

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 01 April 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A combination of weather systems in the lower, middle & upper troposphere is causing moisture incursion and conducive conditions for scattered precipitation along with Thundersqualls over Gangetic West Bengal, Assam & Meghalaya, Mizoram & Tripura, Odisha, Jharkhand and Bihar during next 24 hours. A northsouth trough is likely to cause isolated thunderstorms over parts of south peninsula during next 24 hours.
- Heat wave conditions are likely to continue over parts of northwest and central India during next 23 days, with severe heat wave in one or two pockets of West Rajasthan today.
- Heat wave conditions prevailed at some parts with severe heat wave conditions at one or two pockets over West Rajasthan.
- Thunderstorm observed at a few places over Jharkhand, Telangana and Kerala; at isolated places over East Madhya Pradesh, Chhattisgarh, Odisha, West Bengal & Sikkim, South Interior Karnataka and Tamilnadu & Puducherry from 1130 to 1730 hrs IST of today..
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall recorded (from 083 to 1730 hours IST of today): Rain/thundershowers observed at a few places over Jharkhand; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, East Madhya Pradesh, Telangana and Tamilnadu & Puducherry. ♦ Amount of Rainfall recorded at 1730 hours IST of today (1 cm or more) are: Jamshedpur2; Kohima, Ranchi and Hyderabad1 each.
- Maximum temperature departures as on 01042018: Maximum temperatures are markedly above normal (5.1°C or more) at most places over Jammu & Kashmir; at many places over West Rajasthan; at a few places over Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Himachal Pradesh; at a few places over East Rajasthan; above normal (1.6°C to 3.0°C) at many places over Punjab, West Madhya Pradesh, Marathwada and Assam & Meghalaya; at a few places over East Madhya Pradesh, Vidarbha, Gujarat, Nagaland, Manipur, Mizoram & Tripura and at isolated places over Tamilnadu & Puducherry; They are appreciably below normal (3.1° C to 5.0° C) at many places over

Gangetic West Bengal; below normal (1.6 °C to 3.0° C) at most places over Bihar; at many places over East Uttar Pradesh, Jharkhand & Chhattisgarh and at a few places over Odisha and near normal over rest of the country. The highest maximum temperature of 43.2°C recorded at Phalodi (West Rajasthan) over the plains of the country.

- Minimum temperature departures as on 01042018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu & Kashmir; at isolated places over West Rajasthan and Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Telangana & Rayalaseema; at many places over Punjab; at a few places over Himachal Pradesh, East Rajasthan, Haryana, Chandigarh & Delhi, Saurashtra & Kutch and Tamilnadu & Puducherry; at isolated places over Gujarat region, Vidarbha and south Coastal Andhra Pradesh. They are appreciably above normal (3.1° C to 5.0° C) at a few places over Chhattisgarh, Konkan & Goa and North Interior Karnataka; at isolated places over Odisha; below normal (1.6° C to 3.0° C) at a few places over Gangetic West Bengal and near normal over rest of the country. The lowest minimum temperature of 14.0°C recorded at Shivpuri (West Madhya Pradesh) over the plains of the country.

Warning during next 5 days (IMD)

- 01 April (Day 1): Thunderstorm accompanied with squall and hail very likely at isolated places over Jharkhand. Thunderstorm accompanied with squall very likely at isolated places over Odisha, Gangetic West Bengal, west Assam & Meghalaya and Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over southeast Uttar Pradesh, East Madhya Pradesh, Bihar, Chhattisgarh, Telangana, Rayalaseema, Coastal Andhra Pradesh, Kerala and Tamilnadu & puducherry. Heat wave conditions very likely to prevail over some parts with severe heat wave conditions at one or two pockets over West Rajasthan and Jammu Division; heat wave conditions very likely over some parts of Himachal Pradesh and East Rajasthan.
- 02 April (Day 2): Thunderstorm accompanied with gusty winds very likely at isolated places over Odisha, Gangetic West Bengal, Telangana, Rayalaseema, Coastal Andhra Pradesh and Tamilnadu & puducherry. Heat wave conditions very likely to prevail at one or two pockets over Rajasthan and Jammu Division.
- 03 April (Day 3): Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Dust storm/Thunderstorm very likely at isolated places over Punjab and Haryana, Chandigarh & Delhi. Heat wave conditions very likely to prevail at one or two pockets over Rajasthan and Madhya Pradesh.
- 04 April (Day 4): Thunderstorm accompanied with squall likely at isolated places over west Assam & Meghalaya and Mizoram & Tripura. Heat wave conditions very likely to prevail at one or two pockets over Rajasthan and Madhya Pradesh.
- 05 April (Day 5): Thunderstorm accompanied with squall likely at isolated places over west Assam & Meghalaya and Mizoram & Tripura.

- The weather outlook for the period of seven days *i.e* 01 to 08 April 2018 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Kerala, Odisha, West Bengal and Northeastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Jharkhad

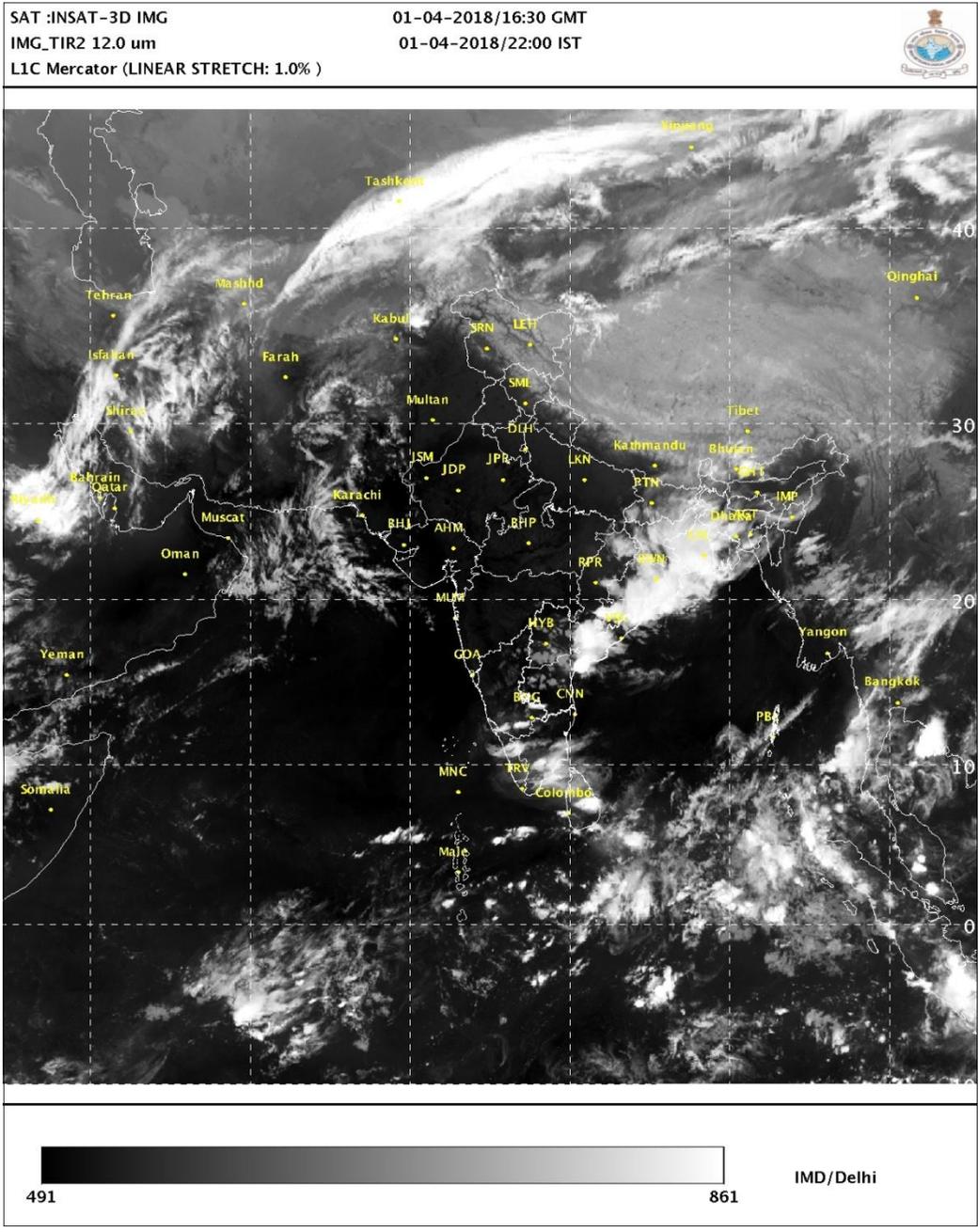
Weather condition

Mainly dry weather prevailed in the state during past few days.

Contingency measure:

- Summer Rice - Maintain the water level in transplanted rice and broadcast urea after 25-30 days of transplanting. To control weeds in the field use conoweeder after 20-25 days of transplanting. Conoweeder not only destroys the weeds but also increases soil aeration. In some pockets crop is attacked by blast disease in which boat shaped spot having ash colour in the centre and dark brown colour on margin appears on leaves. As and when this symptoms appear on leaves, immediately spray the crop with the fungicide Tricylazole (Beam) @ 2 gm per liter of water.
- Wheat- Most of the Crops are at Milking to Grain filling stage. At this stage moisture stress may affect the yield adversely. Hence, maintain the soil moisture of the field and irrigate the field accordingly. In crop field, collect the weeds of Phlaris minor (Gehun ka mama) and Loose smut affected ear-head (in which ear-head converted into black loose powder and does not bear any grain) in polythene bag and burn it carefully. This operation facilitates the quality of produce and is beneficial for those farmers who will use the product as a seed during the next year.
- Summer Mung- In cropped field maintain the soil moisture and irrigate the field as per requirement. Before irrigation, weeding is must to conserve moisture for a longer period.
- Vegetable - Spray bioinsecticide like Halt, Delfin or Biolep @ 1.5 gm per litre of water during clear weather in Brinjal and Bhindi against fruit borer and in Cauliflower and Cabbage against white fly insect. Control the attack of pumpkeen beetle immediately in cucurbitaceous plant. The development stage of these insects takes place in the soil of the field and thereafter adult insects climbs on plant and sucks the sap of the leaves. Hence, wet the soil near the root zone of the plant with the insecticide Chlorpyrifos (4 ml. per liter of water) and also spray the same insecticide on plant @ 2 ml. per liter of water. In absence of the insecticide, broadcast the wood ash mixed with kerosin oil on the plant during morning (before sunrise).
- Mango/Litchi- Irrigate the fruit bearing trees at regular interval. Spray Planofix @ 5 ml per 10 litre of water to check dropping of tiny fruits. Spray sulfex @ 2 gm per litre of water against Powdery mildew disease.

- Goat - The prevailing weather condition is favourable for the attack of T.P.R. disease in which animals suffering with high fever, accompanied with secretion of water droplets from their eyes and nose. The animals also showing the characteristics of Pneumonia disease. To control the disease animals should be vaccinated with T.P.R. vaccine. The dose are 1 ml per adult animal. However, vaccination should be avoided to baby (age less than 3 months) and pregnant animals. Precaution should be taken to avoid the animals grazing in the sun light and avail quality water for drinking.



**Figure: 1. Latest available satellite picture as on 01 April 2018 at 1730Hrs (IST).
 (Source: IMD).**

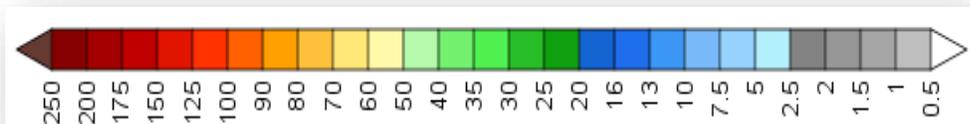
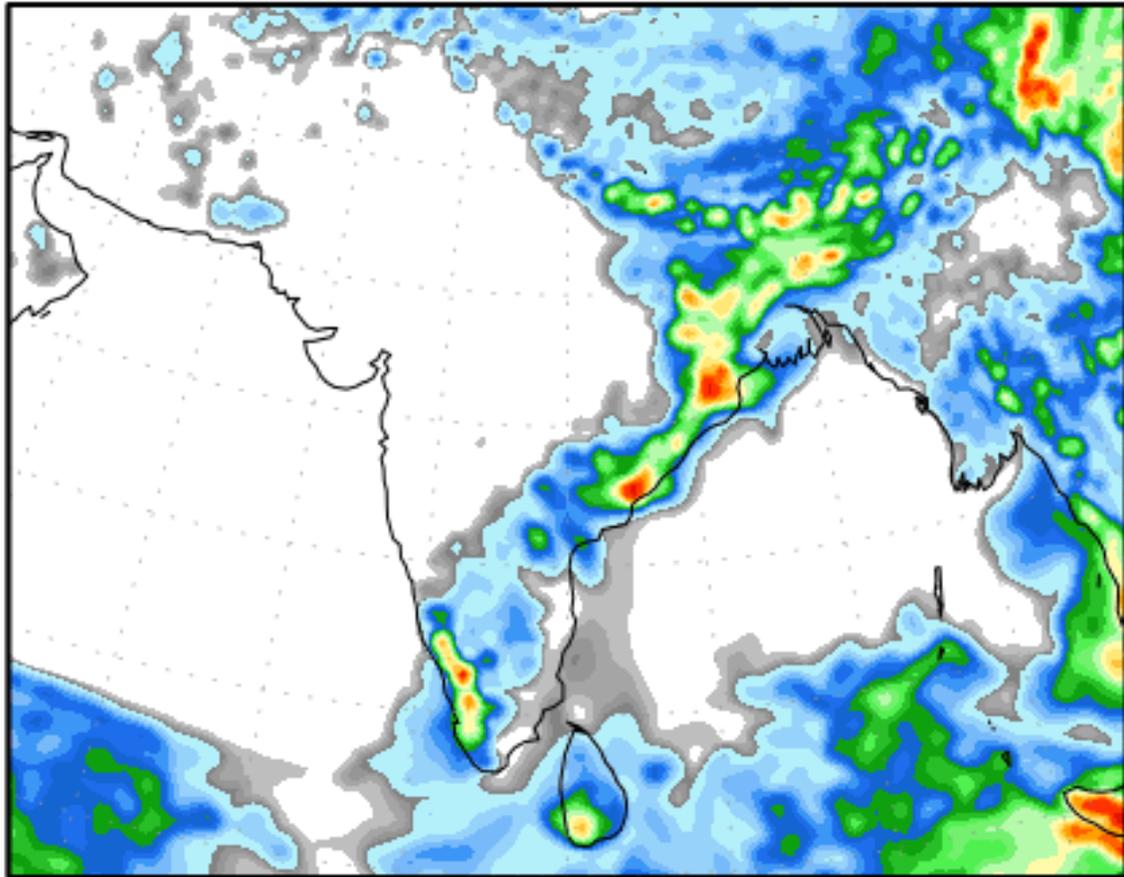


Figure: 2. Precipitation forecast for 01 to 08 April 2018 (Source: NOAA NCEP).