

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 19 April 2022**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Heat wave warning:
  - Heat wave conditions in isolated pockets very likely to prevail over Himachal Pradesh, Punjab, Haryana-Delhi, Uttar Pradesh, Madhya Pradesh, Vidarbha & Gangetic West Bengal on 19th; over Jharkhand on 19th & 20th April, 2022. Heat wave to severe heat wave conditions also likely over Rajasthan and south Haryana on 19th April. It is likely to abate thereafter due to approaching Western Disturbance, wind conditions & cloudiness over the region.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States and a cyclonic circulation over Jharkhand at lower tropospheric levels:
    - i) Fairly widespread rainfall accompanied with thunderstorm/lightning/gusty winds very likely over Arunachal Pradesh, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and Sub-Himalayan West Bengal & Sikkim during next 5 days.
    - ii) Isolated heavy rainfall likely over Assam-Meghalaya on 19th, 21st, 22nd, 23rd April. Thundersquall (wind speed reaching 50-60 kmph) & Hailstorm at isolated places also very likely over Assam-Meghalaya & Manipur-Mizoram on 19th April, 2022.
    - iii) Isolated to scattered rainfall thunderstorm/lightning/gusty winds very likely over Bihar, Jharkhand, Gangetic West Bengal & Odisha during next 5 days.
  - Under the influence of a Western Disturbance:
    - i) Light scattered/fairly widespread rainfall accompanied with isolated thunderstorm/lightning/gusty winds very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during next 4 days and over Uttarakhand on 21st & 22nd April. Isolated hailstorm also likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 19th; over Himachal Pradesh on 20th and over Uttarakhand on 21st & 22nd April.

ii) Light isolated rainfall with thunderstorm/lightning/gusty winds likely over Punjab and HaryanaChandigarh-Delhi during next 3 days; over West Madhya Pradesh on 20th & 21st; over East Madhya Pradesh during 20th-22nd; over Vidarbha during 21st-23rd and over Chhattisgarh during 19th-23rd April.

iii) Duststorm at isolated places very likely over Rajasthan & West Uttar Pradesh on 20th & 21st; East Uttar Pradesh on 21st & 22nd and, 2022. iv) Strong dust raising winds (speed reaching 25-35 kmph) very likely at isolated places over Rajasthan on 19th April, 2022.

- Under the influence of cyclonic circulation over south Tamil Nadu in lower tropospheric levels: i) Scattered/fairly widespread rainfall accompanied with thunderstorm/lightning/gusty winds very likely over Kerala-Mahe during next 5 days and isolated rainfall accompanied with thunderstorm/lightning/gusty winds over Tamilnadu-Puducherry-Karaikal, Karnataka, Coastal Andhra Pradesh and Telangana during next 5 days. ii) Isolated heavy rainfall likely over Kerala-Mahe and south Tamil Nadu on 19th April, 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 most places over South Interior Karnataka many places over Kerala-Mahe; at a few places over Lakshadweep, Coastal & North Interior Karnataka, Arunachal Pradesh, Assam-Meghalaya and at isolated places over Jammu, Himachal Pradesh, Uttarakhand, Punjab, West Rajasthan, Odisha, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal, Andhra PradeshYanam, Telangana and West Bengal-Sikkim.
- Thunderstorm observed (from 0830 hours IST of yesterday-0830 hours IST of today): at isolated places over Chhattisgarh, Odisha, Coastal Andhra Pradesh-Yanam, Kerala-Mahe and Karnataka.
- Severe Heat wave conditions were observed in isolated pockets over northwest Rajasthan and Himachal Pradesh and Heat wave conditions in some parts of Punjab, Jharkhand and Delhi and in isolated pockets of Bihar, Gangetic West Bengal, Haryana, Uttar Pradesh and West Madhya Pradesh.
- Maximum Temperature Departures (as on 18-04-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Punjab; at many places over Uttarakhand and Jharkhand; appreciably above normal (3.1°C to 5.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over Rajasthan, Uttar Pradesh and East Madhya Pradesh; at a few places over

Vidarbha, West Madhya Pradesh, Bihar, Gangetic West Bengal; at isolated places over Saurashtra-Kutch and Odisha; above normal (1.6°C to 3.0°C) at most places over Coastal Karnataka; at many places over Chhattisgarh; at a few places over Coastal Andhra Pradesh-Yanam, Konkan-Goa, Madhya Maharashtra, Nagaland-Manipur-Mizoram-Tripura and at isolated places over Telangana and AssamMeghalaya. They were below normal (-1.6°C to -3.0°C) at many places over Interior Karnataka; at a few places over Andaman-Nicobar Islands and Tamilnadu-Puducherry-Karaikal and at isolated places over Sub-Himalayan West BengalSikkim and near normal over rest parts of the country.

- Yesterday, the highest maximum temperature of 45.2°C was reported at Varanasi/Babatpur (East Uttar Pradesh).
- Minimum Temperature Departures (as on 18-04-2022): Minimum temperatures are markedly above normal (5.1°C or more) at many places over Punjab; at a few places over Rajasthan and Himachal Pradesh and at isolated places over JammuKashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Haryana-Chandigarh-Delhi; appreciably above normal (3.1°C to 5.0°C) at many places over East Uttar Pradesh, Bihar and Uttarakhand; at a few places over Madhya Pradesh and at isolated places over West Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Jharkhand and Vidarbha; at many places over West Bengal-Sikkim, Arunachal Pradesh, Nagaland-Manipur-Mizoram-Tripura and Chhattisgarh; at a few places over AssamMeghalaya, Madhya Maharashtra, Marathwada, Telangana and Andhra Pradesh-Yanam; at isolated places over Odisha, Gujarat state and Tamilnadu-Puducherry-Karaikal. They are below normal (-1.6°C to -3.0°C) at many places over South Interior Karnataka and at isolated places over Kerala & Mahe and near normal over rest parts of the country.
- Today, the lowest minimum temperature of 20.6°C is reported at Khajuraho (East Madhya Pradesh) over the plains of the country

### **Weather Warning during the next 5 days (IMD)**

- 19 April (Day 1): Heat wave to severe heat wave conditions in isolated pockets very likely over Rajasthan and south Haryana and heat wave conditions in isolated pockets over Himachal Pradesh, Punjab, Delhi, Uttar Pradesh, Vidarbha, Madhya Pradesh, Jharkhand and Gangetic West Bengal. Thunderstorm accompanied with lightning, hail & squall (speed 50-60 kmph) at isolated places likely over Assam-Meghalaya, Mizoram-Manipur; with lightning & hail/gusty winds (speed 30-40 kmph) at isolated places very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Punjab, Jharkhand, Gangetic West Bengal, Kerala-Mahe and with lightning at isolated places over Arunachal Pradesh,

Nagaland, Tripura, Sub-Himalayan West Bengal & Sikkim, Bihar, Himachal Pradesh, Karnataka, Coastal Andhra Pradesh, Rayalaseema, Coastal & South Interior Karnataka, Lakshadweep and Tamil Nadu-Puducherry-Karaikal. Heavy rainfall at isolated places very likely over Assam-Meghalaya, south Tamilnadu and Kerala & Mahe.

- 20 April (Day 2): Heat wave conditions in isolated pockets very likely over Rajasthan and Jharkhand. Thunderstorm accompanied with lightning, hail / gusty winds (speed 30-40 kmph) at isolated places very likely over Himachal Pradesh; with lightning/gusty winds (speed 40-50 kmph) at isolated places over West Madhya Pradesh, Bihar, Gangetic West Bengal; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Gujarat state, Jharkhand, Assam-Meghalaya, Nagaland-Mizoram-Manipur-Tripura and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, East Madhya Pradesh, Odisha and Kerala-Mahe. Thunderstorm accompanied with lightning/Duststorm at isolated places very likely over Rajasthan and West Uttar Pradesh.
- 21 April (Day 3): Thunderstorm accompanied with lightning, hail & gusty winds (speed 30-40 kmph) at isolated places very likely over Uttarakhand; with lightning/gusty winds (speed 40-50 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Odisha; with lightning/gusty winds (speed 30-40 kmph) at isolated places over West Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Gujarat state, Telangana, Assam-Meghalaya and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Bihar and Kerala-Mahe. Thunderstorm accompanied with lightning/Duststorm at isolated places very likely over West Rajasthan and Uttar Pradesh. Heavy rainfall at isolated places very likely over Assam-Meghalaya.
- 22 April (Day 4): Thunderstorm accompanied with lightning, hail & squall (speed 50-60 kmph) at isolated places likely over Uttarakhand; with lightning, hail at isolated places over Sub-Himalayan West Bengal & Sikkim; with lightning/gusty winds (speed 30- 40 kmph) at isolated places over Assam-Meghalaya, Bihar, Gangetic West Bengal, Jharkhand; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Telangana and with lightning at isolated places over Himachal Pradesh, East Madhya Pradesh, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya.

- 23 April (Day 5): Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph) at isolated places likely over Assam-Meghalaya; with lightning/gusty winds (speed 30-40 kmph) at isolated places over Vidarbha, Telangana and with lightning at isolated places over Uttarakhand, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya
- The weather outlook for seven days i.e., 19 Apr to 27 Apr 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)**

### **Jammu**

#### **Weather condition:**

Mainly clear weather prevailed during this week with no rainfall. The maximum temperature remained above normal by 5 to 9 °C and ranged from 38.4 to 40.0 °C. The minimum temperature also remained above normal by 1 to 6 °C variable and ranged from 17.0 to 23.4 °C, respectively. The morning and afternoon relative humidity were observed in the range of 53 to 67 % and 17 to 23 %, respectively. The evaporation and sunshine remained in the range of 8.0 to 9.8 mm/day and 1.5 to 7.8 hrs, respectively..

#### **Contingency measure:**

- Wheat Early sown/ Normal sown Late/Very late sown Physiological maturity: Harvesting and thresh of mature crop and shift threshed crop to safer places Hard Dough/Soft Dough Rogue out loose smut and karnal bunt affected plants and destroy by burning or deep burying under soil to avoid further dispersal. Remove off type plants in early/normal sown crop as it is the right time. Organize campaign for control of rats.
- Oilseeds Mustard Physiological maturity: Thresh of mature crop and shift threshed crop to safer places
- Pulses Summer pulses (moong/mash) Pea (late sown) Gram/lentil (Late sown) Sowing pod maturity pod maturity Farmers may go for sowing of Mash (var.) Pant U-19, Uttara and Moong (var.) PDM-54, ML-131, ML 818, PS-16, PS-7
- Fodder Summer fodder Berseem Sowing Farmers may go for sowing of summer fodder (maize+cowpea+charri) and bajra. Stop fodder cutting for quality production of barseem seed.
- Vegetables: Tomato/brinjal/ Oikra Leafy vegetables Coriander, spinach, methi Cucurbits (Cucumber / bottlegourd/ bittergourd/ pumpkin) Fruiting Vegetative

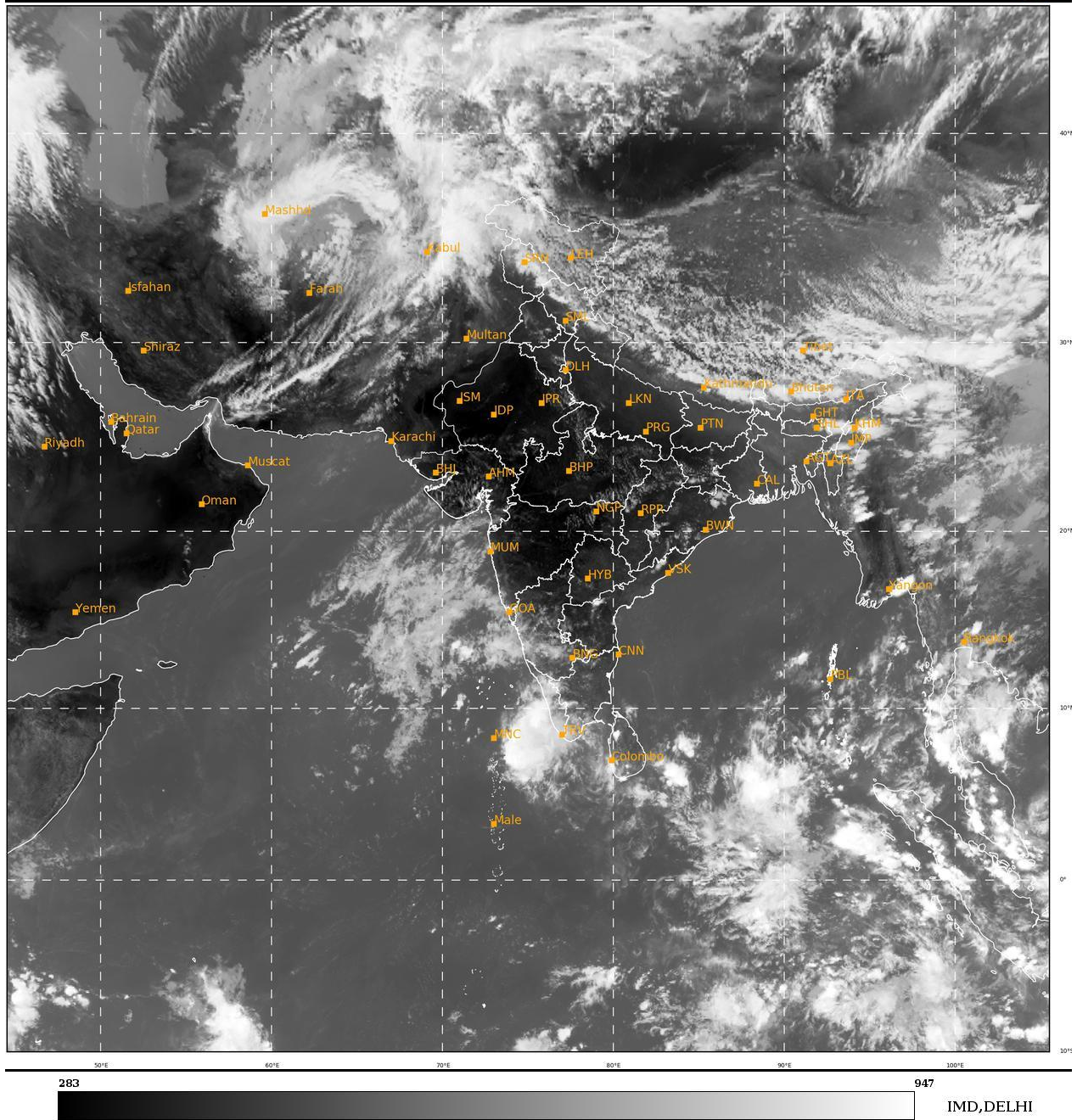
Seed harvesting Fruiting Give irrigation as per requirement of crop. Spray cypermethrin @ 1ml/lit of water to control fruit borer Thinning is recommended. Harvesting of seed crop is recommended keep under protection for curing. Weeding and proper training of plants is recommended Place cushion of straw under fruits to avoid fruit rot. Spray malathion @ 1.5ml/lit of water to control fruit fly.

- Floriculture Gladiolus Chrysanthemum Marigold Post Harvest Mother Stock Seed maturation Give irrigation as per requirement of crop. Do not irrigate frequently. Irrigate only when the soil is dried out so that corm maturation may take place. Grooming of mother plant is recommended. Harvesting of seed is recommended.
- Oyster mushrooms Farmers who have cultivated oyster mushroom should open bags after 15-20 days of spawn run. After opening the bag, room temperature should be maintained to 22-24°C and R.H. should be maintained to 85-90%.
- Horticulture: Mango/Citrus/ Guava Young/ Bearing Keep the basins free of weeds. Remove tying material from the graft union. Whitewash trunks with lime and copper sulphate mixture against fungal diseases on clear sunny day.
- Sericulture Mulberry Bivoltine cocoon crop Tree plantation Disinfection of rearing halls/ appliances Farmers may go for second disinfection of rearing appliances either with 2% formalin or 5% bleaching powder solution. Keep the appliances in sun after disinfection.
- Apiculture It is Right time to start bee keeping especially for the beginners.
- Fisheries (Carp Farming) advanced fingerlings /yearlings Dewatering of fish ponds during clear weather followed by sun drying is recommended in order to kill/destroy all unwanted organisms.
- Poultry Chicks should be Provided with starter feed for first 14 days and finisher feed from 15th day till sale. Give vaccination against IPD & Gumbroo disease to 7 & 14 days chick. Proper hygiene should be maintained in poultry sheds. Adequate clean drinking water should be available all the time..
- Live stock: Dairy animals/ Provide hay of green forage like stala, lobia, maize, jowar and bajra etc. with kadbi and other green grasses to the milch animals to increase milk production and also to prevent from bloat (aafara).

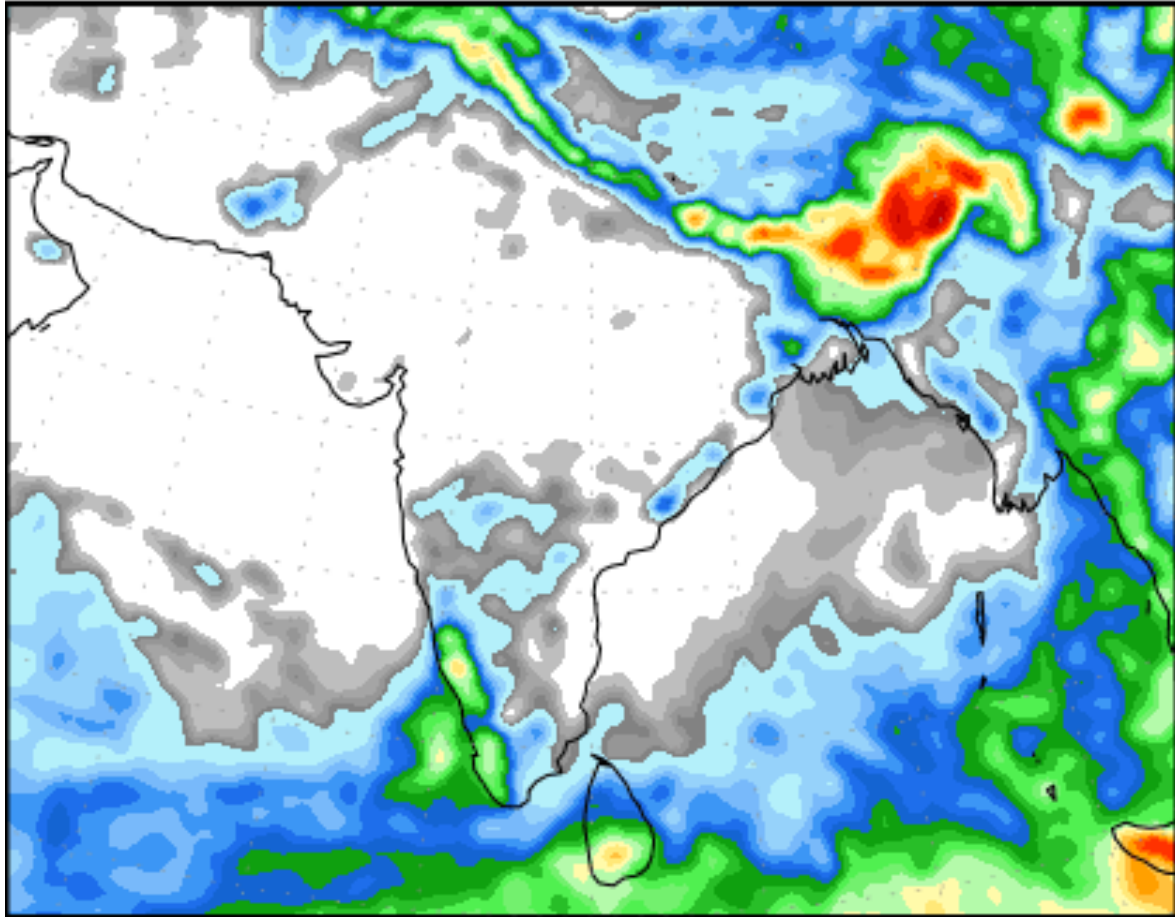


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IMG\_TIR1 10.8 um  
LIC Mercator

19-04-2022/(0800 to 0826) GMT  
19-04-2022/(1330 to 1356) IST



**Figure: 1. Latest available satellite picture as on 19 Apr 2022 at 1356 Hrs (IST). (Source: IMD).**



**Figure:2. Precipitation forecast for 19 Apr to 27 Apr 2022 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*