

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 21 October 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest Monsoon has withdrawn from remaining parts of Uttar Pradesh, entire Bihar, northern parts of West Bengal & Sikkim, northern parts of Jharkhand, north Chhattisgarh, some parts of east Madhya Pradesh and more parts of West Madhya Pradesh on today, the 21st October, 2020.
- The withdrawal line of the Southwest Monsoon passed through Lat. 27°N/Long.90°E, Cooch Behar, Sriniketan, Ranchi, Pendra Road, Mandla, Narsinghpur, Indore, Vallabh Vidyanagar, Porbandar, Lat.21°N/Long.65°E and Lat.21°N/Long.60°E.
- Conditions are continuing to become favourable for further withdrawal of Southwest-Monsoon from remaining parts of Jharkhand, Madhya Pradesh and Gujarat, some parts of Chhattisgarh, some parts of Odisha and north Maharashtra during next 3-4 days.
- The Low pressure Area over Central parts of Bay of Bengal & neighbourhood now lies as a Well Marked Low Pressure Area over Westcentral Bay of Bengal & neighbourhood. It is very likely to move northwestwards during next 24 hours and north-northeastwards thereafter towards West Bengal-Bangladesh coasts across Northwest Bay of Bengal off Odisha coast during subsequent 48 hours. It is likely to concentrate into a Depression by tomorrow, the 22 October, 2020 and further into a Deep Depression during the subsequent 24 hours.
- The east-west trough now runs roughly along 15°N across peninsular India at lower & middle tropospheric levels. It is very likely to persist during next 3 days. Under the influence of above systems:
 1. Fairly widespread to widespread rainfall with isolated heavy to very heavy fall very likely over Coastal Andhra Pradesh, isolated heavy over Telengana, North Interior Karnataka and Tamilnadu on today, the 21 October; isolated heavy falls is also likely over Coastal & south Interior Karnataka and Rayalaseema on 21 & 22 October, 2020.
 2. Fairly widespread to widespread rainfall with isolated heavy fall very likely over Coastal Odisha till 23 October, isolated heavy falls over Gangetic West

Bengal on 22 & 23 and over Northeast India from 22 to 24 October, 2020. Isolated very heavy rainfall is also likely over coastal Odisha on 22nd & over West Bengal on 23rd October, 2020. Also, isolated Heavy to very heavy rainfall with extremely falls over Nagaland, Manipur, Mizoram & Tripura on 22nd & 23rd and over Assam & Meghalaya on 23rd October, 2020.

3. Fishermen are advised not to venture into Westcentral Bay of Bengal till 22nd; North Bay of Bengal during 22nd-24th; along & off north Andhra Pradesh-south Odisha coasts during 21st & 22nd; along & off north Odisha-West Bengal-Bangladesh coasts during 22nd-23rd October, 2020.

- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Interior Karnataka and Kerala & Mahe; at many places over Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Coastal Karnataka; at a few places over Andaman & Nicobar Islands, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal and at isolated places over Arunachal Pradesh, Assam & Meghalaya, West Bengal & Sikkim, Odisha, Rajasthan, Madhya Pradesh, Gujarat State, Marathwada, Vidarbha, Chhattisgarh and Lakshadweep.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Nagaland, Manipur, Mizoram & Tripura, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 20-10-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, Odisha, Gangetic West Bengal, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over Punjab, West Rajasthan and Bihar; at many places over Sub-Himalayan West Bengal & Sikkim; at a few places over East Madhya Pradesh; at isolated places over East Uttar Pradesh, West Madhya Pradesh and Chhattisgarh. They were below normal (-1.6°C to -3.0°C) at many places over Coastal Andhra Pradesh & Yanam; at a few places over Saurashtra & Kutch, South Interior Karnataka and

Royalaseema; Konkan & Goa, North Interior Karnataka, Kerala & Mahe and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.1°C was reported at Churu (West Rajasthan).

- Minimum Temperature Departures as on 21-10-2020: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Gujarat Region; at a few places over Rajasthan; at isolated places over West Madhya Pradesh and Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at many places over Saurashtra & Kutch, East Madhya Pradesh and Nagaland, Manipur, Mizoram & Tripura; at a few places over Arunachal Pradesh; at isolated places over Assam & Meghalaya, West Bengal & Sikkim, Bihar, Jharkhand and Telangana; above normal (1.6°C to 3.0°C) at most places over Andaman & Nicobar Islands and Chhattisgarh; at many places over Uttarakhand and Marathwada; at a few places over Odisha, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Royalaseema and Lakshadweep; at isolated places over Karnataka and Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Haryana, Chandigarh & Delhi and Punjab; below normal (-1.6°C to -3.0°C) at a few places over West Uttar Pradesh; at isolated places over East Uttar Pradesh and near normal over rest parts of the country. The lowest minimum temperature of 12.5°C reported at Ludhiana (Punjab) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 21 October (Day 1): Heavy to very heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over Odisha, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, south Konkan & Goa, Telangana, Karnataka, Royalaseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning very likely at isolated places over southwest Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Royalaseema, Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Squally Wind (speed reaching 40-50 kmph gusting 60 kmph) very likely over Central & adjoining North Bay of Bengal; (speed reaching 45-55 kmph gusting 60 kmph) North Bay of Bengal & adjoining Central Bay of Bengal; (speed reaching 40-50 kmph gusting 60 kmph) over along & off north

Andhra Pradesh-south Odisha coasts. Sea Condition will be rough to very rough over Central and adjoining North Bay of Bengal, North Bay of Bengal and adjoining Central Bay of Bengal and along & off north Andhra Pradesh-south Odisha coasts. Fishermen are advised not to venture into these areas.

- 22 October (Day 2): Heavy to very heavy rainfall with extremely heavy rainfall very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura,; heavy to very heavy rainfall very likely at isolated places over Odisha, Assam & Meghalaya and heavy rainfall at isolated places over Gangetic West Bengal, Rayalaseema, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Squally Wind (speed reaching 40-50 kmph gusting 60 kmph) very likely over Central & adjoining North Bay of Bengal; (speed reaching 45-55 kmph gusting 60 kmph) over North Bay of Bengal & adjoining Central Bay of Bengal and along & off Odisha-West Bengal coasts; (speed reaching 40-50 kmph gusting 60 kmph) over along & off north Andhra Pradesh-south Odisha coasts. Sea Condition will be rough to very rough over North Bay of Bengal and adjoining Central Bay of Bengal and along & off north Andhra Pradesh-south Odisha coasts and Odisha-West Bengal coasts. Fishermen are advised not to venture into these areas.
- 23 October (Day 3): Heavy to very heavy rainfall with extremely heavy rainfall very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura,; heavy to very heavy rainfall very likely at isolated places over Gangetic West Bengal and heavy rainfall at isolated places over Odisha, Coastal Karnataka and Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Squally Wind (speed reaching 40-50 kmph gusting 60 kmph) very likely over Central & adjoining North Bay of Bengal; (speed reaching 45-55 kmph gusting 60 kmph) over North Bay of Bengal & adjoining Central Bay of Bengal and along & off West Bengal coasts; (speed reaching 50-60 kmph gusting 70 kmph) over along & off North Odisha & West Bengal coasts. Sea Condition will be rough to very rough over North Bay of Bengal and adjoining Central Bay of

Bengal and along & off north Odisha-West Bengal coasts. Fishermen are advised not to venture into these areas.

- 24 October (Day 4): Heavy to very heavy rainfall at isolated places likely over Assam & Meghalaya and heavy rainfall at isolated places over Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. Squally Wind (speed reaching 45-55 kmph gusting 65 kmph) likely over North Bay of Bengal; (speed reaching 50-60 kmph gusting 70 kmph) over North Odisha-West Bengal coasts. Sea Condition will be rough to very rough over North Bay of Bengal and North Odisha & West Bengal coasts. Fishermen are advised not to venture into these areas.
- 25 October (Day 5): Thunderstorm with lightning likely at isolated places over Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed reaching 40-50 kmph gusting 60 kmph) likely over northeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 21 to 29 October 2020 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)

West Bengal

Weather condition:

Weather conditions during the 41st week at Mohanpur, West Bengal: Maximum temperature: 33.0 to 35.5 0C, Minimum temperature: 24.5 to 27.0 0C, bright sun shine hours: 6.6 to 10. hours, Morning-time relative Humidity: 89% to 100%, after noon-time R.H: 56% to 78%. Total weekly pan evaporation: 16.9 mm, Total rainfall: 94.1 mm and average daily wind speed is around 0.81 km/h.

Contingency measure:

- Aman Rice- Light rainfall is expected in coming days. There is a chance of attack of BPH in the prevailing weather condition. If the number of insect is more than 15 per plant, apply 0.75 ml Nuvan or Vapona per lit. of water or dust quinolphos 1.5% carbaril 4% at lower portion of the stem.:
- Chilli: Present temperature and humidity conditions are congenial for the rapid spread of thrips and mites leading to the leaf curling in chilli. As a control spray Difenthiuron @ 0.75g per litre of water at 7-10 days interval.
- Cabbage & Cauliflower: To prevent damping off in seedbed spray Carbendazim 12% + Mancozeb 64% @ 2 gm/lt of water. Keep the seedbed dry and weed free.

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

21-10-2020/(0900 to 0926) GMT
21-10-2020/(1430 to 1456) IST

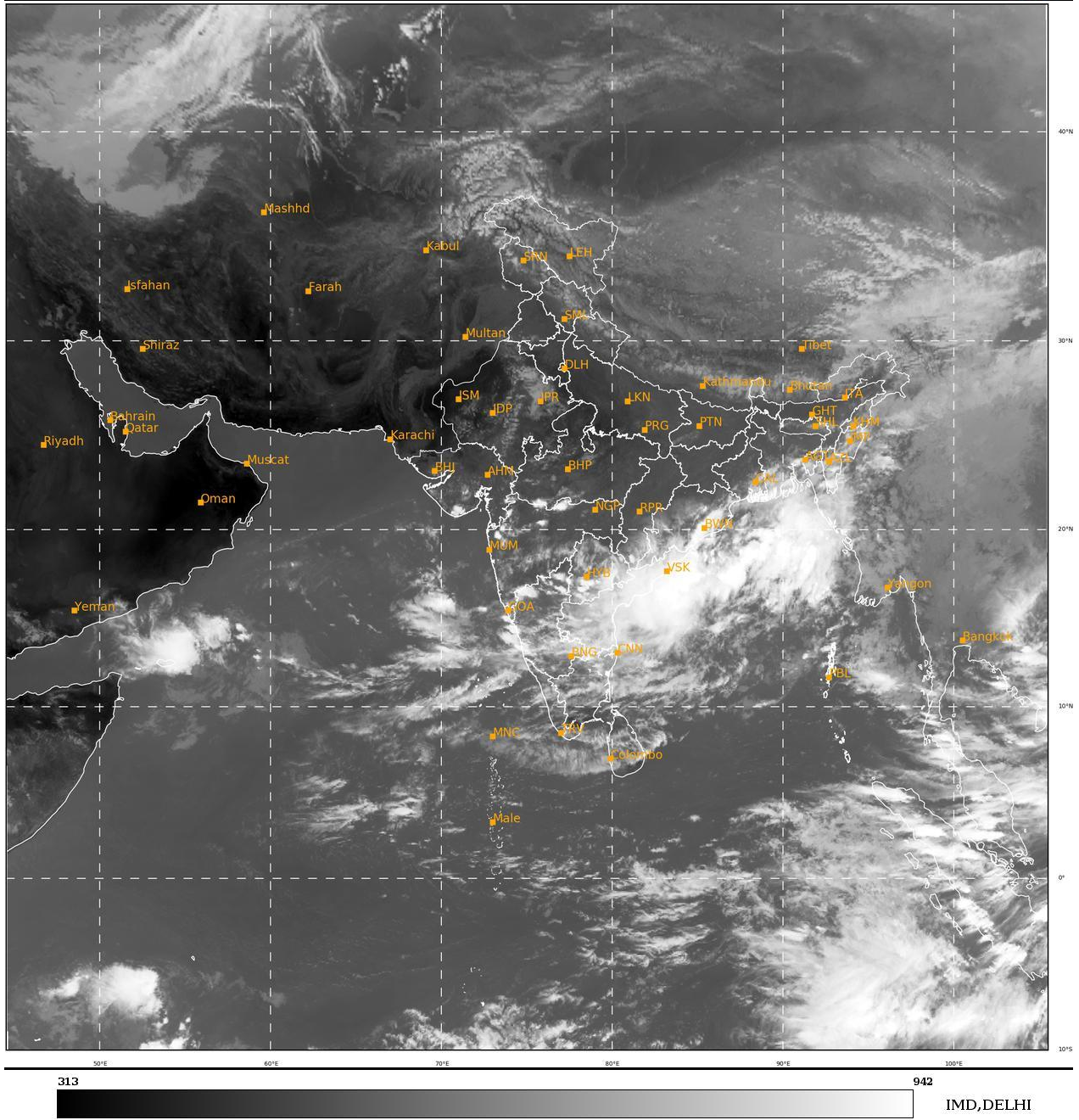


Figure: 1. Latest available satellite picture as on 21 October 2020 at 1456 Hrs (IST).
(Source: IMD).

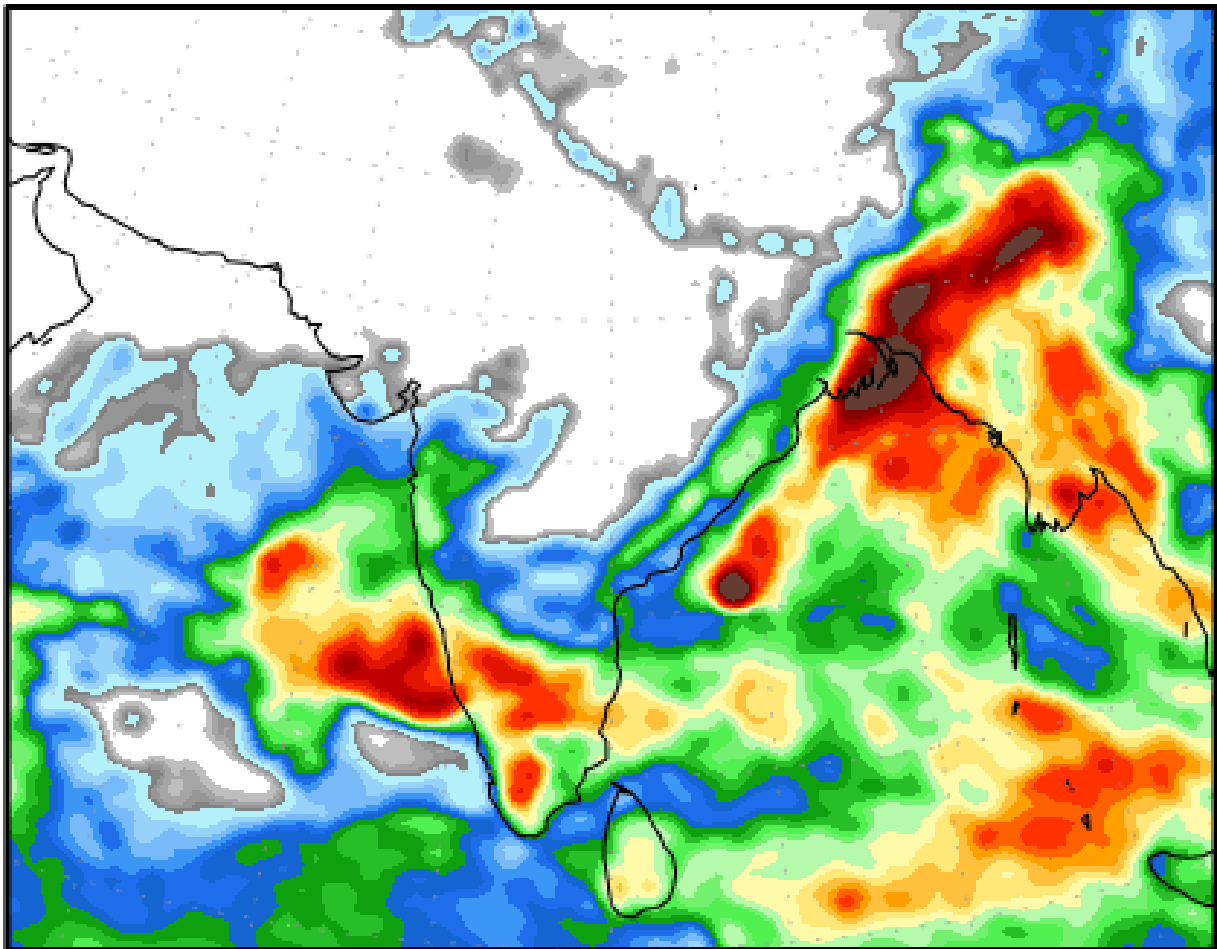


Figure:2. Precipitation forecast for 21 to 29 October 2020 (Source: NOAA NCEP).

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