

All India Coordinated Research Project on Agrometeorology
CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 14 October 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Southwest Monsoon has further withdrawn from some more parts of Telangana; remaining parts of Marathwada, Madhya Maharashtra & Konkan; some parts of North Interior Karnataka and most parts of Central Arabian Sea. The withdrawal line now passes through Lat. 27.0°N/Long. 92.0°E, Kohima, Silchar, Krishnanagar, Baripada, Malkangiri, Nalgonda, Bagalkote, Vengurla, Lat. 16.0°N/Long. 65.0°E and Lat. 16.0°N/Long. 60.0°E.
- A Low Pressure Area lies over northern parts of Central Bay of Bengal & neighbourhood. It is likely to move west-northwestwards and reach south Odishanorth Andhra Pradesh coasts during next 24 hours. Under its influence; Light to moderate rainfall at most places with isolated thunderstorm (wind speed 40- 50 kmph) and isolated heavy falls very likely over Andaman & Nicobar Islands during next 3 days. Rainfall intensity very likely to increase over East India and adjoining Central India from 15th October with isolated heavy falls over Gangetic West Bengal on 17th & 18th, over Odisha on 16th & 17th and over Coastal Andhra Pradesh & Yanam during 14th-16th October, 2021.
- Another Low Pressure Area lies over Eastcentral & adjoining Southeast Arabian Sea off Lakshadweep area. It is likely to move east-southeastwards as a Low Pressure Area towards Kerala coast during next 48 hours and an east-west trough runs roughly along 13°N. Under their influence, Isolated heavy rainfall very likely over Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu during next 3 days and isolated very heavy rainfall also very likely over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal on 15th & 16th and over South Interior Karnataka on 16th October, 2021. Squally weather (wind speed reaching 40-50 kmph) very likely over Central Bay of Bengal, Andaman Sea, along & off Odisha coast and adjoining coastal areas of Andhra Pradesh & West Bengal; Eastcentral & adjoining Southeast Arabian Sea & Lakshadweep area during next 24 hours. Fishermen are advised not to venture into these areas and those out at Eastcentral & adjoining Southeast Arabian Sea are advised to return to the coast by today evening.

- Under the influence of lower level easterlies, fresh spell of rainfall with thunderstorm & lightning very likely over Northwest India from 16th October. Isolated heavy to very heavy rainfall also likely over Himachal Pradesh, Uttarakhand and Uttar Pradesh on 17th & 18th and isolated thunderstorm, lightning & hail over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 17th & 18th October, 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 Gangetic West Bengal, Andaman & Nicobar Islands, Kerala & Mahe and Lakshadweep ; at many places over Coastal & South Interior Karnataka; and at isolated places over Jammu & Kashmir, West Madhya Pradesh, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and North Interior
- Heavy Rainfall (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Coastal Andhra Pradesh, Andaman & Nicobar, Kerala, Tamilnadu, South Interior Karnataka and Gangetic West Bengal.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Jharkhand, Rayalseema, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe, South Interior Karnataka, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.
- Maximum Temperature Departures as on 13-10-2021: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Assam & Meghalaya; at a few places over Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Sub-Himalayan West Bengal, Jharkhand and Nagaland, Manipur, Mizoram & Tripura; at a few places over Tamil Nadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Bihar, Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Gangetic West Bengal; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Vidarbha and Chattisgarh; at a few places over Konkan & Goa and Odisha and at isolated places over Gujarat Region. They were below normal (-1.6°C to -3.0°C) at isolated places over Lakshadweep and Andaman & Nicobar

Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.3°C was reported at Deesa (Gujarat Region).

- Minimum Temperature Departures as on 14-10-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Bihar; at a few places over Jharkhand, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh and Gujarat Region and at isolated places over Gangetic West Bengal and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at most places over Punjab and Chhattisgarh; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Odisha, Konkan & Goa, Madhya Maharashtra, Rayalaseema, Coastal Andhra Pradesh & Yanam, South Interior Karnataka; at a few places over Uttarakhand, East Uttar Pradesh, West Madhya Pradesh, Vidarbha and Andaman & Nicobar Islands and at isolated places over East Madhya Pradesh, Telangana, Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Rajasthan and below normal (-1.6 to -3.0) at isolated places over West Rajasthan and near normal over rest parts of the country. Today, the lowest minimum temperature of 14.6°C is reported at Sikar (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 14 October (Day 1): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning & gusting wind (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalseema, Coastal & South Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Squally weather (wind speed reaching 40-50 kmph) very likely over Central Bay of Bengal, Andaman Sea, along & off Odisha coast and adjoining coastal areas of Andhra Pradesh & West Bengal; Eastcentral & adjoining Southeast Arabian Sea & Lakshadweep area. Fishermen are advised not to venture into these areas and those out at Eastcentral & adjoining Southeast Arabian Sea are advised to return to the coast by today evening.
- 15 October (Day 2): Heavy to very heavy rainfall very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; heavy rainfall at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh &

Yanam and Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning & gusting wind (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Squally weather (wind speed reaching 40-50 kmph) very likely over Central Bay of Bengal & Andaman Sea and along & off Odisha coast and adjoining coastal areas of Andhra Pradesh & West Bengal; Southeast & adjoining Eastcentral Arabian Sea, along & off Kerala/Karnataka coasts, Lakshadweep area, Comorin area and Gulf of Mannar. Fishermen are advised not to venture into these areas.

- 16 October (Day 3): Heavy to very heavy rainfall very likely at isolated places over South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal and heavy rainfall at isolated places over Odisha, Andaman & Nicobar Islands, Coastal Karnataka and Coastal Andhra Pradesh & Yanam. Thunderstorm accompanied with lightning & gusting wind (speed reaching 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Bihar, Jharkhand, Marathwada, Rayalaseema, Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Telangana. Squally weather (wind speed reaching 40-50 kmph) very likely over Central & North Bay of Bengal, Andaman Sea, along & off Odisha coast and adjoining coastal areas of Andhra Pradesh & West Bengal; Southeast & adjoining Eastcentral Arabian Sea, along & off Kerala Karnataka coasts, Lakshadweep area, Comorin area and Gulf of Mannar. Fishermen are advised not to venture into these areas.
- 17 October (Day 4): Heavy to very heavy rainfall likely at isolated places over Himachal Pradesh, Uttarakhand and Uttar Pradesh and heavy rainfall at isolated places over Gangetic West Bengal and Odisha. Thunderstorm accompanied with lightning, hail & squall (speed reaching 50-60 kmph) likely at isolated places over Uttarakhand; with lightning & hail over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Marathwada, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana. Squally weather

(wind speed reaching 40-50 kmph) likely over Central & North Bay of Bengal and along & off West Bengal coast. Fishermen are advised not to venture into these areas.

- 18 October (Day 5): Heavy to very heavy rainfall likely at isolated places over Uttarakhand and Uttar Pradesh and heavy rainfall at isolated places over Himachal Pradesh, Gangetic West Bengal and Bihar. Thunderstorm accompanied with lightning, hail & squall (speed reaching 50-60 kmph) likely at isolated places over Uttarakhand; with lightning & hail over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Gangetic West Bengal and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Kerala & Mahe and Coastal Andhra Pradesh & Yanam. Squally weather (wind speed reaching 40-50 kmph) likely over Central & North Bay of Bengal and along & off West Bengal coast. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 14 Oct to 22 Oct 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:

Light to medium cloud appear only 15 and 16 October, 3.0mm rainfall forecast only 17 October. Maximum temperature may be 1.0-2.00C above to its normal and minimum temperature is also 1.0 - 2.00C higher to its normal. During this period majorly North-easterly/ South- easterly winds may be prevailing with 5.4 to 9.9 km/hr which are 1-2 kmph higher to its normal as per forecast.

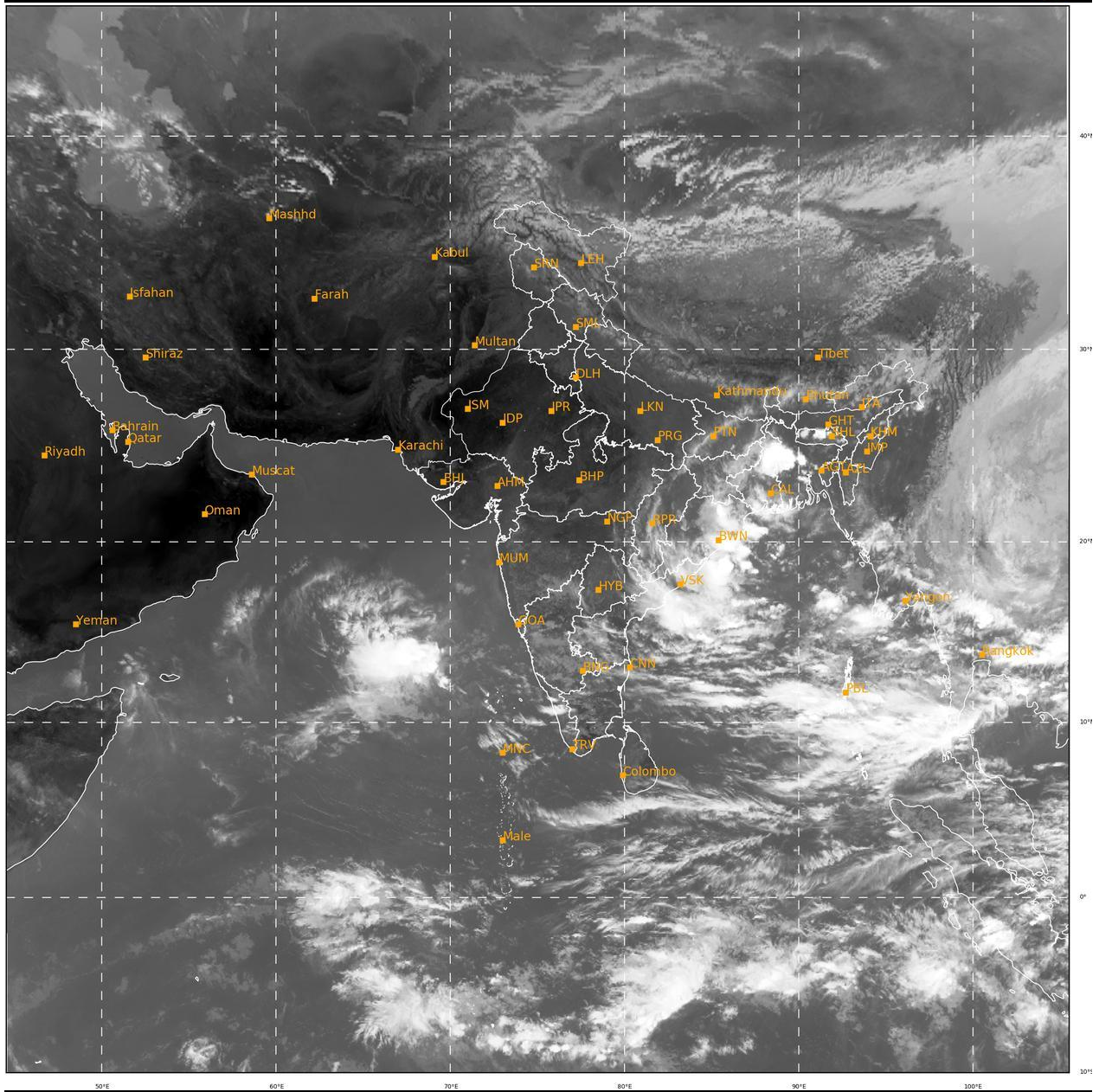
Contingency measure:

- Paddy: Farmers are advised to light irrigation should be taken up. Look for incidence of Army worm , Gundhibug , if seen dusting Malathion dust 5% @ 20-25 kg for Gundhibug or spray Clopyriphas 20 EC @2.5 lt. per hectare with 500-600 lt. water . Harvest mature crop.
- Maize: Harvest mature crop, tying , lifting and threshing .
- Sorghum : Light irrigation should be taken up if need.
- Pearlmillet :Watchful from birds and harvest mature crop.

- Pigeon pea :Leaf roller are appearing in the crop spray Qunalphas 25 EC, 2.0 lt. /ha with 500 to 600 lt. of water.
- Gram, Pea and Lentil: Sowing should be done by recommended varieties of Gram Avarodhi, KWR-108, Radhey, JG-16 , KGD-1168 and K-850 ,for Pea such as Rachna, KPMR-400, JP-885, IPF-99-15, KPMR-522 , KPMR-144-1 and IPFD-9913 and Lentil such as IPL-81, N Mashur, DPL-62 Pant Mashur-5, Pant Mashur-4, DPL-15, K-75, HUL-57KLS-218 and Shekhar-3 for un irrigated condition.
- Mustard: Sowing of mustard varieties are Varuna, Vaibhv, Vardhan, Kanti, Rohini, Peetambri etc. and thinning should be taken up after 10 days of sowing.
- Toria: Irrigation should 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.
- Leafy Vegetable: Sowing of leafy vegetables. cutting , marketing
- Potato: Sowing should be done by varieties of Kufari Jyoti, Kufari Bahar, Kufari Shitman , Kufari Pukharaj and Kufari Chipsona-1.Treated seed of 25-30 q/ha with seed size 25 to 30 gram should be used.
- Barseem : Sowing of varieties, viz.; T-5, T-26, T-9, T-780 and Maiskavi and moisture should be apply as per need.
- Animal : Fresh water should be used for drinking. 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 Surra (Sudden death of animals after restlessness). The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

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

14-10-2021/(0800 to 0826) GMT
14-10-2021/(1330 to 1356) IST



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942

IMD, DELHI

Figure: 1. Latest available satellite picture as on 14 Oct 2021 at 1356 Hrs (IST). (Source: IMD).

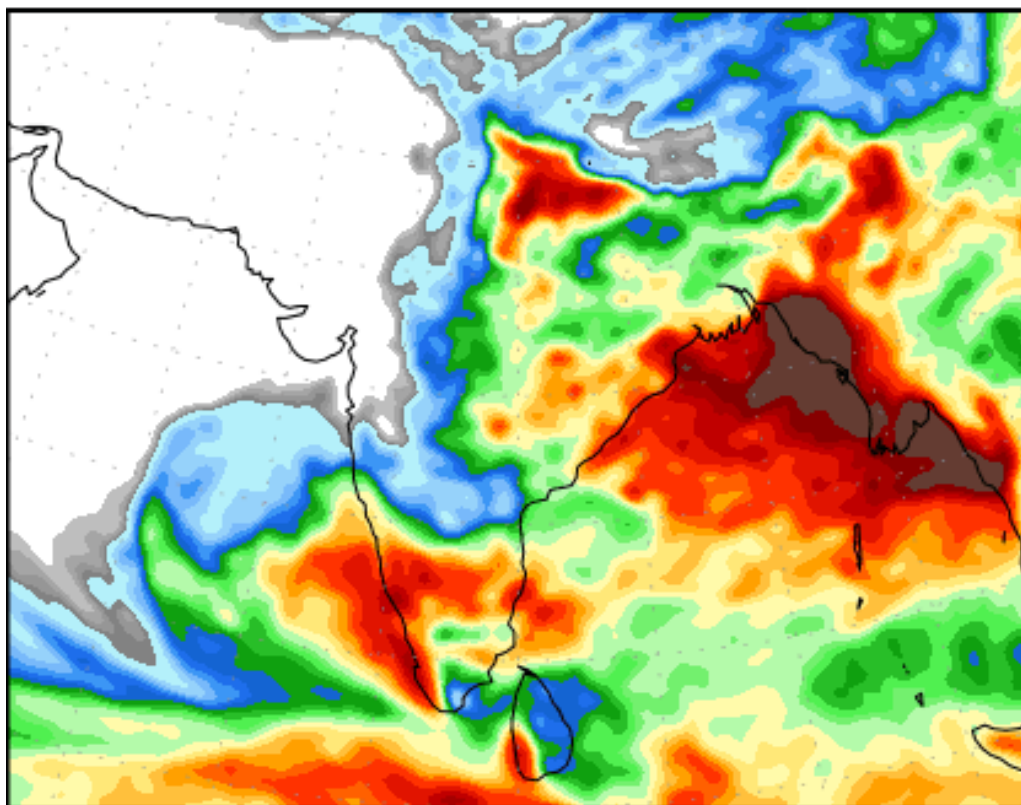


Figure:2. Precipitation forecast for 14 Oct to 22 Oct 2021 (Source: NOAA NCEP).

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