

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 21 April 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The ongoing fairly widespread rainfall activity with isolated thundersqualls are likely to continue over northeast India and SubHimalayan West Bengal & Sikkim during next 48 hours.
- Isolated thunderstorms/lightning and occasional thundersqualls are very likely over southern parts of peninsular India and along the eastcoast during the forecast period.
- Day maximum temperatures are likely to remain above 40°C over parts of northwest and central India and parts of Telangana and Interior Andhra Pradesh. Heat wave conditions at one or two pocket are likely to continue over eastern parts of Vidarbha. They are likely to develop over northern parts of Telangana, Central parts of Chhattisgarh and also over Western Himalayan region after 48 hours.
- Heavy rain occurred at isolated places over Tripura and hailstorm at isolated places over Gangetic West Bengal. Thunderstorm observed at a few places over Gangetic West Bengal, Kerala, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, and at isolated places over SubHimalayan West Bengal & Sikkim from 0830 to 1730 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 to 1730 hours IST of today): Rain/thundershowers at many places over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya; at a few places over Arunachal Pradesh and at isolated places over West Bengal & Sikkim, Coastal Andhra Pradesh, South Interior Karnataka, Tamilnadu and Kerala. Amount of Rainfall recorded at 1730 hours IST of today (1 cm or more) are: Agartala7; Haflong4; Shanti Niketan2; Kottayam, Rentachintala, Deomali, Imphal and Guwahati1 each.
- Maximum temperature departures as on 21042018: Maximum temperatures are above normal (1.6°C to 3.0°C) at most places over Rayalaseema; at many places over Konkan & Goa, Madhya Maharashtra, Vidarbha, Jharkhand and Odisha; at a few places over Marathwada and at isolated places over Telangana, Coastal & South Interior Karnataka, Kerala and Tamilnadu & Puducherry. They are markedly below normal (5.1° C or Less) at many places over Jammu & Kashmir and Nagaland, Manipur, Mizoram & Tripura; appreciably below

normal (3.1° C to 5.0) at most places over West Rajasthan; at many places over Punjab; at a few places over Assam & Meghalaya and SubHimalayan West Bengal & Sikkim; below normal (1.6° C to 3.0° C) at most places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh, and East Rajasthan; at a few places over Gujarat Region; at isolated places over Saurashtra & Kutch and Madhya Pradesh and near normal over rest of the country. The highest maximum temperature of 44.2°C recorded at Chandrapur (Vidarbha) over the plains of the country.

- Minimum temperature departures as on 21/04/2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand; at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Gangetic West Bengal, Bihar and Coastal Andhra Pradesh; at a few places over East Uttar Pradesh, East Madhya Pradesh, Vidharbha, Gujarat Region and SubHimalayan West Bengal & Sikkim; at isolated places over West Madhya Pradesh, Madhya Maharashtra, Tamilnadu & Puducherry. They are appreciably below normal (3.1° C to 5.0° C) at most places over Jammu & Kashmir and Punjab; below normal (1.6° C to 3.0° C) at many places over Himachal Pradesh and West Rajasthan and near normal over rest parts of the country.

Weather Warning during next 5 days (IMD)

- 21 April (Day 1): Thunderstorm accompanied with squall and hail very likely at isolated places over West Bengal & Sikkim. Thunderstorm accompanied with squall very likely at isolated places over Jharkhand, Mizoram and Tripura, Thunderstorm accompanied with gusty winds very likely at isolated places over Bihar, Odisha, Assam & Meghalaya, South Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema, South Interior Karnataka, Tamilnadu and Kerala. Heavy rain very likely at isolated places over south Assam & Meghalaya, Mizoram and Tripura. Duststorm/thunderstorm at isolated places very likely over Uttar Pradesh. Strong winds speed occasionally reaching 4050 kmph with moderate to rough sea conditions are very likely along and off West Bengal/Odisha coasts. Fishermen are advised not to venture into the Sea along & off these coasts. Based on the forecast generated by INCOIS, moderate to rough sea conditions are very likely to prevail along the West coast of India and rough to very rough over southern parts of West Coast, South Tamilnadu and Lakshadweep area in the morning hours. Fishermen are advised to be cautious while venturing into the Sea along & off these areas.
- 22 April (Day 2): Thunderstorm accompanied with squall and hail very likely at isolated places over SubHimalayan West Bengal & Sikkim. Thunderstorm accompanied with squall very likely at isolated places over Gangetic West Bengal. Thunderstorm accompanied with gusty winds very likely at isolated places over Bihar, Odisha, Assam & Meghalaya, Mizoram & Tripura, Telangana, Rayalaseema, Tamilnadu, South Interior Karnataka and Kerala. Heat wave conditions very likely in some parts of north Telangana, in one or two pockets over Chhattisgarh and Vidarbha. Strong winds speed occasionally reaching 4050 kmph with moderate to rough sea conditions are very likely along and off West Bengal/Odisha coasts. Fishermen are advised not to venture into the Sea along & off these coasts. Based on the forecast generated by INCOIS, moderate to rough sea conditions are very likely to prevail along & off the West coast of Andaman & Nicobar Islands. Fishermen are advised to be cautious while venturing into the Sea along & off these areas.

- 23 April (Day 3) :Thunderstorm accompanied with gusty winds very likely at isolated places over Coastal Andhra Pradesh and North Interior Karnataka. Heat wave conditions very likely to prevail in some parts of north Telangana, Jammu & Kashmir, Himachal Pradesh, Uttarakhand and in one or two pockets over Chhattisgarh; heat wave conditions very likely in some parts with severe heat wave in one or two pockets over Vidharbha. Based on the forecast generated by INCOIS, rough to very rough sea conditions are likely to prevail along & off the West coast of Andaman & Nicobar Islands. Fishermen are advised not to venture into the Sea along & off these areas.
- 24 April (Day 4): Thunderstorm accompanied with gusty winds likely at isolated places over Telangana. Heat wave conditions are likely to prevail in some parts of Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Vidharbha and in one or two pockets over Chhattisgarh.
- 25 April (Day 5): Heat wave conditions likely in some parts of Vidharbha and one or two pockets over West Rajasthan.
- The weather outlook for the period of seven days i.e 15 to 23 April 2018 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Kerala, Tamilnadu, Odisha & Andaman & Nicobar Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Eastern Uttar Pradesh

Weather condition

Dry weather prevailed across Eastern Uttar Pradeshstate during past few days. Minimum and maximum temperature was observed above normal.

Contingency measure:

- Looking dry weather of the regions farmers are advised for threshing of wheat and pigeon pea crop very soon
- They are advised for irrigation at shorter interval in sugarcane,mung and zaid vegetables etc. in view of looking the higher evaporative demand.
- Under optimum moisture conditions, they are advised for interculture operations as to save them under moisture stress conditions.
- Summer ploughing in fallow lands for reducing the infestation of weeds and also harmful insect-pest/diseases and to increase the soil moisture retention capacity of the field.
- There is possibility of fruit drops in the citrus, hence advised to spray 2,4-D@ 1 ppm solution.

SAT :INSAT-3D IMG

IMG_TIR2 12.0 um

L1C Mercator (LINEAR STRETCH: 1.0%)

21-04-2018/14:30 GMT

21-04-2018/20:00 IST

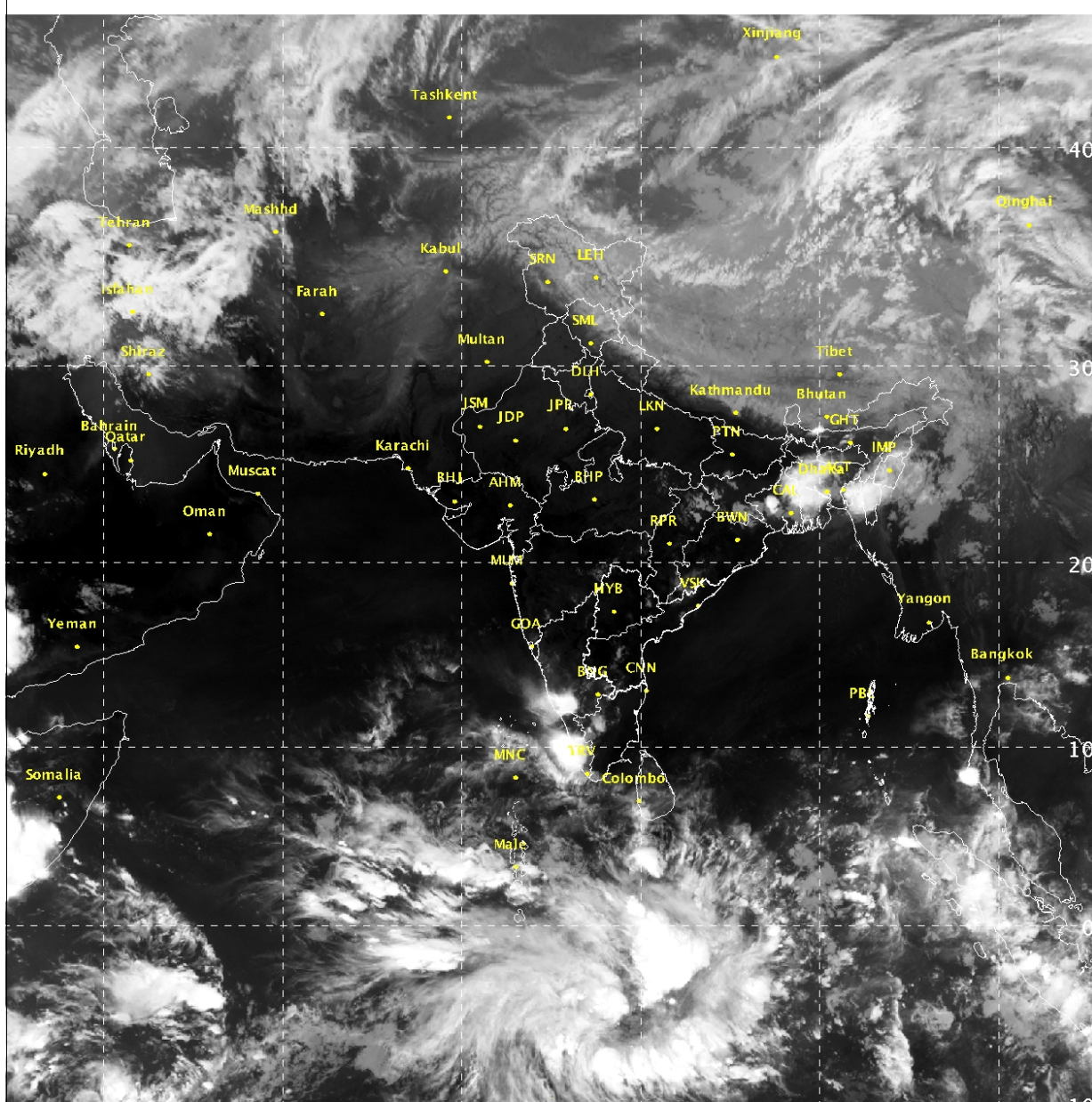


Figure: 1. Latest available satellite picture as on 21 April 2018 at 2000 Hrs (IST). (Source: IMD).

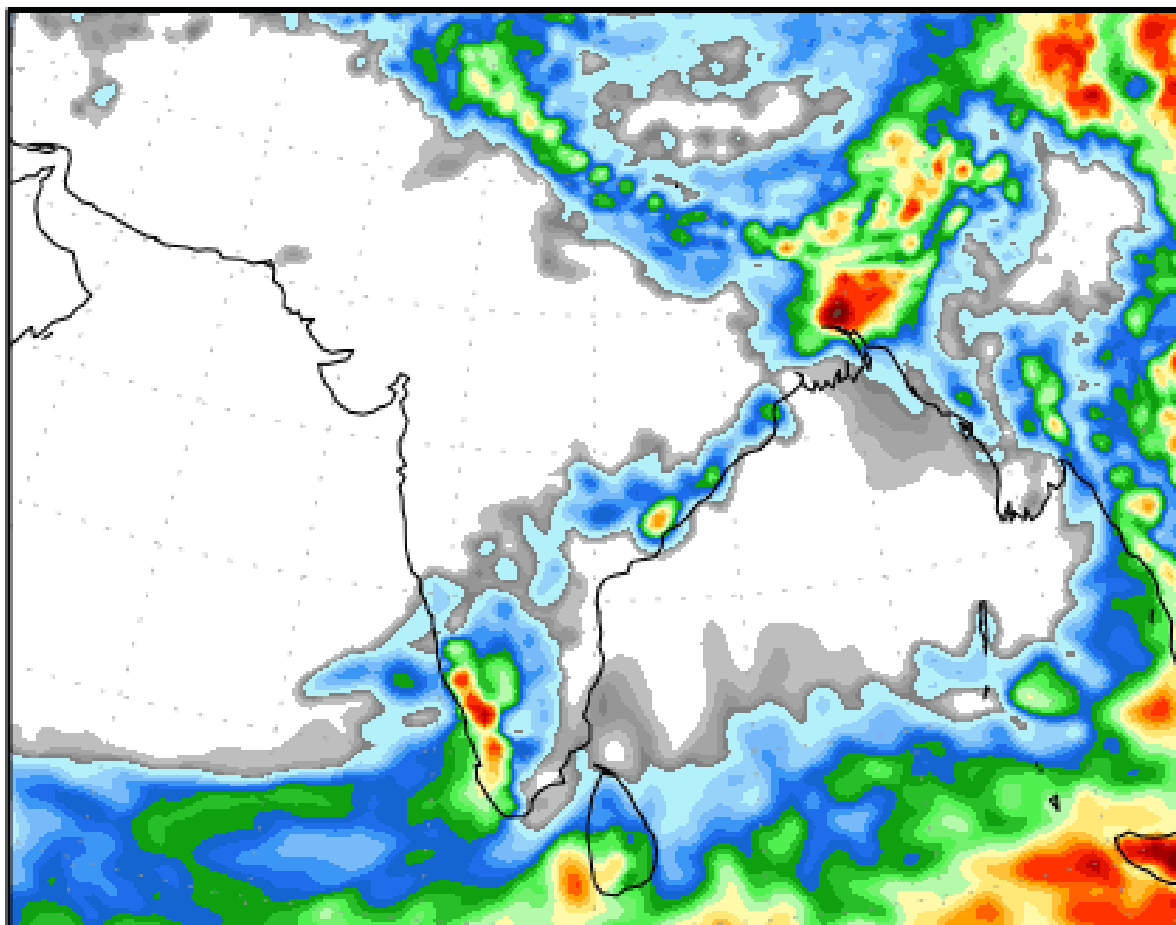


Figure: 2. Precipitation forecast for 21 to 29 April 2018 (Source: NOAA NCEP).

