

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

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

### **Daily Crop Weather Information as on 28 May 2018**

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

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

- Yesterday, Southwest Monsoon has advanced into some parts of South Arabian Sea and Maldivian Comorin area; some more parts of south Bay of Bengal, Andaman & Nicobar Islands and Andaman Sea. The Northern Limit of Monsoon (NLM) passes through Lat. 5°N/ Long. 70°E, Lat. 5°N/ Long. 75°E, Lat. 6°N/ Long. 80°E, Lat. 8°N/ Long. 85°E, Lat. 11°N/ Long. 90°E, Mayabandar, Lat. 15°N/ Long. 95°E and Lat. 17°N/ Long. 98°E.
- Conditions are favorable for further advance of Southwest Monsoon into some parts of South Arabian Sea, remaining parts of Comorin Maldives area; some parts of Kerala, Tamilnadu, some more parts of South Bay of Bengal, remaining parts of Andaman Sea and Andaman & Nicobar Islands during next 24 hours.
- Heat wave conditions are very likely to abate gradually from more parts of northwest India and central India from today, in view of the likely setting in of easterly winds over the northern plains.
- Thunderstorm observed at most places over Jharkhand, Lakshadweep and Kerala and at isolated places over Uttarakhand, Madhya Maharashtra, Coastal & North Interior Karnataka, Kerala, Tamilnadu & Puducherry and Assam & Meghalaya from 0830 hours IST of yesterday to 0530 hours IST of today.
- Yesterday, Heat wave conditions were observed at most parts over West Rajasthan; many parts over West Madhya Pradesh, Haryana, Chandigarh & Delhi; at some parts over East Rajasthan and at one or two pockets over Saurashtra & Kutch, East Madhya Pradesh, Vidarbha and south Uttar Pradesh.
- The images showing the latest satellite picture in figure. 1.

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

- Rainfall observed (from 0830 to 1730 hours IST of yesterday): Rain/thundershowers observed at most places over Andaman & Nicobar Islands, Lakshadweep and Kerala; at many places over Arunachal Pradesh and Assam & Meghalaya; at a few places over Tamilnadu & Puducherry and at isolated places over East Uttar Pradesh and Konkan & Goa.

- Maximum temperature departures as on 27.05.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Rajasthan; at many places over Uttarakhand, West Madhya Pradesh, and Gujarat region; at a few places over Himachal Pradesh, East Madhya Pradesh and Saurashtra & Kutch and at isolated places over Jammu & Kashmir and Vidarbha; above normal (1.6°C to 3.0°C) at most places over Punjab, Haryana, Chandigarh and Delhi and Madhya Maharashtra; at many places over Uttar Pradesh and Jharkhand; at a few places over Bihar and at isolated places over Gangetic West Bengal & Sikkim and Konkan & Goa; They were appreciably below normal (3.1°C to 5.0°C) at most places over Lakshadweep and below normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya and Tamilnadu & Puducherry and at isolated places over Coastal & Interior Karnataka, Kerala, Coastal Andhra Pradesh, Odisha, Sub Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 47.2°C was recorded at Khajuraho (East Madhya Pradesh) over plains of the country.
- Minimum temperature departures as on 27.05.2018: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few place over Himachal Pradesh and Uttarakhand; at isolated place over Rajasthan and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at most Places over Punjab, Gujarat Region and Madhya Maharashtra; at many places over Nagaland, Manipur, Mizoram and Tripura; at a few places over Jammu & Kashmir, Assam & Meghalaya, Saurashtra & Kutch and Marathwada; at isolated places over West Bengal & Sikkim, Vidarbha and Konkan & Goa. They were appreciably below normal (3.1°C to 5.0°C) at a few places over North Interior Karnataka and West Uttar Pradesh; below normal (1.6°C to 3.0°C) at a few places over Chhattisgarh; at isolated places over Coastal Andhra Pradesh, Odisha and Coastal Karnataka and near normal over rest of the country.

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

- 28 May (Day 1): Heat wave conditions are very likely to occur at many parts of West Rajasthan; some parts of East Rajasthan and at one or two pockets over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh and Saurashtra & Kutch and Vidarbha. Heavy to very heavy rain at a few places over Lakshadweep and at isolated places over Kerala; heavy rain very likely at isolated places over Coastal Karnataka, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya and Andaman & Nicobar Islands. Thunderstorm accompanied with gusty winds very likely at isolated places over UP, UK, Gangetic West Bengal, Odisha, Jharkhand, Bihar, south Konkan & Goa, Chhattisgarh, Tamilnadu and Interior Karnataka. Duststorm very likely at isolated places over East Rajasthan. Squally wind speed reaching 40-50 Kmph gusting to 60 Kmph very likely along & off Kerala and Karnataka Coasts, over and around Lakshadweep area and Andaman & Nicobar Islands. Fishermen are advised not to venture into the sea along and off Kerala and Karnataka Coasts and over & around Lakshadweep and Andaman & Nicobar Islands.
- 29 May (Day 2): Heat wave conditions are very likely to occur some parts of Rajasthan and at one or two pockets over Madhya Pradesh and Vidarbha. Heavy to very heavy rain at a few places likely over Lakshadweep and heavy at a few places & heavy to very heavy at isolated

places over Kerala; heavy rain likely at isolated places over Coastal & South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with squall very likely at isolated places over Bihar. Thunderstorm accompanied with gusty winds very likely at isolated places over Gangetic West Bengal, Uttar Pradesh, Uttarakhand, Haryana & Delhi, Punjab, Tamilnadu and Interior Karnataka. Duststorm very likely at isolated places over Rajasthan. Squally wind speed reaching 40-50 Kmph gusting to 60 Kmph very likely along & off Kerala and Karnataka Coasts, over and around Lakshadweep area . Fishermen are advised not to venture into the sea along and off Kerala and Karnataka Coasts and over & around Lakshadweep area.

- 30 May (Day 3): Heat wave conditions are likely in one or two pockets over Rajasthan. Heavy to very heavy rain at a few places likely over Lakshadweep and heavy at a few places & heavy to very heavy at isolated places over Kerala ; heavy rain likely at isolated places over Coastal & South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura, Tamilnadu. Thunderstorm accompanied with gusty winds very likely at isolated places over Bihar, Uttar Pradesh, Uttarakhand, East Rajasthan, Marathwada and Madhya Maharashtra. Duststorm likely at isolated places over West Rajasthan. Squally wind speed reaching 40-50 Kmph gusting to 60 Kmph very likely along & off Kerala and Karnataka Coasts, over and around Lakshadweep area . Fishermen are advised not to venture into the sea along and off Kerala and Karnataka Coasts and over & around Lakshadweep area.
- 31 May (Day 4): Heat wave conditions are likely in one or two pockets over Rajasthan. Heavy to very heavy rain at a few places likely over Lakshadweep and heavy at a few places & heavy to very heavy at isolated places over Kerala; heavy rain likely at isolated places over Coastal & South Interior Karnataka, Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Tamilnadu. Thunderstorm accompanied with gusty winds very likely at isolated places over Uttar Pradesh, Bihar, Gangetic West Bengal, Jharkhand Marathwada and Madhya Maharashtra. Duststorm likely at isolated places over West Rajasthan.
- 01 June (Day 5): Heat wave conditions are likely in one or two pockets over Rajasthan. Heavy to very heavy rain at a few places likely over Lakshadweep and heavy at a few places & heavy to very heavy at isolated places over Kerala; heavy rain likely at isolated places over Coastal & South Interior Karnataka, Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura, Tamilnadu. Thunderstorm accompanied with gusty winds very likely at isolated places over Uttar Pradesh, Bihar, Gangetic West Bengal, Jharkhand Marathwada and Madhya Maharashtra. Duststorm likely at isolated places over West Rajasthan.
- The weather outlook for the period of seven days *i.e* 28 May to 03 June 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over; East Uttar Pradesh, Konkan & Goa, Tamilnadu & Puducherry, Kerala Lakshadweep Andaman Islands and North eastern States. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

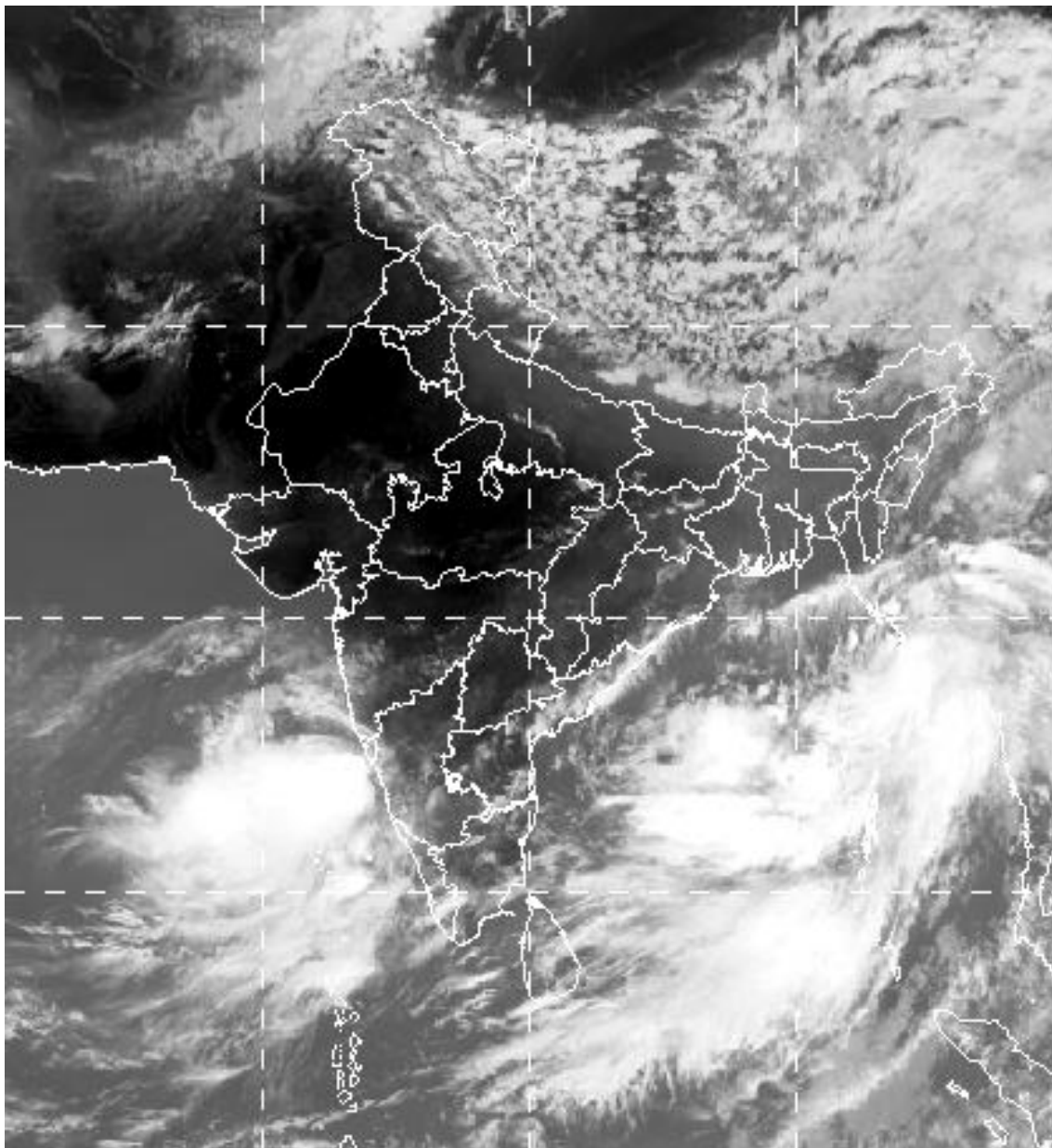
### **Kerala**

#### **Weather condition**

Light rainfall received in Kerala state during the past few days. The maximum temperature ranges from 28.4 to 34.1°C and minimum temperature ranges from 20.2 to 23.7 °C.

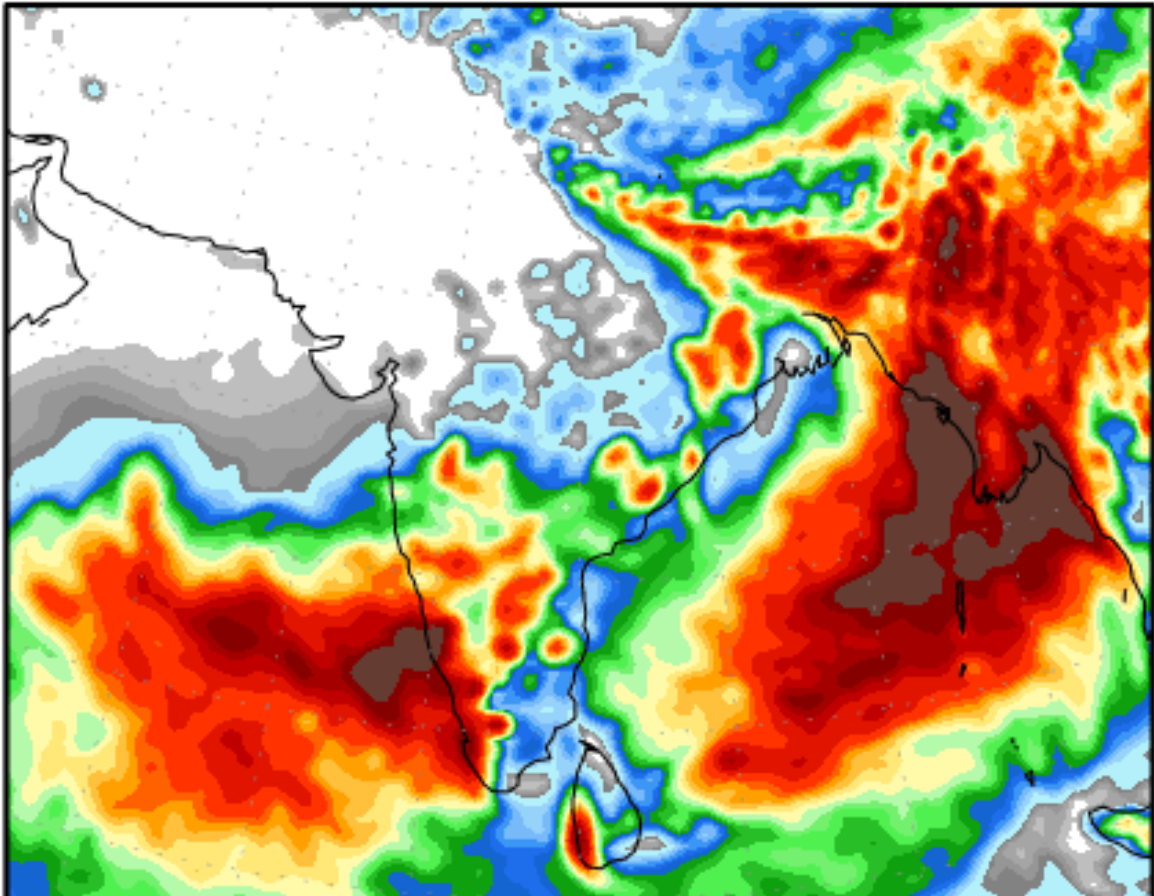
#### **Contingency measure:**

- Paddy-Nursery preparation for next crop-Heavy rainfall is expected. Weeds can be incorporated by ploughing and allowing the water to remain in field till next crop. After receipt of good rain plough the field and pulverize the soil. Prepare nurseries for virippu crop.
- Make seed beds and apply 1kg FYM for 1 sqm. For 1 acre land 25-35 Kg seeds are required. Soak seeds for 16 hours in a solution of Pseudomonas 10g/litre/1 kg seed or carbendazim 2g/kg seed/litre against fungal disease.
- Banana-Erwinia Rot-Proper drainage should be ensured. As a precaution, apply lime in the banana basin or bleaching powder in the irrigation channels. To improve the disease resistance, drench the basin with Pseudomonas @ 20g per litre of water. Affected plants can be protected by drenching the basin with 5 g bleaching powder or 3 g oxychloride or 2g copper hydroxide per one litre of water. Severely affected plants should be cut and removed to prevent the spread of disease.
- Vegetables-Planting-It is time to plant majority of vegetables. Start preparation of land just after first summer showers.



**Figure: 1. Latest available satellite picture as on 28 May 2018 at 0230 Hrs (IST).  
(Source: IMD).**





**Figure: 2. Precipitation forecast for 28 May to 03 June 2018 (Source: NOAA NCEP).**