

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 02 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low Pressure Area now lies over Comorin area & neighbourhood with the associated cyclonic circulation extending upto 3.1 km above mean sea level. It is likely to emerge into Southeast Arabian Sea during next 24 hours. Thereafter it is likely to move north-northwestwards and become more marked during the subsequent 48 hours.
- Under the influence of the above system and strengthening of lower level easterlies over Peninsular India:
 - i) Heavy to Very Heavy rainfall at isolated places is very likely over Coastal Andhra Pradesh and Kerala during 02nd to 04th November and Tamil Nadu on 02nd & 03rd November, 2021 and decrease thereafter.
 - ii) Isolated heavy rainfall is also very likely over Telangana and Lakshadweep on 02nd & 03rd November, Rayalseema during 02nd-05th November, over Odisha on 03rd November, over coastal and south interior Karnataka during 04th & 05th November, over north Karnataka on 05th November and over South Konkan and Goa on 05th & 06th November, 2021.
 - iii) Scattered rainfall with isolated thunderstorm and lightning activity is likely over south Maharashtra, Andhra Pradesh, Telangana, Tamil Nadu, Puducherry, Karaikal, Kerala and Mahe, Lakshadweep during 02nd-06th November and over Karnataka during 03rd- 06th November, 2021.
- 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 Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka; at a few places over Rayalaseema and at isolated places over Arunachal Pradesh, Assam & Meghalaya, Odisha, Uttarakhand, Punjab, Himachal Pradesh, Jammu, Kashmir,

Ladakh, Gilgit-Baltistan & Muzaffarabad, Konkan & Goa, North Interior Karnataka and Telangana.

- Heavy Rainfall recorded (from 0830 hrs IST of yesterday to 0830 hours IST of today): Extremely heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal; very heavy rainfall at isolated places over Kerala & Mahe, Odisha, Coastal Karnataka and Coastal Andhra Pradesh & Yanam.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Punjab, Odisha, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Coastal Karnataka, Coastal Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Maximum Temperature Departures as on 01-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Konkan & Goa, Madhya Maharashtra and Coastal Karnataka and at isolated places over Gangetic West Bengal and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over West Madhya Pradesh and Rayalaseema; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over Lakshadweep; at a few places over East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim and at isolated places over Himachal Pradesh, Punjab, West Uttar Pradesh and Saurashtra & Kutch and near normal at rest parts of the country. Yesterday, the maximum temperature 36.8°C was reported at Ratnagiri (Konkan & Goa).
- 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)

- 02 November (Day 1): Heavy to very heavy rainfall at isolated places very likely over Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Telangana, Rayalaseema and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar, Comorin Area, Southwest Bay of Bengal along & off Tamilnadu and Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.
- 03 November (Day 2): Heavy to very heavy rainfall at isolated places very likely over Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and heavy rainfall at isolated places over Telangana, Rayalaseema, Odisha and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar, Comorin Area, Southwest Bay of Bengal along & off Tamilnadu coast; Southeast Arabian sea along & off Kerala coast. Fishermen are advised not to venture into these areas.
- 04 November (Day 3): Heavy to very heavy rainfall at isolated places very likely over Coastal Andhra Pradesh & Yanam and north Kerala & Mahe and heavy rainfall at isolated places over Rayalaseema, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast and adjoining Eastcentral Arabian sea along & off Kerala-south Karnataka coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 05 November (Day 4): Heavy rainfall at isolated places likely over south Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, south Madhya

Maharashtra, Coastal Andhra Pradesh & Yanam, 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 and adjoining Eastcentral Arabian sea along & off Kerala-south Karnataka coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.

- 06 November (Day 5): Heavy rainfall at isolated places likely over south Konkan & Goa, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast and adjoining Eastcentral Arabian sea along & off Kerala-south Karnataka coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 02 Nov to 10 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)

Marathwada

Weather condition:

From 22.10.2021 to 28.10.2021 during this week Weather condition of Parbhani center no rainfall was recorded. The Maximum temperature was range from 30.9 to 32.3 0C and minimum temperature range from 15.4 to 16.5 0C. Relative humidity (RH-I) ranged between 82-90% and relative humidity (RH-II) recorded was 26-32% The wind speed varied 1.3 to 2.7 km/hr.

Contingency measure:

- Cotton: Picking of timely sown cotton should be done. The cotton should be sundried before storage, so that quality of cotton may not deteriorate. For management of pink bollworm in cotton install pink bollworm Pheromone trap @ 5 per acre. Initially take a spray of 5 % NSKE, if infestation is more take a spray of Profenofos 50 % @ 400 ml or Profenofos 40 % + Cypermethrin 4 % (Complex insecticide) @ 400 ml per acre. For management of grey mildew disease in cotton take a spray of Azoxystrobin 18.2% + Difenoconazole 11.4% SC @ 10 ml or

Kresoxim-Methyl 44.3% SC @ 10 ml per 10 liter of water. For management of internal boll rot take a spray of copper oxychloride 50% WP @ 25 gm + Streptocycline @ 2 gm per 10 liter of water. For management of external boll rot take a spray of Propineb 70% WP @ 25 gm or Propiconazole 25% EC @ 10 ml per 10 liter of water.

- Pigeon pea: For management of pigeonpea leaf roller take a spray of 5% NSKE or Quinalphos 25% @ 16 ml per 10 liter of water after two days.
- Rabi sorghum: Irrigated Rabi Sorghum crop can be sown up to 31st October. Make use of 10 Kg seed per hecter for sowing of irrigated Rabi Sorghum. Apply 40:40:40 Kg NPK per hecter at the time of sowing of irrigated Rabi Sorghum.
- Safflower: Irrigated Safflower crop can be sown up to 05th November. Make use of 10-12 Kg seed per hecter for sowing of irrigated Safflower. Apply 60 Kg N and 40 Kg P per hecter at the time of sowing of irrigated Safflower.
- Wheat: Preparatory tillage operation should be done after wapsa condition for sowing of wheat crop.
- Turmeric: For management of Rhizome fly in turmeric take a spray of Quinalphos 25 % @ 20 ml or Diamethoate 30 % @ 10 ml per 10 liter of water during clear weather condition along with sticker with an interval of 15 days. Cover the rhizome with the help of soil. (As label claim was not given by Central Insecticides Board for Rhizome fly in turmeric the research recommendation of university is mentioned here). For management leaf spot disease in Turmeric crop take a spray of Azoxystrobin 18.2% + Difenoconazole 11.4% @ 10 ml + 5 ml Sticker per 10 liter of water during clear weather condition.
- Chick pea: Preparatory tillage operation should be done after wapsa condition for sowing of irrigated chickpea crop. Irrigated chickpea crop can be sown up to first week of November. Seed treatment of PSB, Rhizobium, Trichoderma viride should be done before sowing of chickpea crop.
- Banana: Intercultural operation should be adopted for weed management in newly planted banana orchard. apply 50 gm Nitrogen per plant in banana orchard. For management of Sigatoka disease take a spray of Carbandazim 50 WP @ 10 gm or Propiconazole 10% EC @ 10 ml per 10 liter of water along with sticker.
- Custard apple: Harvesting of mature fruits in custard apple orchard should be done. Grading of fruits should be done before sending to market. For management of mealy bug in Custard apple take a spray of Neem oil @ 50 ml or Verticillium Lecanii @ 40 gm per 10 liter of water.
- Mango: Intercultural operation should be adopted for weed management in

newly planted Mango orchard.

- Citrus: If infestation of mites is observed in citrus orchard, for management take a spray of Dicofol 18.5 EC @ 2 ml or Propargite 20 EC @ 1 ml or Ethion 20 EC @ 2 ml or water soluble Sulphur @ 3 g per liter of water. As per requirement take another spray after an interval of 15 days. For management of fruit drop and to increase size of fruit take a spray of Gibberellic acid @ 50 milligram per liter of water.
- Sapota: Intercultural operation should be adopted after wapsa condition for weed management in newly planted Sapota orchard.
- Vegetable: Harvesting of mature vegetable should be done and send to market after grading. Intercultural operation should be adopted for weed management in vegetable crops. Irrigation management should be done with the help of watering can for seedlings sown on raised bed for sowing of Rabi vegetable crops.
- Sericulture: Pruning of mulberry should be done at 1.5 month interval. Two cocoon crops will be completed in 70 to 80 days. Total 7 to 8 cocoon crops will be harvested per year. Pruning should be done 1.5 feet 45cm (Top pruning), 1.0 feet (30 cms middle pruning) and bottom pruning at 20-25 cm from the ground one plant on ore hill should be maintained. Water shoots or side branches should be removed for the quality leaves for better development of silkworm required to feed quality mulberry leaves.
- Floriculture: Harvesting of mature flowers should be done and send to the market after grading. Intercultural operation should be adopted for weed management in Floriculture crops.
- Animal husbandry: For management of Ecto-parasites (Lice, flies, ticks, biting flies, midges) in livestock take a spray of either 5 % NSKE or Herbal solution (Neem oil 15 ml + Karanj oil 15 ml + Soft soap 2 gm + 1 liter water) at weekly interval. It shall be sprayed on body of livestock, shed, water logged bodies, dung pit etc. it act as repellent and also helps to curtail life cycle of ticks and flies reducing the population of Ecto-parasites.

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

02-11-2021/(0800 to 0826) GMT
02-11-2021/(1330 to 1356) IST

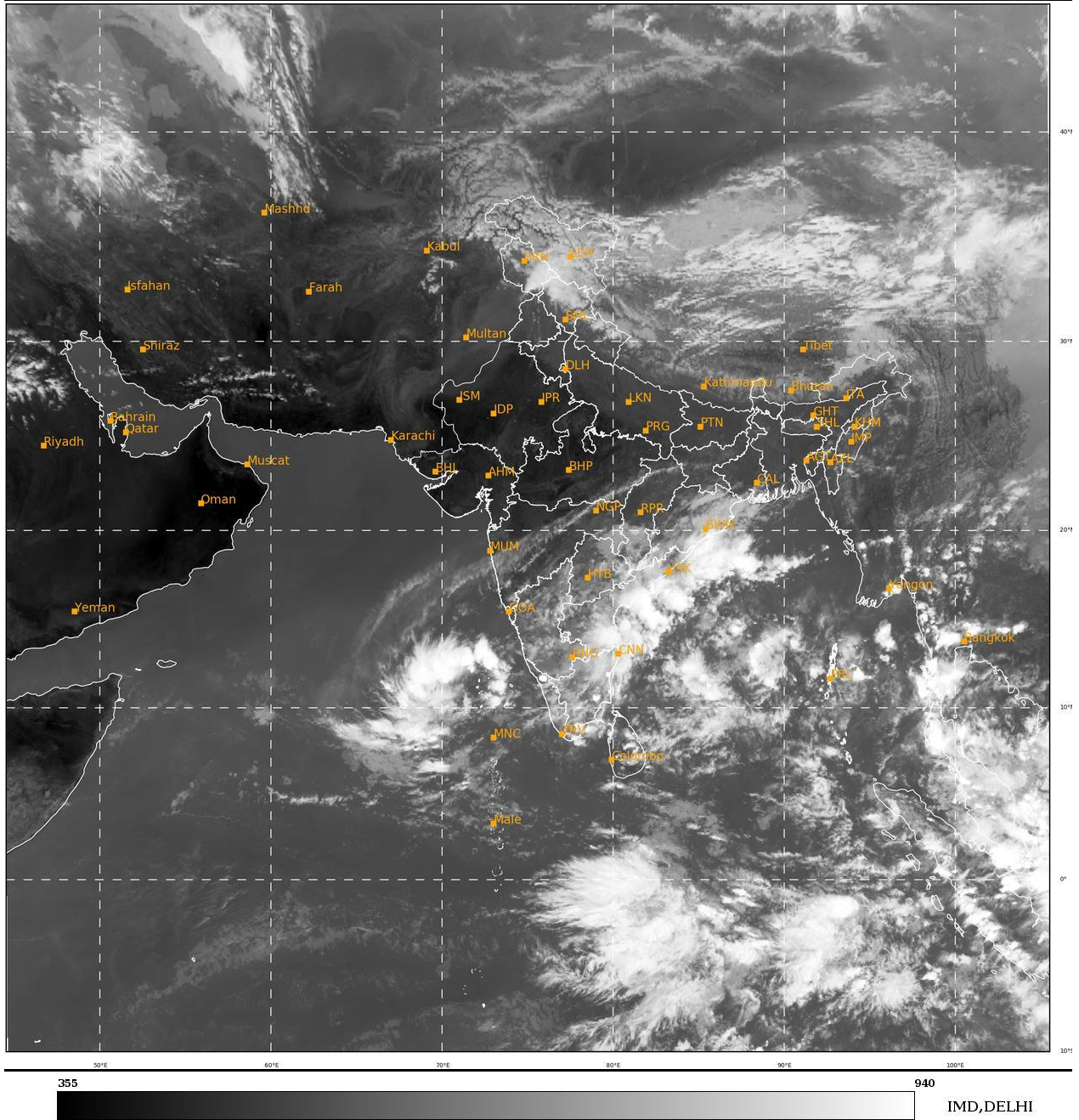


Figure: 1. Latest available satellite picture as on 02 Nov 2021 at 1356 Hrs (IST). (Source: IMD).

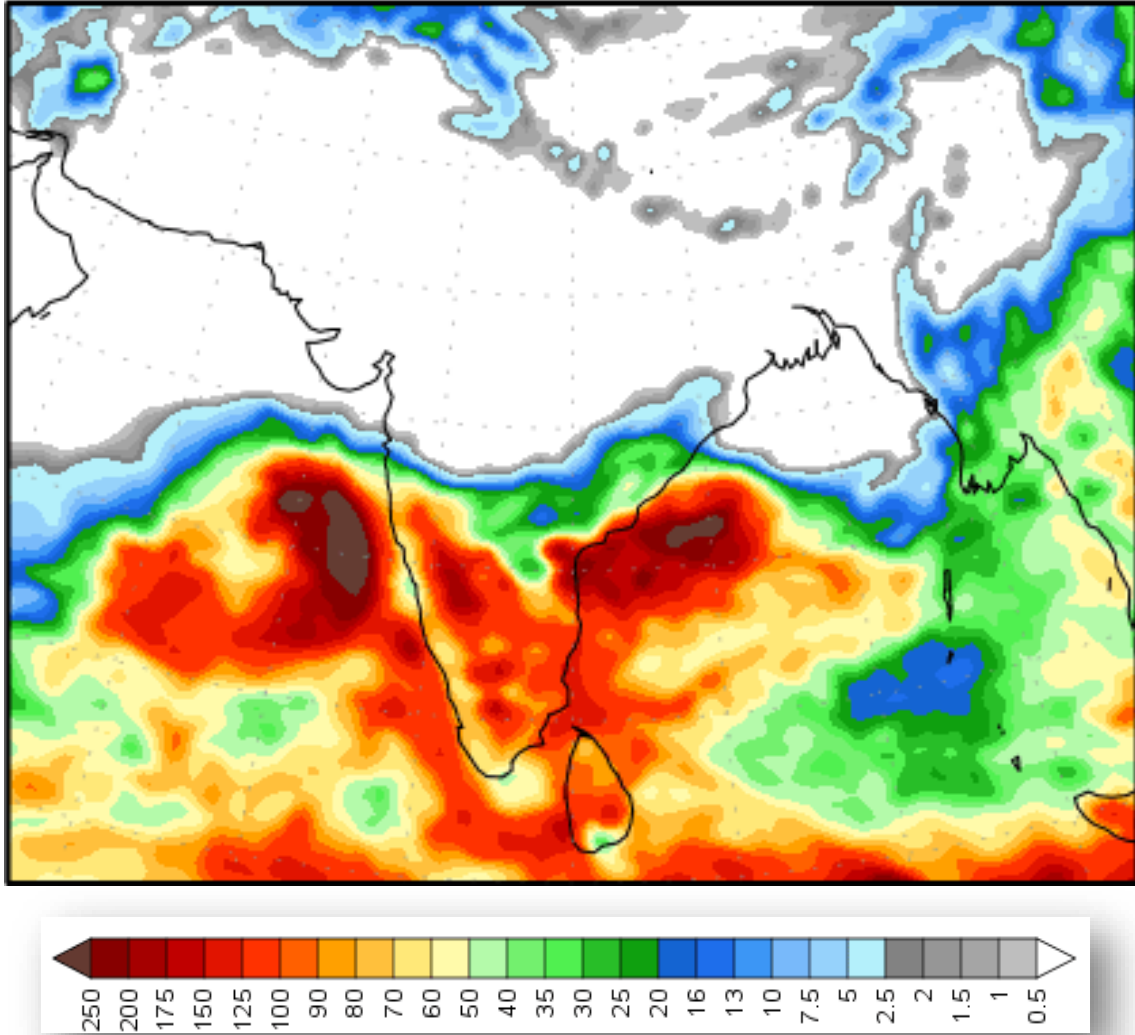


Figure:2. Precipitation forecast for 02 Nov to 10 Nov 2021 (Source: NOAA NCEP).

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