

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 16 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low Pressure Area lies over Southeast Bay of Bengal. It is likely to move nearly westwards and reach Westcentral & adjoining Southwest Bay of Bengal off south Andhra Pradesh- north Tamilnadu coasts on 18th November 2021.
- Another Low Pressure Area over Eastcentral Arabian Sea off Karnataka coast persists. It is likely to move west-northwestwards and become more marked during next 48 hours.
- A trough runs from the cyclonic circulation associated with low pressure area over Eastcentral Arabian Sea off Karnataka coast to north Konkan across south Maharashtra-Goa coasts at lower tropospheric levels.
- Another trough runs from the cyclonic circulation associated with low pressure area over Eastcentral Arabian Sea off Karnataka coast to the Low Pressure Area over Southeast Bay of Bengal at lower & middle tropospheric levels.
- Rainfall warning:
- Light to moderate rainfall at most places with heavy rainfall at isolated places very likely over Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh during next 5 days and over Rayalaseema during next 3 days.
- Isolated heavy to very heavy rainfall over Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh on 17th and isolated heavy to very heavy rainfall with extremely heavy falls over north Tamilnadu, Puducherry & Karaikal and south Coastal Andhra Pradesh on 18th November, 2021. Wind warning:
- Bay of Bengal: Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast & adjoining Eastcentral Bay of Bengal and Andaman Sea on 16th and over Westcentral & adjoining Southwest Bay of Bengal, along & off south Andhra Pradesh-north Tamilnadu coasts on 17th & 18th November.
- Arabian Sea: Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Eastcentral & adjoining Southeast Arabian Sea along & off north Kerala-Karnataka-Goa coasts on 16th; over Eastcentral Arabian Sea along & off

Maharashtra coast on 17th; over Eastcentral Arabian Sea on 18th and over Central & adjoining North Arabian Sea on 19th November, 2021.

- Fishermen are advised not to venture into the above areas.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands; at many places over Coastal Karnataka, Rayalaseema, Gangetic West Bengal, Odisha and Lakshadweep; at a few places over Interior Karnataka and at isolated places over Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Chhattisgarh and Telangana.
- Heavy rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today): Very Heavy Rainfall at isolated places over Odisha and heavy rainfall at isolated places over Coastal Andhra Pradesh, Telangana, Kerala & Mahe, Tamilnadu and Coastal Karnataka.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over West Madhya Pradesh, Odisha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- Fog observed (at 0530-0830 hours IST of today): Very dense fog observed in isolated pockets over Gangetic West Bengal; Shallow to moderate fog in isolated pockets over Delhi, East Uttar Pradesh, Madhya Maharashtra, Sub- Himalayan West Bengal & Sikkim and Assam & Meghalaya and Shallow fog observed in isolated pockets over Jammu, Punjab, Bihar and Mizoram.
- Minimum Temperature Departures as on 16-11-2021: Minimum temperatures are markedly above normal (5.1°C or more) at most places over Marathwada and Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at most places over Telangana, Konkan & Goa and North Interior Karnataka; at many places over Coastal Andhra Pradesh & Yanam, Vidarbha; at a few places over Rayalaseema; above normal (1.6°C to 3.0°C) at most places over South Interior Karnataka, Odisha and Chhattisgarh; at many places over Tamilnadu, Puducherry & Karaikal and at isolated places over Gangetic West Bengal. They are appreciably below normal (-3.1°C to -5.0°C) at most places over east Rajasthan and Haryana, Chandigarh & Delhi; below normal (- 1.6°C to -3.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad,

Himachal Pradesh and West Madhya Pradesh, at a few places over Saurashtra & Kutch and at isolated places over Uttar Pradesh, East Madhya Pradesh, West Rajasthan, Gujarat region and Sub-Himalayan West Bengal & Sikkim and near normal over rest parts of the country. Today, the lowest minimum temperature of 7.0°C reported at Churu (West Rajasthan) and Bhilwara (East Rajasthan) over the plains of the country.

- Maximum Temperature Departures as on 15-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Assam & Meghalaya, Madhya Maharashtra and Tamilnadu, Puducherry & Karaikal; at isolated places over Telangana and Coastal Andhra Pradesh & Yanam. They were appreciably below normal (-3.1°C to -5.0°C) at most places over East Rajasthan and at a few places over Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands and below normal (-1.6°C to -3.0°C) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, Jharkhand and Gangetic West Bengal; at many places over Punjab, East Uttar Pradesh, Bihar and Coastal Karnataka; West Uttar Pradesh and Madhya Pradesh and at isolated places over Himachal Pradesh, West Rajasthan and Saurashtra & Kutch and near normal at rest parts of the country. Yesterday, the highest maximum temperature 35.7°C was reported at Ratnagiri (Konkan & Goa).

Weather Warning during the next 5 days (IMD)

- 16 November (Day 1): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Goa, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Maharashtra, Konkan & Goa, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Eastcentral & adjoining Southeast Arabian Sea along & off north Kerala-Karnataka-Goa coasts and over Southeast & adjoining Eastcentral Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.
- 17 November (Day 2): Heavy to very heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Rayalaseema, Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Maharashtra, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal & South Interior Karnataka. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Westcentral &

adjoining Southwest Bay of Bengal, along & off south Andhra Pradesh-north Tamilnadu coasts and over Eastcentral Arabian Sea along & off Maharashtra coast. Fishermen are advised not to venture into these areas.

- 18 November (Day 3): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over south Coastal Andhra Pradesh & Yanam and north Tamil Nadu, Puducherry & Karaikal; heavy to very heavy rainfall at isolated places over Rayalaseema and Heavy rainfall at isolated places over Coastal & South Interior Karnataka and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Maharashtra, Konkan & Goa, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal & South Interior Karnataka. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Westcentral & adjoining Southwest Bay of Bengal, along & off south Andhra Pradesh-north Tamilnadu coasts and over Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 19 November (Day 4): Heavy to very heavy rainfall likely at isolated places over Kerala & Mahe and heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Madhya Maharashtra, Konkan & Goa, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal & South Interior Karnataka. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) likely over Central & adjoining North Arabian Sea. Fishermen are advised not to venture into these areas.
- 20 November (Day 5): Heavy rainfall likely at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal & South Interior Karnataka.
- The weather outlook for seven days i.e., 16 Nov to 24 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)

Western U.P

Weather condition:

Cloudy weather appearing during 11-14 Nov. but no rainfall occurred in this week. Maximum temperature may be near to its normal and minimum temperature may be 1.0-2.00C above to its normal. North -Westerly / South -Easterly winds may be prevailing on 4.1 to 6.8 km/hr range which is 1-2 kmph above to its normal during these days as per forecast.

Contingency measure:

- Paddy:Harvesting mature crop. Sorghum:Watchful from birds and for control measure of Ear head miz of Jowar spray Fenitrothian 50 EC or Quinalphos 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water . Wheat:Sowing of irrigated timely sown wheat varieties are K-9107, K-9006, Up-2382, NW-1012, HP-1761, HUW-468, PBW-343 DBW-187, DBW-202, HD-3226 and HP-1731 with 150:80:60 : 25 (N:P:K:ZN) and 100 kg of seed in 5.0-7.0 cm depth.
- Barley:Sowing of barley varieties viz., Joty K-572/10, Azad K?125, K-141, Lakhan RS-6 and K-603 using 100 kg seed/ ha. with 30: 30:20 (N:P:K) as basal. Rabi maize:Sowing of rabi maize with suitable hybrid variety as Ganga-11, KH-5981, KH-5991, seedtech-2324 and X-1382 (3054) and composite varieties as Dhawal, Shradamani and Shakti-1 with 20-22 kg seed per hectare.
- Pigeon pea:If seen leaf roller spray Quinalphos 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water. Gram:Sowing of treated gram seed late varieties such as KWR-108, Pusa-372, GG-4, Pusa-256, WCG-2, KPG-59 , Pant G-186 and RSG-936. Pea:Sowing of pea varieties such as KPMR-400, KFPD-103, JP-885, IPF-99-25, IPFD-99-13 and KPMR-522 with 100 kg of treated seed per ha..
- Lentil:Sowing with lentil varieties viz; IPL-81, K-75, KLS-218, IPL-406, Shekhar-3 and Shekhar-2.
- Toria:Irrigation should be given. Top dressed remaining dose of Urea at optimum moisture.
- Mustard:Continues sowing should be done by any one from these varieties such as Varuna (T-59), Basanti, Rohini, Maya, Urbashi, NDR-8501, Vaibhav , Vardan, Ashirbad, CS-52 and CS-54 with 60 : 60: 60 and 40 kg NPK and S, respectively at the time of sowing. Used 3.0 lt. Pendimethalin with 600lt. water solution with in 72 hrs after sowing.
- Linseed:Weeding and hoeing can be taken up.
- Brinjal / Chilies:Transplanting should be done with new seedlings. Pick up mature fruits from standing crop, watching insect & pest, if need apply recommended dose of insecticide (0.5%Azadirachtin).
- Leafy Vegetable:Sowing should be done .Cutting , marketing .
- Potato:Sowing of medium duration varieties such as K. sheetman, K. Sinduri,

Chipsona-1 and 2. Potato seed should be kept out from cold storage, before 7-10 days of sowing. Weeding and earthing should be taken up.

- Barseem: Sowing of varieties, viz.; T-5, T-26, T-9, T-780 and Maiskavi and moisture should be applied as per need
- Animal: Balanced diet should be given for milch animal with 50% green fodder. Common diseases of animals are Anthrax (high fever and enlargement of spleen), the others are Gala Ghotu? (respiratory trouble and vaccinate against Mouth and foot disease. The routine immunization of animals becomes necessary since disease decreases milk production capacity among milch animals if need concerned near Veterinary hospital.

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

16-11-2021/(0800 to 0827) GMT
 16-11-2021/(1330 to 1357) IST

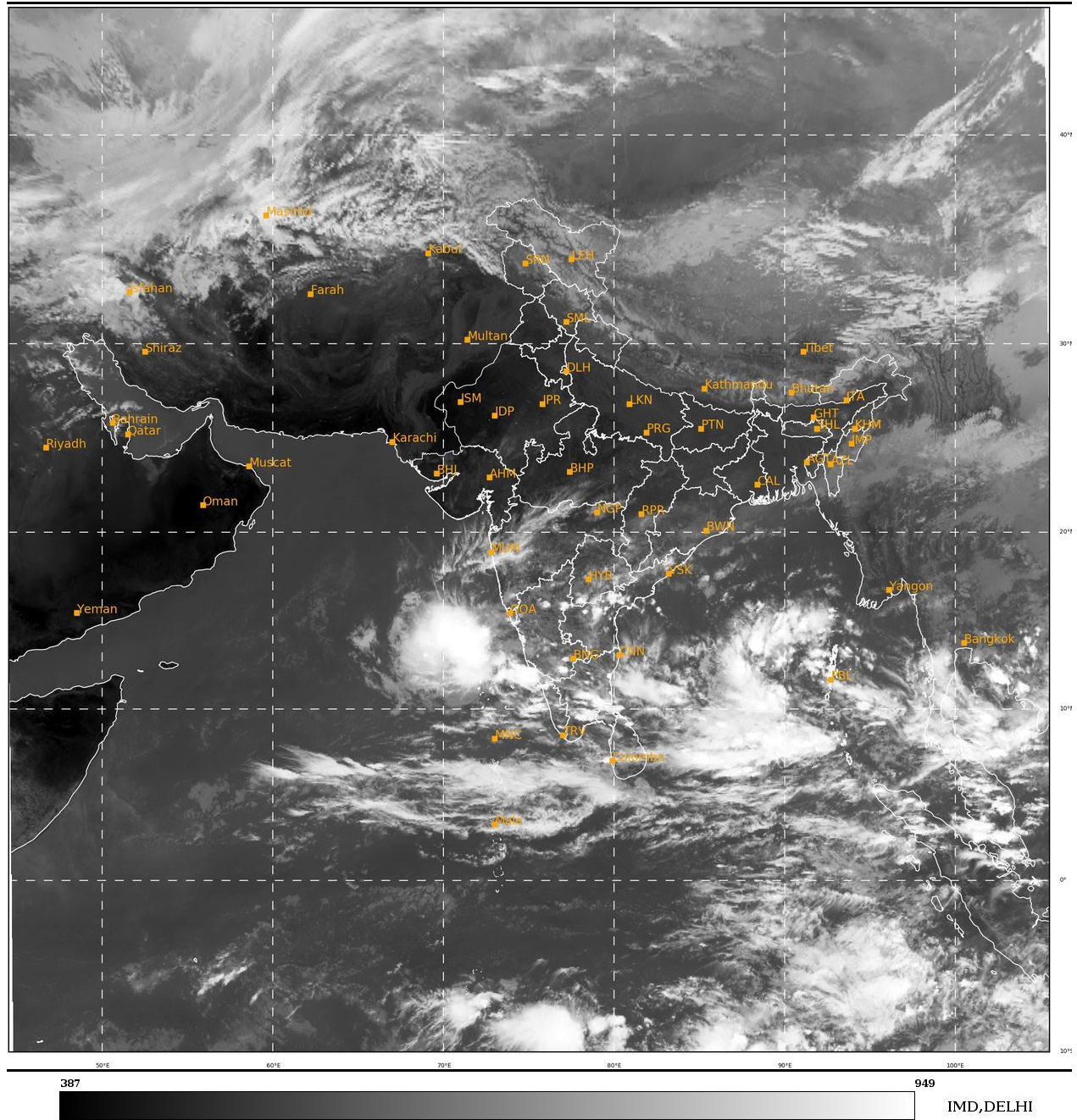


Figure: 1. Latest available satellite picture as on 16 Nov 2021 at 1357 Hrs (IST). (Source: IMD).

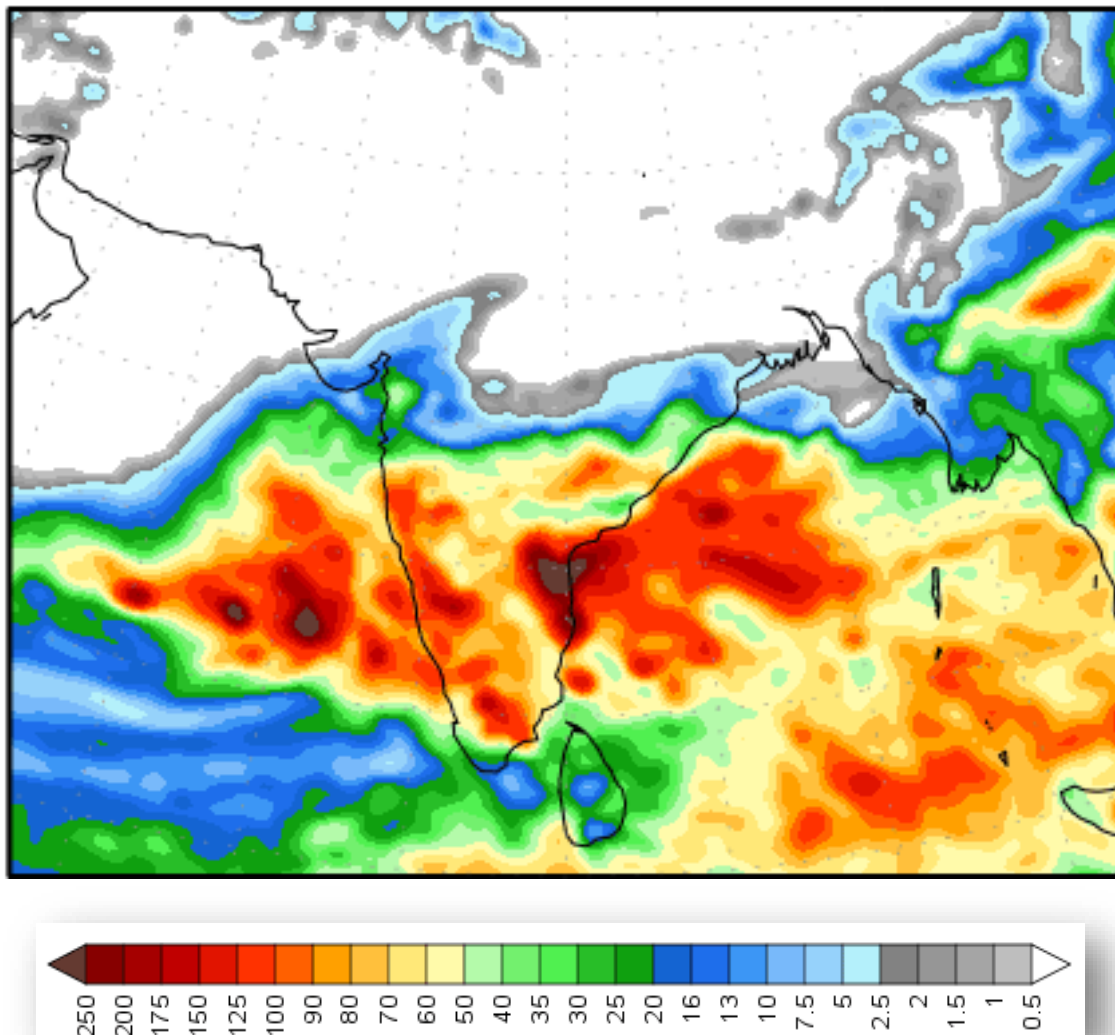


Figure:2. Precipitation forecast for 16 Nov to 24 Nov 2021 (Source: NOAA NCEP).

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.