

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

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

### **Daily Crop Weather Information as on 24 April 2019**

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

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

- A Trough of Low at mean sea level lies over Equatorial Indian Ocean and adjoining southeast Bay of Bengal with a cyclonic circulation aloft extending upto 3.1 km above mean sea level. Under its influence, a low pressure area is very likely to develop over Equatorial Indian Ocean and adjoining central parts of South Bay of Bengal to the southeast of Sri Lanka by tomorrow. It is very likely to intensify into a depression during subsequent 36 hours. It is very likely to move northwestwards towards Tamilnadu coast along & off east coast of Srilanka and is likely to intensify into a Cyclonic Storm during subsequent 48 hours.
- The images showing the latest satellite picture in 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 Jammu & Kashmir; at a few places over Odisha, South Interior Karnataka, Coastal Karnataka, and Kerala and at isolated places over Assam & Meghalaya , Jharkhand ,Chhattisgarh, Gangetic West Bengal, Coastal Andhra Pradesh, Tamilnadu & Puducherry and Andaman & Nicobar. Heavy rainfall observed at isolated places over Coastal Andhra Pradesh. Thunderstorms observed at a few places over Kerala; at isolated places over Jammu & Kashmir, Odisha, Telangana, Rayalaseema, Kerala, Tamilnadu & Puducherry and Assam & Meghalaya from 0830 hours IST of yesterday to 0830 hours IST of today.
- Maximum temperature departures as on 23.04.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over West Rajasthan; at many places over Jammu & Kashmir and at a few places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Arunachal Pradesh and Assam & Meghalaya; at isolated places over East Rajasthan, Gujarat and Konkan & Goa; above normal (1.6°C to 3.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra, Marathwada and Gangetic West Bengal; at isolated places over Andaman & Nicobar islands, Jharkhand, Chhattisgarh, Vidarbha, Telangana and Karnataka. They were below normal (-1.6°C to -3.0°C) at most places

over Bihar; at a few places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Odisha; at isolated places over Tamilnadu & Puducherry.

- Yesterday, the highest maximum temperature of 45.1°C recorded at Brahmapuri (Vidarbha) and normal over rest of the country.
- Minimum temperature departures as on 24.04.2019: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Rajasthan, Himachal Pradesh and Punjab; at a few places over Jammu & Kashmir, Uttarakhand and Haryana, Chandigarh & Delhi; at isolated places over Uttar Pradesh and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over Gujarat region and Andaman & Nicobar; at a few places over Sub-Himalayan West Bengal & Sikkim and Bihar; at isolated places over Assam & Meghalaya, Madhya Pradesh, Vidarbha, Saurashtra & Kutch, North Interior Karnataka and Tamilnadu & Puducherry. They are below normal (-1.6°C to -3.0°C) at many places over Chhattisgarh; at a few places over Odisha; at isolated places over Gangetic West Bengal, Telangana and Rayalaseema and near normal over rest parts of the country.

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

- 24 April (Day 1): Thunderstorm accompanied with lightning at isolated places very likely over Gangetic West Bengal and Odisha. Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Chhattisgarh, South Interior Karnataka and Tamilnadu & Puducherry and Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Jammu & Kashmir, East Uttar Pradesh, Jharkhand and Kerala. Duststorm very likely at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and East Rajasthan. Thunderstorm/Duststorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Punjab and West Rajasthan. Thunderstorm accompanied with hail, gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Himachal Pradesh. Heat Wave Conditions likely in isolated pockets over Rajasthan, West Madhya Pradesh and Vidarbha.
- 25 April (Day 2): Squally wind, speed reaching 30-40 kmph gusting to 50 kmph, likely over Equatorial Indian Ocean & adjoining central parts of South Bay of Bengal. Squally weather very likely over south Andaman Sea. Fishermen are advised not to venture into these areas. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Jammu & Kashmir and East Rajasthan and Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Assam & Meghalaya. Thunderstorm accompanied with hail, gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over

Himachal Pradesh. Thunderstorm/Duststorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and West Rajasthan. Heat Wave Conditions in isolated pockets very likely over Rajasthan, Madhya Pradesh and Vidarbha.

- 26 April (Day 3): Squally wind, speed reaching 40-50 kmph gusting to 60 kmph, likely over Equatorial Indian Ocean & adjoining Southwest Bay of Bengal. Squally weather very likely over south Andaman Sea. Fishermen are advised not to venture into these areas. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places very likely over Sub-Himalayan West Bengal & Sikkim and Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places very likely over Assam & Meghalaya and Chhattisgarh. Heat Wave Conditions over some parts of Vidarbha and in isolated pockets over Rajasthan, Madhya Pradesh, Gujarat state, Madhya Maharashtra and Marathwada.
- 27 April (Day 4): Gale wind, speed reaching 65-75 kmph gusting to 85 kmph, likely over Equatorial Indian Ocean & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places likely over Kerala and Nagaland, Manipur, Mizoram & Tripura and Thunderstorm accompanied with squall (wind speed reaching 50-60 kmph) and lightning at isolated places likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions likely in some parts of Vidarbha and at isolated pockets over East Rajasthan, Madhya Pradesh, Gujarat state, Madhya Maharashtra and Marathwada. Heavy Rainfall at isolated places likely over Assam & Meghalaya.
- 28 April (Day 5): Gale wind, speed reaching 80-90 kmph gusting to 100 kmph, likely over Southwest Bay of Bengal & adjoining Equatorial Indian Ocean along & off Sri Lanka coast. Fishermen are advised not to venture into these areas. Squally wind, speed reaching 40-50 kmph gusting to 60 kmph, likely along & off south Tamil Nadu coast. Thunderstorm accompanied with gusty winds (wind speed reaching 30-40 kmph) and lightning at isolated places likely over Nagaland, Manipur, Mizoram & Tripura; Thunderstorm accompanied with gusty winds (wind speed reaching 40-50 kmph) and lightning at isolated places likely over Kerala & Thunderstorm accompanied with gusty wind (wind speed reaching 50-60 kmph) and lightning at isolated places likely over South Interior Karnataka. Thunderstorm accompanied with squall (wind speed reaching 50-60 kmph) and lightning at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. Heavy to very heavy rainfall at isolated places likely over Tamilnadu & Puducherry and Heavy Rainfall at isolated places likely over Assam & Meghalaya, Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim. Heat Wave Conditions likely in some parts

of Vidarbha and in isolated pockets over East Rajasthan, Madhya Pradesh, Gujarat state, Madhya Maharashtra and Marathwada.

- The weather outlook for the period of seven days *i.e* 24 April to 01 May 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Gangetic West Bengal, Jharkhand, Chhattisgarh, Odisha, South Interior Karnataka, Coastal Karnataka, Coastal Andhra Pradesh, Telangana, Rayalaseema, Kerala, Tamilnadu & Puducherry, Andaman & Nicobar Island and North Eastern States. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

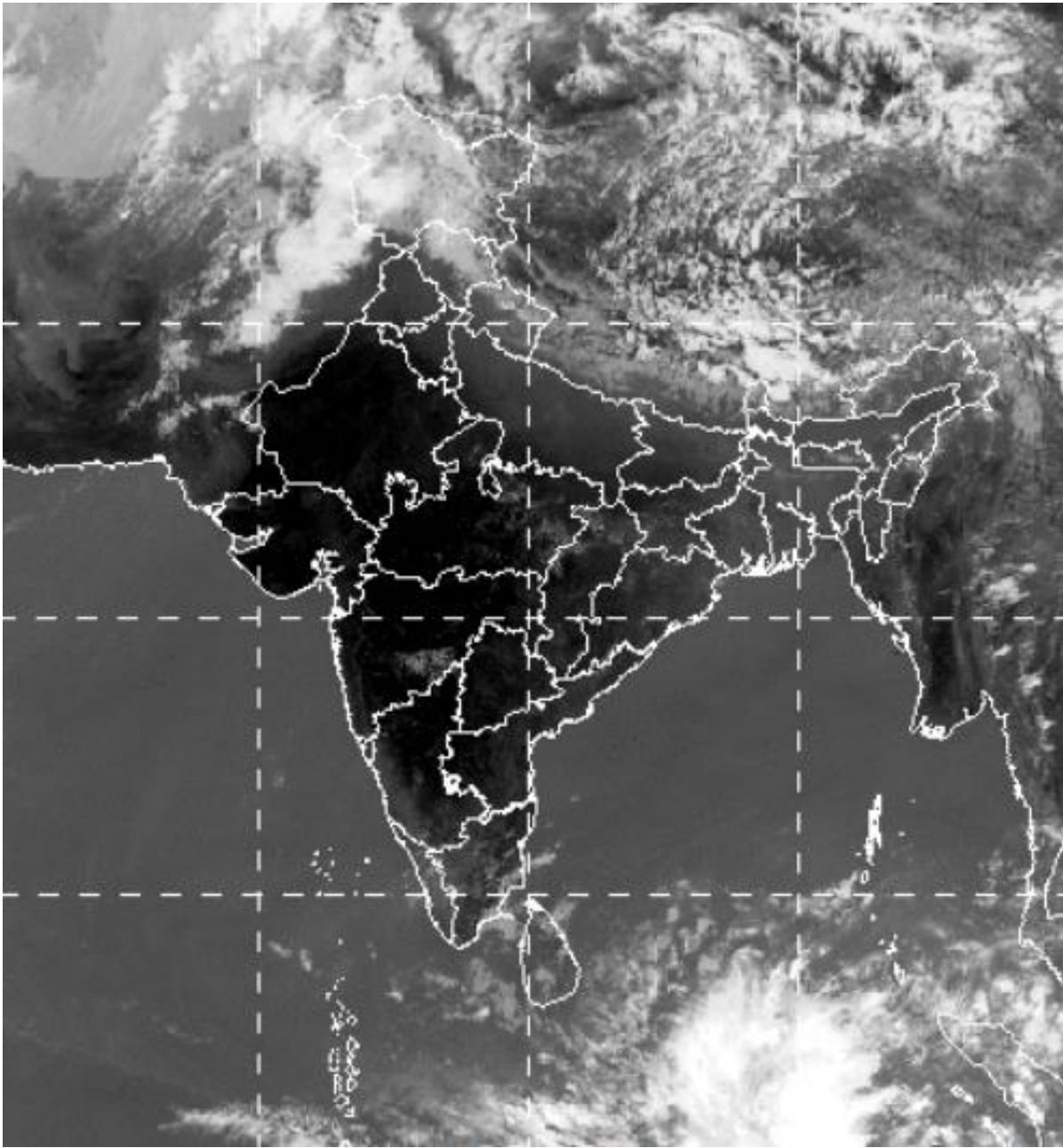
### Andhra Pradesh

#### Weather condition:

Mainly dry weather prevailed in Andhra Pradesh state during past few days.

#### Contingency measure:

- Farmers are advised to go for the soil testing for the soil test based fertilizer application in next Kharif crops.
- To control fruit drop in mango spray hexaconazole @1-2 ml. mixed with planofix @ 1 ml. in 4.5 L of water. As the day temperatures are increasing, farmers are advised to take necessary measures and protect livestock from heat stress.
- They are advised to avoid land preparation and draught operations during mid days and give rest for draught animals from noon to evening.
- Farmers are advised to provide drinking water to livestock at frequent intervals (4 times a day) to avoid dehydration. Arrest the ammonia smell in the sheds by arranging fans & coolers.



**Figure: 1. Latest available satellite picture as on 24 April 2019 at 0230 Hrs (IST).**

**(Source: IMD).**



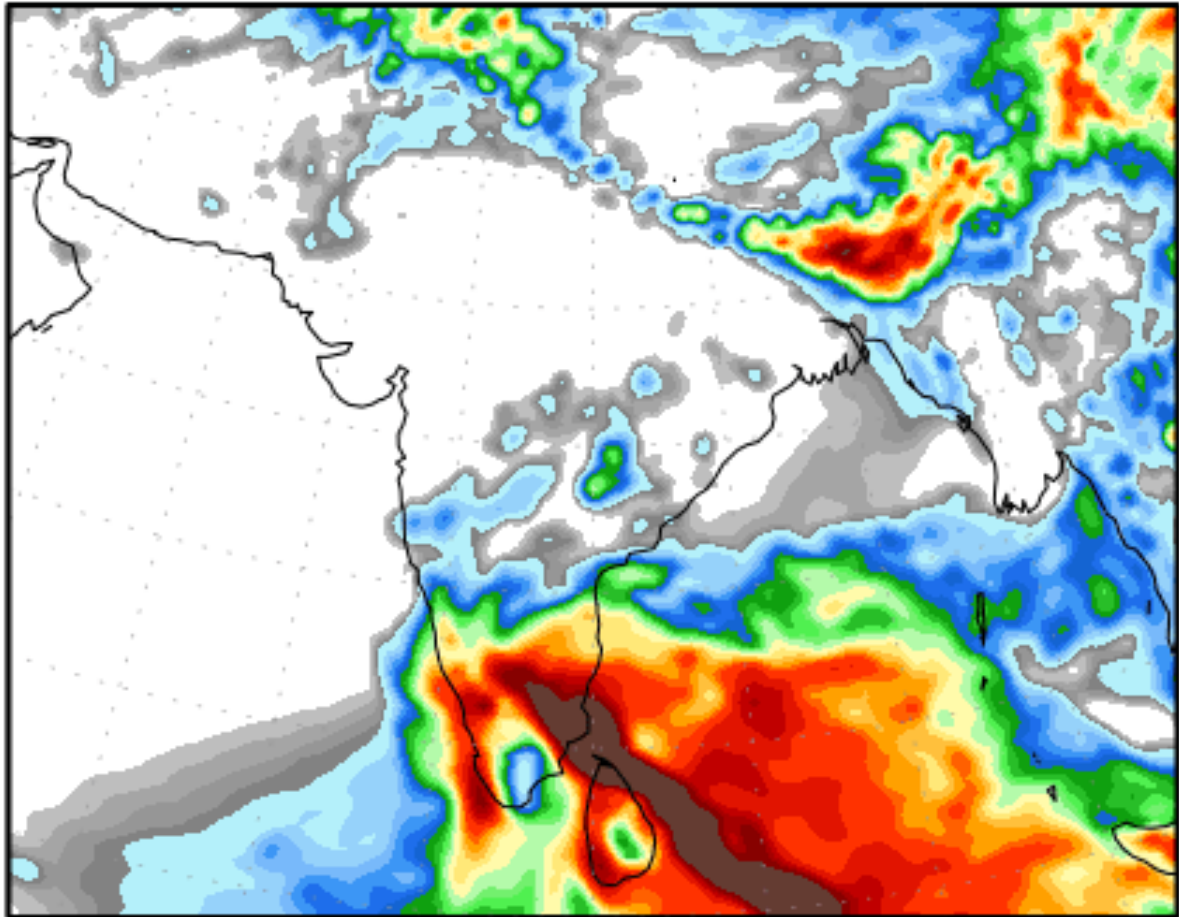


Figure: 2. Precipitation forecast for 24 April to 01 May 2019 (Source: NOAA NCEP).