

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 09 April 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Weather producing systems in westerlies in quick succession are very likely to cause fairly widespread to widespread precipitation over Western Himalayan region and scattered to fairly widespread over adjoining northern plains during next 3 days. Isolated thunder squalls and hailstorms are also likely over these regions during this period.
- Northeastern states and adjoining eastern India is likely to experience scattered to fairly widespread precipitation during next 5 days. Isolated thunder squalls are likely over these regions during 09th to 11th April with possibility of hailstorms over Sub Himalayan West Bengal & Sikkim and Assam & Meghalaya. Heavy rains are also likely over Arunachal Pradesh & Meghalaya on 12th April.
- Day temperatures are likely to rise by 2-3° C over major parts of the country from 12th April onwards.
- Thunderstorm observed at many places with Hail storm at isolated places over Jammu & Kashmir and Himachal Pradesh and thunderstorm at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Sub Himalayan West Bengal & Sikkim, Tripura, Madhya Maharashtra, Coastal & South Interior Karnataka, Kerala, Coastal Andhra Pradesh and Andaman & Nicobar Islands from 1130 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 observed (from 0830 hours yesterday to 0830 hours of today): Rain / thundershowers observed at most places over Jammu & Kashmir, Himachal Pradesh; at many places over Arunachal Pradesh, Andaman & Nicobar Islands, Punjab, Haryana, Chandigarh & Delhi, Sub Himalayan West Bengal & Sikkim ; at a few places over Nagaland, Manipur, Mizoram and Tripura, Assam & Meghalaya, Kerala and at isolated places over West Rajasthan, East Madhya Pradesh, Odisha, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka, Telangana and Tamilnadu & Puducherry.
- Maximum temperature departures as on 08.04.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over West Rajasthan; at many

places over Coastal Karnataka; at a few places over Jammu & Kashmir, Himachal Pradesh and Punjab; above normal (1.6°C to 3.0°C) at most places over East Rajasthan; at many places over Haryana & Delhi; at a few places over Gujarat, Konkan & Goa & Kerala; at isolated places over West Madhya Pradesh & Tamilnadu & Puducherry. They were appreciably below normal (3.1°C to 5.0°C) at most places over Bihar & Telangana; at many places over East Uttar Pradesh & Gangetic West Bengal; at a few places over Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya, Odisha & Vidharbha; at isolated places over Coastal Andhra Pradesh & Andaman Nicobar Islands and below normal (1.6°C to 3.0°C) at many places over Tripura, Jharkhand & North Interior Karnataka; at isolated places over West Uttar Pradesh & Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.4°C was recorded at Barmer (West Rajasthan) over the plains of the country.

- Minimum temperature departures as on 09.04.2018: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Rajasthan; appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand; at a few places over Himachal Pradesh and Punjab ; at isolated places over Jammu & Kashmir and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Saurashtra & Kutch; at isolated places over Gujarat region East Madhya Pradesh and Tamilnadu & Puducherry. They are appreciably above normal (3.1°C to 5.0°C) at a few places over Telangana; below normal (1.6°C to 3.0°C) at a few places over Gangetic West Bengal and Konkan & Goa; at isolated places over Assam & Meghalaya, Bihar and South Interior Karnataka and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 09 April (Day 1): Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, West Uttar Pradesh and Sub Himalayan west Bengal & Sikkim. Thunderstorm accompanied with squall very likely at isolated places over east Bihar and northern parts of Gangetic West Bengal. Thunderstorm accompanied with gusty winds very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, north Chhattisgarh, north Madhya Pradesh, Jharkhand, Odisha and north Coastal Andhra Pradesh.
- 10 April (Day 2): Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Sub Himalayan West Bengal & Sikkim. Thunderstorm accompanied with squall very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and northern parts of Gangetic West Bengal.
- 11 April (Day 3): Thunderstorm accompanied with squall and hail very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Thunderstorm accompanied with squall very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh. Duststorm/thunderstorm very likely at isolated places over Rajasthan.

- 12 April (Day 4): Heavy rainfall likely at isolated over Assam & Meghalaya and Arunachal Pradesh.
- 13 April (Day 5): Heat wave conditions likely at one or two pockets over Rajasthan.
- The weather outlook for the period of seven days *i.e* 09 to 15 April 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, Punjab, Haryana, Chandigarh & Delhi, Sub Himalayan West Bengal & Sikkim, West Rajasthan, East Madhya Pradesh, Odisha, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka, Telangana, Kerala, Tamilnadu & Puducherry, Andaman & Nicobar Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Bihar hailstorm and Crop damage

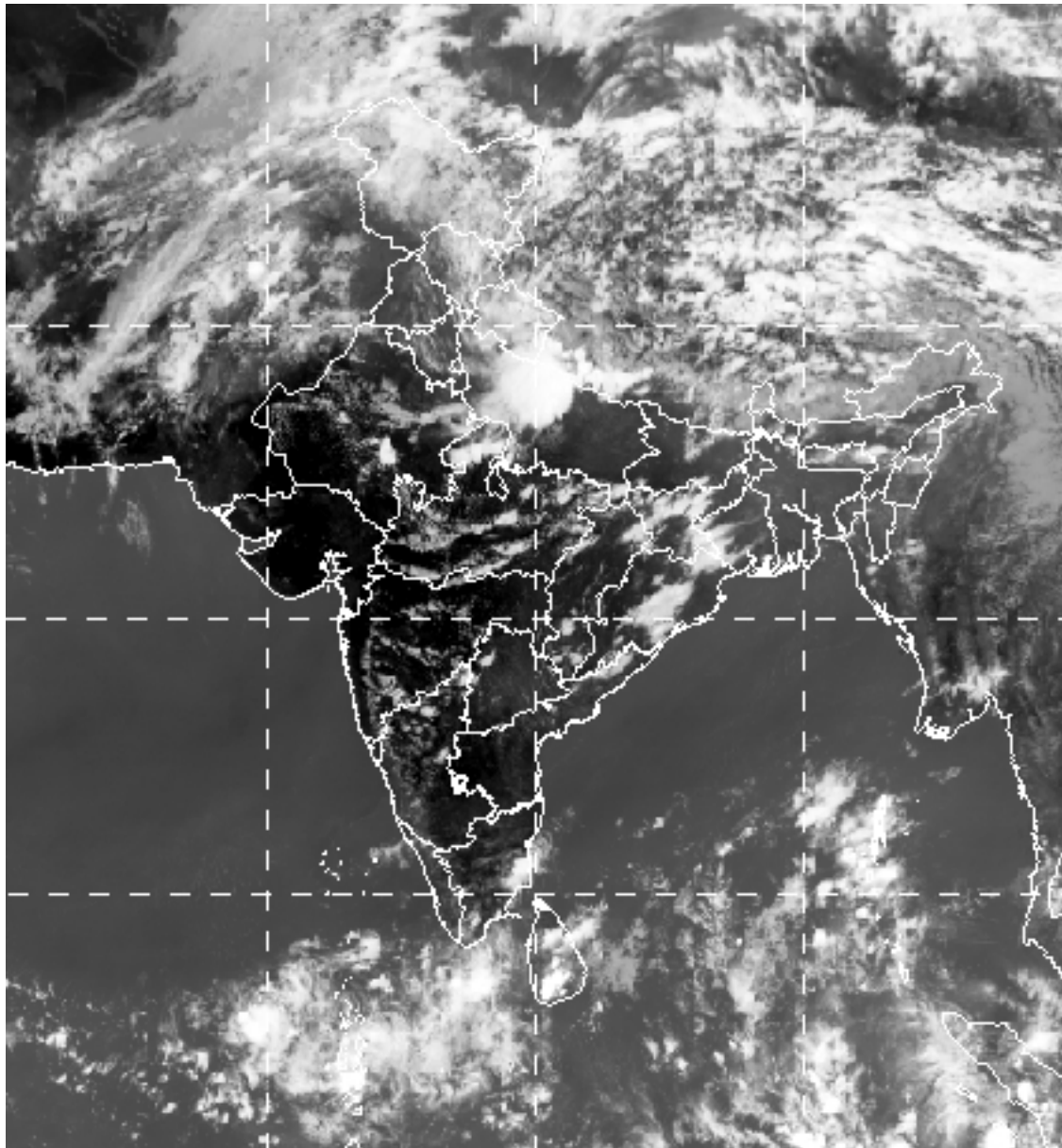
A very severe hailstorm with wind velocity of around 60-70 km per hour lashed several districts of north Bihar on 7 April, 2018. East Champaran, Sitamarhi, Gopalganj, Muzaffarpur, Samastipur, Drabhang and Vaishali districts were worst hit.

Crop Impacts: The hailstorms accompanied by high velocity wind severely damaged standing wheat, maize, vegetables, banana, mango and litchi. Almost 30-40 percent wheat in these districts were completely damaged. In Muzaffarpur and vaishali districts, almost all standing wheat crop in many blocks was totally devastated. The photographs of of crop damages are attached herewith.

Photographs:







**Figure: 1. Latest available satellite picture as on 09 April 2018 at 0230 Hrs (IST).
(Source: IMD).**

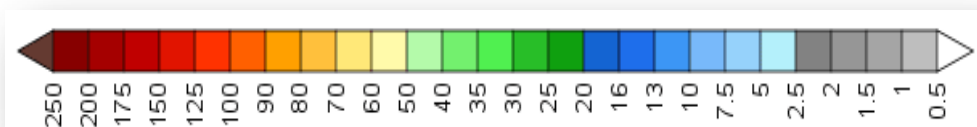
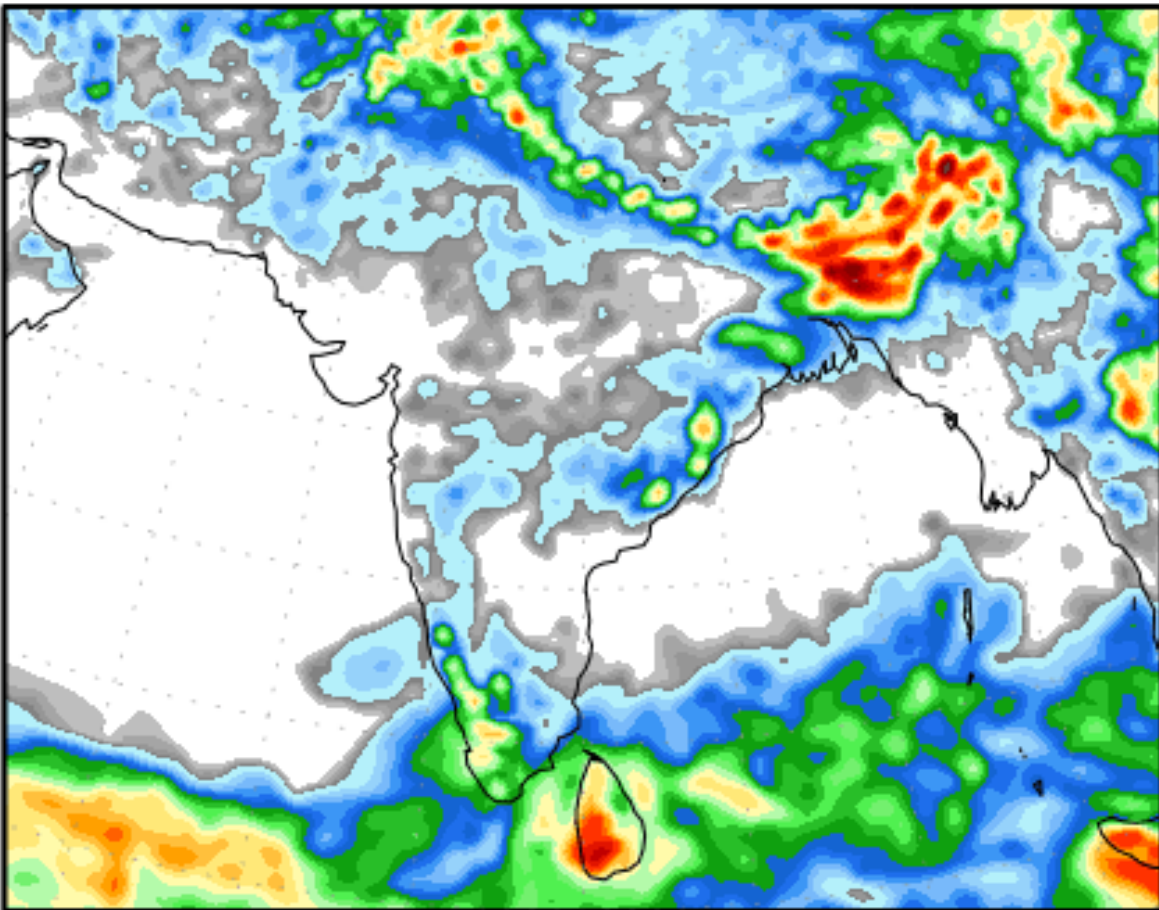


Figure: 2. Precipitation forecast for 09 to 15 April 2018 (Source: NOAA NCEP).