

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

**Daily Crop Weather Information as on 21 March 2022**

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

**Significant Weather Features (IMD)**

- The Deep Depression over north Andaman Sea and adjoining southeast Bay of Bengal, moved nearly northwards with a speed of 20 kmph during last 06 hours, and lay centered at 0830 hours IST of today, 21st March, over the same region, near latitude 12.3°N and longitude 93.8°E, about 140 km east-northeast of Port Blair (Andaman Islands), 120 km southeast of Mayabundar (Andaman Islands) and 560 km south-southwest of Yangon (Myanmar).
- It is likely to intensify further into a cyclonic storm during next 12 hrs. It would continue to move nearly northwards along & off Andaman Islands towards Myanmar coast during next 48 hrs and cross Myanmar coast between latitude 18°N & 19°N around Thandwe (Myanmar) during early hours of 23rd March.
- Rainfall Warning:
- 21st March: Light to moderate rainfall/thundershower at most places with heavy to very heavy rainfall at isolated places during next 12 hours is very likely over north Andaman Islands and heavy rainfall at isolated places over South Andaman Islands. Light to moderate rainfall at a few places is likely over Nicobar Islands.
- Fishermen Warning:
- Fishermen are advised not to venture
- Into southeast Bay of Bengal on 21st March.
- Into Andaman Sea and along & off Andaman and Nicobar Islands during 21st to 22nd March.
- Into eastcentral Bay of Bengal during 21st to 23rd March and into northeast Bay of Bengal on 22nd and 23rd March.
- Forecast & Warnings for other parts of the country:
- Under the influence of a fresh Western Disturbance, isolated rainfall/snowfall with isolated thunderstorm/lightning very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh during 23rd & 24th and over Utrakhhand on 24th March.

- Light isolated/scattered rainfall with thunderstorm/lightning very likely over Kerala & Mahe, Tamilnadu, Puducherry & Karaikal, Rayalaseema, Coastal Andhra Pradesh and Karnataka during next 5 days.
- Light to moderate scattered/fairly widespread rainfall with thunderstorm/lightning very likely over Northeast India during next 5 days. Isolated heavy rainfall also very likely over Arunachal Pradesh on 21st, 24th & 25th March, 2022.
- Heat Wave conditions very likely to prevail in isolated pockets over West Rajasthan and Jharkhand on 21st and over West Madhya Pradesh on 21st & 22nd March.
- The images showing the latest satellite picture in the figure. 1.

### **Main Weather Observations (IMD)**

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Andaman-Nicobar Islands; at a few places over Arunachal Pradesh and Sub-Himalayan West Bengal and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Jharkhand, Telangana, Coastal & South Interior Karnataka and Kerala & Mahe.
- Very heavy rainfall observed at isolated places over Andaman-Nicobar Islands and heavy rainfall at isolated places over Arunachal Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Sub-Himalayan West Bengal & Sikkim
- Heat Wave conditions observed: Heat Wave conditions prevailed at a few pockets over West Rajasthan and Heat wave at isolated pockets over Uttarakhand & West Madhya Pradesh.
- Maximum Temperature Departures (as on 20-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Himachal Pradesh, Haryana-Chandigarh & Delhi; at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Uttarakhand, West Rajasthan at a few places over Punjab at isolated places over East Rajasthan and West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over West Uttar Pradesh; at many places over East Uttar Pradesh, East Madhya Pradesh, Sub-Himalayan West Bengal and Assam & Meghalaya; at a few places over Bihar, Odisha and Jharkhand and at isolated places over Vidarbha and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) most places over Nagaland,

Manipur, Mizoram & Tripura; at many places over Gangetic West Bengal, Gujarat State, Marathwada and at isolated places over Madhya Maharashtra and Konkan & Goa. They were markedly above normal ( $-5.1^{\circ}\text{C}$  or more) at isolated places over Andaman & Nicobar Islands; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at a few places over Interior Karnataka and at isolated places over Kerala & Mahe, Telangana and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of  $42.2^{\circ}\text{C}$  was reported at Khargone (West Madhya Pradesh) over the country.
- Minimum Temperature Departures (as on 21-03-2022): Minimum temperatures are markedly above normal ( $5.1^{\circ}\text{C}$  or more) at many places over Punjab, Haryana-Chandigarh-Delhi, East Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh and West Rajasthan; at isolated places over East Rajasthan, Madhya Pradesh, Himachal Pradesh, Uttarakhand; appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at most places over Arunachal Pradesh, Assam & Meghalaya, Manipur, Sub-Himalayan West Bengal & Sikkim, Vidarbha, Telangana and Marathawada; at many places over Madhya Maharashtra and at isolated places over West Uttar Pradesh, Gujarat State, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Gangetic West Bengal, Rayalaseema and Coastal Karnataka; at a few places over Odisha and at isolated places over Konkan & Goa. They are below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at isolated places over Kerala & Mahe and Andaman & Nicobar Islands and near normal over rest parts of the country.
- Today, the lowest minimum temperature of  $16.0^{\circ}\text{C}$  reported at Bhilwara (East Rajasthan) over the plains of the country.

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

- 21 March (Day 1): Heavy to very heavy rainfall at isolated places very likely over north Andaman Islands and heavy rainfall at isolated places over South Andaman Islands. Light to moderate rainfall at a few places over Nicobar Islands and heavy rainfall at isolated places over Arunachal Pradesh. Squally winds speed reaching 55-65 kmph gusting to 75 kmph prevails over Andaman and Nicobar Islands, eastcentral Bay of Bengal and adjoining southeast Bay of Bengal. It would gradually increase becoming Gale winds speed reaching 65-75 kmph gusting to 85 kmph over the region from evening of today, 21st March. Fishermen are advised not to venture into these areas. Thunderstorm accompanied with lightning very likely at isolated places over Vidarbha, Chhattisgarh, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Heat wave conditions

very likely in isolated pockets over West Rajasthan, West Madhya Pradesh and Jharkhand.

- 22 March (Day 2): Gale winds speed reaching 65-75 kmph gusting to 85 kmph very likely to prevail over eastcentral Bay of Bengal and adjoining north Andaman Sea & along & off Myanmar coast. It is likely to weaken gradually becoming squally winds speed reaching 55-65 kmph gusting to 75 kmph over the same region from 22nd evening. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over north Andaman Islands and adjoining southeast Bay of Bengal, northeast Bay of Bengal and along & off southeast Bangladesh coast. Fishermen are advised not to venture into these areas. Thunderstorm accompanied with lightning very likely at isolated places over South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. ♦ Heat wave conditions very likely in isolated pockets over West Madhya Pradesh.
- 23 March (Day 3): Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe. Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely to prevail over eastcentral Bay of Bengal, adjoining northeast Bay of Bengal and along & off north Myanmar - southeast Bangladesh coasts till evening Fishermen are advised not to venture into these areas.
- 24 March (Day 4): Heavy rainfall at isolated places likely over Arunachal Pradesh. Thunderstorm accompanied with lightning likely at isolated places over Himachal Pradesh, Uttarakhand, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Arunachal Pradesh, Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura.
- 25 March (Day 5): Heavy rainfall at isolated places likely over Arunachal Pradesh. Thunderstorm accompanied with lightning likely at isolated places over Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Arunachal Pradesh, Assam-Meghalaya and Nagaland-Manipur-Mizoram-Tripura.
- The weather outlook for seven days i.e., 21 Mar to 29 Mar 2022 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:

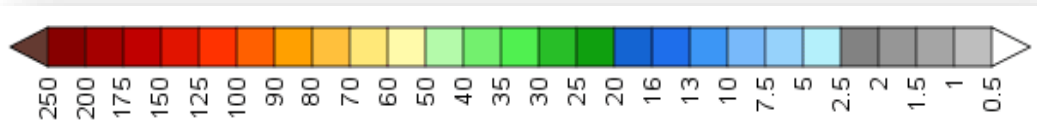
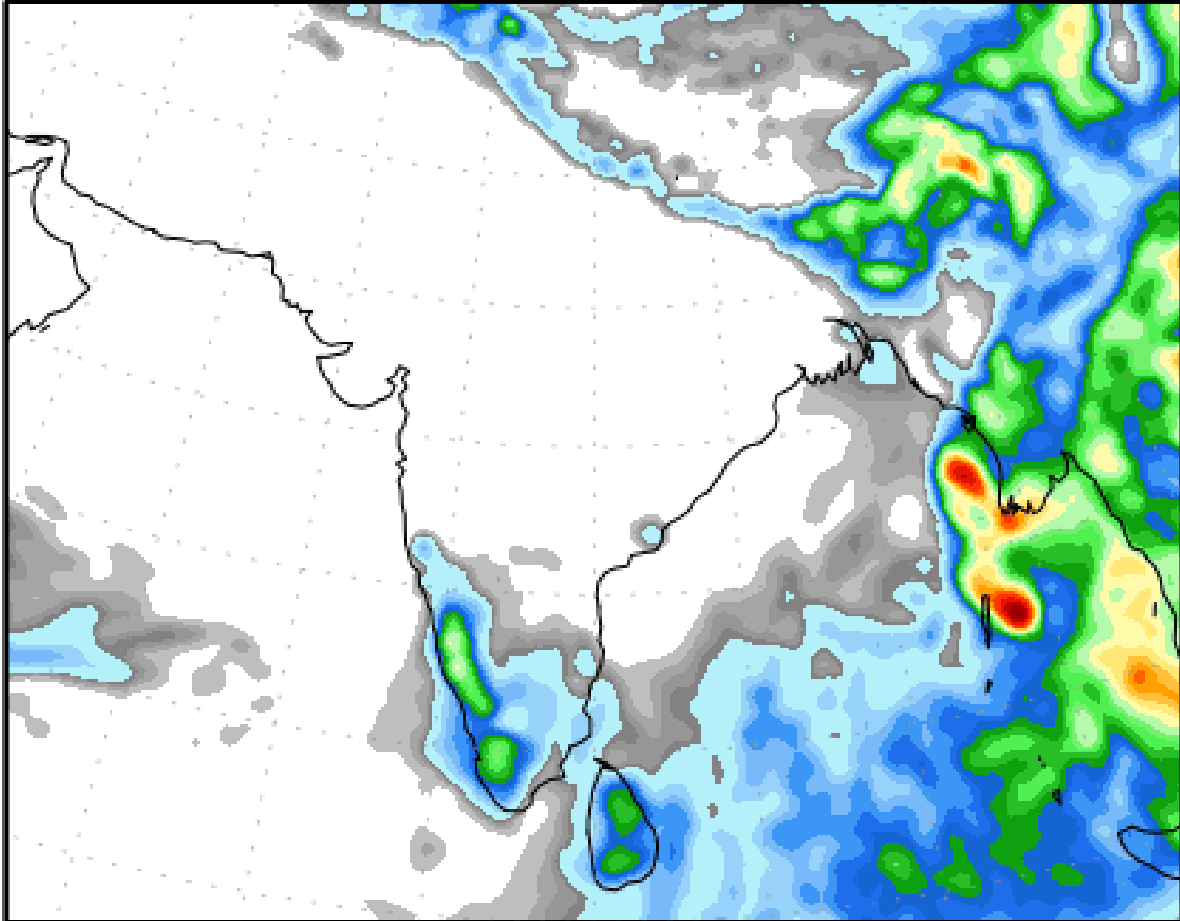
Weather during the last week was mainly clear. Daily average maximum temperature was 33.1 which was 6.1 above normal and the average daily minimum temperature was 15.6 which was 0.1 below normal for the week. Total BSSH was 38.5 hrs with an average of 7.7 hrs. The daily average evaporation rate was 2.7 mm/day and the average daily wind speed during the week was 1.1 kmph. Daily average RH during morning and afternoon hour was 96.8% and 41.6%, respectively.

#### Contingency measure:

- Ahu rice (transplanted) (Nursery stage): Spraying of Chlorantraniliprole 20 SC (@ 3 ml per 10 lit of water) or Fipronil 5 SC (@ 15-20 ml per 10 lit of water) is advocated to control pests like thrips, stem borers, leaf & plant hoppers in seedlings (at nursery) of transplanted ahu rice. Alternatively, farmers can go for spraying of Thiamethoxam 25 WG (@ 2.0-2.5 g per 10 lit of water).
- Maize (Land preparation): Land preparation for maize cultivation may be started. Recommended hybrid varieties like Ganga 5, Vivek Maize Hybrid 47, Vivek Maize Hybrid 53, Bio 9544 etc. or composite varieties like Dhawal, Navjot etc must be collected. During final land preparation, apply 7 quintals of FYM per bigha of land.
- Coconut (Selection of seedlings): One year old seedling should be planted. The seedlings having 5-6 leaves or just after splitting of leaves become ready for planting. The seedlings should have stout collar. Planting Distance : 7.5 m x 7.5 m ; Pit size : 1 m x 1 m x 1 m Time of Planting: March-April under high land condition Pit filling: Pit should be filled up with mixture of top soil, 20 kg compost or dried cowdung and 100g of 5% malathion dust up to 2/3rd of pit. Fertilizer dose: Per palm per year for bearing plants(Improved varieties) Urea:1.50 kg, SSP: 2.50 kg, MOP: 1.75 Kg & Borax 25 gram. The fertilizer should be applied in two equal split doses, i.e. in April and October.
- Chilli (Fruiting): To control Fruit rot or Anthracnose disease in chilli, spray Chlorothalonil @ 2g or Azoxystrobin @ 1 ml per litre of water.
- Papaya (Various): Regularly monitor the papaya crop from possible attack of mealy bugs. Removal and burning of infested parts/plants and destruction of ant colonies in the vicinity of the plantation restricts the spread of mealy bugs. The pest can be controlled by spot spraying of Neem oil (1 to 2%) or Imidacloprid 17.8 SL @ 3.5 ml per 10 lit or Profenophos 50EC @ 2.0 ml per 10 lit of water.

- Fishery (Pond preparation): Fish rearers are advised to prepare the ponds for new batch of fishes. Dry up the bottom of the ponds for 15-20 days and remove the upper layer of the bottom soil followed by ploughing and addition of lime. After 7-15 days of application of lime, add cow dung and other fertilizers after proper consultation with fishery extension officer.





**Figure:2. Precipitation forecast for 21 Mar to 29 Mar 2022 (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.*