

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 13 March 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The well marked low pressure area over Equatorial Indian Ocean and adjoining southwest Sri Lanka & Maldives Comorin area concentrated into a depression and lay centred at 0830 IST of today, the 13th March 2018 over southeast Arabian sea and adjoining Equatorial Indian ocean near latitude 5.0°N and longitude 76.0°E about 480 km southeast of Minicoy, 390 km south southwest of Thiruvananthapuram and 290 km eastnortheast of Male (Maldives). It is very likely to move northwestwards and intensify further into a deep Depression during next 48 hours.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall recorded (0830 hours IST of yesterday to 0830 hours IST of today): Rain / thundershowers observed at many places over Sub Himalayan West Bengal & Sikkim; at a few places over Tamilnadu & Puducherry, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and at isolated places over Gangetic West Bengal, Andaman & Nicobar Islands Kerala and Telangana.
- Maximum temperature departures as on 12.03.2018: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu & Kashmir, Punjab and Himachal Pradesh; at many places over West Rajasthan; at a few places over Haryana, Chandigarh & Delhi; appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan; at many places over West Madhya Pradesh and West Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over East Madhya Pradesh, Gujarat, Bihar and Konkan & Goa; at many places over East Uttar Pradesh and Coastal Karnataka; at a few places over Gangetic West Bengal and Vidarbha and at isolated places over Odisha, Madhya Maharashtra and Kerala. They were below normal (1.6°C to 3.0°C) at a few places over Tamilnadu & Puducherry and at isolated places over Sub Himalayan West Bengal & Sikkim and Assam & Meghalaya and near normal over rest parts of the country.
- Yesterday, the highest maximum temperature of 42.0°C are recorded at Bhira (Konkan) over the country.

- Minimum temperature departures as on 13.03.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Jammu & Kashmir; at many places over Uttarakhand and West Rajasthan; at a few places over Himachal Pradesh; above normal (1.6°C to 3.0°C) at most places over Punjab and West Uttar Pradesh; at many places over East Rajasthan and Tamilnadu & Puducherry; at a few places over Sub Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands; at isolated places over Madhya Pradesh, Madhya Maharashtra, and Kerala They are below normal (1.6°C to 3.0°C) at isolated places over Gangetic West Bengal and Saurashtra & Kutch and near normal over rest parts of the country.
- The lowest minimum temperature of 11.6°C recorded at Mandala (East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 13 March (Day 1): Heavy rain at isolated places very likely over Tamilnadu and Kerala. Squally winds speed reaching 45-55 kmph gusting to 65 kmph is very likely over Comorin area and along and off South Tamilnadu south Kerala coasts. Squally winds speed reaching 40-50 kmph gusting to 60 kmph is very likely over Lakshadweep area and adjoining southeast Arabian Sea. Sea conditions will be rough to very rough over Comorin Maldives area and adjoining sea area, Lakshadweep area and adjoining southeast Arabian Sea. Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu division of Jammu & Kashmir, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu & Puducherry and Kerala.
- 14 March (Day 2): Heavy to very heavy rain at a few places very likely over Lakshadweep; heavy at isolated places over Kerala. Squally winds speed reaching 45-55 kmph gusting to 65 kmph is very likely over south Kerala and south Tamilnadu coasts. Squally winds speed reaching 55-65 kmph gusting to 75 kmph is very likely over Lakshadweep area and adjoining southeast Arabian Sea. Sea conditions will be rough to very rough over Comorin Maldives area and adjoining sea area, Lakshadweep area and adjoining southeast Arabian Sea. Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu division of Jammu & Kashmir, Himachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu & Puducherry and Kerala.
- 15 March (Day 3): Heavy to very heavy rain at a few places very likely over Lakshadweep; heavy at isolated places over Kerala. Squally winds speed reaching 45-55 kmph gusting to 65 kmph is very likely over Kerala coast. Squally winds speed reaching 55-65 kmph gusting to 75 kmph is very likely over Lakshadweep area and adjoining southeast Arabian Sea. Sea conditions will be rough to very rough over Lakshadweep area and adjoining southeast Arabian Sea. Thunderstorm accompanied with gusty winds very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- 16 March (Day 4): Thunderstorm accompanied with gusty winds very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- 17 March (Day 5): No weather warning.

- The weather outlook for the period of seven days *i.e* 13 March to 21 March 2018 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Sub Himalayan West Bengal & Sikkim, Gangetic West Bengal, Kerala, Telangana, Tamilnadu & Puducherry, North Eastern States and Andaman & Nicobar Islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Konkan region of Maharashtra

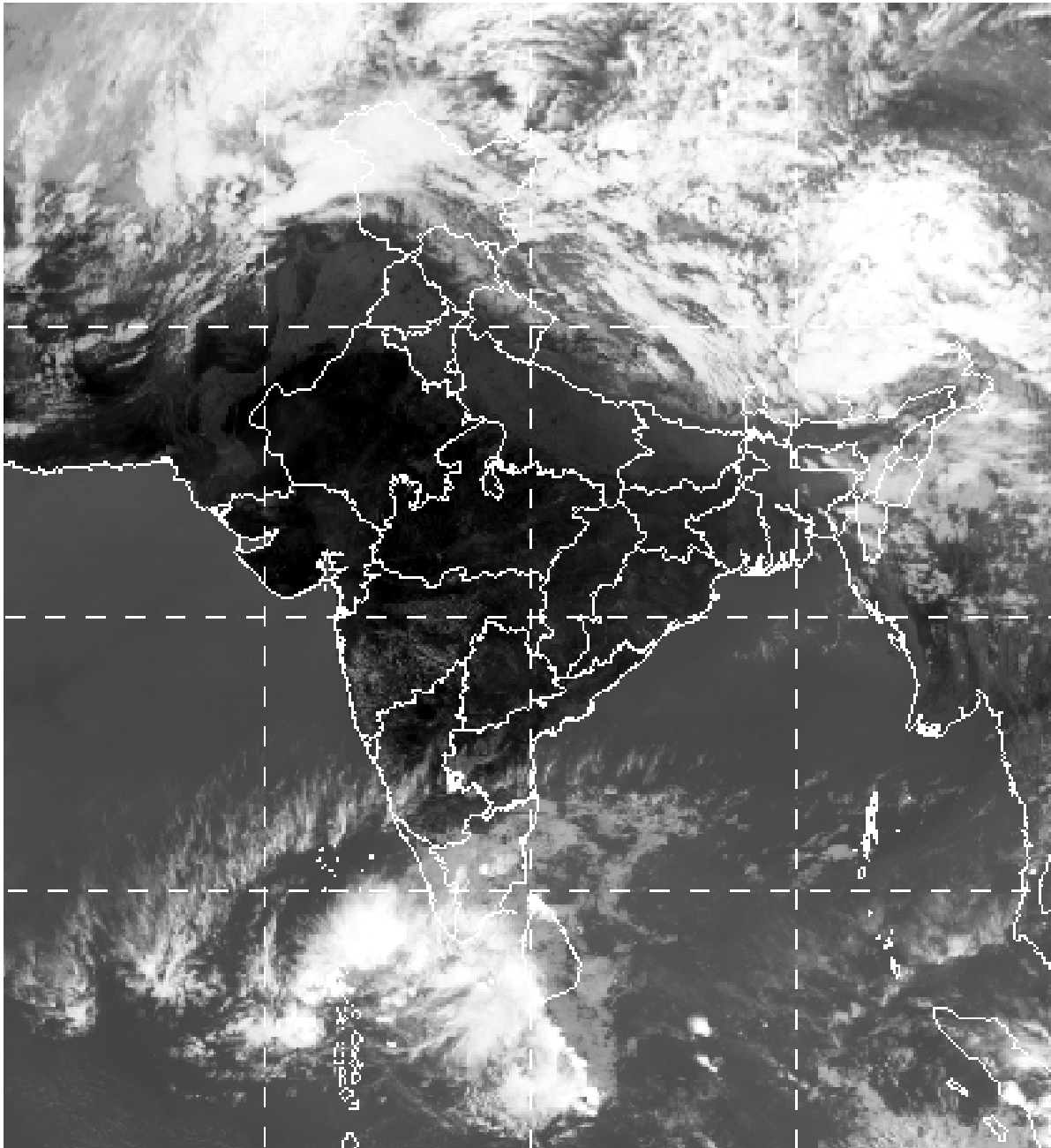
Weather condition

Dry weather prevailed in Konkan region of Maharashtra state during past few days. The maximum and minimum temperature ranged from 31.0 to 35.0°C and 15.5 to 19.0°C, respectively.

Contingency measure:

- **Pulses crops:** Harvest mature pulse crop early in morning or late in evening and dry it for 3 to 4 days in sunlight
- **Mango/ Cashew:** If incidence of mango hopper is noticed on mango crop, spray Lambda Cyhalothrin @5% E.C. @ of 6 ml per 10 liter of water for management of Anthracnose mix Carbendazim @ 10 gm or Propineb @ 20 gm or Carbendazim 12% + Mancozeb 63% @ 10 g per of any one fungicides for 10 lit of water. For increasing the production and quality improvement of fruits of mango, spraying of 1 % urea and 1 % Potassium nitrate at pea stage, marble stage and arecanut size stage is recommended. Apply protected irrigation for alphonso mango @ 150 to 200 lit. of water at fortnight interval to reduce fruit drop and increase the size of fruits. Next five days forecasted medium wind speed hence, support mango fruits bearing branches to avoid bark damage. To avoid damage from increasing temperature as well as damage from fruit fly, wrap paper bags to marble to development size clear mango fruit. If incidence of mango hopper is noticed on mango crop, spray Lambda Cyhalothrin @5% E.C. @ of 6 ml per 10 liter of water for management of powdery mildew mix Hexaconazole 5% EC @ 5 ml or Sulphur 80% WP @ 20 gm per 10 lit of water
- **Coconut, Arecanut:** For control of adults and grubs of rhinoceros beetle, dust 2 % Methyl parathion powder after every 2 month interval in FYM pits. To control red palm weevil affected coconut, prepare a slanting hole with the help of screw drill about 1 m height from ground level on tree trunk and pour about 20 ml of 36 % Monocrotophos or 20% Chlorpyrifos with the help of plastic funnel in the hole and close the hole with the help of cement. Spray 1% Bordeaux mixture before rains or apply osety AL 0.3% (30 g/10 lit. water) + Urea Suphala 111 briquettes or Fosety AL 0.3% (30 g/10 lit. water) + Annapurana 76 briquettes per arecanut palm to avoid fungal immature fruit drop in coconut and Koleroga disease (immature nut drop) in arecanut

- **Vegetable crop and watermelon crop:** If incidence of hopper, aphids and thrips on vegetable crops viz., brinjal, tomato, cabbage, chilli, knol knol etc., is noticed spray Malathion @ 20 ml or Dimethoate @ 12 ml per 10 liter of water. Cucurbitaceous vegetables are in fruit bearing stage, install of Rakshak fruit fly traps developed by University @ 4 traps per ha area is advocated to control fruit fly in vegetables garden.
- **Goats/ Milch animals:** Provide clean and hygienic drinking water and nutritious fodder and concentrates to farm animal. Protect the animals/poultry birds from low temperature by providing curtains and electric bulbs as per the need.



**Figure: 1. Latest available satellite picture as on 13 March 2018 at 0230 Hrs (IST).
(Source: IMD).**

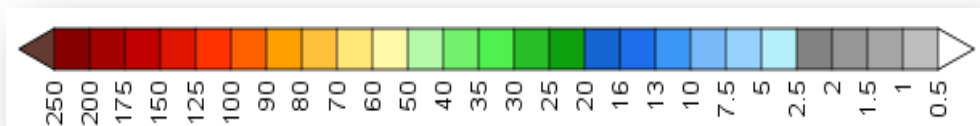
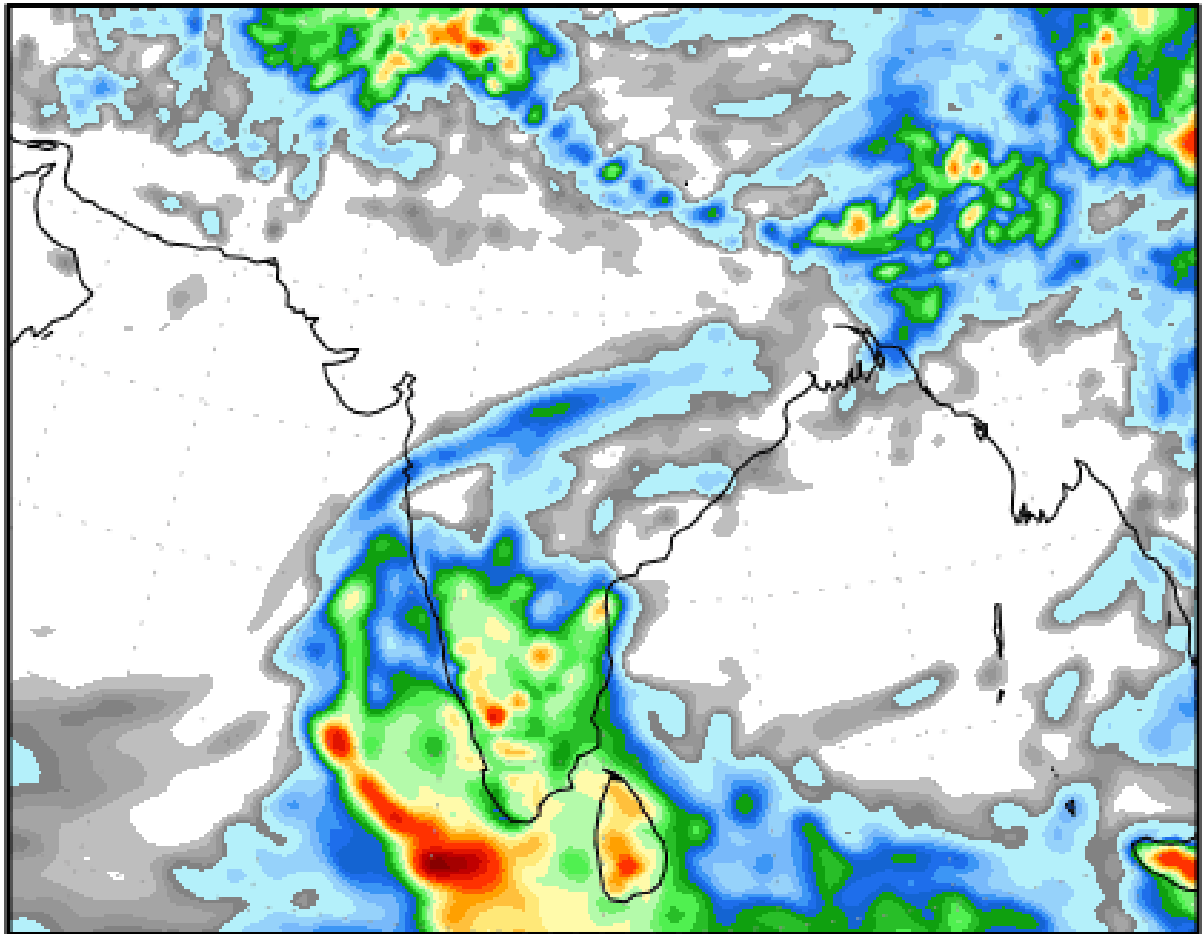


Figure: 2. Precipitation forecast for 13 March to 21 March 2018 (Source: NOAA NCEP).