

# All India Coordinated Research Project on Agrometeorology

## CRIDA, Santoshnagar, Hyderabad – 500 059

### Daily Crop Weather Information as on 26 Jun 2021

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

#### Significant Weather Features (IMD)

- The northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar.
- Prevailing meteorological conditions, large scale atmospheric features and the forecast wind pattern by dynamical models suggest that no favourable conditions are likely to develop for further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab during next 7 days.
- Subdued rainfall activity is very likely to prevail over Northwest, Central & western parts of Peninsular India during next 5 days. However, Under the influence of strong moist southwesterly winds; fairly widespread to widespread rainfall very likely over West Bengal & Sikkim and northeastern states during next 5 days. Isolated heavy to very heavy rainfall very likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya during next 5 days; heavy rainfall at isolated places over Arunachal Pradesh on 29th & 30th; over Nagaland, Manipur, Mizoram & Tripura on 30th June, 2021.
- Subsequently, moist easterly winds are likely to pickup in strength, causing enhanced rainfall activity all along the foothills regions of north Bihar, north Uttar Pradesh, Uttarakhand and Himachal Pradesh around 01st & 02nd July leading to increased inflow into the rivers which originate over these regions.
- Under the influence of the cyclonic circulation over Jharkhand & neighbourhood, fairly widespread to widespread rainfall with isolated heavy falls and thunderstorm & lightning very likely over most parts of East & adjoining Central India (Bihar, Jharkhand, Chhattisgarh, Odisha) during next 24 hours.
- Moderate thunderstorms accompanied by frequent cloud to ground lightning very likely over Bihar, Jharkhand, Chhattisgarh, Odisha and Gangetic West Bengal 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 Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Konkan & Goa, Coastal Karnataka and Kerala & Mahe; at many places over Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, Madhya Maharashtra, Lakshadweep, Andaman & Nicobar Islands, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh and Coastal Andhra Pradesh & Yanam and at isolated places over West Rajasthan, West Uttar Pradesh, Marathwada, Telangana, Interior Karnataka, Rayalaseema, Odisha and Gujarat Region.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to Very Heavy Rainfall at isolated places over Bihar, West Bengal & Sikkim, Konkan & Goa and Assam & Meghalaya and Heavy Rainfall at isolated places over East Rajasthan, Andaman & Nicobar Islands and East Madhya Pradesh.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today): at a few places over Bihar, at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab, Uttarakhand, Uttar Pradesh, Rajasthan, Jharkhand, Chhattisgarh West Madhya Pradesh, Coastal Andhra Pradesh and Gangetic West Bengal.
- Maximum Temperature Departures as on 25-06-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Kerala & Mahe; at isolated places over Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Haryana, Chandigarh & Delhi and Coastal Karnataka; at a few places over Assam & Meghalaya, Gangetic West Bengal, Odisha and Coastal Andhra Pradesh & Yanam; at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Jharkhand, Andaman & Nicobar Islands, Telangana, South Interior Karnataka and Lakshadweep. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over East Uttar Pradesh, East Madhya Pradesh and Chhattisgarh; at isolated places over Konkan & Goa; below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh and Madhya Maharashtra; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Bihar, East Rajasthan and Vidarbha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.0°C was reported at Phalodi (West Rajasthan).

- Minimum Temperature Departures as on 26-06-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at isolated places over Odisha, Assam & Meghalaya and West Bengal & Sikkim. They are appreciably below normal (-3.0°C to -5.0°C) at a few places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh and Haryana, Chandigarh & Delhi and below normal (-1.6°C to -3.0°C) at most places over Punjab; at many places over East Uttar Pradesh; at a few places over Madhya Pradesh and at isolated places over Konkan & Goa, Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.4°C is reported at Bidar (North Interior Karnataka) over the plains of the country.

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

- 26 June (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over Bihar and Assam & Meghalaya; Heavy Rainfall at isolated places over East Uttar Pradesh, southeast Rajasthan, Jharkhand, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Chhattisgarh, Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Punjab, East Rajasthan and Andaman & Nicobar Islands and with lightning at isolated places over Himachal Pradesh, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Vidarbha, Chhattisgarh, Tamilnadu, Puducherry & Karaikal, North Interior Karnataka, Telangana and Coastal Andhra Pradesh & Yanam. Thunderstorm/Duststorm with gusty winds (speed 30-40 kmph) very likely at isolated places over West Rajasthan. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest, Westcentral and North Arabian Sea. Fishermen are advised not to venture into these areas.
- 27 June (Day 2): Heavy to Very Heavy Rainfall very likely at isolated places over Assam & Meghalaya; Heavy Rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Chhattisgarh, Tamilnadu, Puducherry & Karaikal, Telangana and Coastal Andhra Pradesh & Yanam. Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Uttarakhand, Punjab and East Rajasthan and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathawada, Tamilnadu, Puducherry & Karaikal,

Kerala & Mahe, North Interior Karnataka, Rayalaseema, Telangana and Coastal Andhra Pradesh & Yanam. Thunderstorm/Duststorm with gusty winds (speed 30-40 kmph) very likely at isolated places over West Rajasthan. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 28 June (Day 3): Heavy to Very Heavy Rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; Heavy Rainfall at isolated places over Jharkhand, Bihar, Assam & Meghalaya, Kerala & Mahe, Coastal Karnataka and Telangana. Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over East Rajasthan and with lightning at isolated places over East Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Coastal & South Interior Karnataka, Rayalaseema, Telangana and Coastal Andhra Pradesh & Yanam. Strong Winds (speed 40-50 kmph gusting to 60 kmph) over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 29 June (Day 4): Heavy to Very Heavy Rainfall likely at isolated places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim and Heavy Rainfall at isolated places over Gangetic West Bengal, Jharkhand, Bihar, Arunachal Pradesh, Coastal & South Interior Karnataka and Kerala & Mahe. Thunderstorm with lightning likely at isolated places over East Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Kerala & Mahe, Coastal & South Interior Karnataka, Lakshadweep, Telangana and Coastal Andhra Pradesh & Yanam. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral and North Arabian Sea. Fishermen are advised not to venture into these areas.
- 30 June (Day 5): Heavy to very heavy Rainfall with extremely heavy falls at isolated places likely over Sub-Himalayan West Bengal & Sikkim; heavy to very heavy rainfall at isolated places over Bihar and Assam & Meghalaya and heavy rainfall at isolated places over Gangetic West Bengal, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Kerala & Mahe and Coastal & South Interior Karnataka. Thunderstorm with lightning & gusty winds (speed 30-40 kmph) likely at isolated places over Uttarakhand and with lightning at isolated places over East Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Kerala & Mahe, Coastal & South Interior Karnataka, Lakshadweep, Telangana and Coastal Andhra Pradesh & Yanam. Strong Winds

(speed 40-50 kmph gusting to 60 kmph) likely over Southwest, Westcentral and North Arabian Sea. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 26 Jun to 04 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)

### Assam

#### Weather condition:

Weather during the last week was mainly clear to partly cloudy. Daily average maximum temperature was 33.0°C which was 0.7°C above normal and the average daily minimum temperature was 25.0°C which was 0.1°C above normal for the week. Total BSSH was 33.3hrs with an average of 5.5hrs/day. The daily average evaporation rate was 3.0 mm/day and the average daily wind speed during the week was 2.3 kmph. Daily average RH during morning and afternoon hour was 96% and 73%, respectively.

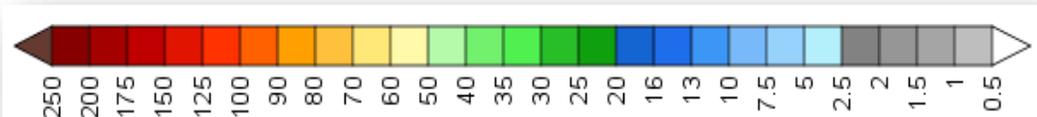
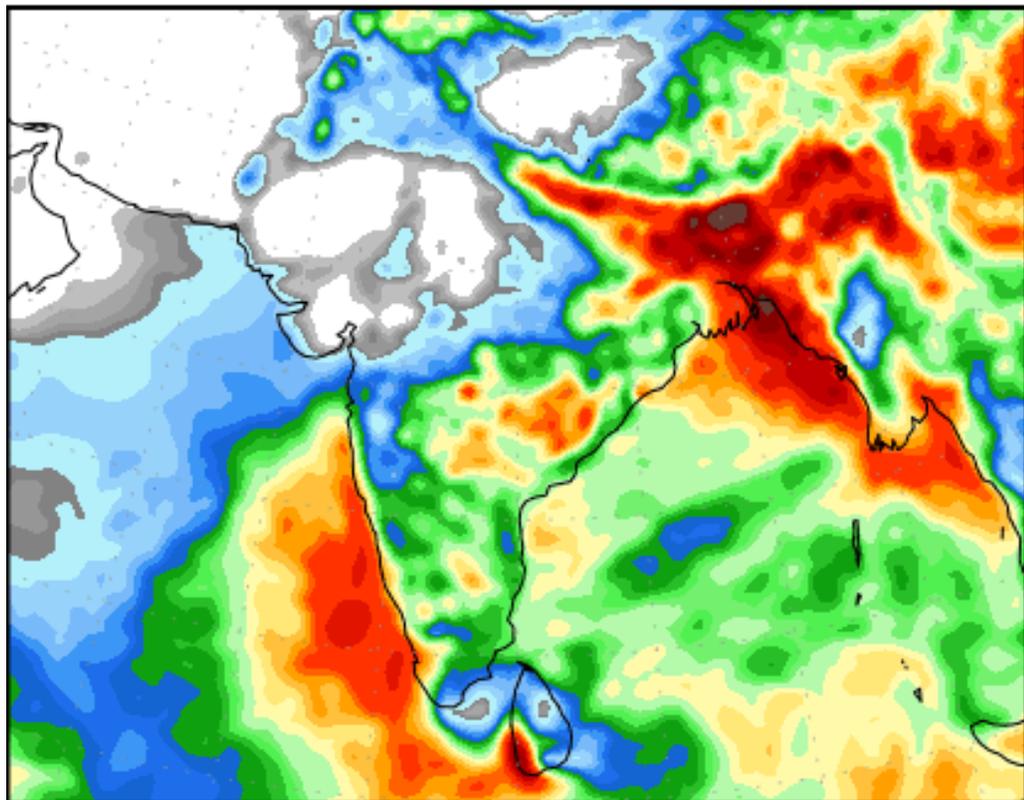
#### Contingency measure:

- Sali rice (Nursery preparation): Farmers may continue main field preparation by thoroughly ploughing the field 4 to 5 times followed by harrowing and laddering. Apply FYM or compost @ 13 quintals in per bigha land and mix thoroughly. To control infestation of stem borers in the sali rice seedlings in nursery bed, spray Fipronil @ 7.5 ml per 10 lit of water under fair weather condition.
- Kharif Maize (Vegetative stage): Infestation of stem borer may be observed in kharif maize. To control the pest, apply fenitrothion 50EC solution prepared by mixing 1.0 lit chemical in 200-250 litres of water for spraying in 7.5 bigha land. Alternatively, Endosulfan 1.5 lit/ha should be sprayed with the same volume of water. Light hoeing and earthing up should be done as and when necessary. Maintain adequate drainage channel of 25cm width, 15 cm deep at 6m distance to drain put excess amount of rain water from crop field.
- Citrus (Fruiting stage): Proper sanitation along with disposal of fallen fruits will reduce the infestation of the sucking pests like Fruit Sucking Moth in citrus. Baiting with pesticides Emmamectin Benzoate or Flubendiamide mixed with molasses (1%) and fruit juice helps in controlling the pest. Maintain proper drainage channel in citrus orchard to drain out excess amount of water.
- Summer vegetables (land preparation & sowing): For late summer cultivation of bitter gourd crop, select varieties like monsoon monarch, long green monsoon or Coimbatore long. Well drained sandy loam soil rich in organic matter with pH 6.0-7.0 is beneficial for this crop. To sow in one bigha land a seed rate of 600-700g is necessary to sow in a spacing of 1.5m x 60cm or 2.5m x 1.2m. Apply 3kg Urea, 25kg SSP and 6kg MOP along with 13 quintal of FYM as basal dose.
- Sesamum (Land preparation): Initiate land preparation for sesamum cultivation. Make provisions for small drains at regular interval to drain out excess amount

of rain water from the crop field during this rainy season. Select recommended varieties like ST 1683, Punjab Til No. 1, AST-1 etc. to obtain higher yield.

- Livestock (Various): To protect the goats and sheep from Contagious Ecthyma disease, immunize them at 6-8 weeks of age with vaccines after proper consultation with a veterinary doctor. Furthermore, in consultation with local veterinarian, care should be taken to provide proper de-worming medicine along with mixtures of essential body salts so as to cure the farm animals from appetite loss disorders.
- Fishery (various): As sufficient amount of water has found to be accumulated in inland pond under fisheries, stocking with fingerlings or carried over seeds of 15 cm size @ 5000 per hectare of water surface may be advocated. For composite fish farming, stocking density for different species per ha area are: Rahu 750 Nos., Silver carp 1000 Nos., Catla 750 Nos., Grass carp 500 Nos., Mrigal 1000 Nos., and Common carp 1000 Nos.





**Figure:2. Precipitation forecast for 26 Jun to 04 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.*