

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 April 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a trough in mid-tropospheric levels over Jammu & Kashmir and an induced cyclonic circulation over central Pakistan & neighbourhood are likely to cause scattered to fairly widespread rain/thundershowers over Western Himalayan region (Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Himachal Pradesh) during next 24 hours. Isolated thunderstorms/hailstorms and gusty winds are also likely over Western Himalayan region during same period.
- A fresh Western Disturbance is likely to affect Western Himalayan Region and adjoining northern plains from 17th April. It is very likely to cause scattered to Fairly widespread rain/thundershower over Western Himalayan Region and isolated to scattered rain/thundershower over northern plains on 17th & 18th April. This could also result in isolated thunderstorms/hailstorms and gusty winds over these areas during the same period.
- Due to the convergence of strong moist winds from the Bay of Bengal, eastern states (especially West Bengal & Sikkim and east Bihar) and Northeast India are very likely to experience fairly widespread to widespread rainfall with isolated heavy falls over Sub-Himalayan West Bengal and Sikkim and Northeastern states during next 5 days. Thundersqualls & hailstorms are also very likely over these regions during same period.
- Maximum temperatures in the range of 41-43°C are likely to prevail over parts of Telangana, Rayalaseema and North Interior Karnataka during next 3 days. Maximum temperatures likely to fall by 2-3°C over plains of northwest India and Gujarat region during next 2-3 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan and Bihar; at a few places over Uttarakhand; at isolated places over Himachal

Pradesh, Sub-Himalayan West Bengal & Sikkim, East Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

- Yesterday, Heat wave to severe heat wave conditions were observed in isolated pockets over Saurashtra & Kutch.
- Thunderstorm observed (from 1730 IST of yesterday to 0830 hours of today): at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Uttarakhand, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Kerala & Mahe, Chhattisgarh and Madhya Maharashtra.
- Maximum Temperature Departures as on 14-04-2020: Maximum temperatures were markedly above normal (5.0°C or more) at many places over Assam & Meghalaya and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Himachal Pradesh and Arunachal Pradesh.; appreciably above normal (3.1°C to 5.0°C) at many places over Saurashtra & Kutch; a few places over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan and at isolated places over northwest Rajasthan, Gujarat Region and Konkan & Goa.; above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Kerala; at a few places over southwest Rajasthan and Coastal Karnataka and at isolated places over West Rajasthan, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, coastal Odisha and Tamil Nadu and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.4°C was reported at Akola (Vidarbha).
- Minimum Temperature Departures as on 15-04-2020: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Punjab; at a few places over Rajasthan; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad; appreciably above normal (3.1°C to 5.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over West Uttar Pradesh, Himachal Pradesh and Uttarakhand; at isolated places over Gujarat state, Madhya Pradesh, East Uttar Pradesh and Marathwada; above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya, Andaman & Nicobar Islands; at a few places over Madhya Maharashtra, Jharkhand and West Bengal & Sikkim; at isolated places over Coastal Karnataka and Kerala & Mahe. They are below normal (-1.6°C to -3.0°C) at isolated places over Chhattisgarh, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.2°C reported at Dhar (West Madhya Pradesh) over plains of the country.

Weather Warning during the next 5 days (IMD)

- 15 April (Day 1): Thunderstorm accompanied with lightning, hail & squall (speed reaching 50-60 kmph) very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Jammu and Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad ; with lightning & gusty winds (speed reaching 30- 40 kmph) at isolated places over Arunachal Pradesh, Madhya Maharashtra, Marathawada, Sub-Himalayan West Bengal & Sikkim and with lightning over Himachal Pradesh, Kerala & Mahe, Konkan and Goa, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Jharkhand and Bihar. Isolated Heavy rain very likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim. Heat Wave conditions very likely in isolated pockets over Saurashtra & Kutch.
- 16 April (Day 2): Thunderstorm accompanied with lightning, hail & squall (speed reaching 40-50 kmph) very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely over Arunachal Pradesh, Vidarbha and Bihar ; with lightning over Kerala & Mahe, Marathawada, Chhattisgarh, Gangetic West Bengal, Odisha and Jharkhand. Heavy rainfall likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 17 April (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand ; with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Punjab, Haryana, Chandigarh and Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, West Uttar Pradesh, Odisha, Bihar, Chhattisgarh, Madhya Maharashtra and Marathawada and with lightning at isolated places over Kerala & Mahe, South Interior Karnataka, Telangana, East madhya Pradesh, Vidarbha, Gangetic West Bengal and Jharkhand. Dust/Thunderstorm accompanied with gusty winds likely at isolated places over Rajasthan. Squally weather (wind speed 45-55 kmph) likely to prevail over northwest Bay of Bengal off West Bengal-Odisha coasts. Fishermen are advised not to venture into these areas.
- 18 April (Day 4): Thunderstorm accompanied with lightning & squall (speed reaching 45-55 kmph) likely at isolated places over West Bengal & Sikkim and

Bihar. Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh and Uttarakhand; with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Arunachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Coastal Andhra Pradesh, Madhya Maharashtra, Marathawada, Chhattisgarh, Odisha and Jharkhand and with lightning at isolated places over Kerala & Mahe, Karnataka State, Telangana, Rayalaseema, Madhya Pradesh and Vidarbha. Heavy rainfall likely at isolated places over Assam & Meghalaya and Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim.

- 19 April (Day 5): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, Madhya Maharashtra, Marathawada, Chhattisgarh and Odisha and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, East Uttar Pradesh, Kerala & Mahe, Karnataka State, Telangana, Rayalaseema, Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Jharkhand and Bihar. Heavy rainfall likely at isolated places over Assam & Meghalaya and Arunachal Pradesh.
- The weather outlook for seven days i.e., 15 to 23 April 2020 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)

Andhra Pradesh

Weather condition:

Dry weather prevails in both coastal Andhra Pradesh and Rayalaseema regions. The maximum temperatures ranged from 32.8-40.8 °C in CAP and 34.5-41.2°C in Rayalaseema and minimum temperatures were in the range of 23.2-28.4°C in CAP and 120.5-28.9 °C in Rayalaseema during the week.

Contingency measure:

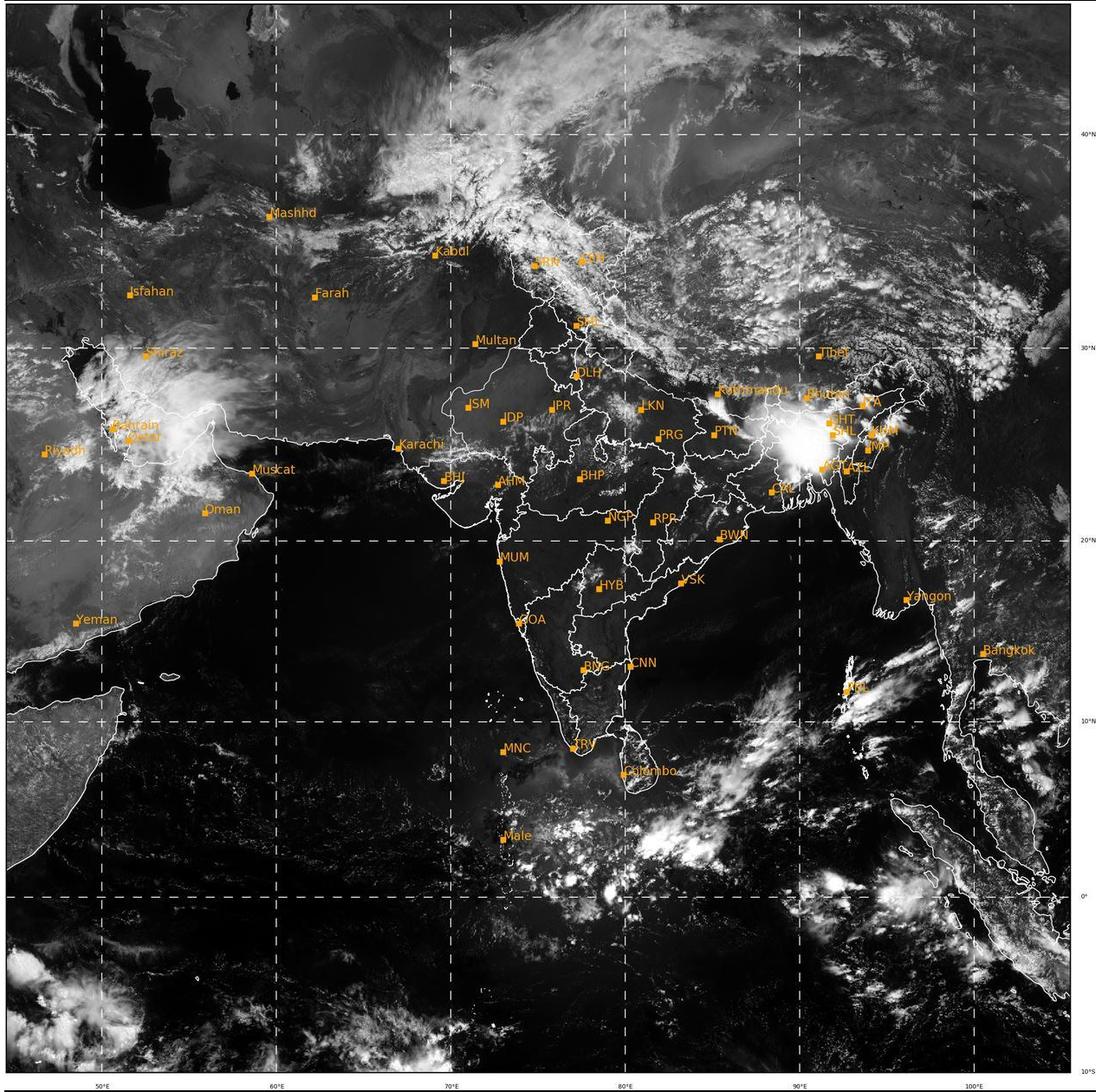
- Rice: The present weather conditions are favourable for BPH, stem borer and leaf folder in paddy. BPH control to spray buprofigin @ 1.5 ml. (or) Ithofenprox @ 2 ml/L of water. Stem borer and leaf folder control to spray cartaphydrochloride @ 2 g. (or) chloripyriphos @ 2.5 ml./L of water. Pomegranate: The present weather

conditions are favourable for Anthracnose disease incidence. For control to spray mancozeb 2.5 g/l of water.

- Mango: The prevailing weather conditions are favorable for incidence of powdery mildew, hoppers and thrips in mango. Powdery mildew control, farmers are advised to spray hexaconazole 2 ml or karathane 1 ml for liter of water. Thrips control to spray fipronil 2 ml/l and hoppers control to spray phosphamidon 0.5 ml or dimethoate 2 ml/l of water. The prevailing weather conditions are favorable for incidence fruit fly in mango. Farmers are advised to to keep methyl uzanol traps @ 6-7 /acre to trap the fruit fly.
- Orange: Farmers are advised to observe prevailing weather conditions and prevent the flower and fruit drop in citrus and sweet oranges orchards to provide sufficient macro, micronutrients and water.
- Live stock: Raising temperatures are forecasted for next five days, farmers are advised to provide sufficient water, to create shelter and protect livestock from pest and diseases due to raising temperatures.

SAT : INSAT-3D IMG
Visible Count 0.65 um
LIC Mercator

15-04-2020/(0700 to 0727) GMT
15-04-2020/(1230 to 1257) IST



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1018

IMD, DELHI

SAT : INSAT-3D IMG
 Visible Count 0.65 um
 LIC Mercator

15-04-2020/(0700 to 0727) GMT
 15-04-2020/(1230 to 1257) IST

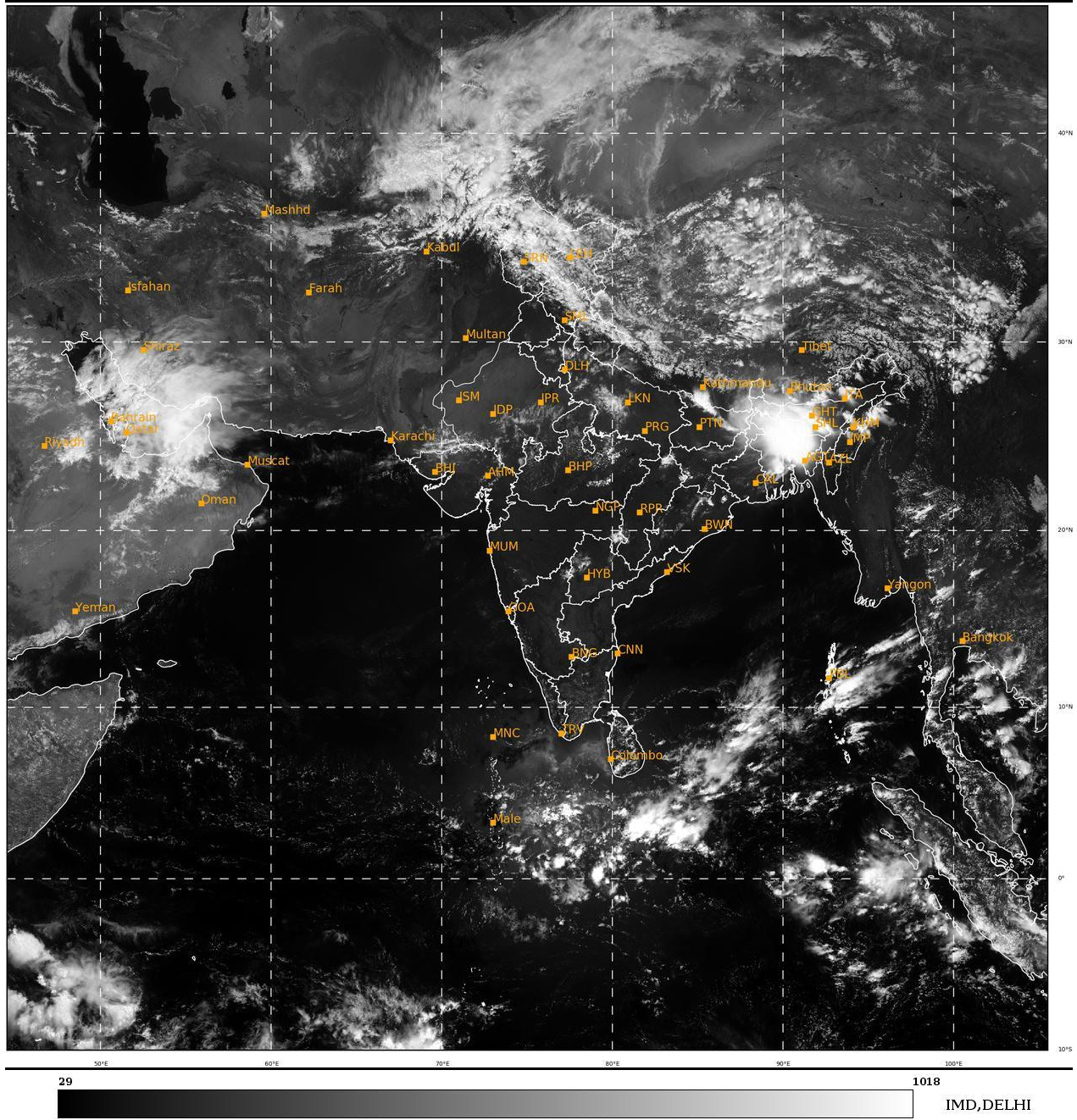


Figure: 1. Latest available satellite picture as on 15 April 2020 at 1257 Hrs (IST). (Source: IMD).

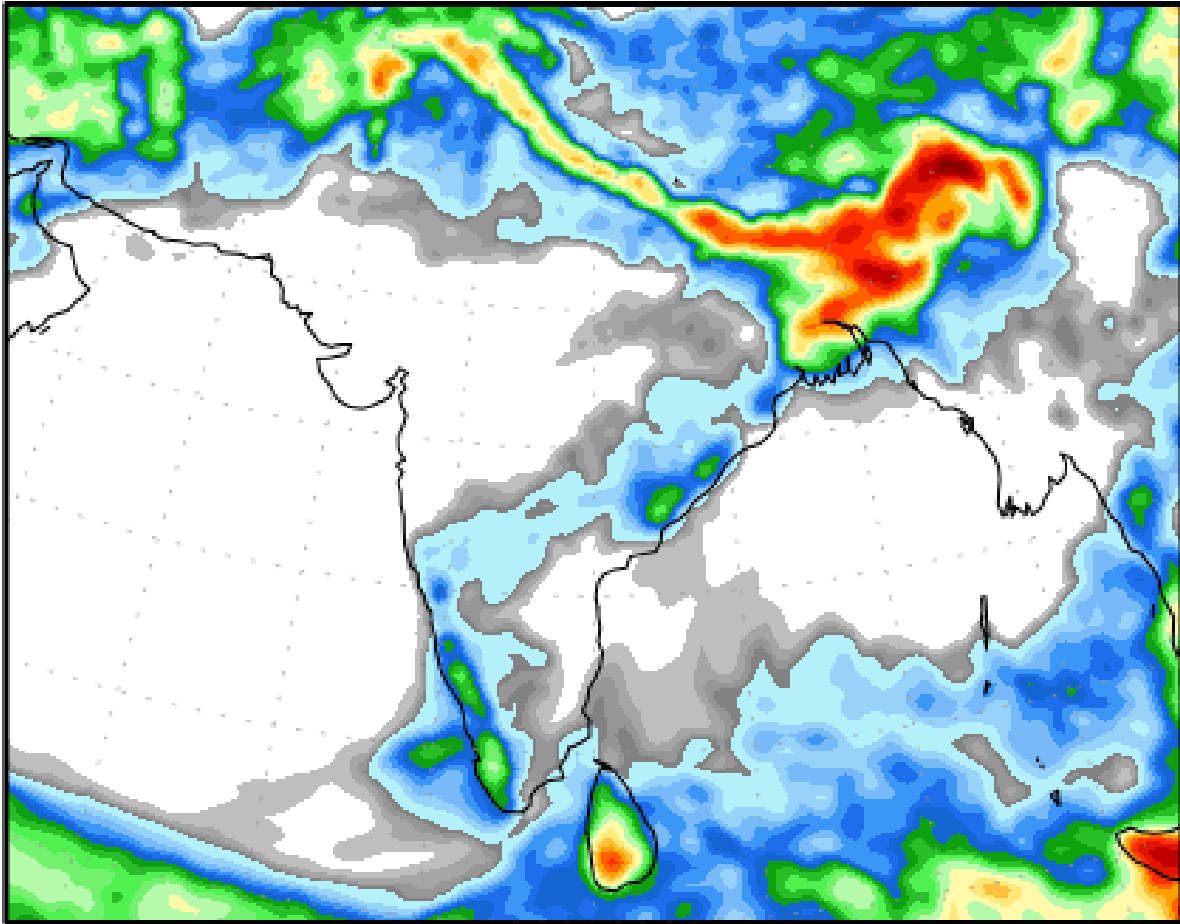


Figure:2. Precipitation forecast for 15 to 23 April 2020 (Source: NOAA NCEP).

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