

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

**Daily Crop Weather Information as on 19 Jun 2021**

**Attention: Rajiv Maheshwari, OSD, ICAR**

**Significant Weather Features (IMD)**

- Southwest monsoon has further advanced into remaining parts of north Arabian Sea, Saurashtra, Gujarat region & Madhya Pradesh, entire Kutch, some more parts of Rajasthan and west Uttar Pradesh today, the 19th June 2021.
- The northern Limit of southwest monsoon (NLM) now passes through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar as on today, the 19th June 2021.
- Further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab is likely to be slow as large scale features are not favourable and the forecast wind pattern by the numerical models do not indicate any favourable condition for sustained rainfall over the region during the forecast period.
- Under the influence of a Low pressure area over southeast Uttar Pradesh and a cyclonic circulation over Bangladesh; fairly widespread to widespread rainfall with isolated heavy falls very likely over Bihar, Jharkhand, West Bengal & Sikkim, East Uttar Pradesh, Madhya Pradesh, Chhattisgarh during next 2 days. Isolated very heavy rainfall also likely over East Uttar Pradesh on 19th & 20th; Madhya Pradesh and Gangetic West Bengal on 19th and Sub-Himalayan West Bengal & Sikkim on 20th June, 2021.
- A cyclonic circulation in lower and mid tropospheric levels lies over southwest Rajasthan tilting southwestwards with height and also an offshore trough runs from south Maharashtra to north Kerala coast. Under the influence of these systems; fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Konkan & Goa, Gujarat State, Coastal & South Interior Karnataka and Madhya Maharashtra during next 2 days.
- A Western Disturbance as a trough runs roughly along Long. 72°E to the north of Lat. 25°N. Under its influence and monsoonal easterlies; fairly widespread to widespread rainfall likely over Uttarakhand and West Uttar Pradesh during next 2 days. Isolated heavy to very heavy falls over Uttarakhand and West Uttar Pradesh on 19th, June, 2021.

- Moderate to severe thunderstorms accompanied by frequent cloud to ground lightning very likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Bihar and Jharkhand on 19th & 20th June, 2021. 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 Uttarakhand, East Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal & North Interior Karnataka; at many places over West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Odisha, Arunachal Pradesh, Assam & Meghalaya, Gujarat state, Madhya Maharashtra and Kerala & Mahe; at a few places over Rajasthan, Andaman & Nicobar Islands, Marathwada, South Interior Karnataka and Lakshadweep and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Heavy rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): heavy to very heavy rainfall at isolated places with isolated extremely heavy falls over Konkan & Goa; heavy to very heavy rainfall at isolated places over East Uttar Pradesh, West Madhya Pradesh, Gujarat State, Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over Uttarkhand, West Uttar Pradesh, Rajasthan, East Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, South Interior Karnataka and Kerala & Mahe.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over West Madhya Pradesh; at isolated places over Punjab, East Uttar Pradesh, Bihar, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Rajasthan, East Madhya Pradesh, Vidarbha, Odisha and Saurashtra & Kutch.
- Maximum Temperature Departures as on 18-06-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Arunachal Pradesh, Assam & Meghalaya Tamilnadu & Pudducherry and Kerala & Mahe; above normal (1.6°C to 3.0°C) at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Coastal Karnataka and Lakshadweep. They were markedly below normal (-5.1°C and less) at most places over Uttarakhand, Uttar Pradesh, Bihar,

Jharkhand and East Madhya Pradesh; at many places over Gangetic West Bengal; at a few places over Odisha and Gujarat Region and at isolated places over Himachal Pradesh and Chhattisgarh; appreciably below normal (-3.1°C to -5.0°C) at most places over Haryana, Chandigarh & Delhi and Vidarbha; at many places over Punjab; at a few places over Sub-Himalayan West Bengal & Sikkim, West Rajasthan and Madhya Maharashtra and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Saurashtra & Kutch and Telangana; below normal (- 1.6°C to -3.0°C) at most places over North Interior Karnataka; at a few places over East Rajasthan, West Madhya Pradesh, South Interior Karnataka and at isolated places over Marathwada, Coastal Andhra Pradesh & Yanam and Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.2°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 19-06-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamilnadu & Pudducherry and Lakshadweep. They are appreciably below normal (-3.1°C to -5.0°C) at most places over Jharkhand; at a few places over East Madhya Pradesh; at isolated places over East Rajasthan, Bihar and Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at most places over Gujarat Region; at many places over Uttar Pradesh and Coastal Karnataka; at a few places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa and Madhya Maharashtra; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, West Rajasthan, Saurashtra & Kutch and Telangana and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.4°C is reported at Seoni (East Madhya Pradesh) over the plains of the country.

#### **Weather Warning during the next 5 days (IMD)**

- 19 June (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Gangetic West Bengal, Gujarat state, Konkan & Goa, ghat areas of Madhya Maharashtra, Coastal & South Interior Karnataka and Heavy Rainfall at isolated places over Rajasthan, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, North Interior Karnataka and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated

places over West Uttar Pradesh; speed reaching 30-40 kmph at isolated places over Uttarakhand, East Uttar Pradesh, Rajasthan and Madhya Pradesh and with lightning at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally weather (wind speed reaching 40-50 gusting to 60 kmph) very likely over North & adjoining Central Bay of Bengal. Strong Winds (speed 45-55 kmph gusting to 65 kmph) over Southeast, Southwest, Westcentral & adjoining Eastcentral Arabian Sea and along & off Kerala-Karnataka-Goa-MaharashtraGujarat coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.

- 20 June (Day 2): Heavy to Very Heavy Rainfall very likely at isolated places over East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim and Konkan & Goa and Heavy Rainfall at isolated places over Uttarakhand, East Rajasthan, East Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Tripura, north Gujarat Region, Kutch, ghat areas of Madhya Maharashtra, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttar Pradesh, Uttarakhand and Madhya Pradesh and with lightning at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Rajasthan, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Winds (speed 45-55 kmph gusting to 65 kmph) very likely over Southeast, Southwest, Westcentral & adjoining Eastcentral Arabian Sea and along & off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 21 June (Day 3): Heavy Rainfall very likely at isolated places over Bihar, Konkan & Goa, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over East Uttar Pradesh and Andaman & Nicobar Islands and with lightning at isolated places over Uttarakhand, Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Telangana and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 45-55 kmph gusting to 65 kmph) very likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 22 June (Day 4): Heavy Rainfall likely at isolated places over Chhattisgarh, Bihar, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya and Tamilnadu,

Puducherry & Karaikal. Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Uttarakhand, Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 45-55 kmph gusting to 65 kmph) likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 23 June (Day 5): Heavy Rainfall likely at isolated places over Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) likely at isolated places over Andaman & Nicobar Islands and with lightning at isolated places over Punjab, Madhya Pradesh, Chhattisgarh, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 45-55 kmph gusting to 65 kmph) likely over Southwest, Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 19 Jun to 27 Jun 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)

### **Tamil nadu**

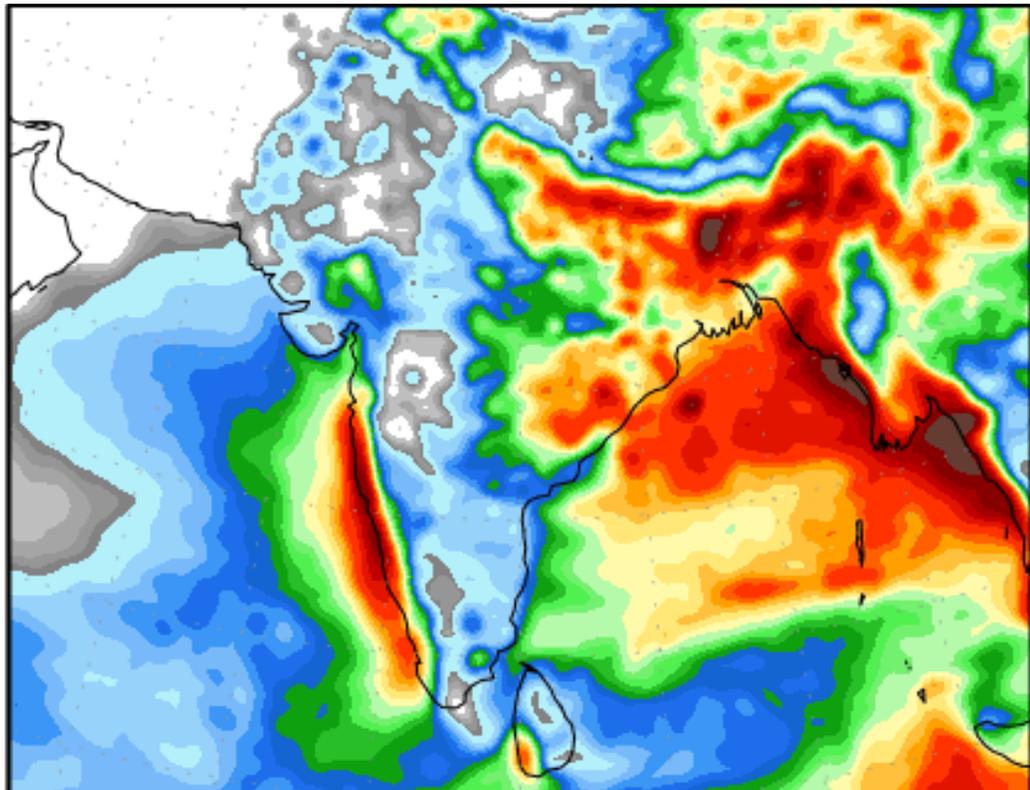
#### **Weather condition:**

Maximum temperature: 36.5°C (normal 37.5°C), minimum temperature: 26.5°C (normal 24.8°C), rainfall: 0.0 mm (normal 0.8 mm). The maximum and minimum temperature were 1.0°C and 1.7°C below & With respect to daily rainfall, rainfall occurred at isolated places over Tamil Nadu on 11.06.2021, 12.06.2021, 14.06.2021, 15.06.2021 and 16.06.2021 at a few places over Tamil Nadu on 13.06.2021, during this week. → Minimum temperature range of 22°C - 30°C prevailed over the state except Kodaikanal and Uthagamandalam (10°C - 13°C) during the period under report. → Maximum temperature range of 30°C - 39°C prevailed over the state except Kodaikanal and Uthagamandalam (16°C - 22°C) during the period under report. → above normal respectively and rainfall was 0.8 mm below normal across the week.

#### **Contingency measure:**

- Weather - Light rain is also likely to occur at isolated places over Thoothukudi district of Tamilnadu on Day 3 (17.06.2021) and Day 4 (18.06.2021). Thunderstorm with Light to moderate rain is likely to occur at isolated places over Thoothukudi district of Tamilnadu on Day 5 (19.06.2021). 15-28 km/hr. wind speed is predicted for block level Irrigated crops -Water management- Irrigate the crops.
- Rice -Kar season -Southwest monsoon started hence, nursery for kar season may be proceed further.
- Dry land cultivation- Crop residue recycling -In order to improve the soil quality recycles the residues of harvested crops of maize, sorghum and pulses. Use rotovator or rotoslasher for cutting the residues into small pieces and incorporate them into the soil.
- Banana -Bunch development and harvest stage- High wind speed may damage the crop; hence farmers are requested to provide support to bunch (propping).





**Figure:2. Precipitation forecast for 19 Jun to 27 Jun 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.*