

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 16 March 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A low pressure area lies over Lakshadweep area and adjoining southeast Arabian Sea with associated upper air cyclonic circulation extending upto 1.5 km above mean sea level. An anticyclone circulation over the southwest Bay of Bengal is giving rise to moisture incursion over peninsular India. Due to this scattered to fairly widespread rainfall/thundershowers likely over peninsular India and isolated to scattered rainfall/thundershowers activity likely over adjoining central and east India during next 2-3 days.
- Thunderstorm observed at a few places over Himachal Pradesh and at isolated places over Jammu division of Jammu & Kashmir, Uttarakhand, Chandigarh, Assam & Meghalaya, South Interior Karnataka, Kerala and Tamilnadu & Puducherry from 1130 hours IST of yesterday to 0830 hours IST of today.
- Heavy rainfall occurred at isolated places over Lakshadweep and Meghalaya from 0830 hours IST of yesterday to 0830 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/snow observed at most places over Jammu & Kashmir and Himachal Pradesh; at a few places over Uttarakhand. Rain/thundershowers observed at many places over Lakshadweep, Kerala, South Interior Karnataka, Arunachal Pradesh and Assam & Meghalaya; at a few places over Vidharbha, North Interior Karnataka and Tamilnadu; at isolated places over East Uttar Pradesh, Chandigarh, Rajasthan, Telangana, Rayalaseema, Coastal Karnataka, Konkan & Goa, Madhya Maharashtra, Marathwada, Nagaland, Manipur, Mizoram & Tripura, Odisha, West Bengal & Sikkim, Bihar and Jharkhand.
- Maximum temperature departures as on 15.03.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over West Uttar Pradesh; at a few places over Punjab and Haryana, Chandigarh & Delhi; at isolated places over northwest Rajasthan; above normal (1.6°C to 3.0°C) at most places over north Madhya Pradesh; at many places over East Rajasthan; at a few places over Jammu & Kashmir, East Uttar Pradesh, Saurashtra & Kutch, Gangetic West Bengal, Odisha and Assam & Meghalaya. They

were appreciably below normal (3.1°C to 5.0°C) at most places over south Madhya Maharashtra; at a few places over Himachal Pradesh and North Interior Karnataka; at isolated places over north Konkan & Goa; below normal (1.6°C to 3.0°C) at a few places over Vidarbha; at isolated places over south Madhya Pradesh, South Interior Karnataka, Kerala and Tamilnadu and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.4°C was recorded at Anantapur (Rayalaseema) over the country.

- Minimum temperature departures as on 16.03.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Jharkhand and Bihar; at many places over Sub Himalayan West Bengal & Sikkim, Chhattisgarh and Telangana; at a few places over Assam & Meghalaya, Gangetic West Bengal, Rajasthan, Konkan & Goa, Rayalaseema and Tamilnadu; at isolated places over Odisha, West Uttar Pradesh, Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Coastal Andhra Pradesh; above normal (1.6°C to 3.0°C) at most places over Marathwada; at a few places over East Uttar Pradesh, East Madhya Pradesh, Saurashtra & Kutch and Coastal & North Interior Karnataka. They are below normal (1.6°C to 3.0°C) at a few places over Himachal Pradesh; at isolated places over Vidharbha and Andaman & Nicobar Islands and near normal over rest parts of the country. The lowest minimum temperature of 12.0°C recorded at Bharatpur (East Rajasthan) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 16 March (Day 1): Thunderstorm accompanied with gusty winds very likely at isolated places over Odisha, Jharkhand, south Chhattisgarh, Vidharbha, Telangana, Rayalaseema, South interior Karnataka, interior Tamilnadu and Kerala. Thunderstorm accompanied with squall very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 17 March (Day 2): Thunderstorm accompanied with gusty winds very likely at isolated places over Odisha, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh, Telangana, Rayalaseema, South interior Karnataka and Interior Tamilnadu. Thunderstorm accompanied with squall very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 18 March (Day 3): No weather warning.
- 19 March (Day 4): No weather warning.
- 20 March (Day 5): No weather warning.
- The weather outlook for the period of seven days *i.e* 16 March to 24 March 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Chandigarh, Rajasthan, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidharbha, South Interior Karnataka, Coastal Karnataka, North Interior Karnataka,

Telangana, Rayalaseema Kerala, Tamilnadu, Lakshadweep and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

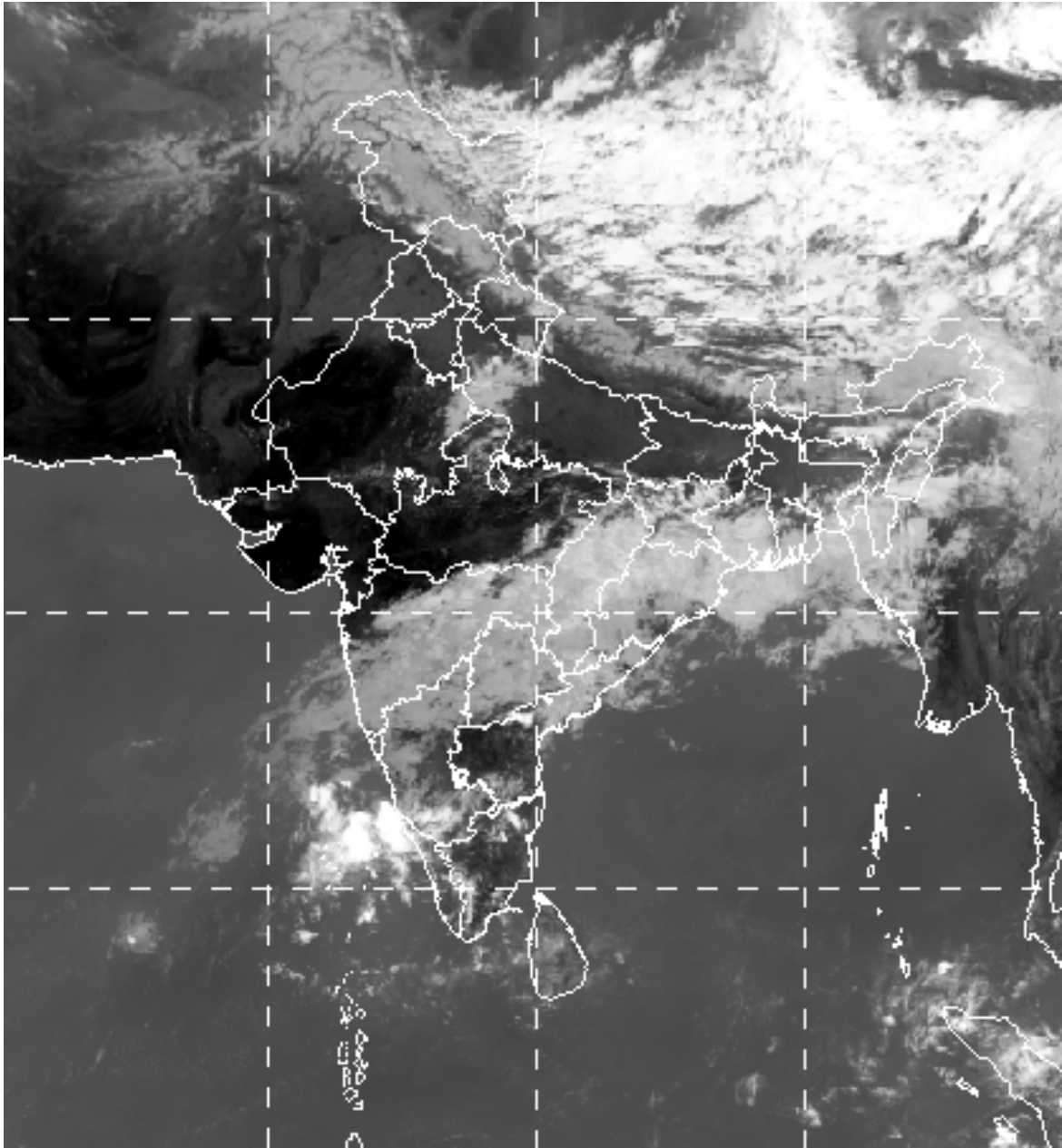
Punjab

Weather condition

Dry and clear weather prevailed in Punjab state during past few days. Maximum temperatures range was from 15.0 to 19.4°C and the minimum temperature ranged between 10.6 to 13.0°C.

Contingency measure:

- Weather based Advisories: Farmers are advised to survey the field for the appearance of yellow rust disease in wheat. If appeared, spray with 200 ml Tilt/Bumper/Shine/Stilt/Compass/Markzole 25 EC using 200 litres of water per acre to check its further spread.
- Monitor wheat and mustard crop for aphid attack. If the population reaches ETL, spray with recommended insecticide Actara (Thiamethoxam 25 WG @ 20 g/acre in wheat and 40 g/acre in mustard) using 80-100 litres of water. It is the best time for direct sowing of all the cucurbits, okra and cowpea.
- Nursery of tomato, brinjal and chilli can be transplanted. Ensure light and frequent irrigations to the newly planted deciduous fruit plants. Spray Mancozeb 75WP @ 2.5 g per liter water to check black spot disease in ber. Spray Roger 30 EC @ 1.7 ml per liter of water to manage fruit fly in Ber.
- Complete the harvesting in kinnow mandarin. Remove the dead, dried and diseases shoots from citrus plants as soon as early and spray the pruned plants with Bordeaux mixture 2:2:250 or Blitox 3.0 g per liter water.
- Protect newly born calves from cold during cold weather as they are susceptible to attack of pneumonia. Deworming should be done in calves especially against Ascariasis/Malap. Feed well chaffed berseem mixed with wheat straw to avoid Tympany..



**Figure: 1. Latest available satellite picture as on 16 March 2018 at 0230 Hrs (IST).
(Source: IMD).**

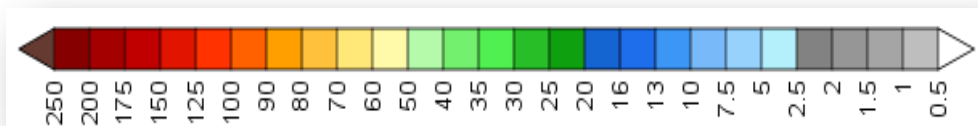
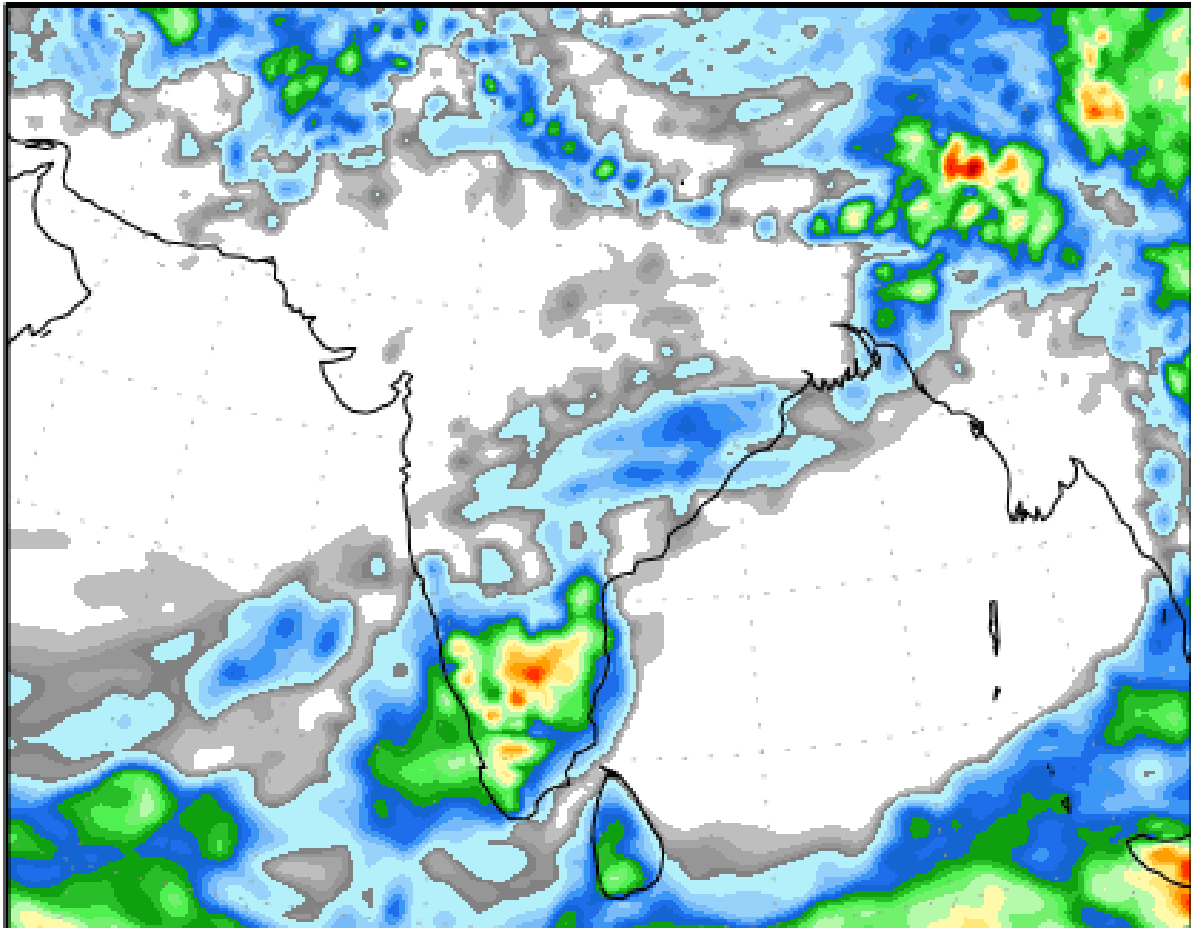


Figure: 2. Precipitation forecast for 16 March to 24 March 2018 (Source: NOAA NCEP).