

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 12 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 Westcentral Bay of Bengal moved west-northwestwards with a speed of 03 kmph during past 06 hours and lay centred at 0830 hrs IST of today, the 12th October, 2020, near latitude 15.7°N and longitude 85.0°E, about 280 km southeast of Vishakhapatnam (Andhra Pradesh), 320 km eastsoutheast of Kakinada (Andhra Pradesh) and 360 km east-southeast of Narsapur (Andhra Pradesh). It is very likely to intensify further into a Deep Depression during next 12 hours. It is very likely to move west-northwestwards and cross north Andhra Pradesh coast between Narsapur & Vishakhapatnam, close to Kakinada during the early morning of 13th October, 2020.
- Under the influence of the above system, the following adverse weather is likely:
Rainfall warning:
- 12th 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 east & west Godavari, Vishakhapatnam, Vijayanagaram & Srikakulam districts of north coastal Andhra Pradesh and Yanam, heavy to very heavy falls at isolated places over Ganjam, Gajapati, Koraput, Raygada, Navrangpur, Malkangiri, Khurda & Puri districts of south Odisha, Krishna district of south coastal Andhra Pradesh, Kurnool District of Rayalaseema, Telangana, south Konkan & Goa, south Madhya Maharashtra, Marathwada, Karnataka, & north Kerala and heavy rainfall at isolated places over south Chhattisgarh.
- 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, heavy to very heavy falls at isolated places over Karnataka, Rayalaseema, south Konkan & Goa, Madhya Maharashtra

& Marathawada and heavy falls at isolated places over north coastal Andhra Pradesh, south Odisha, 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 north Madhya Maharashtra, heavy to very heavy falls at isolated places over Konkan & Goa, south Madhya Maharashtra 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 evening and over Gulf of Mannar during 12th -13th October 2020.
- 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, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, Kerala & Mahe and Marathawada; at many places over Vidarbha, Rayalaseema and Interior Karnataka; at a few places over Konkan & Goa, Madhya Maharashtra, Lakshadweep and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Arunachal Pradesh, Jharkhand, West Bengal & Sikkim, Madhya Pradesh, Odisha, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over East Madhya Pradesh, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Vidarbha, Telangana, Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Coastal & Interior Karnataka.
- Maximum Temperature Departures as on 11-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur. Mizoram & Tripura; at a few places over Arunachal Pradesh, Gangetic West Bengal and Assam & Meghalaya; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Punjab and Bihar; at many places over Uttar Pradesh, Odisha and Saurashtra & Kutch; at a few places over Rajasthan, Haryana, Chandigarh & Delhi, Madhya Pradesh and Jharkhand; at isolated places over Gujarat region.

They were appreciably below normal (-3.1°C to -5.0°C) at many places over Madhya Maharashtra, South Interior Karnataka, Rayalaseema, Telangana and Coastal Andhra Pradesh & Yanam; at a few places over Andaman & Nicobar Islands; at isolated places over Marathawada, North Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at isolated places over Chhattisgarh and Vidarbha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.8°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 12-10-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most over Jharkhand; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Bihar; at many places over Sub-Himalayan West Bengal & Sikkim and Saurashtra & Kutch; at a few places over Himachal Pradesh, Gangetic West Bengal and Odisha; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Konkan & Goa, East Uttar Pradesh, Vidarbha and Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi; at isolated places over Rajasthan and near normal over rest parts of the country. The lowest minimum temperature of 15.6°C reported at Hissar (Haryana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 12 October (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over north Coastal Andhra Pradesh; Heavy to very heavy rainfall at isolated places over south Odisha, south Konkan & Goa, Madhya Maharashtra, Marathawada, Telangana, Rayalaseema, north Kerala and Coastal & North Interior Karnataka and heavy rainfall at isolated places over Chhattisgarh, Vidarbha, Andaman Islands and South Interior Karnataka. Thunderstorm with lightning very likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Kerala & Mahe. Squally Winds (speed reaching 45-55 kmph gusting to 65 kmph) over westcentral & adjoining southwest Bay of Bengal and along & off south Odisha-Andhra Pradesh-Tamil Nadu & Puducherry coasts and Gulf of Mannar; (speed reaching 40-50 kmph gusting to 60 kmph) over northwest Bay of Bengal and north Odisha coast, Andaman Sea, Comorin area and along & off Kerala-

Karnataka 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 and over Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 13 October (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Telangana; heavy to very heavy rainfall at isolated places over south Konkan & Goa, Madhya Maharashtra, Marathawada and Coastal & North Interior Karnataka and heavy rainfall at isolated places over Vidarbha, south Chhattisgarh, Odisha, Andaman Islands, north Coastal Andhra Pradesh, Rayalaseema, Kerala & Mahe and South Interior Karnataka. Thunderstorm with lightning very likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, 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) over westcentral Bay of Bengal and along & off Andhra Pradesh coast; (speed reaching 50-60 kmph gusting to 70 kmph) over adjoining northwest Bay of Bengal, southwest Bay of Bengal and along & off Odisha-Tamil Nadu & Puducherry coasts and Gulf of Mannar; (speed reaching 40-50 kmph gusting to 60 kmph) over Andaman Sea, Comorin area, Eastcentral Arabian Sea and along & off Kerala-Karnataka-south Maharashtra 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 and over Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 14 October (Day 3): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Madhya Maharashtra; Heavy to very heavy rainfall at isolated places over Konkan & Goa, Marathawada and Coastal Karnataka and heavy rainfall at isolated places over Vidarbha, Andaman Islands, Telangana, Kerala & Mahe and Interior Karnataka. Thunderstorm with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat region, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Kerala & Mahe. Squally Winds (speed reaching 40-50 kmph) very likely over Andaman Sea, Eastcentral Arabian Sea and along & off Maharashtra coast. Fishermen are advised not to venture into these areas.
- 15 October (Day 4): Heavy to very heavy rainfall likely at isolated places over Andaman Islands, Madhya Maharashtra and Konkan & Goa and heavy rainfall at

isolated places over Gujarat region, Marathawada, Kerala & Mahe and Coastal Karnataka. Thunderstorm with lightning likely at isolated places over Madhya Pradesh, Vidarbha, Gujarat state and Kerala & Mahe. Squally Winds (speed reaching 40-50 kmph) likely over Andaman Sea, northeast & adjoining Eastcentral Arabian Sea and along & off south Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.

- 16 October (Day 5): Heavy rainfall likely at isolated places over Konkan & Goa, Andaman Islands, Gujarat state, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam. Thunderstorm with lightning likely at isolated places over Vidarbha and Gujarat state. Squally Winds (speed reaching 40-50 kmph) likely over northeast & adjoining Eastcentral Arabian Sea and along & off south Gujarat Maharashtra coasts. Fishermen are advised not to venture into these areas
- The weather outlook for seven days i.e., 12 to 20 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)

Rajasthan

Weather condition:

State: Dry and light cloudy weather recorded during this week. At the center: center received 10.8 mm rainfall in one rainy days during the week. Maximum temperature ranged between 32.0 oC to 33.8 oC with mean 33.3 oC which was 0.3 oC above normal and minimum temperature ranged between 16.0 oC to 18.3 oC with mean 17.1 oC which was below 0.5 oC to normal. Wind velocity ranged between 2.4 to 6.3 with mean 3.5 and sunshine hours 5.0 to 9.4 with mean 8.2 hours. Mean evaporation 5.8 mm.

Contingency measure:

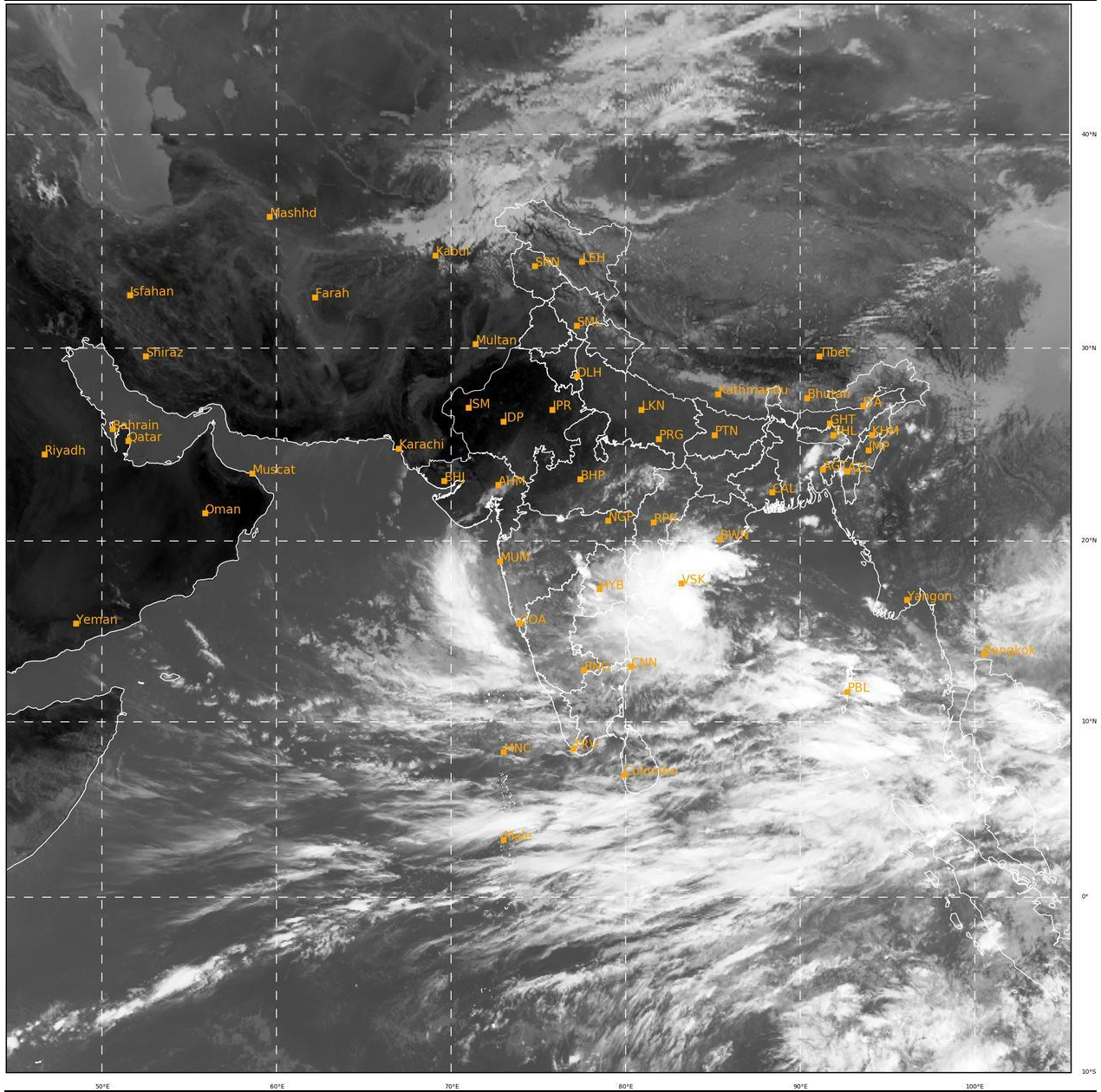
- Field sanitization is advised before sowing of rabi crop. Bunds, channels, uncultivated fields and field roads should be cleaned by removing weeds also use fully decomposed FYM or compost before sowing of crops and vegetable as it improves the physical and biological properties of soil and thus increases the water retention capacity as well as nutrient status of the soil. Harvested maize keep for sun drying at open place. Sowing of early mustard should be done before 15th October.
- Mustard varieties are: RGN-73, Bio-902 (PusaJaikisan), Aashirwad, RH-9304 (Vasundhara), RH-9802 (SwarnJyoti), RH-8812 (Laxmi), DRMRIJ-31 (Giriraj). Before

sowing seed should be treated with Mencozeb @2.5g or Carbendazim @ 1g/kg seed.
Complete the sowing of gram up to 15th October.

- Gram varieties are: GNG-146, RSG-44, RSG-888, RSG-902, RSG-895, Pratap Raj Chana and Pratap Chana1. Seed rate 80kg/ha.
- Harvesting of soybean should be done at maturity stage and kept for sun drying.
- Prepare nursery for onion crop in Rabi, Improved varieties- Panjab White Round, Udaipur 102, Nashik Red. Seed rate 10 kg per hectare.
- Transplanting of cabbage should done in field at 60×45 cm distance.

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

12-10-2020/(0800 to 0827) GMT
12-10-2020/(1330 to 1357) IST



332

939

IMD,DELHI

Figure: 1. Latest available satellite picture as on 12 October 2020 at 1357 Hrs (IST). (Source: IMD).

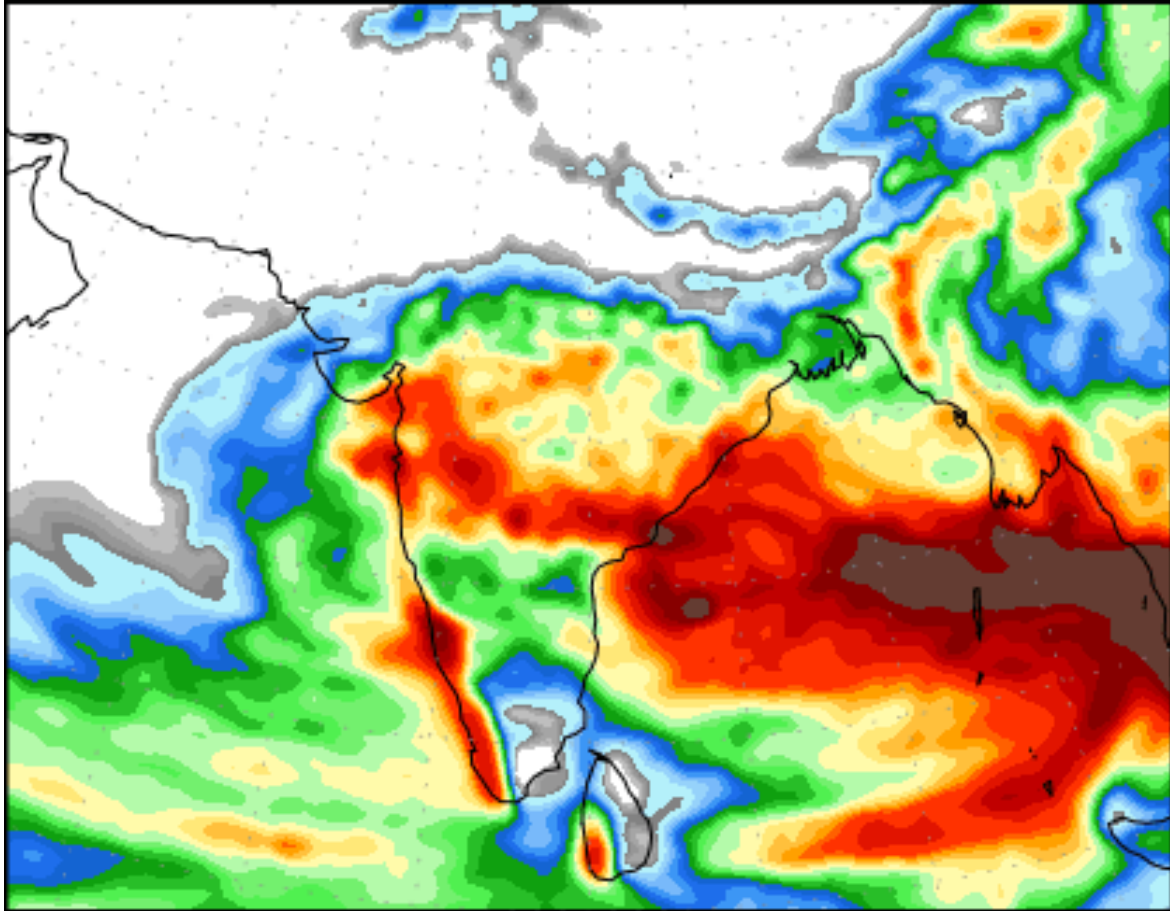


Figure:2. Precipitation forecast for 12 to 20 October 2020 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.