

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 07 March 2022

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Significant Weather Features (IMD)

- Wet spell over Western Himalayan Region & adjoining plains of Northwest India:
 - The Western Disturbance as a trough aloft in middle tropospheric levels along Long.72°E to the north of Lat.25°N.
- An induced cyclonic circulation lies over West Rajasthan & neighbourhood at lower tropospheric levels. Under its influence:
 - i) Scattered to fairly widespread light/moderate rainfall/snowfall with isolated thunderstorm/lightning very likely over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh and isolated light rainfall/snowfall over Uttarakhand during next 24 hours.
 - ii) Isolated light rainfall very likely over Punjab and Haryana-Chandigarh during next 24 hours. Another Western Disturbance is very likely to affect Western Himalayan Region from the night of 08th March, 2022. Under its influence:
 - Scattered to fairly widespread light/moderate rainfall/snowfall with isolated thunderstorm/lightning very likely over Jammu-KashmirLadakh-Gilgit-Baltistan-Muzaffarabad & Himachal Pradesh on 09th March and isolated rainfall/snowfall on 10th March, 2022.
- Weather over Central & South Peninsular India:
 - A trough in easterlies runs from Gulf of Mannar to north Tamil Nadu coast in lower tropospheric levels. Under its influence, scattered light to moderate rainfall/thundershowers very likely over Tamil Nadu, Puducherry & Karaikal during next 24 hours and decrease thereafter.
 - Due to wind confluence and trough in easterlies over central parts of country; isolated light/moderate rainfall with thunderstorm/lightning/gusty winds very likely over Maharashtra, Gujarat Region, East Rajasthan and West Madhya Pradesh during 07th to 10th March. Isolated hailstorm also likely over Madhya Maharashtra on 08th & 09th March, 2022.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and at isolated places over Himachal Pradesh, Rayalaseema, Kerala & Mahe and Tamilnadu-Puducherry-Karaikal.
- Heavy rainfall observed at isolated places over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Nil.
- Maximum Temperature Departures (as on 06-03-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and at isolated places over Jammu & Kashmir, Konkan & Goa, Coastal Karnataka and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Gujarat State, Vidarbha, Kerala & Mahe and Odisha and at isolated places over Himachal Pradesh, West Rajasthan, Madhya Pradesh, Tamil Nadu-Puducherry-Karaikal and Gangetic West Bengal. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Uttar Pradesh and Rayalaseema; below normal (-1.6°C to -3.0°C) at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.6°C was reported at Malegaon (Madhya Maharashtra) over the country.
- Minimum Temperature Departures (as on 07-03-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Punjab; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and SubHimalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at many places over Gujarat region and Marathawada; at a few places over Haryana-Chandigarh-Delhi, Saurashtra & Kutch, Madhya Maharashtra and West Madhya Pradesh; at isolated places over Rajasthan, Vidarbha, Assam & Meghalaya, Andaman & Nicobar Islands and Kerala-Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Gangetic West Bengal, Bihar and Rayalaseema; at isolated places over Odisha, Telangana and Coastal Andhra Pradesh-Yanam and near normal over rest parts of the country. Today, the lowest minimum temperature of 9.8°C reported at Ajmer (East Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 07 March (Day 1): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places very likely over West Madhya Pradesh and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad, Himachal Pradesh, Gujarat Region, Konkan-Goa, Madhya Maharashtra, Marathwada, Kerala & Mahe and Tamil Nadu-Puducherry-Karaikal.
- 08 March (Day 2): Thunderstorm accompanied with lightning & hail at isolated places very likely over Madhya Maharashtra; with lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places over West Madhya Pradesh and southeast Rajasthan and with lightning at isolated places over Gujarat Region, Konkan-Goa, Marathwada and Andaman & Nicobar Islands.
- 09 March (Day 3): Thunderstorm accompanied with lightning & hail at isolated places very likely over Madhya Maharashtra; with lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places over southeast Rajasthan and with lightning at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, East Madhya Pradesh, Gujarat Region, Konkan-Goa, Marathwada and Andaman & Nicobar Islands.
- 10 March (Day 4): Thunderstorm accompanied with lightning at isolated places likely over East Madhya Pradesh.
- 11 March (Day 5): No weather warning.
- The weather outlook for seven days i.e., 07 Mar to 15 Mar 2022 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Gujarat

Weather condition:

The actual maximum temperature was 0.6 °C and actual minimum temperature was 2.4 °C higher as compared to their normals. Total BSS was 67.0 hrs. with an average of 9.6 hrs. The daily average evaporation and wind speed was 5.2 mm and 3.1 km/hr respectively. The daily average RH during morning and afternoon was 74.7 % and 29.3 % respectively.

Contingency measure:

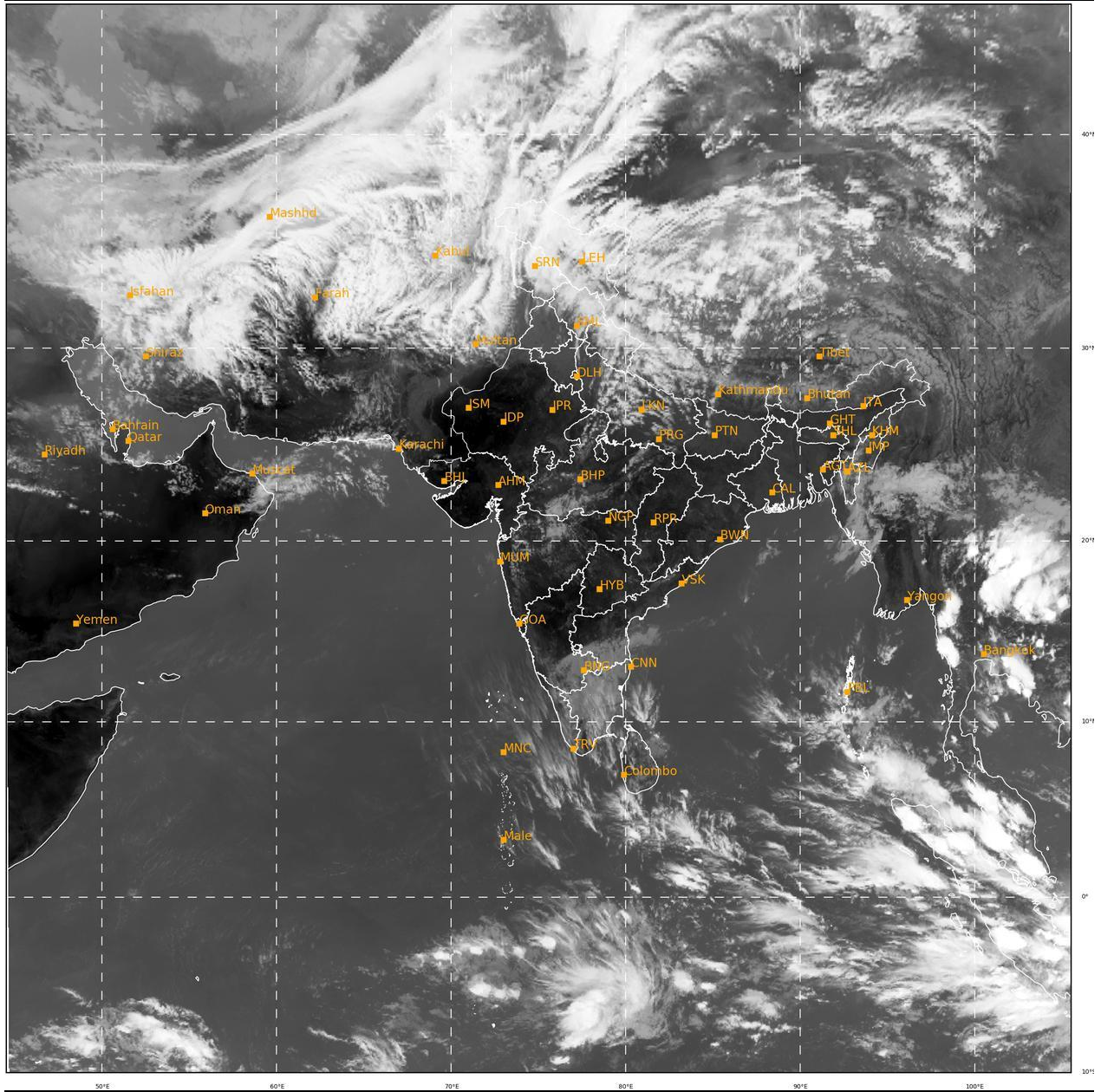
- Wheat: daugh : Termite : To control termite apply chlorpyriphos 20 EC 2 to 2.5

liter/ha with irrigation water.

- Mustard : Maturity/Harvesting : Harvest the mature crop and keep it in the field for sun dry. Protect the harvested crop from birds.
- Pearl millet : Prepare the land by doing by 2-3 ploughing with cultivator to pulverize the soil. Apply 10 t/ha well decomposed FYM. Procure seeds of varieties of pearl millet crop select hybrid varieties like GHB-538, 558, 719, 732, 744, 905 etc.
- Tobacco : Harvest the mature leaves by curing or priming method and keep it for sun dry.
- Gram: Pod development : Apply irrigation, if required. Spray Neem oil @ 50ml/15 liter or *Beuveria bassiana* @ 50g/15 liter in clear weather condition for management of *Helicoverpa* caterpillars.
- Chilli : For control of thrips, spray Profenofos 20 ml or neem seed oil 50 ml in 10 liter water. In case of severe attack, spray Spinosad or Spinetoram 3 ml per 10 liter of water.
- Tomato: There is possibility of incidence of spotted wilt virus, spray Carbendenzim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.
- Potato : Late blight : To control late blight, spray Chlorothalonil fungicide 75 WP 25 g in 10 liter of water in clear weather condition.
- Castor : To control capsule borer, spray neem seed kernal powder (5% extract) 500 g or *Beauveria bassiana* or *Verticillium lecanii* fungus powder 40 g in 10 liter of water.
- Vegetables : Flowering/ Reproductive : For the control of White fly/Aphid spray neem seed extract 500 ml or neem seed oil 50 ml in 10 liter water at 15 days interval (4 sprays) or Acetamiprid 20 % SP@ 5.0 gm/10 liter water at 15 days interval.
- Cattle : Keep animal shed hygienic and clean to avoid flies and mosquitoes. Keep the animals indoor at night time for protecting against extreme cold wind. Disease (like, Anthraces, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

07-03-2022/(0830 to 0857) GMT
07-03-2022/(1400 to 1427) IST



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IMD,DELHI

Figure: 1. Latest available satellite picture as on 07 Mar 2022 at 1427 Hrs (IST). (Source: IMD).

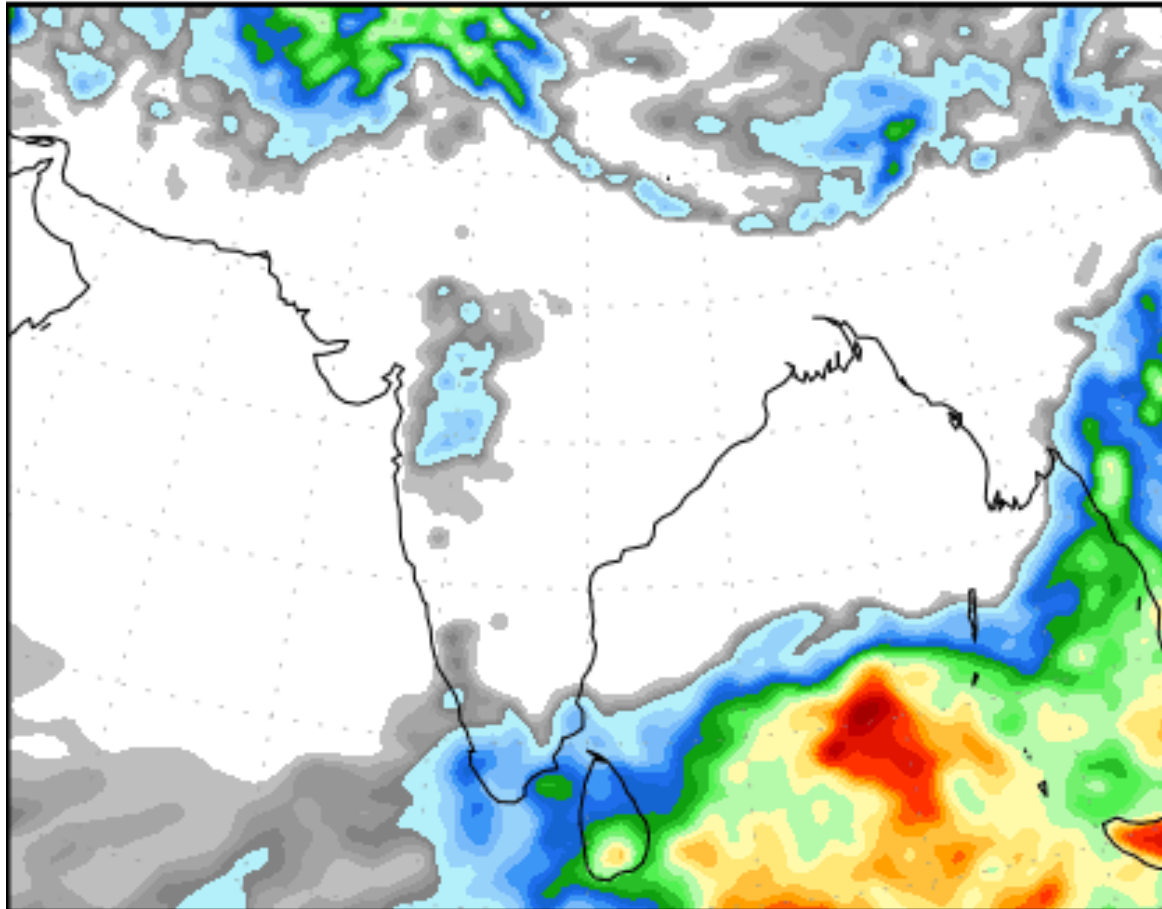


Figure:2. Precipitation forecast for 07 Mar to 15 Mar 2022 (Source: NOAA NCEP).

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