

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

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

### **Daily Crop Weather Information as on 23 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.
- 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 lower level wind convergence and monsoonal easterly and southeasterly wind and a trough in westerlies in middle tropospheric levels over the region; fairly widespread widespread rainfall very likely over Odisha, West Bengal & Sikkim, Jharkhand, Chhattisgarh and Bihar during next 5 days. Isolated Heavy rainfall also likely over Odisha and Sub Himalayan West Bengal & Sikkim during next 5 days; over Chhattisgarh during 23rd to 25th, over Gangetic West Bengal, southeast Uttar Pradesh, Madhya Pradesh and Jharkhand on 23rd, and over Bihar on 26th & 27th June, 2021. Isolated Very Heavy Rainfall also likely over Odisha on 25th and Chhattisgarh on 23rd, June, 2021.
- Under the influence of strengthening of moist southwesterly winds; fairly widespread to widespread rainfall is likely over Northeast India during next 5 days. Isolated heavy rainfall very likely over Assam, Meghalaya and Nagaland, Manipur, Tripura, Mizoram during next 5 days and over Arunachal Pradesh on 25th June, 2021.
- Moderate to severe thunderstorms accompanied by frequent cloud to ground lightning very likely over Chhattisgarh and Madhya Pradesh 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 Chhattisgarh, Arunachal Pradesh, Andaman & Nicobar Islands, Odisha, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Coastal Karnataka; at many places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Bihar , Jharkhand, East Madhya Pradesh and Vidarbha; at a few places over West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh and Kerala & Mahe and at isolated places over Rajasthan, Uttar Pradesh, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Saurashtra & Kutch, North Interior Karnataka, Marathwada, Tamil Nadu, Puducherry & Karaikal, Telangana and Rayalaseema.
- Heavy to very Heavy with isolated Extremely Heavy Rainfall observed at isolated places over Odisha and Heavy rainfall at isolated places over Madhya Pradesh, Saurashtra & Kutch, Chhattisgarh, Sub-Himalayan West Bengal, Arunachal Pradesh, Assam & Meghalaya, East Rajasthan, Andaman & Nicobar Islands and Telangana.
- Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today): at a few places over Chhattisgarh; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, East Rajasthan, Jharkhand, Madhya Pradesh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Kerala, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Vidarbha, Rayalseema, Tamilnadu, Puducherry & Karaikal, Telangana and Andaman & Nicobar Islands.
- Maximum Temperature Departures as on 22-06-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Arunachal Pradesh, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Punjab, Konkan & Goa and Kerala & Mahe; at a few places over Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Saurashtra & Kutch; at isolated places over Madhya Maharashtra and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Odisha; below normal (-1.6°C to -3.0°C) at many places over Gujarat region; at a few places over Bihar, East Uttar Pradesh, Madhya Pradesh and Gangetic West Bengal and near normal over rest parts of the country. Yesterday, The highest maximum temperature of 42.2°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 23-06-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at isolated places over Himachal Pradesh,

Uttarakhand, Punjab, South Interior Karnataka, Coastal Andhra Pradesh, Telangana and Rayalseema. They are below normal (-1.6°C to -3.0°C) at a few places over Odisha and Chhattisgarh; at isolated places over Jammu, Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, East Rajasthan, Gujarat Region, East Madhya Pradesh, Vidarbha, Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 19.4°C reported at Seoni (East Madhya Pradesh) over the plains of the country.

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

- 23 June (Day 1): Heavy to Very Heavy Rainfall very likely at isolated places over Chhattisgarh and Heavy Rainfall at isolated places over southeast Uttar Pradesh, Madhya Pradesh, Vidarbha, Jharkhand, Sub-Himalayan West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, north Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning & gusty winds (speed 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; with (speed 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttar Pradesh and Rajasthan and with lightning at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Squally Weather (speed 40-50 kmph) over Westcentral Bay of Bengal along & off Andhra Pradesh coast. Fishermen are advised not to venture into these areas.
- 24 June (Day 2): Heavy Rainfall very likely at isolated places over East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal, Odisha, Andaman & Nicobar Islands and Assam & Meghalaya. Thunderstorm with lightning & gusty winds (speed 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; with (speed 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan and with lightning at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Squally Weather (speed 40-50 kmph

gusting to 60 kmph) over Westcentral Bay of Bengal along & off Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

- 25 June (Day 3): Heavy to Very Heavy Rainfall very likely at isolated places over Odisha and Heavy Rainfall at isolated places over Chhattisgarh, Sub-Himalayan West Bengal, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab and Haryana, Chandigarh & Delhi and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Chattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. 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.
- 26 June (Day 4): Heavy Rainfall likely at isolated places over Bihar, Odisha, Sub-Himalayan West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning & gusty winds (speed 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Punjab and Haryana, Chandigarh & Delhi and with lightning at isolated places over Chattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 27 June (Day 5): Heavy Rainfall likely at isolated places over Bihar, Odisha, Sub-Himalayan West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning likely at isolated places over Chattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. Strong Winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 23 Jun to 01 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)

### **Konkan region**

#### **Weather condition:**

Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 0.0 to 3.4 Bright sunshine hours was recorded during last week. During last week 581.6 mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 25.8 to 30.5 and 21.9 to 23.7 oC respectively. Wind velocity ranged from 2.8 to 7.9 km and wind was blowing from south westerly Direction.

#### **Contingency measure:**

- Kharif rice:Apply 1 kg urea per guntha at 15 days after sowing of rice nursery during clear weather (no rainfall).As there is forecast for light rainfall during next five days. it is advise to go for transplanting of the rice by arranging water from nearby available external water source by repairing bunds in rice field. Prepare field for transplanting by puddling.Transplant rice seedling with 5 to 6 leaves with height of 12 to 15 cm and 20-21 days old seedling in case of early rice varieties. At the time of puddling apply 35 kg urea, 125 kg single super phosphate and 34 kg muriate of potash per hectare. If incorporation of 2 tonnes of glyricidia leaves per acre is done then reduce the dose of nitrogenous fertilizers to 50 percent.Transplant 2-3 rice seedlings per hill in case of straight varieties and one seedling per hill in case of hybrid at a spacing of 15 x 15 cm (early). follow upright and shallow (2.5 to 3.5 cm) transplanting of seedling.In SIRA method of rice cultivation, incorporate 2 to 3 glyricida plant leaves per guntha at the time of puddling. Transplant improved or hybrid rice seedlings at a controlled spacing (15-25 cms). place urea-DAP briquette at depth of 5 cms in between four hill
- Finger millet:Apply 1 kg urea per guntha at 15 days after sowing of finger millet nursery during clear weather (no rainfall).Perform the ploughing operation for land preparation for transplanted finger millet. Incorporate well decomposed FYM @60 kg / guntha into soil.
- Groundnut:As there is forecast for light rainfall during next five days, complete the sowing of groundnut crop.Groundnut varieties S.B. 11, T.A.G.-24, Phule pragati,Konkan gaurav, T.G. 26, Konkan Trombe Tapura @40-50 kg/acre are suitable for kharif groundnut. Before sowing, treat the seed with Thiram fungicide @3 gm/kg of seeds. After that treat the seed with Rhizobium @ 20 gms and Phosphate solubilizing bacteria biofertilizer @50 gms per kg of seed.

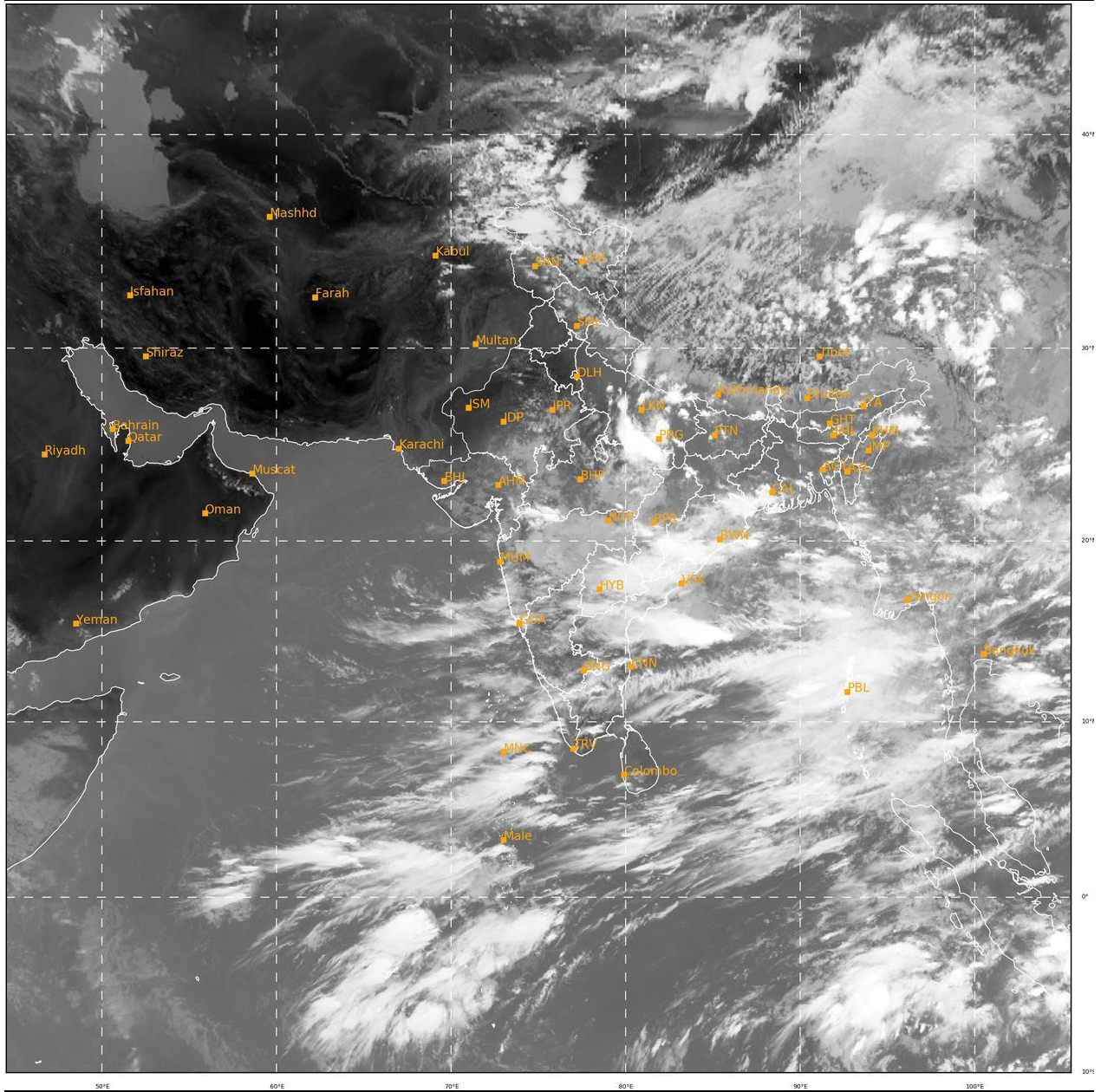
Carryout sowing by dibbling the seed at 30 X 15 cm spacing (for erect type) and at 45 X 15 cm spacing (for semi-spreading and spreading type) and 20 cm spacing for broad bed furrow of 80 cm width. Apply fertilizer dose of 22 kg urea, 125 kg SSP and 20 kg of MOP per acre at the time of sowing. For control of weeds in groundnut apply Butachlor @ 50 ml per 10 liter of water immediate after sowing on wet flatbed during clear weather.

- Mango:Due to cloudy rainy weather, there is possibility for incidence of anthracnose disease on new flush of mango. If incidence is noticed, spray 1% bordomixture or 0.25% copper oxychloride@ 25 gms or 0.1% carbendazim @ 10 gms per 10 liter of water during clear weather.
- Brinjal:Due to forecast for light rainfall during next five days, If Brinjal seedlings are of 4-6 weeks then transplant the seedlings on ridges and furrow with spacing of 60 X 60 cm. Apply fertilizer dose of 750 g of well decomposed FYM, 4 g urea, 11 g SSP and 3 g of MOP per plant at the time of transplanting. for protection of seedlings from incidence of little leaf disease, dip the seedling for 5 minute in Dimethoate solution @ 1ml per liter of water before transplanting.for protection of seedlings from wilt disease, mix 2 gms of Trichoderma with FYM per plant at the time of transplanting.For management of root knot nematode and fruit borer in Brinjal, chilli and tomato crop, plant the marigold crop as trap crop.
- Okra:Due to forecast for light rainfall during next five days, go for sowing of okra crop. carryout primary tillage operation. At the time of ploughing mix 150 kg of well decomposed FYM per guntha into soil. Sow the seed at a spacing of 60 x 60 cm. Apply 720 gms urea, 3.75 kg single super phosphate and 825 gms of muriate of potash per guntha.
- Cucurbitaceous crop:Proper support should be given to cucurbitaceous crops which are in growing stage.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

23-06-2021/(0800 to 0827) GMT  
23-06-2021/(1330 to 1357) IST

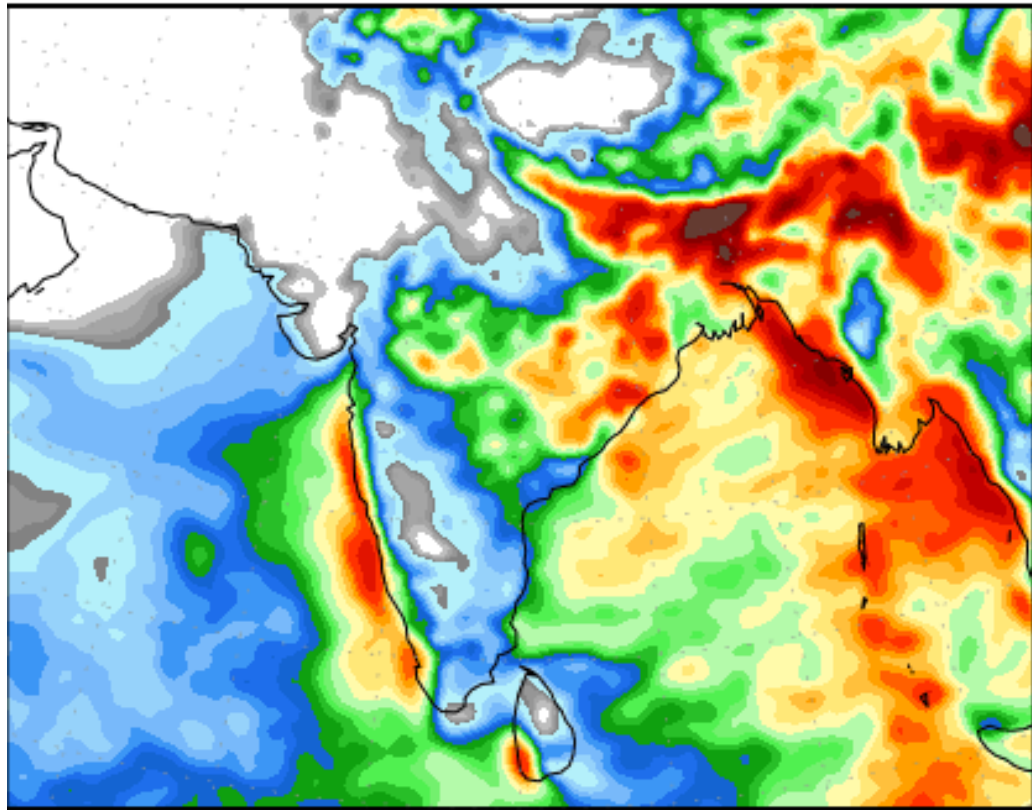


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 23 Jun 2021 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 23 Jun to 01 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.*