pradesh, Nagaland, Manipur, Mizoram &

Tripura and Andaman & Nicobar Islands; at many places over Himachal Pradesh, West Uttar Pradesh, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; at a few places over Gujarat state, Odisha, Gangetic West Bengal, Arunachal Pradesh, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal and at isolated places over Jammu & Kashmir, Uttarakhand, Haryana, Chandigarh & Delhi, West Rajasthan, Bihar, Madhya Maharashtra, Andhra Pradesh & Yanam, Telangana and South Interior Karnataka.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Jammu & Kashmir, Haryana, Chandigarh & Delhi, West Rajasthan, Uttar Pradesh, Uttarakhand, Punjab, Bihar, West Bengal & Sikkim, Odisha, Gujarat, Madhya Pradesh, Madhya Maharashtra, Vidarbha, Chhattisgarh, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Assam & Meghalaya, Nagaland, Mizoram, Manipur & Tripura and West Bengal & Sikkim.
- Maximum temperature departures as on 22-09-2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu Kashmir, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Coastal Karnataka and Kerala & Mahe; above normal (1.6°C to 3.0°C) at many places over Gangetic West Bengal and Chhattisgarh; at a few places over Odisha and at isolated places over West Rajasthan, Interior Karnataka, Konkan & Goa and Telangana. They were markedly below normal (-5.1°C or less) at a few places over Haryana, Chandigarh & Delhi and at isolated places over West Uttar Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over East Uttar Pradesh and West Madhya Pradesh and at a few places over Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at many places over East Rajasthan; at a few places over Bihar and at isolated places over Assam & Meghalaya, Saurashtra & Kutch, Rayalaseema, East Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest of the country.
- Minimum temperature departures as on 22-09-2019: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Punjab, West Rajasthan; at a few places over Sub-Himalayan West Bengal Sikkim and at isolated places over East Rajasthan, Gujarat Region, Tamil Nadu, Puducherry & Karaikal, Kerala, Coastal Andhra Pradesh and Assam & Meghalaya. They were below normal (-1.6°C to -3.0°C) at isolated places over Madhya Pradesh, Vidarbha and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 23 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Telangana, Rayalaseema, Interior Karnataka and heavy rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Bihar, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam,

Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely to occur at isolated places over Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Odisha, Jharkhand and Bihar. Gale winds, speed reaching 60-70 kmph gusting to 80 kmph, very likely to prevail over northeast and adjoining eastcentral Arabian Sea. Rough to Very rough sea conditions is likely to prevail along & off Gujarat coast and over northwest & adjoining westcentral Arabian Sea and High sea conditions over northeast and adjoining eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 24 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over Gangetic West Bengal and heavy rainfall at isolated places over West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely to occur at isolated places over Sub- Himalayan West Bengal & Sikkim. Squally winds, speed reaching 55-65 kmph gusting to 75 kmph, very likely to prevail over northeast and adjoining eastcentral Arabian Sea. Squally winds, speed reaching 75-85 kmph gusting to 95 kmph, very likely to prevail over northwest and adjoining westcentral Arabian Sea and along & off Oman coast. Fishermen are advised not to venture into these areas.
- 25 September (Day 3): Heavy to very heavy rainfall likely at isolated places over Gangetic West Bengal, Odisha and Coastal Karnataka and heavy rainfall at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Vidarbha, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- 26 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Odisha, Kerala and Coastal Karnataka and heavy rainfall at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- 27 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Odisha, Kerala and Coastal Karnataka and heavy rainfall at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Jharkhand, Gangetic West Bengal, Vidarbha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

The weather outlook for the period of seven days *i.e.*, 23 to 01 October 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower 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 Island and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Western U.P

Weather condition:

Very light to moderate rainfall is received in Western U.P state during past few days. The maximum temperature was ranged between 25-32°C and minimum temperature was ranged between 22-26°C.

Contingency measure:

- Paddy: Light to medium rainfall forecast from 22 to 25 September farmers are advised to stop irrigation. If seen 10 Leaf hopper or 2 adult of Hispa per hill of paddy used Quinalphos 25 EC, 1.5 litre/ha or Carbofuran 3%, @ 20 kg/ha or Diclorovas 76EC @ 500ml /ha with 500 to 600 litre of water. 1/4 clear sky. Urea should be top dressed at PI stage. For controlling of gundhibug population reaches 2-3 insect per hill apply Malathion dust 5% @ 20-25 kg or sparing Monocrotophos 36 WSC @ 1.5 lt. per hectare at clear sky. Maize: Protect from birds. If seen shoot borer apply 2% dust of Fenthroet @ 25 to 30 kg/ha. or Fenitrothian 50 EC or Quinalphos 25 EC, 2.0 litre/ha with 500 to 600 lt. of water. Harvest mature crop after 25 September. Sorghum: Dusting should be done with Carbofuran, 3G @ 20kg/ha to protect from shoot borer at clear sky. Pearl millet: For control measure of shoot borer apply 2% dust of Fenthroet @ 25 to 30 kg/ha. or Fenitrothian 50 EC or Quinalphos 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water during clear day at clear sky. Pigeon pea: If seen leaf roller spray Quinalphos 25 EC, 2.0 litre/ha with 500 to 600 litre. of water at clear sky. Black gram: Monitor for insect and pest. Remove Mosaic infested plant. Green gram: Monitor for insect and pest. Remove Mosaic infested plant. Ground nut: If seen Tikka diseases spray 2% Mancozeb or Zineb 75% 2.5kg or Ziram 27% 3 litre with 500 to 600 litre of water solution at clear sky. Toria: Weeding and thinning should be taken up. Brinjal/Chilies: Transplanting should be done with new seedlings. Pick up

mature fruits from standing crop, watching insect & pest, if need apply recommended dose of insecticide.

- Leafy Vegetable: Sowing of Palak, Soya, Methi, Coriander and Radish and cutting and marketing. Jowar/Maize Mucchari + Lobia + Moongbean: Cutting of fodder.
- Animal: Bathing should be done in animals before milking and fresh water should be used for drinking . Balanced diet should be given for milch animal with 50% green fodder. Common diseases of animals are Anthrax (high fever and enlargement of spleen), the others are Gala Ghotu. (respiratory trouble and Surra (Sudden death of animals after restlessness). The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

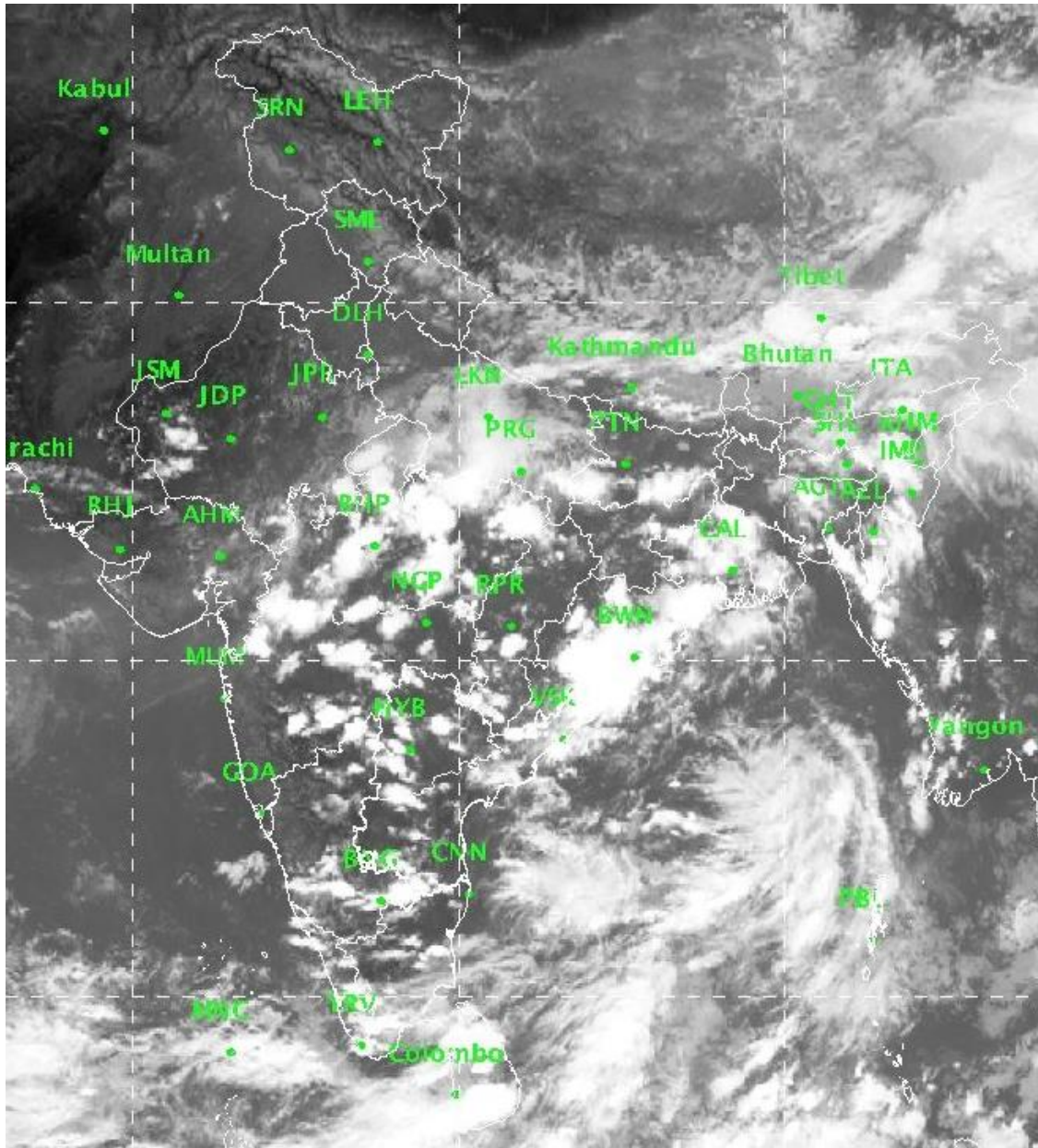


Figure: 1. Latest available satellite picture as on 23 September 2019 at 14:30 Hrs (IST).

(Source: IMD).

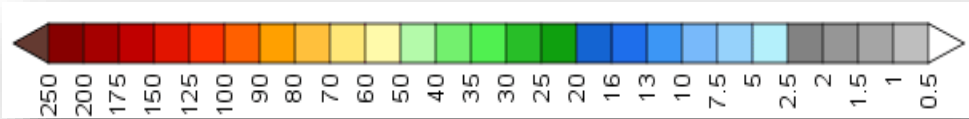
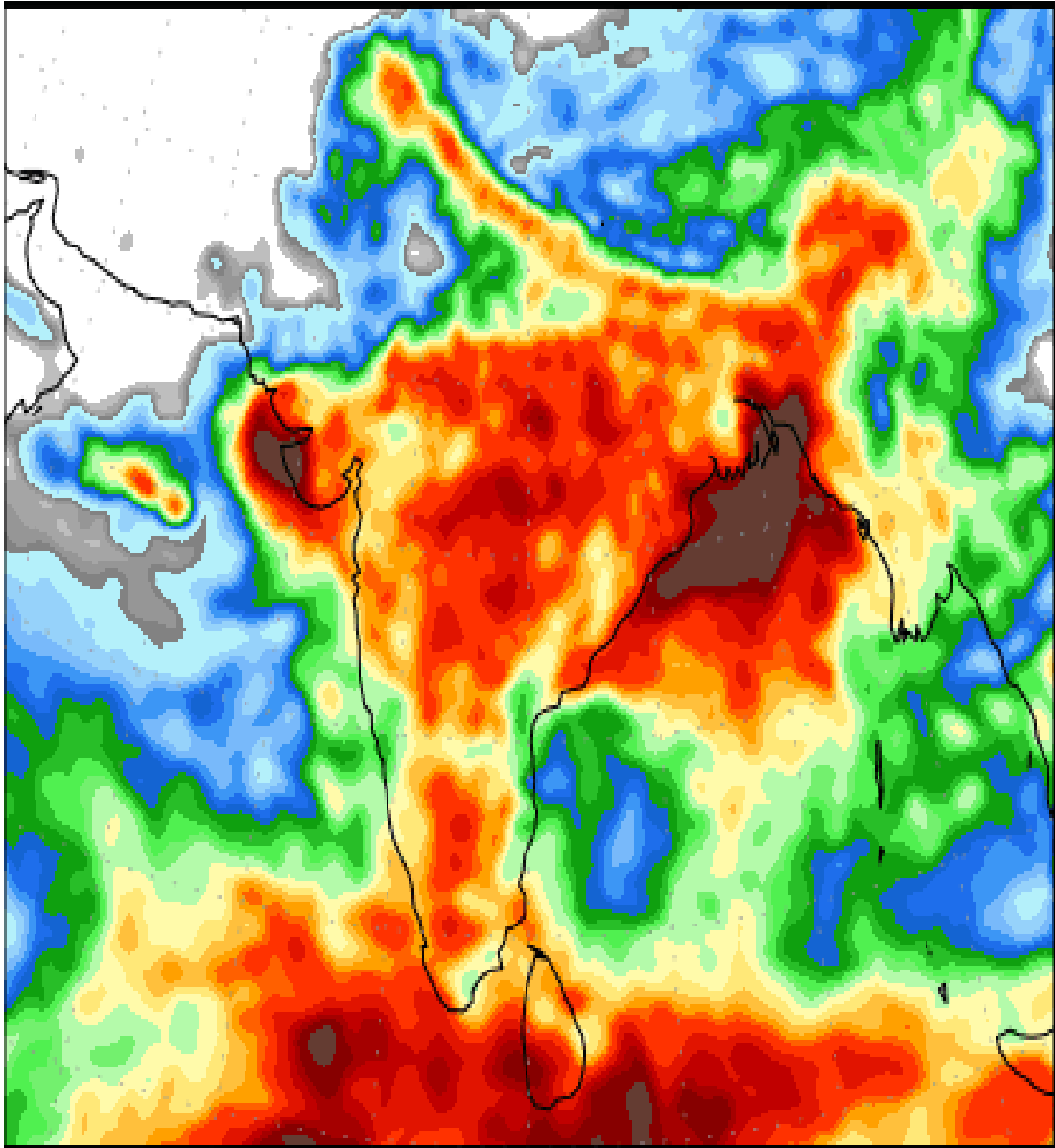


Figure:2. Precipitation forecast for 23 to 01 October 2019 (Source: NOAA NCEP).

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