

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 May 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Under the influence of the cyclonic circulation over south Andaman Sea & neighbourhood a low pressure area has formed over south Andaman Sea and adjoining southeast Bay of Bengal. Associated cyclonic circulation extends upto 4.5 km above mean sea level. It is very likely to become more marked over the same region during next 48 hours, concentrate into a depression over Andaman Sea & adjoining southeast Bay of Bengal during subsequent 48 hours and likely to intensify further thereafter. It is very likely to move northnorthwestwards gradually till 05th May.
- Under the influence of trough/Wind Discontinuity, Peninsular India is likely to experience isolated to scattered rain/thundershowers during next 5 days with isolated heavy rainfall over Tamilnadu & Puduchery, Kerala & Mahe and Coastal Karnataka during next 24 hours.
- Ongoing intense Thunderstorm activity over Northeast India & adjoining Eastern states likely to continue during next 5 days.
- A fresh Western Disturbance is likely to cause scattered to fairly widespread rain/thundershowers over Western Himalayan Region, and adjoining plains of North West India from 3rd May onwards.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 to 0830 hours IST of today): at most places over Sub-Himalayan West Bengal & Sikkim at many places over Uttarakhand, Arunachal Pradesh and North Interior Karnataka; at a few place Himachal Pradesh, East Uttar Pradesh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, coastal & South Interior Karnataka Kerala & Mahe and at isolated places Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidharbha, Chhattishgarh, Jharkhand Odisha, Andaman & Nicobar Islands, Madhya Maharashtra, Konkan

& Goa, Coastal Andhra Pradesh, Telengana Rayalseema and Tamilnadu, Puducherry & Karaikal.

- Heavy Rainfall observed at isolated places Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm/Hailstorm (from 0830 hours IST of yesterday to 0830 hours IST of today) observed at isolated places over Himachal Pradesh, Uttarkhand and West Uttar Pradesh; Thunderstorm observed at a few places over Kerala & Mahe and at isolated places over East Madhya Pradesh, Gangetic West Bengal, Assam & Meghalaya, Tripura, Madhya Maharashtra, Coastal Karnataka, Coastal Andhra Pradesh and Tamil Nadu.
- Maximum Temperature Departures as on 30-04-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir and at isolated place over Gujarat Region and Konkan & Goa; above normal (1.6°C to 3.0°C) at most places over Lakshadweep; at many places over Saurashtra & Kutch and at isolated places over West Rajasthan, Assam & Meghalaya, West Madhya Pradesh, Vidarbha, Madhya Maharashtra, Kerala & Mahe and Tamilnadu and Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at isolated places over Himachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over East Uttar Pradesh, and Jharkhand; at many places over Bihar; at a few places over north Odisha and at isolated places over Uttarakhand, East Madhya Pradesh, Gangetic West Bengal; below normal (-1.6°C to -3.0°C) at most places over West Uttar Pradesh and at isolated places over Sub-Himalayan West Bengal, south Odisha, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.3°C is reported at Akola (Vidarbha).
- Minimum Temperature Departures as on 01-05-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Gujarat region; at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over West Rajasthan and Madhya Maharashtra; at a few places over Andaman & Nicobar Islands; at isolated places over East Rajasthan, West Madhya Pradesh, Bihar, Marathwada and Konkan & Goa. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Vidharbha; at isolated places over Uttar Pradesh and Telangana; below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh, Jharkhand and Chhattisgarh; at isolated places over Gangetic West Bengal, Odisha and Tamil Nadu, Puducherry & Karaikal and near normal over

rest parts of the country. The lowest minimum temperature of 15.0°C reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 01 May (Day 1): Thunderstorm accompanied with lightning & squall (speed 50-60 kmph) very likely at isolated places over Bihar; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Odisha; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Uttarkhand, Rajasthan, Vidarbha, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Telangana, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and with lightning at isolated places over Punjab, Madhya Pradesh, Chhattisgarh, Jharkhand, Marathawada, Saurashtra & Kutch, Konkan & Goa, Rayalseema, Coastal & North Interior Karnataka and Nagaland, Manipur, Mizoram & Tripura. Duststorm/thunderstorm accompanied gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttar Pradesh with hail at isolated places over East Uttar Pradesh. Heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Squally winds, speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over southeast Bay of Bengal. Sea condition will be rough to very rough over north Sumatra coast, south Andaman Sea and adjoining southeast Bay of Bengal. The fishermen are advised not to venture into these areas.
- 02 May (Day 2): Thunderstorm accompanied with lightning & squall (speed exceeding 60 kmph) very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura; with lightning, hail & gusty winds (speed reaching 30-40 kmph) at isolated places over Uttarakhand & Odisha; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, South Interior Karnataka and Kerala & Mahe and with lightning at isolated places over Punjab, Haryana, Chandigarh & Delhi, Bihar, Madhya Maharashtra, Saurashtra & Kutch, Konkan & Goa, Coastal, Telangana and Coastal & North Interior Karnataka. Duststorm/thunderstorm accompanied with gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttar Pradesh and Rajasthan. Heavy rainfall very likely at isolated places over Nicobar Islands. Squally winds, speed reaching 40-50 kmph gusting to 65 kmph is likely to prevail

over southeast Bay of Bengal and south Andaman Sea. Sea condition will be rough to very rough over southeast Bay of Bengal and south Andaman Sea. The fishermen are advised not to venture into these areas.

- 03 May (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Madhya Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Chhattisgarh, East Uttar Pradesh, Jharkhand, West Bengal and Sikkim, Assam & Meghalaya, and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Bihar, Odisha, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Lakshadweep and Kerala & Mahe. Duststorm/thunderstorm accompanied with hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over West Uttar Pradesh and Rajasthan. Heavy rainfall likely at isolated places over Nicobar Islands. Squally winds, speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail over Andaman Sea and adjoining southeast Bay of Bengal. Sea condition will be rough to very rough over Andaman Sea and adjoining southeast Bay of Bengal. The fishermen are advised not to venture into these areas.
- 04 May (Day 4): Thunderstorm accompanied with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Bihar, Jharkhand and Gangetic West Bengal; with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Sub Himalayan West Bengal & Sikkim, West Madhya Pradesh and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over East Madhya Pradesh, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telengana, Rayalseema and Tamilnadu, Puducherry & Karaikal and with lightning at isolated places over Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Lakshadweep and Kerala & Mahe. Duststorm/thunderstorm accompanied with hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Rajasthan. Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Jharkhand, Gangetic West Bengal, Assam &

Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally winds, speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail over south Andaman Sea and adjoining southeast Bay of Bengal. Sea condition will be rough to very rough over south Andaman Sea and adjoining southeast Bay of Bengal. The fishermen are advised not to venture into these areas.

- 05 May (Day 5): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh and Odisha; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places over Jharkhand, West Bengal & Sikkim and Andaman & Nicobar Islands; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Telengana, Rayalseema, Tamil Nadu, Puducherry & Karaikal, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Punjab, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Kerala & Mahe. Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Jharkhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Squally winds, speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over south Andaman Sea and adjoining southeast Bay of Bengal. Sea condition will be rough to very rough over south Andaman Sea and adjoining southeast Bay of Bengal. The fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 01 to 09 May 2020 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)

Punjab

Weather condition:

The maximum temperature during the week ranged between 29.6-36.4°C and minimum temperature ranged between 17.8-20.6°C. The morning and evening relative humidity during the week varied between 51-76 and 25-53%, respectively. The sunshine hours during the week ranged between 5.3-12.4 hrs/day. The evaporation rate during the week ranged between 4.2-5.6 mm day⁻¹. Daily average wind speed varied from 1.7-10.1 kmhr⁻¹.

Contingency measure:

- Weather Forecast: Cloudy weather is likely to prevail in the coming days along with possibility of rain or thunderstorm. Weather parameters are likely to remain as follows: Maximum Temperature 30.0-38.0 °C, Minimum Temperature 21.0-23.0 °C.
- GENERAL ADVISORY IN VIEW OF COVID -19: Farmers are requested to follow social distancing and regularly wash hands with soap and water for 20 seconds. Do not exchange implements with fellow workers or farmers. Take proper diet. Sanitize the implements and machinery before use. If anyone feels fever, cough and difficulty in breathing he or she should consult a doctor. All farmers and farm workers are requested to download Aarogya Setu mobile application in their mobile phone
- AGROMET ADVOSIRIES: WHEAT: Farmers are advised to complete harvesting/threshing of wheat crop and store the produce at safe place as there is possibility of rain in the coming days. ? Farmers are advised not to burn wheat straw but plough the same in the field as it will improve the fertility of soil. Burning not only spoil atmosphere but also destroy the nutrients of soil.
- COTTON: ? It is the right time of sowing of recommended Bt varieties, Bt hybrids and non Bt hybrids of cotton i.e. PAU Bt 1, F 2228, F2383, LH 2108, LH 2076 and LHH 144.
- SUGARCANE: For the management of early shoot borer in sugarcane, use Tricho-cards having 20,000 eggs of *Corcyra cephalonica* parasitized (seven days old) by *Trichogramma chilonis* per acre at 10 days interval.
- SUMMER MOONG: To control weeds in summer moong, give first hoeing 4 weeks after sowing of the crop and second hoeing, if needed, about two weeks thereafter.
- VEGETABLES: Onion thrips should be checked by spraying 250 ml Malathion 50 EC in 80 litres of water per acre. Do not spray during the 7 days before harvest. Fruit borer attack in tomato crop can be checked by spraying 30 ml of Fame 480 SL or 600 ml of Carina 50 EC or Coragen 18.5 SC @ 60 ml per acre or 100 ml of Sumicidin 20 EC in 100 litres of water per acre. Observe waiting period of 3 days after the spray of Fame. To protect the tomato crop from early blight spray the crop with Indofil M-45 @ 600 g/acre in 200 litres of water.
- HORTICULTURE: It is advised to spray 0.3 percent zinc sulphate in citrus to overcome the deficiency of zinc in citrus plants but donot use lime for spraying. It's is the time to apply frequent irrigations in peach, pear, litchi and plum Light

Figure: 1. Latest available satellite picture as on 01 May 2020 at 1357 Hrs (IST). (Source: IMD).

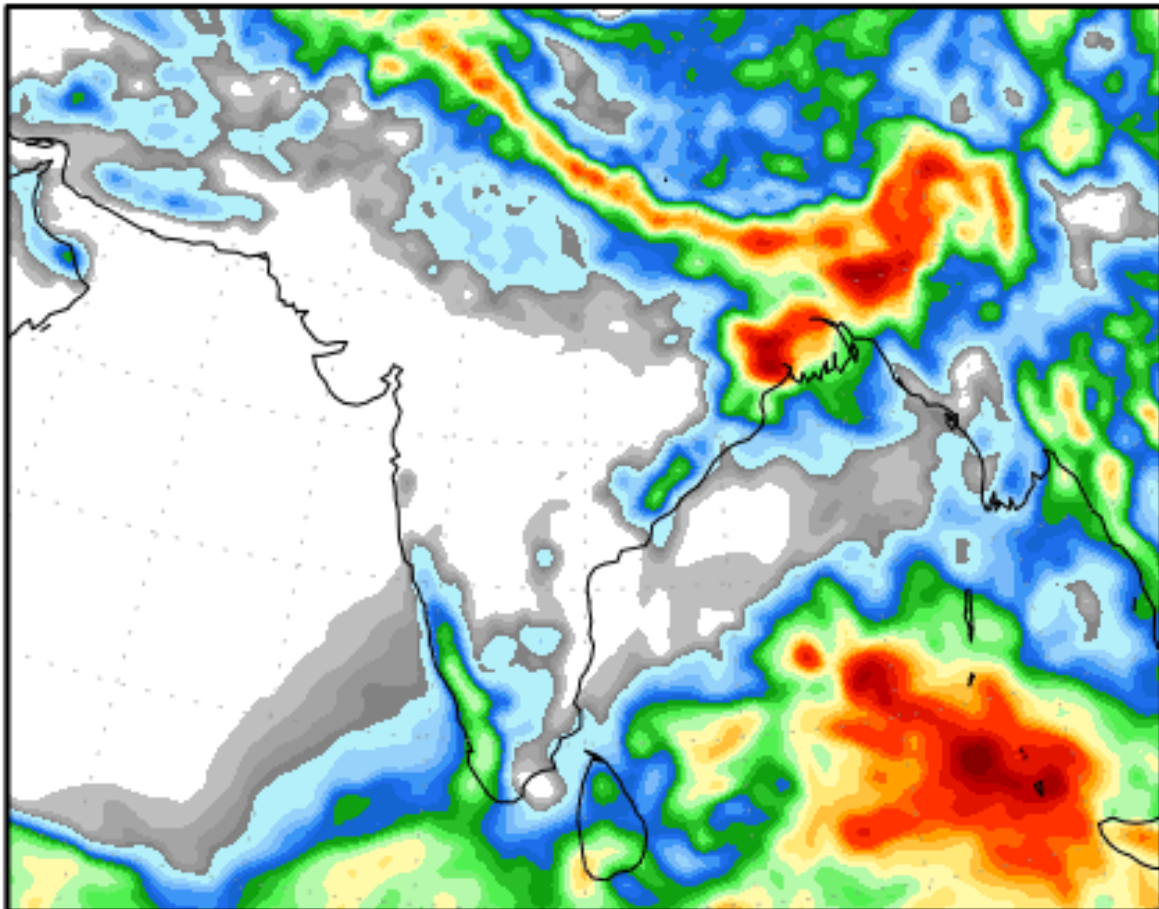


Figure:2. Precipitation forecast for 01 to 09 May 2020 (Source: NOAA NCEP).

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