

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

**Daily Crop Weather Information as on 07 May 2022**

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

**Significant Weather Features (IMD)**

- Rise in maximum temperatures by 2-4°C very likely over most parts of Northwest & Central India during next 3 days and no significant change thereafter.
- Heat Wave conditions in isolated pockets likely over Vidarbha during 07th-11th and West Rajasthan during 08th-11th; south Haryana & East Rajasthan during 09th -11th; West Madhya Pradesh on 08th & 09th and south Punjab & Jammu Division on 10th & 11th May, 2022.
- Yesterday's Low Pressure Area over South Andaman Sea & adjoining Southeast Bay of Bengal now lies as a Well Marked Low Pressure Area over Southeast Bay of Bengal and adjoining South Andaman Sea. It is very likely to move northwestwards and intensify into a Depression over southeast Bay of Bengal during next 3 hours and further into a Cyclonic Storm over eastcentral Bay of Bengal on 8th May. It is very likely to continue to move northwestwards till 10th May evening and reach Westcentral and adjoining Northwest Bay of Bengal off North Andhra Pradesh & Odisha coasts. Thereafter, it is very likely to recurve north-northeastwards and move towards Northwest Bay of Bengal off Odisha coast. Under its influence;
  - (i) Rainfall: 7th May: Rainfall at most places with heavy rainfall at isolated places very likely over Andaman & Nicobar Islands. 10th May: Light to moderate rainfall likely at a few places with heavy rainfall at isolated places over coastal Odisha and adjoining areas of north coastal Andhra Pradesh from 10th evening. 11th May: Rainfall at a few places with heavy rainfall at isolated places likely over coastal Odisha and adjoining coastal areas of north Andhra Pradesh and West Bengal.
  - (ii) Wind warning:
    - 7th May: Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely to prevail over Andaman & Nicobar Islands, Andaman Sea and adjoining Southeast & Eastcentral Bay of Bengal.
    - 8th May: Squally wind speed reaching 55-65 kmph gusting to 75 kmph is likely to prevail over Southeast & adjoining Eastcentral Bay of Bengal and would

gradually increase becoming gale wind speed reaching 65-75 gusting to 85 kmph over the same region from 8th May evening. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Andaman Sea and Andaman & Nicobar Islands.

- 9th May: Gale wind speed reaching 65-75 kmph gusting to 85 kmph is likely to prevail over central parts of Bay of Bengal.
- 10th May: Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely to prevail around the system center over Westcentral and adjoining Northwest & Eastcentral Bay of Bengal. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over coastal districts of north Andhra Pradesh.
- 11th May: Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over northwest and adjoining Westcentral Bay of Bengal. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over coastal districts of coastal Odisha and adjoining coastal north Andhra Pradesh.
- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/thundershower observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at most places over Sub-Himalayan West Bengal-Sikkim and Andaman-Nicobar Islands, at many places over Coastal & South Interior Karnataka Jammu-Kashmir-LadakhGilgit-Baltistan-Muzaffarabad, , Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala-Mahe; at a few places over AssamMeghalaya and Coastal Andhra Pradesh & Yanam and at isolated places over Himachal Pradesh, West Uttar Pradesh, East Rajasthan, Jharkhand, Odisha, Chhattisgarh, North Interior Karnataka and Lakshadweep.
- Today, Very Heavy rainfall observed at isolated places over Andaman-Nicobar Islands and Heavy rainfall at at isolated places over Sub-Himalayan West Bengal-Sikkim, Coastal Andhra Pradesh and Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Himachal Pradesh and at isolated places over Jammu & Kashmir, Rajasthan, Chhattisgarh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Tripura, Odisha, Tamilnadu, Rayalaseema,Coastal Andhra Pradesh & Yanam and Karnataka.
- Maximum Temperature Departures (as on 06-05-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many paces over Assam & Meghalaya and Arunachal Pradesh and at isolated places over Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at most places over

Vidarbha; at a few places over Madhya Maharashtra & Coastal Karnataka and at isolated places over Saurashtra & Kutch, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Rayalaseema. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Andaman & Nicobar Islands; below Normal (-1.6°C to -3.0°C) at many places over Bihar, Gangetic West Bengal and North Interior Karnataka; at a few places over Odisha and Kerala & Mahe and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Rajasthan and East Uttar Pradesh and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 45.2°C was reported at Chandrapur (Vidarbha).
- Minimum Temperature Departures (as on 07-05-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at a most places over Marathwada; at a many places over Gujarat Region; at a few places over West Rajasthan & Madhya Pradesh and at isolated places over Punjab, Haryana, West Uttar Pradesh, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Vidarbha, Madhya Maharashtra, Telangana and Odisha. They are appreciably below normal (-3.1°C to -5.0°C) at a many places over Gangetic West Bengal and at a few places over Odisha; below normal (-1.6°C to -3.0°C) at isolated places over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Gangetic West Bengal and Madhya Maharashtra and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 20.6°C is reported at Meerut (West Uttar Pradesh) over the plains of the country.

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

- 07 May (Day 1): Thundersquall accompanied with lightning/gusty winds (speed 50-60 kmph) at isolated places very likely over Andaman-Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Coastal Andhra Pradesh-Yanam, Rayalaseema, South Interior Karnataka and Kerala-Mahe and with lightning at isolated places over Uttarakhand, Jharkhand, Odisha, West Bengal-Sikkim, Arunachal Pradesh, Coastal Karnataka and Tamilnadu-Puducherry-Karaikal. Heavy rainfall at isolated places very likely over Andaman-Nicobar Islands. Heat wave conditions in isolated pockets very likely over Vidarbha. Squally wind speed reaching 45-55 kmph gusting to 65 kmph is very likely to prevail over Andaman & Nicobar Islands, Andaman Sea and adjoining Southeast & Eastcentral Bay of Bengal. Sea condition is very likely to become rough to very

rough over Andaman Sea and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

- 08 May (Day 2): Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places very likely over Andaman-Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Kerala-Mahe and with lightning at isolated places over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Coastal Andhra Pradesh-Yanam, Rayalaseema, Coastal & South Interior Karnataka and Tamilnadu-Puducherry-Karaikal. Heat wave conditions in isolated pockets very likely over West Rajasthan, West Madhya Pradesh and Vidarbha. Squally wind speed reaching 55-65 kmph gusting to 75 kmph is likely to prevail over Southeast & adjoining Eastcentral Bay of Bengal and would gradually increase becoming gale wind speed reaching 65-75 gusting to 85 kmph over the same region from 8th May evening. Squally wind speed reaching 40- 50 kmph gusting to 60 kmph is likely to prevail over Andaman Sea and Andaman & Nicobar Islands. Sea condition is very likely to become high over Southeast & adjoining Eastcentral Bay of Bengal. The sea condition over Andaman Sea would gradually improve becoming rough. Fishermen are advised not to venture into these areas.
- 09 May (Day 3): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places very likely over Kerala-Mahe and with lightning at isolated places over Gangetic West Bengal, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Coastal Andhra Pradesh-Yanam, Rayalaseema and Tamilnadu-Puducherry-Karaikal. Heavy rainfall at isolated places very likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and Tamilnadu-Puducherry-Karaikal. Heat wave conditions in isolated pockets very likely over south Haryana, Rajasthan, West Madhya Pradesh and Vidarbha. Gale wind speed reaching 65-75 kmph gusting to 85 kmph is very likely to prevail over central parts of Bay of Bengal. Sea condition is likely to become high over central parts of Bay of Bengal on 9th May and over Westcentral & adjoining Northwest and Eastcentral Bay of Bengal on 10th May. Fishermen are advised not to venture into these areas.
- 10 May (Day 4): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places likely over Sub-Himalayan West Bengal-Sikkim and Coastal Andhra Pradesh-Yanam and with lightning at isolated places over Uttarakhand, Gangetic West Bengal, Chhattisgarh-Rayalaseema and Kerala-Mahe. Heavy rainfall at isolated places likely over coastal Odisha, Arunachal Pradesh, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and north Coastal Andhra Pradesh-Yanam. Heat wave conditions in isolated pockets likely over

south Punjab, south Haryana, Rajasthan and Vidarbha. Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely to prevail around the system center over Westcentral and adjoining Northwest & Eastcentral Bay of Bengal. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over coastal districts of north Andhra Pradesh. Sea condition is likely to become high over central parts of Bay of Bengal on 9th May and over Westcentral & adjoining Northwest and Eastcentral Bay of Bengal on 10th May. Fishermen are advised not to venture into these areas.

- 11 May (Day 5): Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph) at isolated places likely over Jharkhand, Sub-Himalayan West Bengal-Sikkim and Coastal Andhra Pradesh-Yanam and with lightning at isolated places over Uttarakhand, Chhattisgarh, Gangetic West Bengal, Rayalaseema and Kerala-Mahe. Heavy rainfall at isolated places likely over coastal Odisha, Gangetic West Bengal, Arunachal Pradesh, Assam-Meghalaya and Nagaland-Manipur-Mizoram Tripura and Coastal Andhra Pradesh-Yanam. Heat wave conditions in isolated pockets likely over south Punjab, south Haryana, Rajasthan and Vidarbha. Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over northwest and adjoining Westcentral Bay of Bengal. Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely over coastal districts of Odisha and adjoining coastal north Andhra Pradesh. Sea condition is likely to become high over Northwest and adjoining Westcentral Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 07 May to 15 May 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)

### **Jharkhand**

#### **Weather condition:**

With the cloudy weather 6.0 mm rainfall has been received on this week. Daily maximum and minimum temperature ranged from 36.4 to 39.5 and 22.7 to 26.5 °C, respectively. Weekly maximum and minimum temperature were 37.3 and 24.8 °C against its normal value of 36.7 and 21.6 °C, respectively.

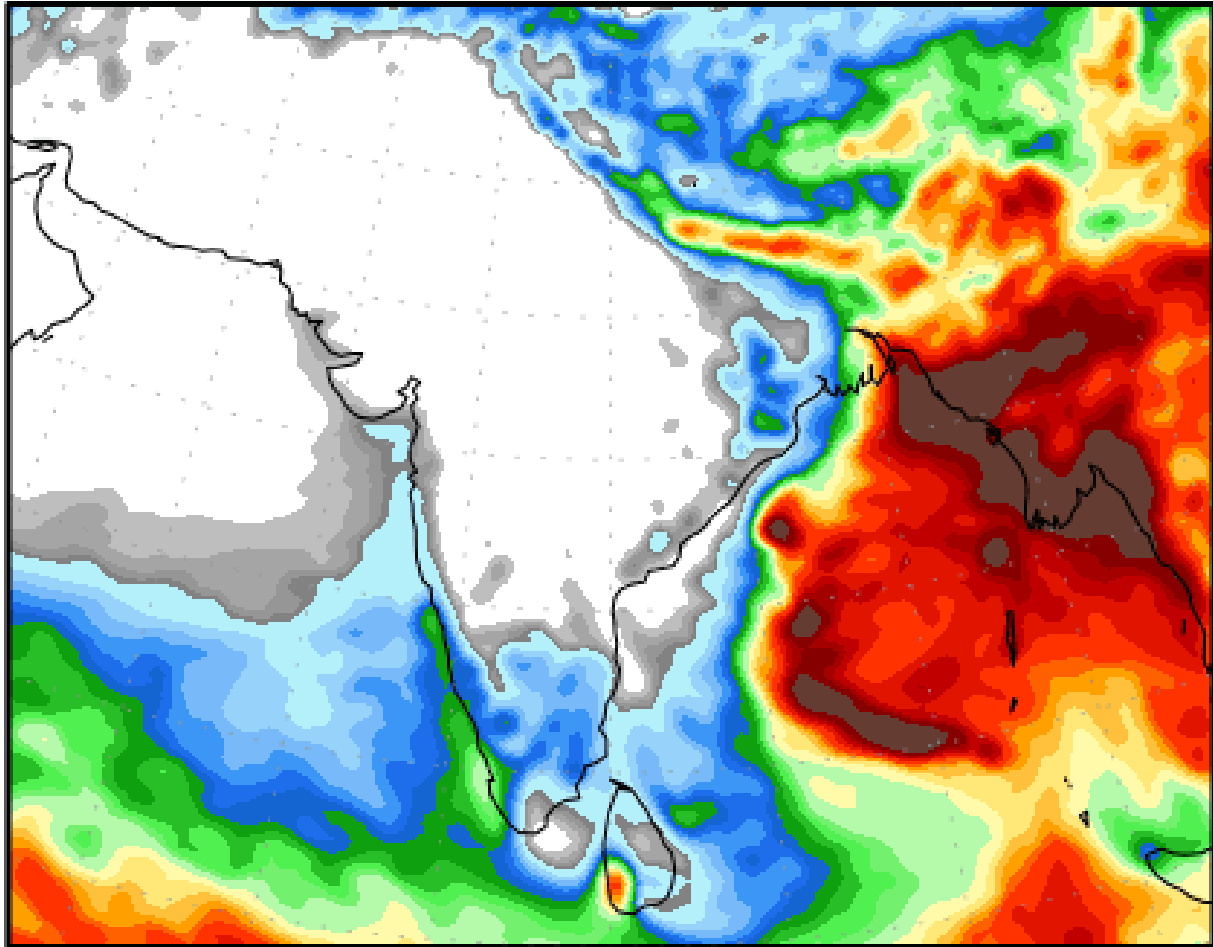
#### **Contingency measure:**

- Geeral: Maintain optimum soil moisture in various crop/vegetable field by performing Inter culture operation. . Farmers wish to cultivate ginger, turmeric

or oal (elephant foot yam) may start land preparation for sowing after possible rain. Before sowing, seed must be treated with fungicide Bavistin. For seed treatment 2 gm of Bavistin may be mixed in 1 liter of water and seeds may be soaked at least for one hour in this solution. Apply full dose of compost and Muriate of Potash and half dose of Urea and D.A.P. at the time of final field preparation. Remaining part of Urea and D.A.P. should be applied after 60 and 90 days of sowing in two split doses. After sowing, mulch the field with straw / leaves etc. which will not only reduce weeds but also will conserve soil moisture. Seeds of ginger and turmeric should be with one or two eyes and of oal seed must have apex bud.

- Rice: At flowering stage there is possibility of the attack of the insects Gandhi bugs, which sucks the sap of the flowers. To control the attack of the insects, dusting of the insecticides like Chlorpyrifos dust or Quinolphos dust or Methyl Parathion dust @ 10 kg per acre is recommended during evening. In absence of the insecticide, dusting of wood ash mixed with kerosin oil is also effective.
- Ginger: Select one of the improved variety of ginger seeds like Bardhwan, Suruchi, Suprabha, Nadiya etc. and sow the seed at a spacing of 40 cm (row to row) and 10 cm (plant to plant). 8 quintal of seeds, 80 quintal compost, 53 kg DAP, 70 kg Urea and 40 kg Muriate of potash is needed for cultivation in one acre.
- Daincha: To enhance the soil fertility farmers may sow the green manure crops like Sunhamp and Dhaincha. The seed rate for both is 20-25 kg per acre.
- Turmeric: Select improved variety of turmeric seeds like Sonia and sow the seed at a spacing of 40 cm (row to row) and 15 cm (plant to plant). 8 quintal of seeds, 80 quintal compost, 53 kg DAP, 70 kg Urea and 40 kg Muriate of potash is needed for cultivation in one acre. YAM: Select one of the improved variety of yam (oal) seeds like Gajendra, Vidhan, Kusum, Sri Padma etc. and sow the seed at a spacing of 60 cm (row to row) and 60 cm (plant to plant). 56 quintal of seeds, 80 quintal compost, 53 kg DAP, 70 kg Urea and 54 kg Muriate of potash is needed for cultivation in one acre.





**Figure:2. Precipitation forecast for 07 May to 15 May 2022 (Source: NOAA NCEP).**

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