

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 02 June 2021**

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

#### **Significant Weather Features (IMD)**

- The northern limit of Southwest Monsoon continues to pass through 5°N/72°E, 6°N/75°E, 8°N/80°E, 12°N/85°E, 14°N/90°E and 17°N/94°E.
- The spatial rainfall distribution has increased over Kerala. Westerly winds have strengthened in the lower levels over the south Arabian Sea and deepened. As per satellite imagery, there is increase in cloudiness over Kerala coast and adjoining southeast Arabian Sea. The above conditions likely to favor in further enhancement in rainfall activity over Kerala during next 24-hours. Hence, the monsoon onset over Kerala is likely to take place during the same period.
- Due to strengthening of lower level southwesterly winds, widespread rainfall activity very likely over Northeastern states during next 5 days. Isolated heavy rainfall very likely over Arunachal Pradesh during 04th-06th; Assam & Meghalaya during 02nd-04th and Nagaland, Manipur, Mizoram & Tripura on 02nd, 05th & 06th. Isolated heavy to very heavy rainfall also very likely over Assam & Meghalaya on 05th & 06th June.
- The Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along longitude 80°E to the north of latitude 25°N. Under its influence, isolated to scattered rainfall accompanied with thunderstorm, lightning and gusty winds very likely over parts of Western Himalayan Region & adjoining plains of Northwest India during next 3-4 days.
- Under the influence of a trough at mean sea level off Karnataka-Kerala coasts and strengthening of westerly wind in lower tropospheric levels; scattered to widespread rainfall accompanied with thunderstorm, lightning and gusty winds and isolated heavy rainfall very likely over parts of south Peninsular India during next 3 days (02nd-04th June).
- 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 West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Chhattisgarh, Bihar, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Coastal Karnataka and Kerala & Mahe; at a few places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Jharkhand, Odisha, Interior Karnataka and Lakshadweep and at isolated places over Himachal Pradesh, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, West Madhya Pradesh, Andaman & Nicobar Islands, Gujarat Region, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, 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 over SubHimalayan West Bengal & Sikkim and Assam & Meghalaya and Heavy Rainfall at isolated places over East Uttar Pradesh, Gangetic West Bengal, Odisha, Konkan & Goa and Rayalaseema.
- Thunderstorm/Hailstorm/Thundersquall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Thunderstorm at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad and at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, East Uttar Pradesh, East Madhya Pradesh, Bihar, West Bengal & Sikkim, Jharkhand, Chhattisgarh, Odisha, Telangana, Maharashtra, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Tripura. Hailstorm at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad. Thundersquall at isolated places over Punjab.
- Maximum Temperature Departures as on 01-06-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe. They were markedly below normal ( -5.1°C and more) at most places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh; at many places over Vidarbha and at isolated places over West Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at most places over Uttarakhand and Bihar, at many places over East Rajasthan, East Madhya Pradesh and Chhattisgarh and at isolated places over Gangetic West Bengal and Gujarat region; below normal (-1.6°C to -3.0°C) at most places over Assam & Meghalaya, Jharkhand, Marathawada and North Interior Karnataka ; at many

places over Sub-Himalayan West Bengal & Sikkim; at a few places over Andaman & Nicobar Islands, Odisha, Telangana, West Madhya Pradesh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.4°C was reported at Agra (West Uttar Pradesh ) over the country.

- Minimum Temperature Departures as on 02-06-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at isolated places over West Rajasthan, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. They are markedly below normal (-5.1°C and more) at a few places over Haryana, Chandigarh & Delhi; at isolated places over East Rajasthan and Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over East Uttar Pradesh, Jharkhand and Telangana; at a few places over Bihar, Vidarbha, Marathwada and Odisha; at isolated places over West Uttar Pradesh and Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh; at a few places over Coastal Karnataka; at isolated places over Konkan & Goa and near normal over rest of the country. Today, the lowest minimum temperature of 17.8°C is reported at Sikar (East Rajasthan) over the plains of the country.

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

- 02 June (Day 1):Thunderstorm with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over West Madhya Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand and Telangana and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan. Heavy to Very Heavy Rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Heavy Rainfall at isolated places over Chhattisgarh, Odisha, Assam &

Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian Sea and with wind speed 40-50 kmph over Eastcentral Arabian Sea and Gulf of Mannar & Comorin area. Fishermen are advised not to venture into these areas.

- 03 June (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Jharkhand and Telangana and with lightning at isolated places over Himachal Pradesh, Uttarakhand, Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Thunderstorm/Duststorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan. Heavy Rainfall at isolated places very likely over Odisha, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian Sea and with wind speed 40-50 kmph over Eastcentral Arabian Sea and Gulf of Mannar & Comorin area. Fishermen are advised not to venture into these areas.
- 04 June (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over East Rajasthan; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over West Rajasthan, Jharkhand and Telangana and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat state, Madhya Maharashtra, Marathwada, Konkan & Goa, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy Rainfall at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Madhya Maharashtra, Konkan & Goa, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Strong Wind (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian Sea and with wind speed 40-50 kmph over Gulf of Mannar & Comorin area. Fishermen are advised not to venture into these areas.

- 05 June (Day 4): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Rajasthan and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Konkan & Goa, Telangana and Tamil Nadu, Puducherry & Karaikal. Heavy to Very Heavy Rainfall at isolated places likely over Assam & Meghalaya and Heavy Rainfall at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Tamil Nadu, Puducherry & Karaikal. Strong Wind (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian Sea and with wind speed 40-50 kmph over Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these areas.
- 06 June (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over East Rajasthan and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat state, Konkan & Goa, Telangana and Tamil Nadu, Puducherry & Karaikal. 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. Strong Wind (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 02 Jun to 10 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)**

### **Assam**

#### **Weather condition:**

Weather during the last week was mainly cloudy. Daily average maximum temperature was 28.8°C which was 2.4°C below normal and the average daily minimum temperature was 24.2°C which was 2.3°C below normal for the week. Total BSSH was 33.5 hrs with an average of 5.5 hrs/day. The daily average evaporation rate was 2.9 mm/day and the average daily wind speed during the week was 2.4 kmph. Daily average RH during morning and afternoon hour was 90.5% and 68.2% respectively.

#### **Contingency measure:**

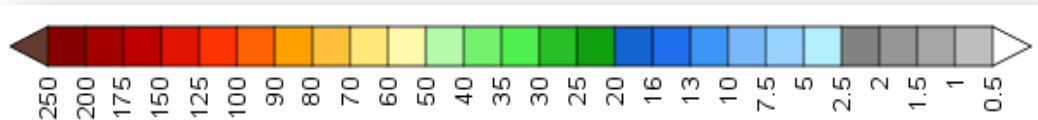
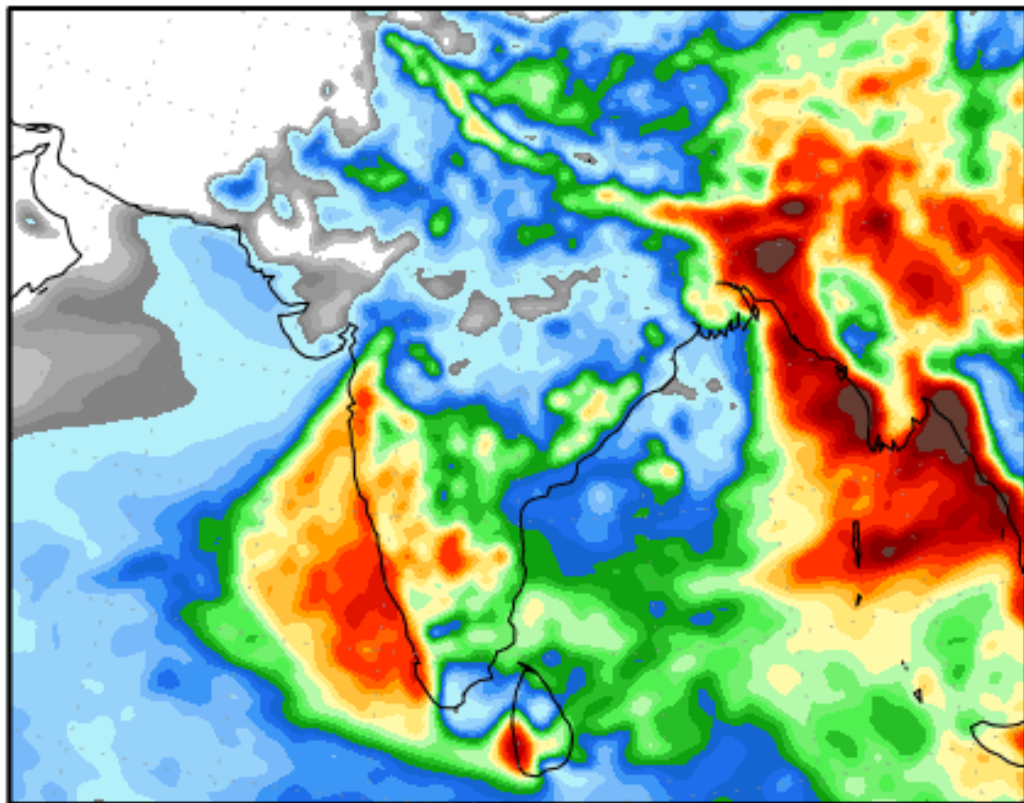
- Sali rice (Nursery preparation):- Taking advantage of pre-monsoon rainfall received during the past week and also the anticipated rainfall amount in the coming 5 days, farmers can start nursery bed preparation for sowing of Sali rice seeds. The nursery beds should be of 10m long and 1.25m wide prepared in levelled well-puddled soil and the distance between the beds should be about 30 cm. About 6-7 such beds will be required to transplant one bigha of land and a recommended quantity of 650g to 1 kg of seeds should be sown in each bed. Prior to sowing, 20Kg FYM, 80gm Urea, 80gm SSP and 40gm MOP should be thoroughly incorporated in each of the beds. Collect seeds of recommended Sali rice varieties viz., Ranjit, Ranjit Sub 1, Bahadur, Satyaranjan, Basundhara, Mahsuri, Ketekijoha etc. for obtaining higher yield. Select varieties like Satyaranjan and Basundhara, having crop duration of 130-135 days, in double cropping areas. Select water submergent tolerant rice varieties such as Jalashree, Jalkunwari, Ranjit Sub-1, Swarna Sub-1, etc. in chronically flood affected areas.
- Citrus (Planting):- May to August month is the suitable time for planting of cuttings of citrus in main field. Farmers are suggested to make provisions for transplanting of citrus cuttings (stem/leaf-bud/air layering) in the main field before onset of monsoon by making pits of size 0.5m x 0.5m dug at a spacing of 3m x 3m. Prior to transplanting refill the pits with soil-manure mixture (1:1) and allow it to settle for few days.
- Vegetable orchard (various):- Make provisions for small drains at required interval in the orchards to drain out excess water. Harvest the matured vegetables and fruits as early as possible. Provide mechanical support to the crops like banana, citrus, papaya etc. to protect them from lodging. Proper sanitation will reduce the infestation of borers and suckers in the vegetable orchards. Destroy the infested fruits whenever came into notice. Burning of dried leaves mixed with dried chilli near the infested orchards will control the pest up to certain extent. Withhold spraying of pesticides during cloudy weather.
- Colocasia (Planting):- April to June is the best planting time for Assam for colocasia as the crop receives sufficient rainfall due to monsoon shower. The best soil is sandy loam or alluvial with abundant organic matter. The land should be ploughed 2-3 times after applying adequate amount of organic manure and wood ash. Small corms or setts cut from large corms may be selected as a planting material.
- 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. ? Fishery (various):- Farmers engaged in

fish farming are advised to renovate their embankment before onset of monsoon and provide netting encircling the periphery of the pond so as to avoid escaping of fingerlings during flood.

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**Figure:2. Precipitation forecast for 02 Jun to 10 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.*