

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 14 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 Depression over Telangana moved further west-northwestwards with a speed of 25 kmph during past 06 hours and lay centered at 0530 hours IST of today, the 14th October, 2020, over western parts of Telangana, near latitude 17.7°N and longitude 78.1°E, about 130 km east-northeast of Gulbarga (North Interior Karnataka) and about 50 km west of Hyderabad (Telangana). It is very likely to move further west-northwestwards and gradually weaken into a Well Marked Low Pressure Area during next 12 hours.
- Under the influence of the above system, the following adverse weather is likely:
Rainfall warning:
- 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 and south Konkan & Goa and heavy to very heavy falls at isolated places over north Konkan & Goa, Karnataka and Marathawada.
- 15th 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 south Konkan & Goa and heavy to very heavy falls at isolated places over north Konkan and Madhya Maharashtra and heavy falls at isolated places over south Gujarat region.
- Fishermen Warning: Fishermen are advised not to venture into over Gulf of Mannar during 14th October 2020. Also, fishermen are advised not to venture into north Andaman Sea during 14th-15th October; Eastcentral Arabian sea along & off south Maharashtra-Goa coast during 14th-15th and along & off GujaratMaharashtra coast on 16th & 17th and along & off Karnataka-Kerala coasts on 14th October.

- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday) at most places over Konkan & Goa, Telangana and Kerala & Mahe; at many places over Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Andaman & Nicobar; at a few places over Interior Karnataka, Odisha and Lakshadweep; and at isolated places over West Madhya Pradesh, Rayalseema and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0530 hours IST of today): at isolated places over Odisha, Coastal Andhra Pradesh, Telangana, Konkan & Goa, North Interior Karnataka, Assam & Meghalaya, Tripura and Madhya Maharashtra.
- Maximum Temperature Departures as on 13-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at a few places over Assam & Meghalaya; at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over West Bengal & Sikkim, Bihar, Jharkhand, Uttarakhand and West Rajasthan; at many places over Odisha, Himachal Pradesh, Punjab, Saurashtra & Kutch and East Rajasthan; at a few places over East Uttar Pradesh, West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal; at isolated places over Haryana, Chandigarh & Delhi and West Uttar Pradesh. They were below normal (-1.6°C to -3.0°C) at most places over Coastal Karnataka, Vidarbha and Telangana; at many places over Interior Karnataka and Rayalseema; at a few places over Kerala & Mahe, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam; at isolated places over Vidarbha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.7°C was reported at Rajkot (Saurashtra & Kutch).
- Minimum Temperature Departures as on 13-10-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh, Uttarakhand, 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 were below normal (-1.6°C to -3.0°C) at isolated places over East Rajasthan and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 15.5°C was reported at Bhilwara (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 14 October (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls very likely at isolated places over Madhya Maharashtra and south Konkan & Goa; heavy to very heavy rainfall at isolated places over north Konkan & Goa, Marathawada and Karnataka and heavy rainfall at isolated places over Vidarbha, Andaman & Nicobar Islands, Kerala & Mahe 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 2): Heavy to very heavy rainfall at a few places with extremely heavy falls very likely at isolated places over south Konkan & Goa; heavy to very heavy falls at isolated places over north Konkan and Madhya Maharashtra and heavy rainfall at isolated places over south Gujarat region, 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 3): 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 4): 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.
- 18 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., 14 to 22 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)

Jammu

Weather condition:

Mainly clear weather prevailed during this week with no rainfall. The maximum and minimum temperature remain above normal by 1°C and was in the range of 33.2 to 33.8 °C and 17.4 to 19.0°C, respectively. The morning and evening relative humidity were observed between 76 to 81 % and 38 to 41 %, respectively. The total evaporation during this week was observed 23.5 mm and bright sunshine in the range of 7.8 to 8.3 hrs per day.

Contingency measure:

- Paddy Early maturing Semi fine Basmati Harvesting Maturity ? Milking Harvest the early maturing varieties of rice when 80 per cent grains in panicle are golden colour and keep rice sheaves in the field for drying to allow remaining grains to mature before threshing. Due to the prevailing weather conditions, if rice crop get infected with brown spot, spray the crop with mancozeb @ 0.25%. Give 2-3 sprays at 15 days

interval. Give foliar application of carbendazim @ 0.1% (1gm/lit of water) to control sheath blight. Give irrigation as per requirement of crop.

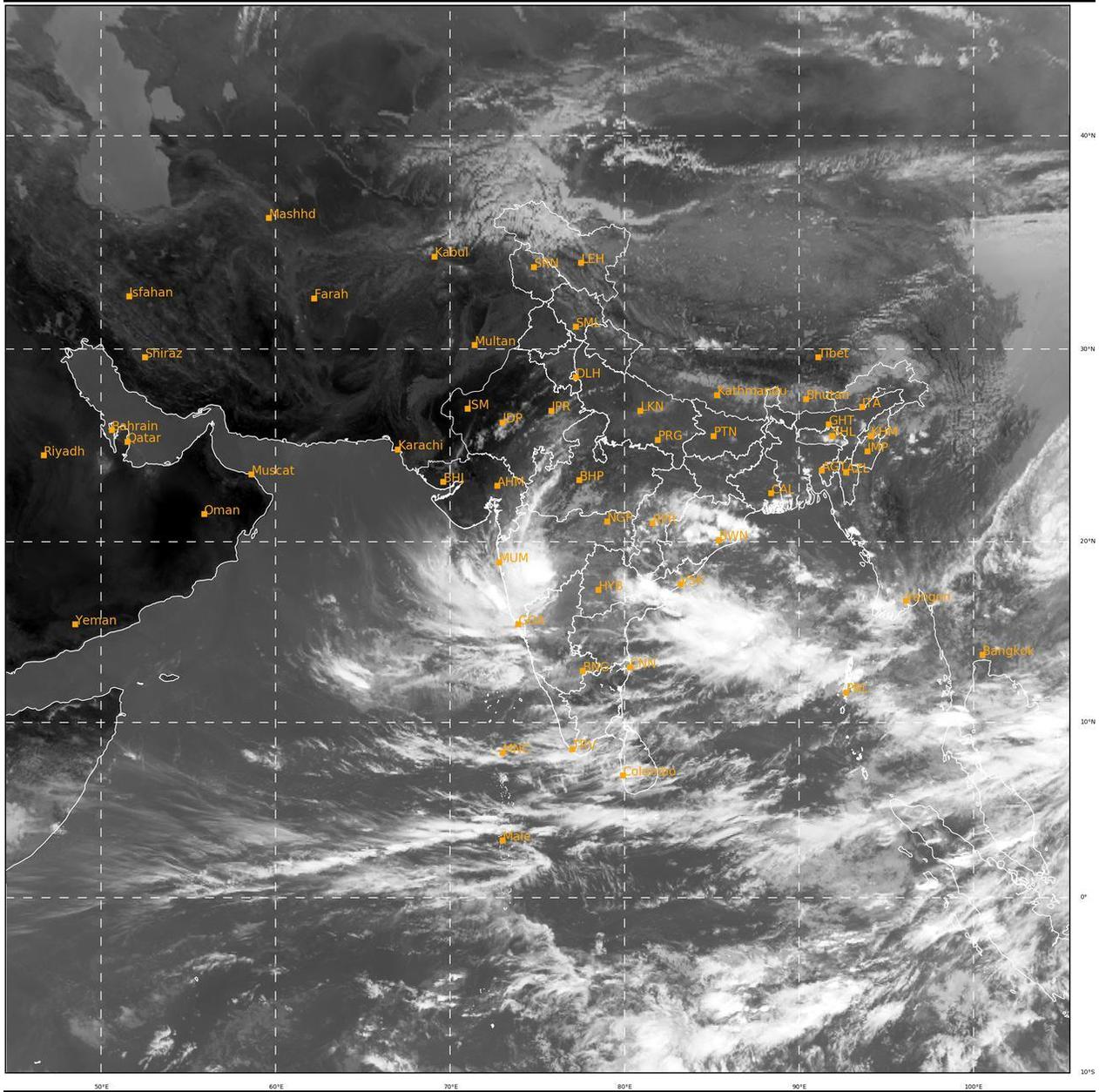
- Pulses (Mash) Maturity Harvest crop when 70-80% pods mature. Maize Harvest/post harvest Harvest the crop. De husk the harvested cobs. Shelled grains should be properly cleaned & dried up to <10% moisture for safe storage. Clean and disinfect stores. Plug all holes, cracks, crevices with cement. Fallow Land Plough and plank the fields vacated after harvesting of maize crop to conserve soil moisture and keep them ready for succeeding rabi crops Oilseed (Torja) Emergence/ Early vegetative Farmers may go for thinning and hoeing in 15-20 days old crop to provide proper spacing.
- Rabi fodder Berseem Sowing Sowing of berseem crop (mascavi, pusa giant, BL-1) with seed rate @ 25 -30 kg/ha and treat the seed with Captan/Thiram @3g/kg. Seeds Treat the seed with Rhizobium (*Rhizobium trifolii*) culture, if the crop is sown for the first time in the field.
- Floriculture: Chrysanthemum Marigold Ornithogalum winter season annuals Vegetative Transplanting Planting Transplanting Give first pinching followed by hoeing of field. Spray imidacloprid to protect plants from mealy bug attack. Spray bavistin or DM-45 @ 1gm/lit or 2gm/lit respectively to keep away fungal diseases. Farmers can go for transplanting of seedlings due to presence of sufficient moisture in soil. Planting of bulbs in the field is recommended. Transplant winter season annuals.
- Vegetables: Potato Cole crops/ Radish/ fenugreek/ spinach/ turnip Ginger/turmeric Sowing Nursery raising Transplanting Sowing of winter potato (var. K Badshah, K. Sinduri, K. Chipsona & K. Sona) is recommended. Sowing of radish (var. P. Reshmi), carrot (var. Pusa Kesar, P. Yamdagani), Turnip (var. PTWG), garlic (var. local, yamuna safed agrifound parvati), Methi (var. pusa early bunching and kasuri methi) and spinach (var. all green) is recommended. Treat seed with Captan/Thiram @ 2gm/kg of seed against seed borne fungal diseases. Transplant onion, knol khol, cabbage, cauliflower and broccoli. Weeding and hoeing is recommended.
- Horticulture Guava/ Citrus/Mango Young/Bearing Remove the congress grass from the bunds of orchard. If the plants show week growth under apply light doses of urea. Remove dry shoots and destroy them to control mango scale and shoot borer. Spray copper oxychloride @ 3gm/lit to control anthracnose in mango. Spray 2,4-D @ 10kg/lit against citrus fruit drop. Spray streptomycin @ 100 ppm to control citrus canker in citrus plants. Spray carbaryl 50WP @ 2 gm/lit to check fruit sucking moth in citrus. Button mushroom Milky Mushroom Compost preparation Fruiting

Farmers may go for compost preparation. Clean and sterilize the cropping room. Maintain 70-80% humidity in cropping room. Book the spawn. The bags of milky mushrooms from which harvest has been made may be discarded.

- Apiculture Spray chloropyriphos around boxes of apiary for protection from termites or put the leg of these beehives stand in water pot. Give artificial sugar feeding in the ratio of 2:1. Reduce wasp attack by reducing the entrance of hives, destruction of wasp nest giving baits.
- Fisheries Fingerlings Apply regular supplementary feed on daily basis @ 3-5% of total fish biomass in the pond. Liming @ 300kg/ha/yr & manuring @ 10,000kg/ha/yr should be done at the interval of 7-10 days. In case of new ponds, farmers may go for stocking of carp seed, available at the Govt. fisheries farm.
- Live stock Calcium should be supplemented in the diet of dairy animal as rice straw feeding leads to depletion of Ca levels in the blood thereby reduces milk yield and general health condition. Deworming of all livestock needs to be done against helminths using fenbendazole or closantel.
- Poultry Water supply should be adequate and add vitamin C in water. Proper ventilation must be maintained at poultry house. Maintain hygiene. Use fan in poultry houses due to high humidity.

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

14-10-2020/(0800 to 0827) GMT
14-10-2020/(1330 to 1357) IST



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IMD,DELHI

Figure: 1. Latest available satellite picture as on 14 October 2020 at 1357 Hrs (IST). (Source: IMD).

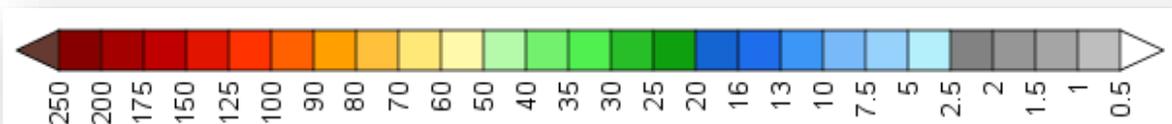
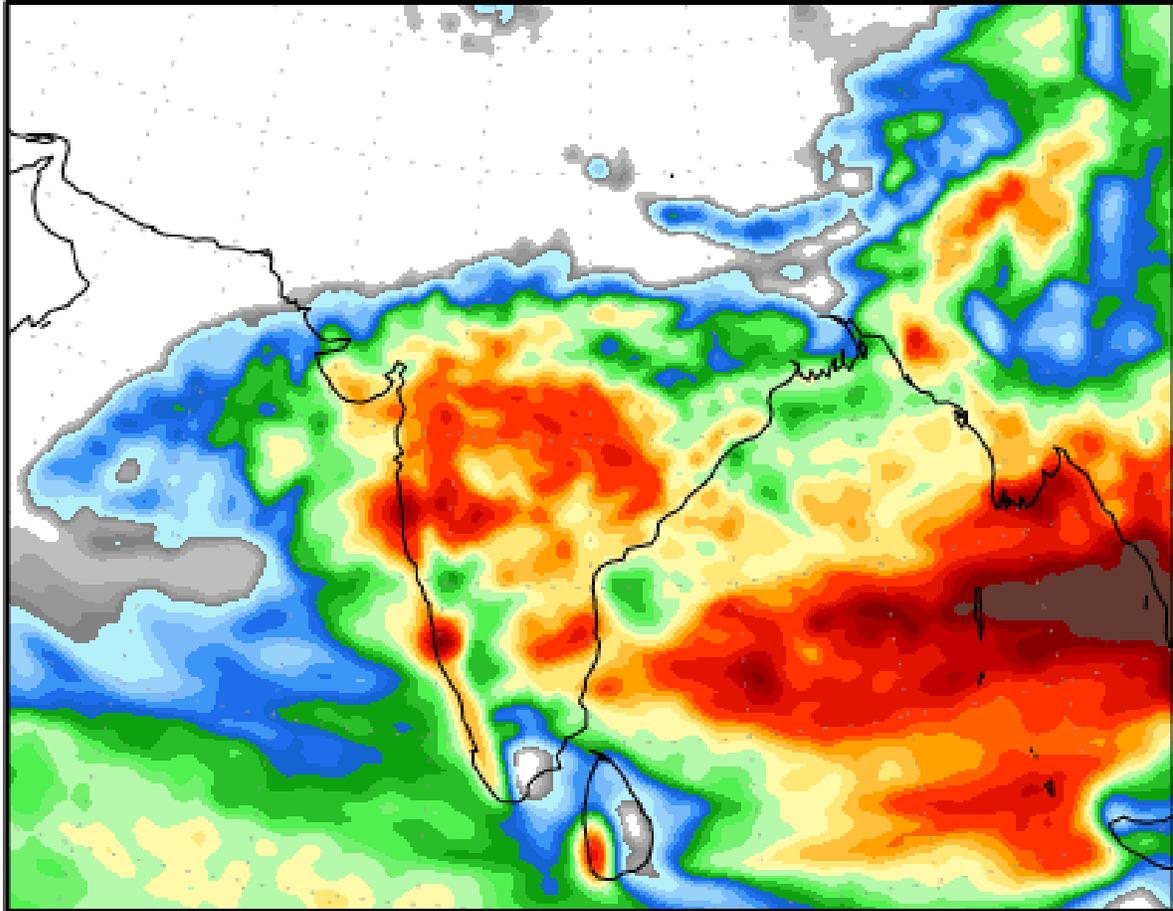


Figure:2. Precipitation forecast for 14 to 22 October 2020 (Source: NOAA NCEP).

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