

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 03 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area lies over Lakshadweep area and adjoining Southeast Arabian Sea. It is likely to move north-northwestwards and become more marked during next 3 days.
- A trough at mean sea level runs from Comorin area to Westcentral Bay of Bengal off south Andhra Pradesh coast across Gulf of Mannar and Tamilnadu coast and another trough in easterlies runs from Lakshadweep area to Eastcentral Arabian Sea off Karnataka coast in lower levels. Under the influence of above systems:
 - (i) Light to moderate rainfall at many/most places with isolated thunderstorm & lightning very likely over south Peninsular India during next 5 days and at a few places over south Konkan, Goa, south Madhya Maharashtra and south Marathwada during 04th to 07th Nov, 2021.
 - (ii) Heavy rainfall at isolated places very likely over Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Interior Karnataka during next 5 days; over Telangana and Coastal Karnataka during 03d-04th Nov; over south Konkan & Goa and south Madhya Maharashtra during 05th - 06th Nov, 2021.
 - (iii) Very heavy rainfall at isolated places also very likely over Kerala & Mahe on 03rd & 04th; over Tamil Nadu, Puducherry & Karaikal on 03rd and over Coastal Andhra Pradesh & Yanam on 03rd & 07th Nov. 2021.
- Mainly dry weather very likely to prevail over most parts of plains of Northwest India & Northeast India, many parts of Central & East India and some parts of West India during next 4-5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at most places over Kerala & Mahe, Lakshadweep and Tamil Nadu, Puducherry & Karaikal; at many places over Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands and Rayalseema; at a few places over Coastal

Karnataka and Himachal Pradesh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Punjab, Chhattisgarh, Haryana, Telangana, Odisha, Madhya Maharashtra, Konkan & Goa and Interior Karnataka.

- Heavy Rainfall recorded (from 0830 hrs IST of yesterday to 0830 hours IST of today): Very heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Kerala & Mahe, Rayalseema, Telangana and North Interior Karnataka.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 02-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Konkan & Goa and at isolated places over Madhya Maharashtra. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Himachal Pradesh and East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Madhya Pradesh, Rayalseema, South Interior Karnataka, Odisha and Tamil Nadu, Puducherry & Karaikal and near normal at rest parts of the country. Yesterday, the maximum temperature 36.9°C was reported at Ratnagiri (Konkan & Goa).
- Minimum Temperature Departures as on 03-11-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Konkan & Goa, Madhya Maharashtra, Coastal Karnataka and Telangana; at many places over Punjab, Himachal Pradesh, West Rajasthan, Haryana, Vidarbha, Interior Karnataka and Rayalseema; at a few places over West Uttar Pradesh, Saurashtra & Kutch, Chhattisgarh, Odisha, Coastal Andhra Pradesh, and Tamil Nadu, Puducherry & Karaikal. They are below normal (-3.1°C to -5.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and SubHimalayan West Bengal & Sikkim, at a few places over Gujarat Region, East Madhya Pradesh and Gangetic West Bengal and at isolated places over Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. Today, the lowest minimum temperature of 11.0°C reported at Raisen (West Madhya Pradesh) over the plains of the country.
- Minimum Temperature Departures as on 02-11-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab; at isolated places over West Rajasthan and Madhya Maharashtra; above normal (1.6°C to

3.0°C) at many places over South Interior Karnataka and Rayalaseema; at a few places over Konkan & Goa and Telangana and at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Odisha, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over East Madhya Pradesh and at isolated places over Saurashtra & Kutch and Vidarbha; below normal (-1.6°C to -3.0°C) at a few places over Bihar and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Himachal Pradesh, Gujarat Region, East Rajasthan and Gangetic West Bengal and near normal over rest parts of the country. Today, the lowest minimum temperature of 8.0°C reported at Pachmarhi (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 03 November (Day 1): Heavy to very heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Telangana, Rayalaseema and Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast Arabian sea along & off Kerala coast and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 04 November (Day 2): Heavy to very heavy rainfall very likely at isolated places over Kerala & Mahe and heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Telangana, Rayalaseema and Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, Marathwada, south Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast Arabian sea and along & off Kerala coast and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 05 November (Day 3): Heavy rainfall very likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Interior Karnataka. Thunderstorm accompanied with lightning very likely at

isolated places over south Konkan & Goa, Marathwada, south Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast Arabian sea and along & off north Kerala-Karnataka-Goa-south Maharashtra coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.

- 06 November (Day 4): Heavy rainfall likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Interior Karnataka. Thunderstorm accompanied with lightning likely at isolated places over south Konkan & Goa, Marathwada, south Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) likely over Southeast Arabian sea and along & off north Kerala-Karnataka-Goa-south Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 07 November (Day 5): Heavy to very heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam; heavy rainfall likely at isolated places over south Madhya Maharashtra, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka. Thunderstorm accompanied with lightning likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) likely over Southeast Arabian sea and along & off north Kerala-Karnataka-Goa-south Maharashtra coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 03 Nov to 11 Nov 2021 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (43 MW) at AICRPAM Akola centre: T max 31.7°C (normal 33.0°C), T min 16.2°C (normal 16.3°C). RH I 83 % (normal 74 %), RH II 40 % (normal 33

%). Evaporation rate 4.1 mm (normal 5.0 mm), Wind 0.2 km/hr (normal 3.3 km/hr) and BSH 8.9 hrs (normal 8.2 hrs). Maximum temperature across the week was 1.2°C below normal with a deviation of -1.7 to -0.7°C from normal. Minimum temperature across the week 0.1° below normal with a deviation of -1.7 to +4.5°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates dry weather very likely to prevail during 28 October - 01 November. With prevalence of mainly dry weather undertake clean picking of burst bolls in earlier sown cotton and properly dry the produce before safe storage, variety wise. If pink boll worm infestation crosses ETL level undertake spray of Profenophos 50 EC @ 30ml or Indoxacarb 14.5 SC @ 5ml or Emamectin benzoate 5 SG @ 5g per 10 litres of water.
- For control of incidence of Phytophthora blight (stem rot or stem blight) observed in pigeonpea undertake spray of Fosetyl AL 80% WP@ 20 g in 10 litres of water. Install pheromone traps @ 5/ha for monitoring of Helicoverpa in pigeon pea. Monitor for presence of eggs & small larvae. Erect bird perches randomly in pigeon pea field to encourage predation by insectivorous birds.
- Undertake harvesting/threshing of matured kharif sorghum crop with safe storage of the harvested produce. Complete the sowing of rabi sorghum (PKV Kranti) preferably by October end. Before sorghum crop sowing, seed treatment with Azotobacter + PSB (each 25 g / kg seed) and bio-fungicide Trichoderma @ 4 g per kg seed is advisable. Generally recommended sorghum seed rate is 10 kg/ha maintaining 45 cm x15 cm spacing. Recommended fertilization for irrigated sole crop of sorghum is @ 80:40:40 kg NPK/ha with N in 2 splits.
- In earlier sown rainfed safflower undertake thinning operation after 10-12 days after germination, keeping 20 to 30 cm plant to plant distance within rows (45 cm apart) and maintaining population of 75000 to 1 lakh plants per hectare. Complete remaining sowing of irrigated safflower (PKV-Pink (AKS-311), AKS-207 and Nari-non spiny (NH-1)) preferably by October end.
- Under irrigated condition undertake sowing of chickpea (Jaki 9218, PDKV Kanchan, Vijay) preferably by October end or latest by 10 November. Wilt resistant varieties include JAKI 9218, Vishal, ICCV-2, ICCV-10 etc. Before chickpea sowing, seed treatment with Rhizobium + PSB (each 25 g / kg seed) and biofungicide Trichoderma @ 4 g per kg seed is advisable. Feasible intercropping system includes chickpea+rabi sorghum (6:2).
- Under rainfed condition wheat (AKDW-2997-16(Sharad), PDKV Washim (WSM-1472), MCS-1967, NI-5439, Netravati) can preferably be sown during second fortnight of October. Recommended fertilization for rainfed sole wheat crop is @

40:20:00 kg NPK/ha with entire dose at sowing.

- Apply post monsoon bordeaux paste on orange tree trunk. To prepare good quality Bordeaux paste soak 1 kg copper sulphate in 5 litres water and 1 kg lime in 5 litres water separately in a plastic bucket overnight. Mix both of these mixtures in third plastic bucket and stir well before application on tree trunk. Apply within 12 hours of preparation to avoid deterioration. Sowing of coriander, spinach, fenugreek, radish, carrot, dolichos bean and ivy gourd can be undertaken during this period.
- Screening of farm livestock, draught/milch animals for diseases be considered and they be vaccinated for foot and mouth disease (FMD).

03-11-2021/(0800 to 0826) GMT
03-11-2021/(1330 to 1356) IST

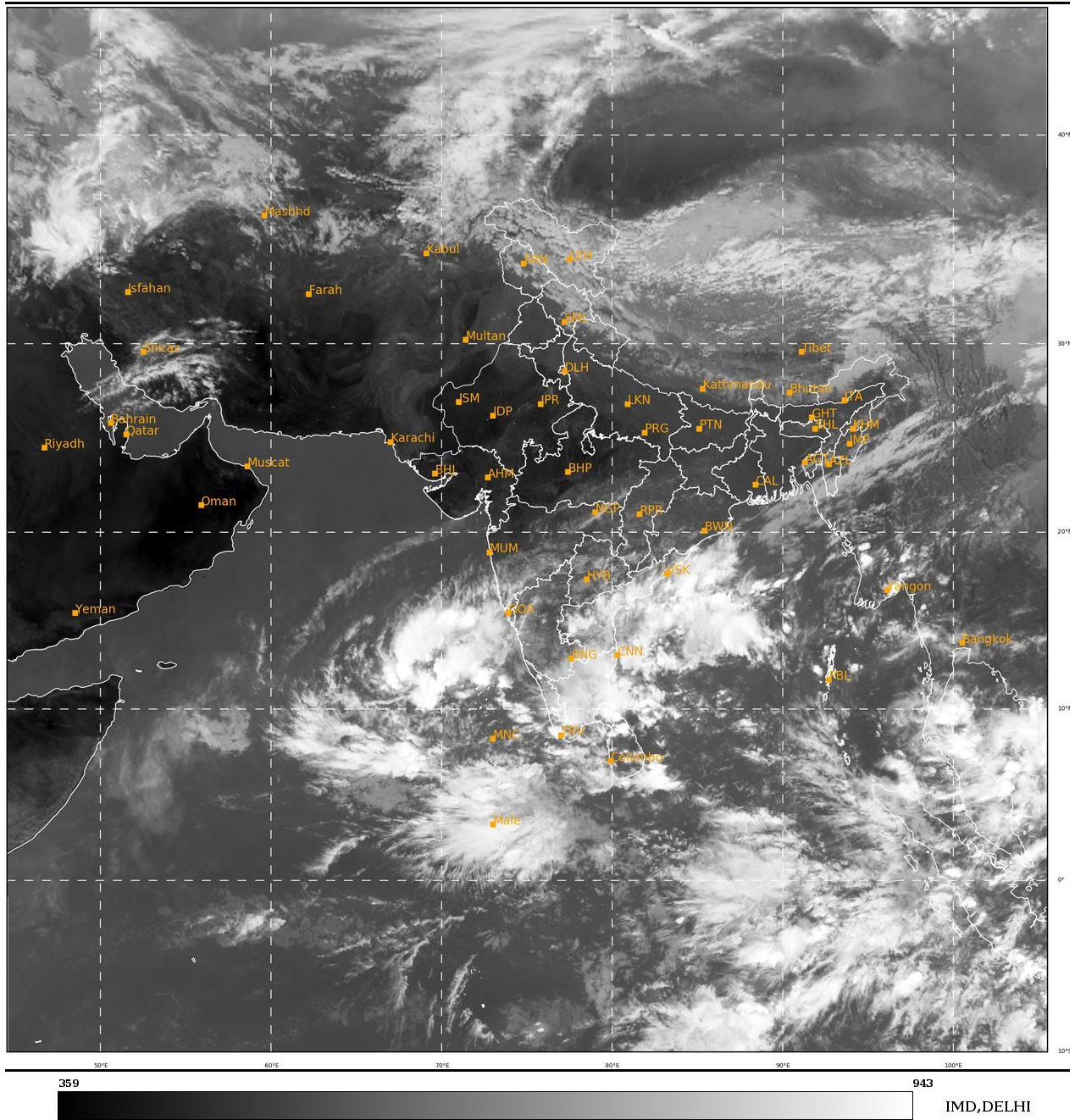


Figure: 1. Latest available satellite picture as on 03 Nov 2021 at 1356 Hrs (IST). (Source: IMD).

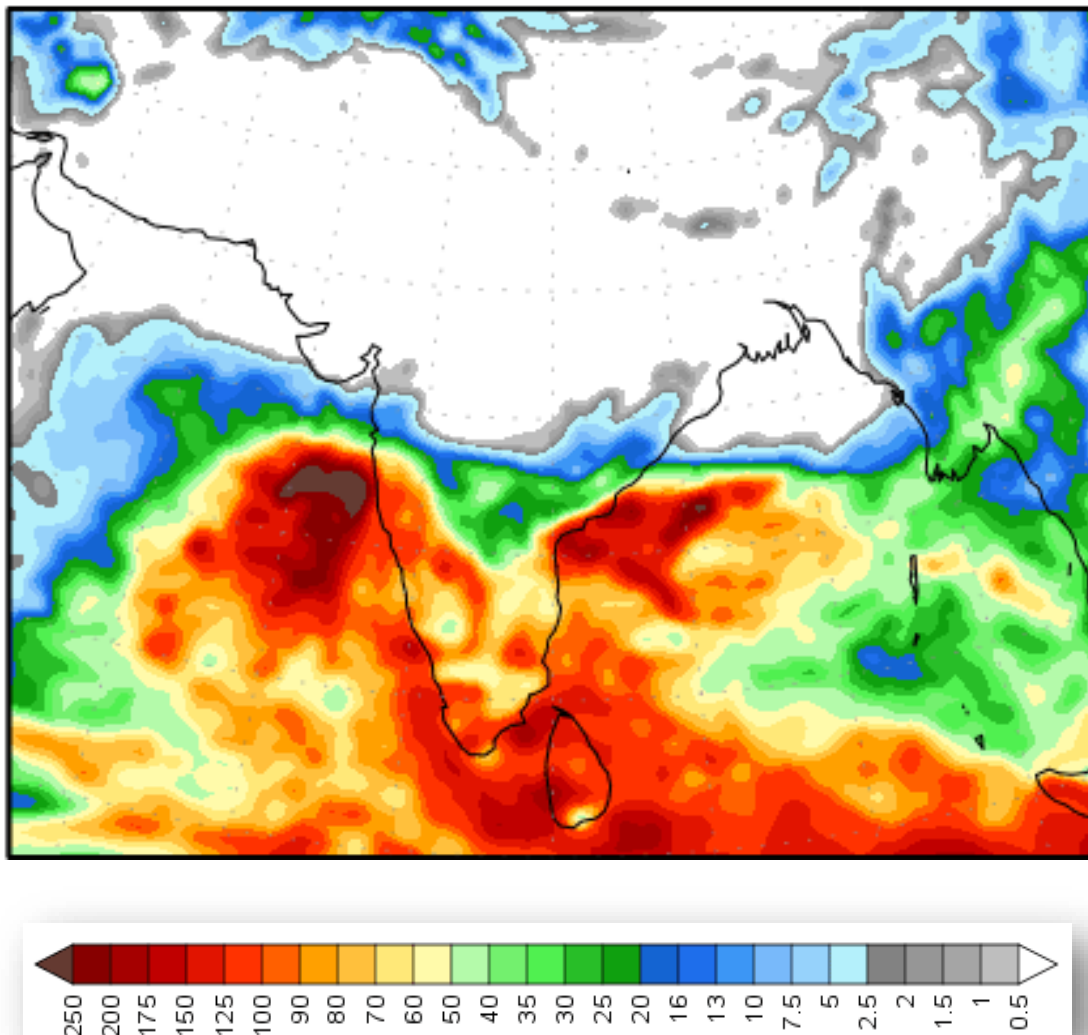


Figure:2. Precipitation forecast for 03 Nov to 11 Nov 2021 (Source: NOAA NCEP).

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.