

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 30 October 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area lies over Sri Lanka off Tamilnadu coast and the associated cyclonic circulation extends upto 3.1 km above mean sea level persists. It is likely to move slowly westwards during next 3-4 days. Under its influence:
 - i) Light to moderate rainfall at many/most places with isolated thunderstorms & lightning very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal & South Interior Karnataka, Rayalseema, Coastal Andhra Pradesh and Lakshadweep during 30th Oct - 03rd Nov and at few/many places over Telangana and North Interior Karnataka during 01st to 03rd Nov, 2021.
 - ii) Heavy rainfall at isolated places very likely over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Rayalseema, Coastal Andhra Pradesh during 30th Oct - 03rd Nov; over South Interior Karnataka during 31st Oct - 03rd Nov and over Coastal Karnataka and Telangana during 02nd-03rd Nov, 2021.
 - iii) Very heavy rainfall at isolated places also very likely over Tamil Nadu, Puducherry & Karaikal on 30th Oct-01st Nov and over Kerala & Mahe during 31st Oct-02nd Nov. Extremely heavy falls also at isolated places very likely over Tamil Nadu, Puducherry & Karaikal on 30th Oct, 2021.
- Mainly dry weather very likely to prevail over most parts of Northwest India; many parts of Central & Northeast India and some parts of East 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 Coastal Andhra Pradesh & Yanam, Rayalseema, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka and Lakshadweep ; at many places over Kerala & Mahe and Andaman & Nicobar Islands ; at a few places over Coastal Karnataka and at isolated places over North Interior Karnataka, Nagaland, Manipur, Mizoram & Tripura, Odisha and Telangana.

- Rainfall observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall observed at a few places over Tamil Nadu, Puducherry & Karaikal and at isolated places over Rayalaseema, Coastal Andhra Pradesh and Kerala & Mahe and Heavy rainfall at isolated places over Odisha.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over south Odisha, Tamil Nadu, Rayalaseema, Coastal Andhra Pradesh and Kerala & Mahe.
- Maximum Temperature Departures as on 29-10-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya; at a few places over Konkan & Goa, Coastal Karnataka, Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Sub-Himalayan West Bengal & Sikkim. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over West Madhya Pradesh; at isolated places over Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over East Rajasthan; at many places over East Madhya Pradesh; at a few places over West Rajasthan, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh, Gujarat State, Madhya Maharashtra, Kerala & Mahe and Odisha and near normal at rest parts of the country. Yesterday, the maximum temperature 36.4°C was reported at Bhuj (Saurashtra & Kutch).
- Minimum Temperature Departures as on 30-10-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over Odisha; above normal (1.6°C to 3.0°C) at most places over Rayalseema and South Interior Karnataka; at many places over Punjab, Jharkhand and Coastal Karnataka; at a few places over West Rajasthan, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Madhya Maharashtra and Andaman & Nicobar Islands and at isolated places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over East Rajasthan and at isolated places over Saurashtra & Kutch and below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi, Madhya Pradesh and Vidarbha; at a few places over East Uttar Pradesh, Bihar and Gujarat Region and at isolated places Jammu, Kashmir, Ladakh, Gilgit-Baltistan and Muzaffarabad and West Uttar Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 10.0°C is reported at Sikar (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 30 October (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Tamilnadu, Puducherry & Karaikal; heavy to very heavy rainfall at isolated places over Kerala & Mahe and heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam and Rayalaseema. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar, Comorin Area, Southeast Arabian Sea along & off Kerala coast, Lakshadweep & Maldives area. Fishermen are advised not to venture into these areas.
- 31 October (Day 2): Heavy to very heavy rainfall at a few places very likely over Tamilnadu, Puducherry & Karaikal; heavy to very heavy rainfall at isolated places over Kerala & Mahe and heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam and Rayalaseema. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar, Comorin Area, Southeast Arabian Sea along & off Kerala coast, Lakshadweep & Maldives area. Fishermen are advised not to venture into these areas.
- 01 November (Day 3): Heavy to very heavy rainfall at isolated places very likely over Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Kerala & Mahe and heavy rainfall at isolated places over South Interior Karnataka, Lakshadweep and Rayalaseema. Thunderstorm accompanied with lightning very likely at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Telangana, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Gulf of Mannar, Comorin Area, Southeast Arabian Sea along & off Kerala coast, Lakshadweep & Maldives area. Fishermen are advised not to venture into these areas.
- 02 November (Day 4): Heavy to very heavy rainfall at isolated places likely over Kerala & Mahe and heavy rainfall at isolated places over Odisha, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka and Rayalaseema. Thunderstorm accompanied with

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

- 03 November (Day 5): Heavy rainfall at isolated places likely over Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana and Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning at isolated places likely over Konkan & Goa, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Telangana, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe. Squally weather (speed reaching 40-50 kmph gusting to 60 kmph) likely over Southeast Arabian Sea along & off Kerala coast, Lakshadweep & Maldives area. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 30 Oct to 07 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)

Gujarat

Weather condition:

The actual maximum temperature was 2.3 °C lower and the actual minimum temperature was 2.4 °C higher as compare to their normals. Total BSS was 64.8 hrs. with an average of 9.3 hrs. The daily average evaporation and wind speed was 3.3 mm and 2.5 km/hr respectively. The daily average RH during morning and afternoon was 83.4 % and 40.6 % respectively.

Contingency measure:

- Mustard: Land preparation : Prepared the land for sowing by applying FYM. Procure certified seed @ 4 kg/ha of any recommended mustard cultivar viz., Gujarat Mustard 1 or 2 or 3 or GDM 4 or 5 or Bio-902. Apply Basal dose of nitrogen @ 25 kg/ha, Phosphorus @50 kg/ha. at the time of sowing. Sowing

distance should be kept 45 cm between the rows and seed rate should be 4 kg/ha.

- Pearl millet: Maturity/Harvesting : Protect the crop from bird damage. Harvest the mature crop and keep in the field for sun dry.
- Tobacco: Gap filling, inter-culturing and hand weeding in established transplanted crop is advised.
- Paddy : Harvest mature crop and keep in the field for sun dry. Threshing and winnowing of harvested dry paddy and send to market.
- Chilli: For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- 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.
- 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.
- Mango: Farmers are advised to clean the orchards by removing dead plant debris from the field.
- Cattle: Provide adequate fodder and keep the animals in clean shed. Give stored fodder balanced mineral mixture in diet.

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

30-10-2021/(0800 to 0826) GMT
30-10-2021/(1330 to 1356) IST

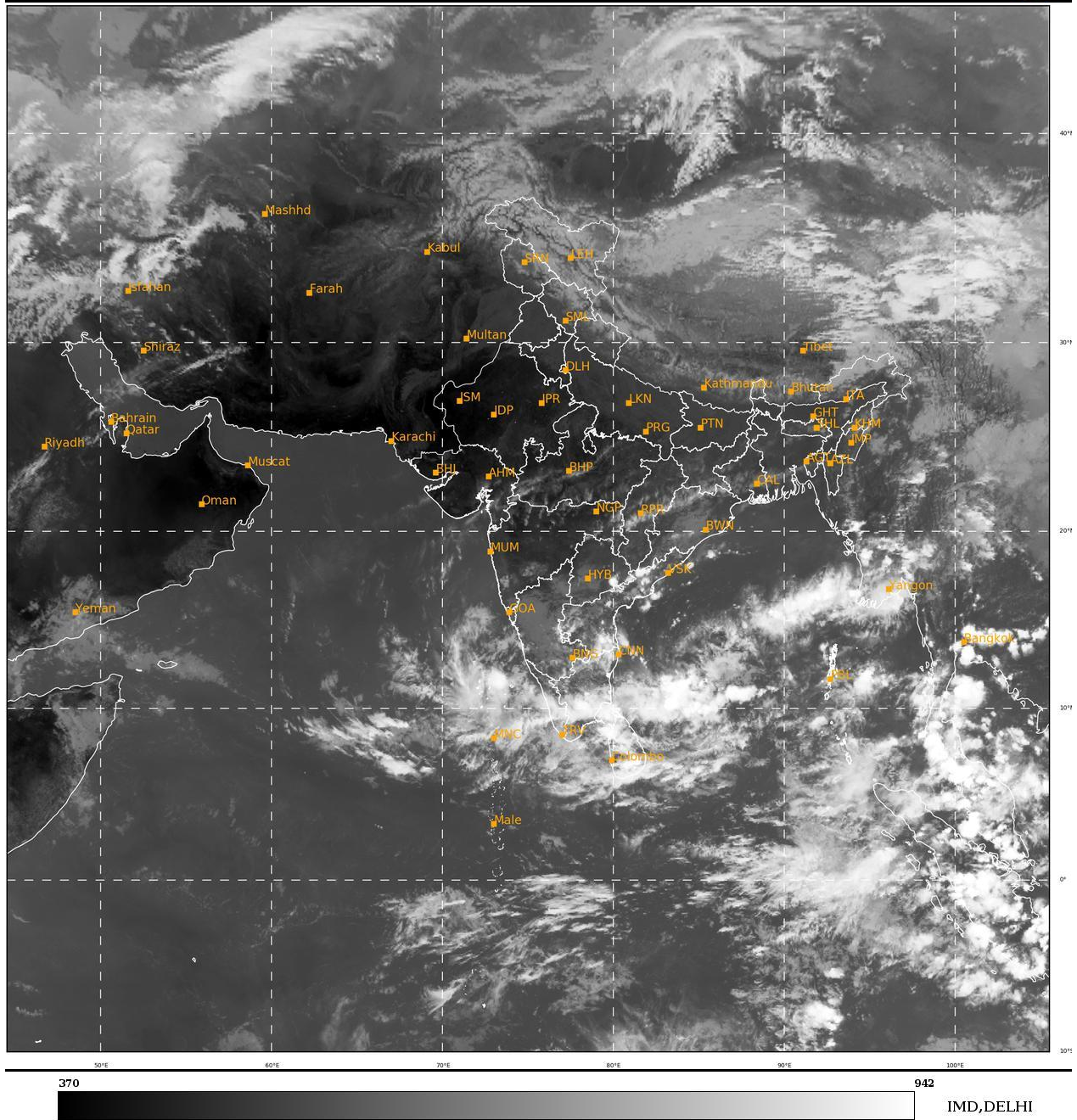


Figure: 1. Latest available satellite picture as on 30 Oct 2021 at 1356 Hrs (IST). (Source: IMD).

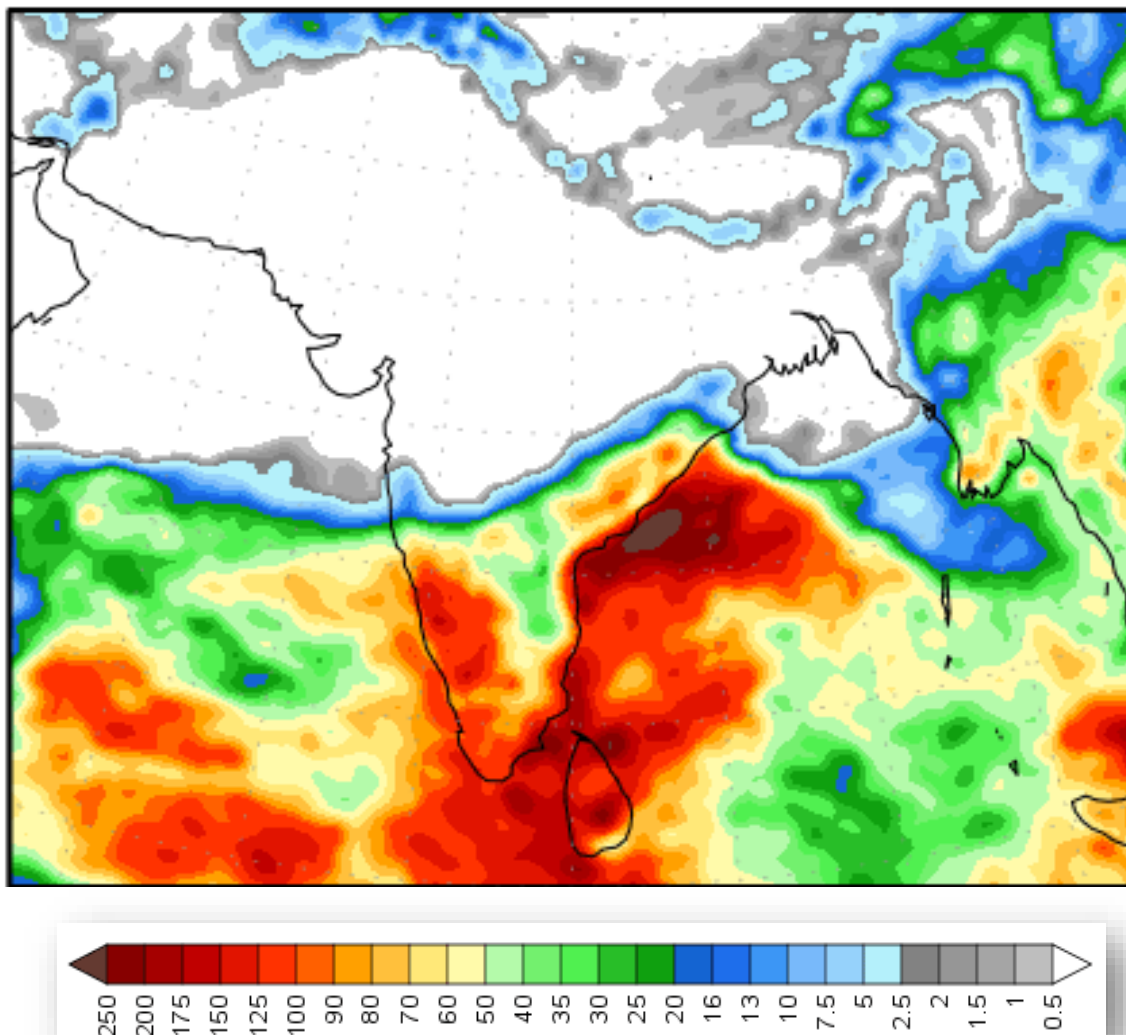


Figure:2. Precipitation forecast for 30 Oct to 07 Nov 2021 (Source: NOAA NCEP).

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