

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 Jul 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The low pressure area over Kutch has become less marked. The shear zone is very likely to weaken and become less marked during next 48 hours. As a result, monsoon trough is very likely to shift northwards. Under its influence:
 - i) Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Himachal Pradesh and Uttarakhand during 17th-19th July.
 - ii) Widespread rainfall with isolated heavy to very heavy falls very likely over Haryana, Punjab, northeast Rajasthan and West Uttar Pradesh during 17th-19th July.
 - iii) Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Konkan & Goa and Coastal Karnataka during next 5 days. Isolated extremely heavy falls also very likely over Konkan & Goa during next 24 hours. Decrease in rainfall activity over the west coast and peninsular India from 16th July onwards.
- Increase in rainfall over northeast India during 17th-19th July. Widespread rainfall with isolated heavy falls likely till 16th July and isolated very heavy rainfall over the region during 17th-19th July.
- Moderate to severe thunderstorm with lightning very likely over Punjab, Haryana, Chandigarh & Delhi, northwest Uttar Pradesh, East Rajasthan, Telangana and adjoining Marathwada and Gujarat State during next 24 hours. This may cause injuries leading to casualties to people and animals staying outdoors.
- 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 Andaman & Nicobar Islands, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi, Konkan & Goa, Marathwada, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Kerala & Mahe; at many places over

Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, East Rajasthan, Madhya Maharashtra, Chhattisgarh and Tamil Nadu, Puducherry & Karaikal; at a few places over Jharkhand, West Uttar Pradesh, Uttarakhand, Punjab, Himachal Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, West Madhya Pradesh, Saurashtra & Kutch and Lakshadweep and at isolated places over Bihar, East Uttar Pradesh, East Madhya Pradesh and Gujarat Region.

- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to Very Heavy with Extremely Heavy Rainfall at isolated places over Telangana; Heavy to Very Heavy Rainfall at isolated places over Assam & Meghalaya, Sub-Himalayan west Bengal & Sikkim, West Uttar Pradesh, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra and Coastal Karnataka and Heavy Rainfall at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Arunachal Pradesh, Saurashtra & Kutch, Marathwada, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today): West Madhya Pradesh, Telangana, West Rajasthan Vidarbha, Tamil Nadu, Puducherry & Karaikal, Saurashtra & Kutch and Odisha.
- Maximum Temperature Departures as on 14-07-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at a few places over East Uttar Pradesh and West Madhya Pradesh and at isolated places over Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.1°C) at many places over Bihar, West Uttar Pradesh and East Rajasthan; at a few places over Sub-Himalayan west Bengal & Sikkim, Odisha and Andaman & Nicobar Islands and at isolated places over Gangetic West Bengal and Gujarat State. They were markedly below normal (-5.1°C or less) at many places over Punjab and at isolated places over Haryana, Chandigarh & Delhi and Telangana; appreciably below normal (-3.1°C to -5.0°C) ; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Marathawada and North Interior Karnataka; at a few places over Madhya Maharashtra, Rayalaseema, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at most places over North South Interior Karnataka; at many places over Konkan & Goa; at a few places over Coastal Karnataka and at isolated places over Assam & Meghalaya, Himachal Pradesh, Jharkhand, Kerala & Mahe and and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.2°C was reported at Khajuraho (West Madhya Pradesh).

- Minimum Temperature Departures as on 15-07-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over Bihar; at a few places over Uttar Pradesh; at isolated places over Saurashtra & Kutch, Vidarbha and Madhya Maharashtra. They are appreciably below normal (-3.0°C to -5.0°C) at isolated places over Haryana, Chandigarh & Delhi and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at a few places over Telangana, Coastal Karnataka, Rayalaseema and Tamilnadu, Puducherry & Karaikal; at isolated places over Rajasthan and Punjab and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.0°C is reported at Rajnandangaon (Chhattisgarh).

Weather Warning during the next 5 days (IMD)

- 15 July (Day 1): Heavy to Very Heavy Rainfall at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy rainfall at a few places over Coastal Karnataka and at isolated places over Madhya Maharashtra, Telangana and Interior Karnataka and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Bihar, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Telangana and Kerala & Mahe; with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong wind (speed 40-50 kmph gusting to 60 kmph) very likely along & off Gujarat-Maharashtra and Karnataka-Kerala coasts & adjoining Southeast Arabian Sea and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 16 July (Day 2): Heavy to Very Heavy Rainfall at a few places very likely over Coastal Karnataka; at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Konkan & Goa and South Interior Karnataka and heavy rainfall at isolated places over Uttarakhand, Bihar, Andaman & Nicobar Islands,

Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Telangana, Rayalaseema, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Kerala & Mahe; with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong wind (speed 40-50 kmph gusting to 60 kmph) very likely along & off Gujarat-Maharashtra and Karnataka-Kerala coasts & adjoining Southeast Arabian Sea and Lakshadweep area. Fishermen are advised not to venture into these areas.

- 17 July (Day 3): Heavy to Very Heavy Rainfall at a few places very likely over Coastal Karnataka; at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa and South Interior Karnataka and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Jharkhand, Andaman & Nicobar Islands, Madhya Maharashtra, Telangana, Rayalaseema, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) very likely at isolated places over Andaman & Nicobar Islands and Kerala & Mahe; with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Strong wind (speed 40-50 kmph gusting to 60 kmph) very likely over South Bay of Bengal and south Andaman Sea. Fishermen are advised not to venture into these areas.
- 18 July (Day 4): Heavy to Very Heavy Rainfall at a few places likely over Coastal Karnataka; at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Assam & Meghalaya and Konkan & Goa and heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Madhya Pradesh, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Nagaland, Manipur,

Mizoram & Tripura, Andaman & Nicobar Islands, Madhya Maharashtra, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) likely at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Gangetic West Bengal and Odisha. Strong wind (speed 40-50 kmph gusting to 60 kmph) likely over South Bay of Bengal and south Andaman Sea. Fishermen are advised not to venture into these areas.

- 19 July (Day 5): Heavy to Very Heavy Rainfall at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands, Konkan & Goa and Coastal Karnataka and heavy rainfall at isolated places over Punjab, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Telangana, South Interior Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning & gusty winds (30-40 kmph) likely at isolated places over Andaman & Nicobar Islands; with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Gangetic West Bengal and Odisha. Strong wind (speed 40-50 kmph gusting to 60 kmph) likely over South Bay of Bengal and south Andaman Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 15 Jul to 23 Jul 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)

West Bengal

Weather condition:

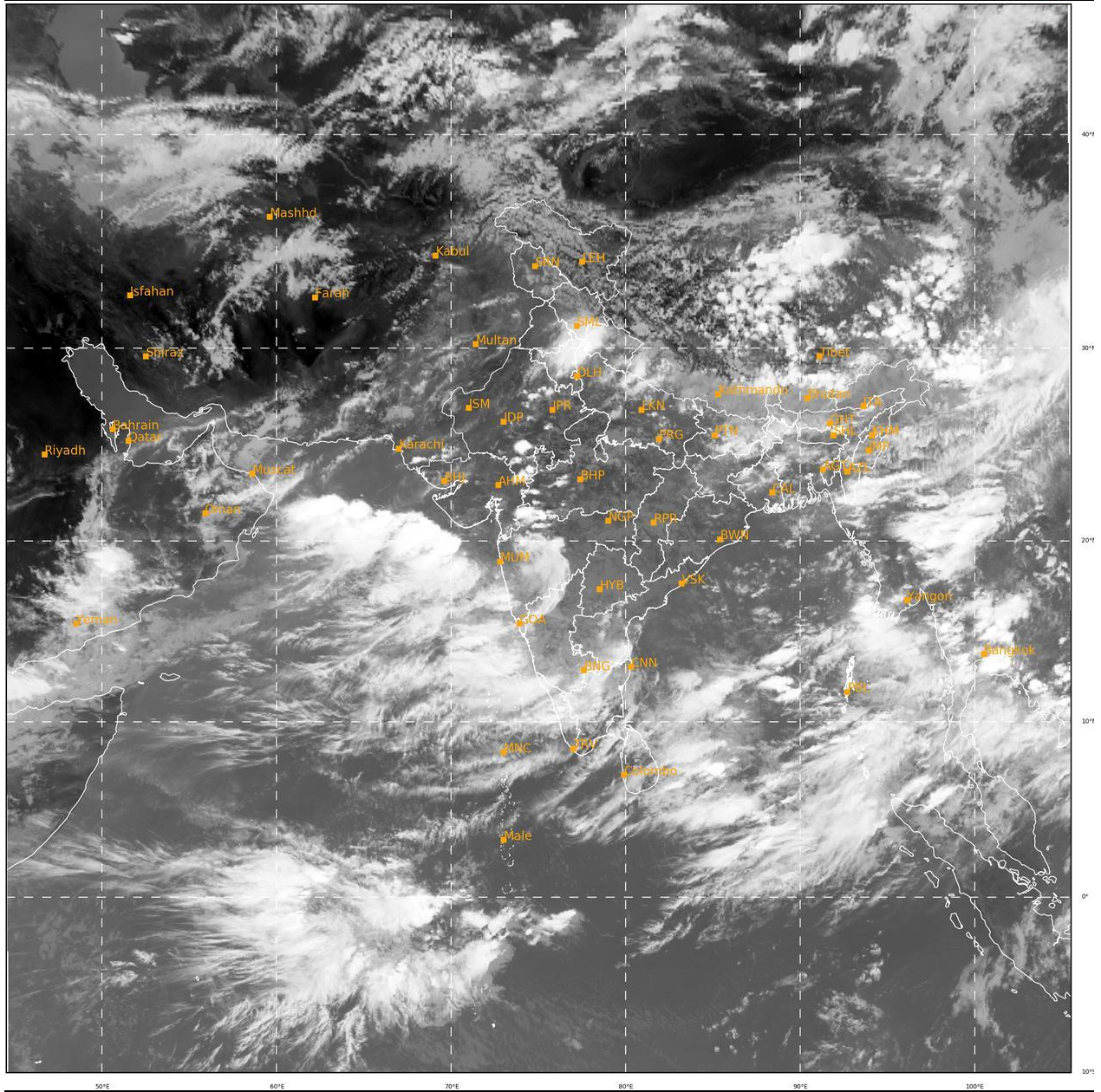
Weather conditions during the 28th week at Mohanpur, West Bengal: Maximum temperature: 32.0 to 33.7 0C, minimum temperature: 26.4 to 27.0 0C, bright sun shine hours: 0.0 to 4.5 hours, Morning-time relative Humidity: 88 to 95 %, after noon-time R.H: 74 to 89%, weekly total pan evaporation: 18.1 mm, total weekly rainfall is 40.6 mm and average daily wind speed is around 1.48 km/h.

Contingency measure:

- Rice: Make the seedbed weedfree. Apply Organic manure, Phosphate , Boran & Zinc. If B & Zn not applied earlier, spray 1 gm Zinc sulphate, 1 gm Octaborate , 10 gm urea per lt. of water 3-4 days before transplanting. In the paddy nursery, if upper leaves of the paddy seedlings become yellow and lower leaves remain green, it indicates the iron deficiency. Spraying of ferrous sulphate @ 0.5 % with 0.25% lime solution is recommended to overcome this problem. Transplanting may be done at 25-30 days age of the seedling. Appropriate control measure should be taken for pest & diseases in the nursery if they occur. Fungicide hexaconazole 1ml. per lt. of water may be applied if required.
- Jute: Jute should be harvested at 110-120 DAS. 2-3 Dhaincha plants should be mixed with every jute bundle for better retting. To get good quality of fibre 4 Kg Crijaf Sona, microbial powder, may be applied for 1 bigha of Jute. This powder improves fibre quality by atleast 1-2 grades, increases yield by 8-10%, reduces the retting duration by 6-7 days only in stagnant water. Additional income of Rs. 12000-Rs. 15000/ha may be expected. In the consecutive 2nd retting , at the same retting tank, the amount required will be half and for the 3rd retting application of Crijaf Sona is not required. This should be applied at the time of making Jak on each layer of Jute bundles. In free flowing water no need to apply it.

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

15-07-2021/(0800 to 0826) GMT
15-07-2021/(1330 to 1356) IST



264

937

IMD, DELHI

Figure: 1. Latest available satellite picture as on 15 Jul 2021 at 1356 Hrs (IST). (Source: IMD).

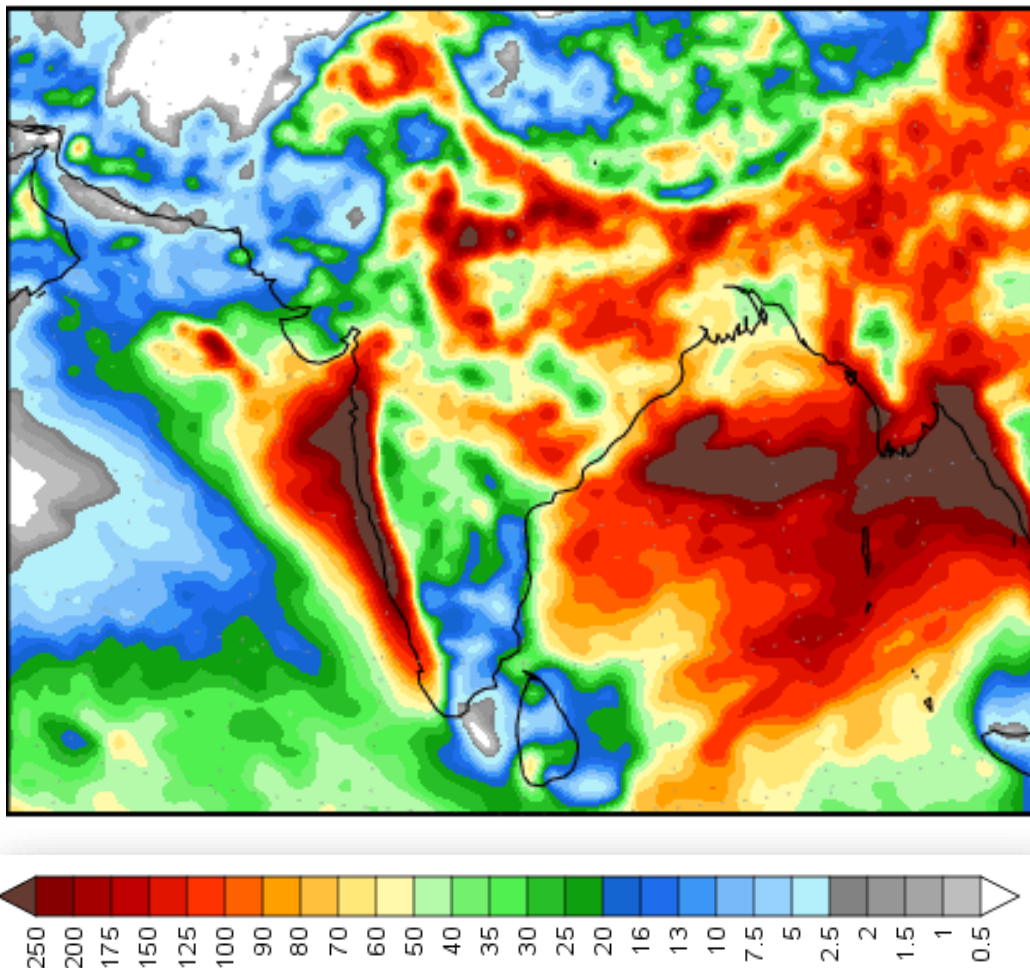


Figure:2. Precipitation forecast for 15 Jul to 23 Jul 2021 (Source: NOAA NCEP).

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.