

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area lies over Southeast and adjoining Eastcentral Arabian Sea. Associated cyclonic circulation extends up to mid tropospheric level. It is likely to move north northwestwards and concentrate into a depression during next 48 hours and move west-northwestwards away from the Indian coast subsequently.
- A trough in easterlies runs from the cyclonic circulation associated with the above low pressure to Northeast Arabian Sea off south Gujarat coast across Eastcentral Arabian Sea in the lower levels.
- A cyclonic circulation lies over Westcentral Bay of Bengal off Andhra Pradesh Coast and extends up to mid tropospheric 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 and at isolated places over south Konkan, Goa, south Madhya Maharashtra and south Marathwada during next 5 days.
 - (ii) Heavy rainfall at isolated places very likely over Tamil Nadu, Puducherry & Karaikal during next 5 days; over Kerala & Mahe during next 4 days; over Coastal Andhra Pradesh & Yanam during next 3 days; over south Interior Karnataka & south Konkan & Goa during next 2 days and over coastal Karnataka today, 05th 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 5 days.
- Shallow to moderate fog likely to occur mainly in the morning hours over Delhi-NCR till 6th November and reduce thereafter due to likely strengthening of the lower levels winds over the region from 6th November afternoon.
- 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 many places over Coastal Andhra Pradesh & Yanam, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; at a few places over Madhya Maharashtra and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad , Rayalaseema and Andaman & Nicobar.
- Heavy rainfall recorded (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Tamil Nadu, Puducherry & Karaikal and South Interior Karnataka.
- Moderate Fog observed at many places over Delhi. Visibility recorded at 0830 hours IST of today: Delhi (Safdarjung and Palam)-200 metre.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal & South Interior Karnataka, Lakshadweep and Kerala & Mahe.
- Maximum Temperature Departures as on 04-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Assam & Meghalaya; at isolated places over Gangetic West Bengal and Madhya Maharashtra. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and East Rajasthan; at a few places over Himachal Pradesh, West Rajasthan, West Madhya Pradesh, Bihar and Tamil Nadu, Puducherry & Karaikal; at isolated places over East Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim and near normal at rest parts of the country. Yesterday, the maximum temperature 36.0°C was reported at Bulsar (Gujarat Region) and Ratnagiri (Konkan & Goa).
- Minimum Temperature Departures as on 05-11-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over South Interior Karnataka; at many places over Marathwada, Telangana, Chattisgarh and North Interior Karnataka ; at a few places over Vidarbha and at isolated places over Rayalseema and Andaman & Nicobar. They are appreciably below normal (-3.1°C to -5.0°C) at many places over East Rajasthan and at isolated places over Bihar, and below normal (-1.6°C to -3.0°C) at most places over Gangetic West Bengal and Assam & Meghalaya; many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Saurashtra & Kutch and Madhya Pradesh; at isolated

places over West Rajasthan and near normal over rest parts of the country. Today, the lowest minimum temperature of 9.0°C is reported at Sikar (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 05 November (Day 1): Heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka, south Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, south Marathwada, 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 & adjoining Eastcentral Arabian sea and along & off north Kerala-Karnataka-Goa-south Maharashtra coasts, Lakshadweep area, Westcentral Bay of Bengal along & off Coastal Andhra Pradesh. Fishermen are advised not to venture into these areas.
- 06 November (Day 2): Heavy rainfall very likely at isolated places over South Interior Karnataka, south Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, 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 & adjoining Eastcentral Arabian sea and along & off north Kerala-Karnataka-Goa-south Maharashtra coasts, Lakshadweep area, Westcentral Bay of Bengal along & off Coastal Andhra Pradesh. Fishermen are advised not to venture into these areas.
- 07 November (Day 3): Heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over south Konkan & Goa, south Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 50-60 kmph gusting to 70 kmph) very likely over Southeast, Eastcentral and Northeast Arabian sea and along & off north Karnataka-Maharashtra coasts. Fishermen are advised not to venture into these areas.

- 08 November (Day 4): Heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 50-60 kmph gusting to 70 kmph) very likely over Southeast, Eastcentral and Northeast Arabian sea and along & off north Karnataka-Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 09 November (Day 5): Heavy rainfall likely at isolated places over Andaman & Nicobar islands and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally weather (speed reaching 45-55 kmph gusting to 65 kmph) likely over Westcentral & adjoining Eastcentral Arabian sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 05 Nov to 13 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)

Assam

Weather condition:

Weather during the week was partially clear. The daily average maximum temperature was 30.1°C which is 0.6 degree above normal and the average daily minimum temperature was 18.0°C which is 0.6 degree below normal for the week. Total BSSH was 44.7 hrs only with an average of 6.3hrs. The daily average evaporation and wind speed was 5.8 mm and 6.8 km/hr respectively. The daily average RH during morning and afternoon was 96.5% and 58% respectively

Contingency measure:

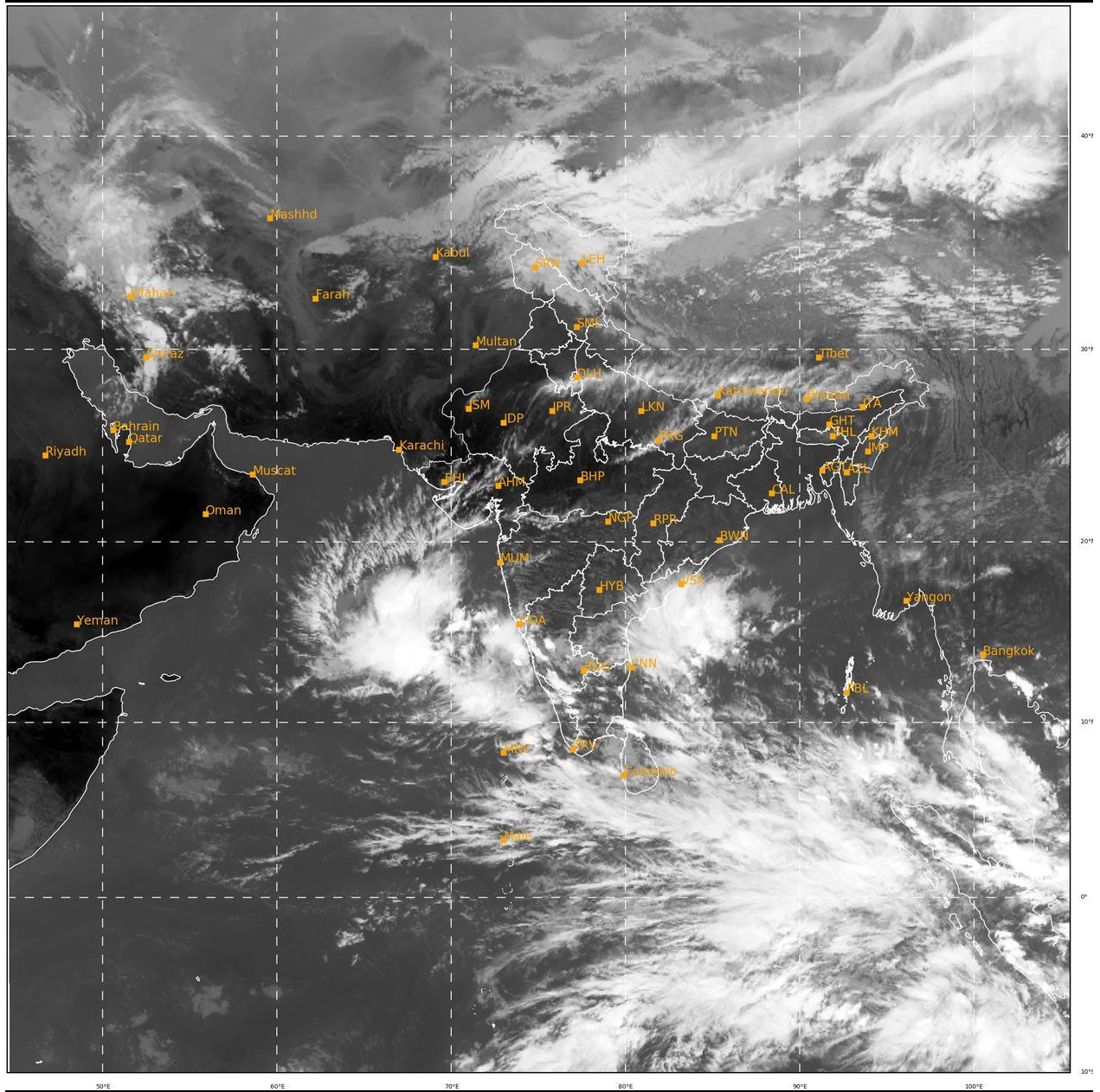
- Sali rice: During the milking stage of rice, attack of gundhi bug may be observed in the crop field. To control the pest population apply NeemAzal @ 10ml per litre of water or Neem Seed Kernel Extract (NSKE) @ 1.5g per litre of water during evening hours. Apart from the chemical treatment, farmers may also go for adoption of ITK like- hanging of dead frogs or crabs in the middle of the field to attract the pest. Farmers are advised to adopt relay cropping with pea in the rice fields at about 20-25 days before harvesting the sali paddy. Recommended varieties of pea like T-136, bonneville etc. can be sown at a spacing of 30cm x

10cm.

- Potato: Farmers are advised to continue land preparation followed by planting of potato tubers in the field. It is advisable to collect seeds of recommended varieties of potato like Kufri Chandramukhi, Kufri Jyoti, Kufri Megha, Kufri Sindhuri, Kufri Pukhraj etc. Application 3-4 carts of FYM along with 19 kg Urea, 45 kg SSP and 12 kg MOP per bigha in the furrows before planting is suggested. To avoid the problem of red ant, cut worm etc. in the field, application of Thimet 10 G @ 2 kg/bigha of land is recommended.
- Tomato: For cultivation of tomato it is recommended to collect varieties like Punjab Chuhara, Punjab Kesri, Pusa ruby, Arka abha, Arka alok, BT-1 etc. Selection of a sunny area with well drained friable light soil rich in organic matter is recommended. Prepare the bed of 1.0 m width of convenient length and 10-15 cm raised above the ground level. Drench the seed bed with Captan 0.1% solution and keep in covered immediately after treating with polythene sheet or gunny bag for 2 days.
- Rabi Maize: Due to occurrence of moderate level of rainfall during past week there may be appearance of weeds in the maize field. Light hoeing may be given for better control of weeds. Apply Urea @ 6-8kg per bigha in maize crop when the crop attains knee high stage (or 30 days). Placement of fertilizer is more effective than broadcasting in Maize crop. To control cut worm infestation during early age of the crop, apply Malathion 5% dust @ 3.5kg/bigha as soil treatment.
- Rapeseed (land preparation and sowing): Land preparation followed by sowing of seeds may be continued for rapeseed and mustard cultivation as early sowing helps in escaping the attack of aphids. During the time of final land preparation, apply 3-4 quintals of FYM, 12kg Urea, 30kg SSP and 25kg MOP and mix thoroughly in the soil. Collect recommended varieties of rapeseed viz., TS-38, M-27 and TS-36 which are suitable for all agro-climatic zones of Assam.
- Broilers: The main two disease of broiler chicken is Ranikhet and Gamboro .To protect the birds from these disease vaccinate the birds. For ranikhet disease 1st vaccine at the age of 5-7 days and 2nd at the age of 21-25 days birds. For gamboro disease vaccinate the birds at the age of 12-14 days old chicken.

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

05-11-2021/(0800 to 0826) GMT
05-11-2021/(1330 to 1356) IST



357

954

IMD, DELHI

Figure: 1. Latest available satellite picture as on 05 Nov 2021 at 1356 Hrs (IST). (Source: IMD).

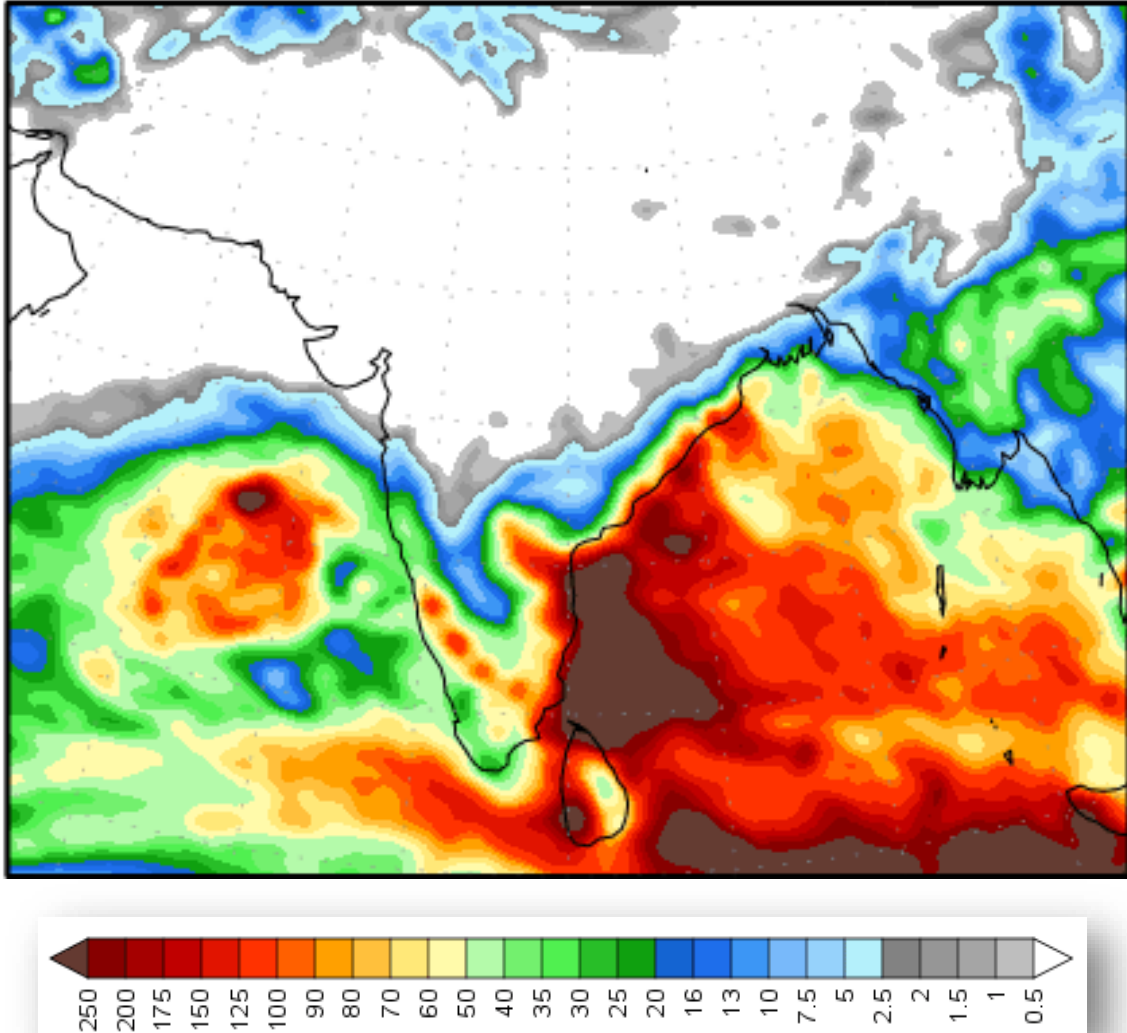


Figure:2. Precipitation forecast for 05 Nov to 13 Nov 2021 (Source: NOAA NCEP).

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.