

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

Daily Crop Weather Information as on 13 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The withdrawal line of the Southwest Monsoon continues to pass through Lat. 28°N/ Long.83°E, Faizabad, Fatehpur, Nowgong, Rajgarh, Ratlam, Vallabh Vidyanagar, Porbandar, Lat. 21°N/ Long.65°E and Lat. 21°N/ Long.60°E.
- The system crossed north Andhra Pradesh coast close to Kakinada(near Lat. 17.0°N and long. 82.4°E) between 0630 & 0730 hours IST of today, the 13th October 2020, as a Deep Depression with maximum sustained wind speed of 55-65 kmph gusting to 75 kmph. Moving west-northwestwards with a speed of 24 kmph during past 06 hours and lay centred at 0830 hrs IST of today, the 13th October 2020 near latitude 17°N and longitude 82.1°E, about 15 km westnorthwest of Kakinada (Andhra Pradesh) and 200 km east-southeast of Khammam (Telangana). It is very likely to move west-northwestwards and weaken into a Depression during next 06 hours and further weaken into a Well marked Low Pressure Area during the subsequent 12 hours.
- Under the influence of the above system, the following adverse weather is likely:
Rainfall warning:
- 13th October 2020: Light to moderate rainfall at most places with heavy to very heavy falls at a few places and extremely heavy rainfall (>20 cm per day) at isolated places would occur over Telangana and adjoining districts of North Interior Karnataka; heavy to very heavy falls at isolated places over Coastal & remaining districts of North Interior Karnataka, south Konkan & Goa, Madhya Maharashtra & Marathawada and heavy falls at isolated places over north Andhra Pradesh, Rayalaseema, South Interior Karnataka, south Odisha, south Chhattisgarh and Vidarbha.
- 14th October 2020: Light to moderate rainfall at most places with heavy to very heavy falls at a few places and extremely heavy rainfall (>20 cm per day) at isolated places would occur over Madhya Maharashtra; heavy to very heavy falls at isolated places over Konkan & Goa, North Interior Karnataka and

Marathawada and heavy falls at isolated places over Coastal & South Interior Karnataka.

- Fishermen Warning: Fishermen are advised not to venture into Westcentral, Northwest & Southwest Bay of Bengal and along & off Andhra Pradesh Odisha-Tamil Nadu & Puducherry coasts till 13th October noon and over Gulf of Mannar during 13th & 14th October 2020. Also, fishermen are advised not to venture into north Andaman Sea during 13th-15th October; into Comorin area on 13th; Eastcentral Arabian sea along & off south Maharashtra-Goa coast during 13th-15th and along & off Gujarat-Maharashtra coast on 16th & 17th and along & off Karnataka-Kerala coasts on 13th & 14th October.
- 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 Andaman & Nicobar Islands, Marathawada, Karnataka, Telangana, Kerala & Mahe, and Coastal Andhra Pradesh & Yanam and Lakshadweep; at many places over Konkan & Goa, Madhya Maharashtra and Rayalaseema, ; at a few places over Odisha, Vidarbha and Tamil Nadu, Puducherry & Karaikal and at isolated places over Arunachal Pradesh, Assam & Meghalaya, West Bengal & Sikkim, Chhattisgarh, Madhya Pradesh and Jharkhand.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Assam & Meghalaya, Jharkhand, Odisha, Madhya Maharashtra, Rayalaseema and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 12-10-2020: 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 many places over Himachal Pradesh, Uttarakhand and Nagaland, Manipur. Mizoram & Tripura; at a few places over Arunachal Pradesh and West Bengal & Sikkim; at isolated places over Uttar Pradesh and East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad; at many places over West Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Bihar and Jharkhand; at a few places over Haryana, Chandigarh & Delhi, Gujarat Region and Tamilnadu, Puducherry & Karaikal; at isolated places over Punjab and East Rajasthan. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Coastal Andhra Pradesh & Yanam; at a few places over North Interior Karnataka; at isolated places over Madhya

Maharashtra, Telangana and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at many places over Coastal & South Interior Karnataka; at a few places over Konkan & Goa, Marathwada, isolated places over Kerala & Mahe and Lakshadweep and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.6°C was reported at Barmer (West Rajasthan).

- Minimum Temperature Departures as on 13-10-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh, Uttarkhand, East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, West Madhya Pradesh, Chhattisgarh and Bihar; at isolated places over Uttar Pradesh, Vidarbha, Madhya Maharashtra, Jharkhand and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Marathwada, Gangetic West Bengal and Odisha; at a few places over Haryana, Chandigarh & Delhi, Saurashtra & Kutch, Arunachal Pradesh and Tamil Nadu, Puducherry & Karaikal; at isolated places over Gujarat Region, Konkan & Goa, Telangana, Andaman & Nicobar Islands and Lakshadweep. They are below normal (-1.6°C to -3.0°C) at isolated places over East Rajasthan and near normal over rest parts of the country. The lowest minimum temperature of 15.5°C reported at Bhilwara (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 13 October (Day 1): Heavy to very heavy rainfall at a isolated places with extremely heavy falls very likely at isolated places over Telangana and North Interior Karnataka; heavy to very heavy rainfall at isolated places over Konkan & Goa, Marathawada, western parts of Coastal Andhra Pradesh, Kerala & Mahe and Coastal & South Interior Karnataka and heavy rainfall at isolated places over Vidarbha, south Chhattisgarh, Madhya Maharashtra, Odisha, Andaman & Nicobar Islands, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Kerala & Mahe. Squally Winds (speed reaching 55-65 kmph gusting to 75 kmph) very likely to prevail over westcentral Bay of Bengal and along & off Andhra Pradesh coast during next 03 hours and gradually decrease thereafter becoming 40-50 kmph gusting to 60

kmph during subsequent 06 hours; (speed reaching 40-50 kmph gusting to 60 kmph) along & off south Odisha-Tamil Nadu & Puducherry coasts and adjoining areas of Southwest & Northwest Bay of Bengal during next 06 hours and decrease thereafter and over Gulf of Mannar; (speed reaching 40- 50 kmph) over north Andaman Sea, Comorin area, Gulf of Mannar, Eastcentral Arabian Sea and along & off Kerala-Karnataka-south Maharashtra-Goa coasts. Sea conditions would be rough to very rough over westcentral & adjoining northwest Bay of Bengal, southwest Bay of Bengal and along & off Odisha-Andhra Pradesh-Tamil Nadu & Puducherry coasts till 13th October noon and over Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 14 October (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls very likely at isolated places over Madhya Maharashtra and Konkan & Goa; heavy to very heavy rainfall at a isolated places with extremely heavy falls very likely at isolated places over Marathawada and North Interior Karnataka; heavy to very heavy rainfall at isolated places over southwest Telangana, Coastal Karnataka and heavy rainfall at isolated places over Vidarbha, Andaman & Nicobar Islands, Kerala & Mahe, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Andaman & Nicobar Islands, Gujarat region, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe. Squally Winds (speed reaching 40-50 kmph) very likely over north Andaman Sea, Eastcentral Arabian Sea and along & off Kerala Karnataka-south Maharashtra-Goa coasts. Sea conditions would be rough to very rough over over Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 15 October (Day 3): Heavy to very heavy rainfall at a few places with extremely heavy falls very likely at isolated places over Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over Andaman & Nicobar Islands, Kerala & Mahe and Coastal Karnataka. Thunderstorm with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gujarat state, Coastal & North Interior Karnataka and Kerala & Mahe. Squally Winds (speed reaching 40-50 kmph) very likely over north Andaman Sea, Eastcentral Arabian Sea and along & off south Maharashtra -Goa coasts. Fishermen are advised not to venture into these areas.
- 16 October (Day 4): Heavy to very heavy rainfall likely at isolated places over Konkan & Goa and heavy rainfall at isolated places over Andaman & Nicobar Islands, Gujarat region, Madhya Maharashtra and Tamil Nadu, Puducherry &

Karaikal. Thunderstorm with lightning likely at isolated places over Madhya Pradesh, Jharkhand, Gujarat state and Tamil Nadu, Puducherry & Karaikal. Squally Winds (speed reaching 45-55 kmph) likely over Northeast, Eastcentral Arabian Sea and along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.

- 17 October (Day 5): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Gujarat state, Madhya Maharashtra and north Konkan. Thunderstorm with lightning likely at isolated places over Madhya Pradesh, Jharkhand, Gujarat state, Coastal Andhra Pradesh, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Squally Winds (speed reaching 45-55 kmph) likely over northeast, Eastcentral Arabian Sea and along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 13 to 21 October 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)

Gujarat

Weather condition:

The actual maximum temperature was 1.6 °C lower and Actual minimum temperature was 1.3 °C higher as compared to its normals. Total BSS was 62.3 hrs. with an average of 8.9 hrs. The daily average evaporation and wind speed was 4.2 mm and 4.6 km/hr respectively. The daily average RH during morning and afternoon was 86.7 % and 52.1 % respectively.

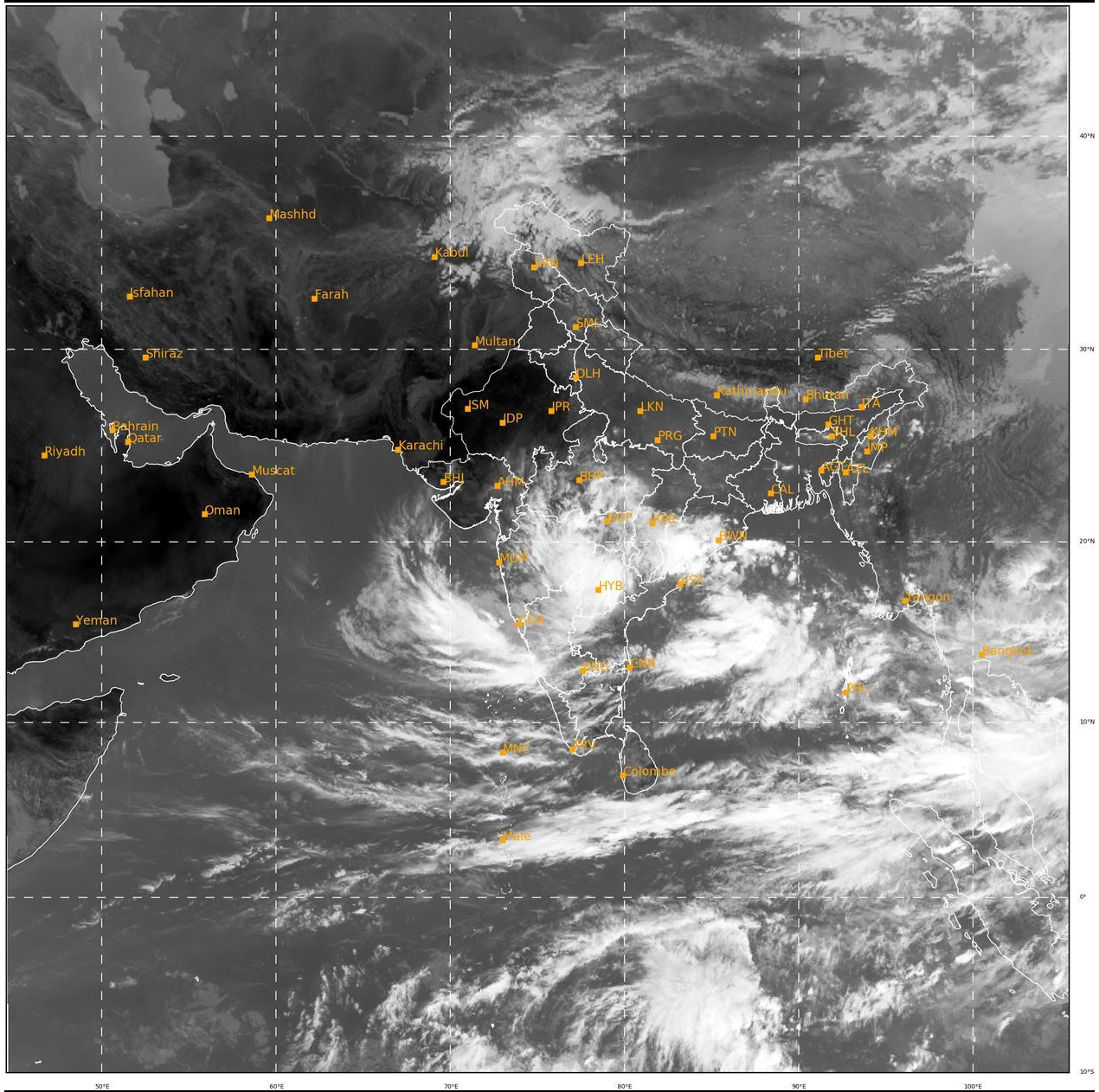
Contingency measure:

- Pearl millet : Protect crop from birds. Harvest mature crop.
- Paddy : At initial stage of incidence of paddy stem borer, install pheromone trap. In heavy incidence of stem borer, apply carbosulfan 5 G (4 kg) or cartap hydrochloride 4 G (5 kg) or carbofuran 3 G (6 kg) per vigha (20 guntha) after removal of water from field. For control of Brown Leaf hopper in paddy spray Monocrotophose 36% (15 ml) + Dichlorvos (5 ml) or Fenobucarb 15 ml/10 litre water
- Tobacco : Transplanting : Carry out transplanting of seedlings of tobacco crop at recommended spacing. Gap filling, interculturering and weeding is advised.
- Green gram : Peaking of matured green gram pod and ensure safe storage of pods.

- COTTON : Reproductive: 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.
- CASTOR : Vegetative Growth : Cercospora leaf spot disease is caused by cercospora fungus. For controlling of this disease Mencozeb 75% WP 25gm in 10 lit of water should be sprayed. If disease severity is higher, do second spray after 15 days.
- Vegetable Crop: Growth: Due to variable weather farmers are advised to constant monitoring against attack of pest and disease in vegetable crop, if symptom observed, take protection measures as per recommendation when sky remain clear.
- TOMATO: Vegetative Growth: there is possibility of incidence of spotted wilt virus, spray Carbendazim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.
- 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.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

13-10-2020/(0800 to 0827) GMT
13-10-2020/(1330 to 1357) IST



337

939

IMD, DELHI

Figure: 1. Latest available satellite picture as on 13 October 2020 at 1357 Hrs (IST). (Source: IMD).

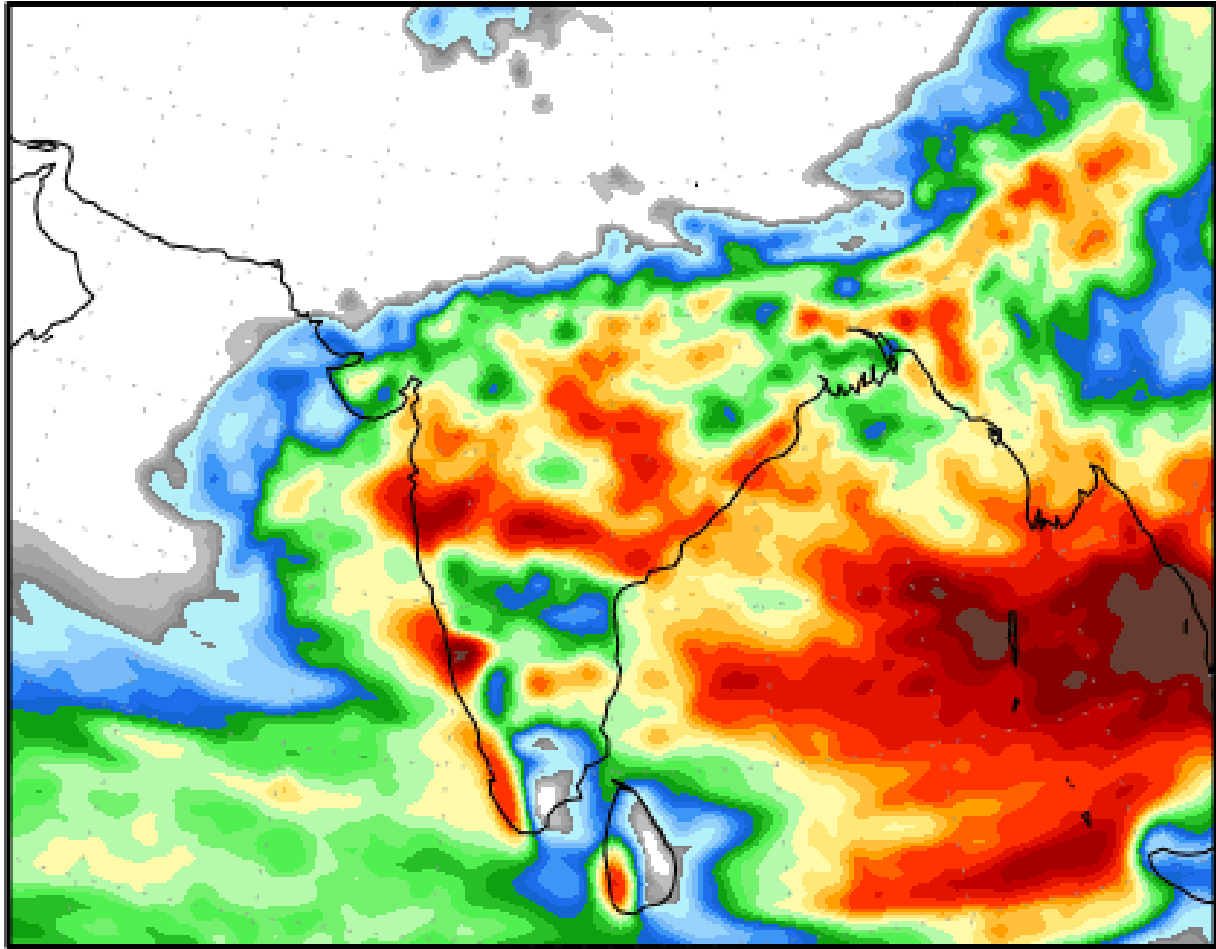


Figure:2. Precipitation forecast for 13 to 21 October 2020 (Source: NOAA NCEP).

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