

# All India Coordinated Research Project on Agrometeorology CRIDA, Santoshnagar, Hyderabad – 500 059

## Daily Crop Weather Information as on 24 May 2021

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

### Significant Weather Features (IMD)

- The northern limit of Southwest Monsoon continues to pass through 5°N/80°E, 10°N/85°E, 13°N/90°E and 16°N/94.5°E.
- The Cyclonic Storm 'Yaas' (pronounced as 'Yass') over Eastcentral Bay of Bengal moved northwestwards with a speed of 02 kmph during past 06 hours, and lay centred at 0830 hrs IST of today, the 24th May, 2021 over Eastcentral Bay of Bengal near latitude 16.4°N and longitude 89.6°E, about 620 km northnorthwest of Port Blair (Andaman Islands), 530 km south-southeast of Paradip (Odisha), 630 km south-southeast of Balasore (Odisha) and 620 km southsoutheast of Digha (West Bengal). It is very likely to move north-northwestwards, intensify further into a Severe Cyclonic Storm during next 12 hours and into a Very Severe Cyclonic Storm during subsequent 24 hours. It would continue to move north-northwestwards, intensify further and reach Northwest Bay of Bengal near north Odisha and West Bengal coasts by 26th May early morning. It is very likely to cross north Odisha-West Bengal coasts between Paradip and Sagar islands around noon of 26th May as a Very Severe Cyclonic Storm. Under the influence of the above system:
  - (i) Rainfall Warning: Heavy Rainfall at isolated places over Gangetic West Bengal, coastal Odisha, north Coastal Andhra Pradesh & Yanam on 24th; Heavy to very heavy rainfall at isolated places over Odisha and Gangetic West Bengal on 25th; Assam & Meghalaya on 26th & 27th and Bihar on 28th; scattered heavy to very heavy rainfall with isolated extremely falls over Odisha and Gangetic West Bengal on 26th May and isolated heavy to very heavy rainfall with extremely falls over Jharkhand on 26th & 27th May and Bihar on 27th May, 2021.
  - (ii) Sea condition: Sea condition is High to Very High over Westcentral & adjoining eastcentral Bay of Bengal. It is very likely to become Very High to Phenomenal over northern parts of central Bay of Bengal, north Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts during 24th – 26th May.

(iii) Fishermen Warning: The fishermen are advised not to venture into central Bay of Bengal during 24th-25th May and into north Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts from 24th - 26th May. Those who are out in the Deep Sea of north and adjoining central Bay of Bengal are advised to return to the coast.

(iv) Storm surge warning: Tidal waves of height 2-4 meters above astronomical tide are likely to inundate low lying coastal areas of Jhargram, south 24 Parganas, Medinipur, Balasore, Bhadrak, Kendrapara & Jagatsighpur Districts around the time of landfall.

- Strong surface winds (speed reaching 40-50 kmph) very likely over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Rayalaseema and speed reaching 40-50 kmph over Telangana on 26th May and speed reaching 25-35 kmph likely over Rajasthan, Haryana, Chandigarh & Delhi and Uttar Pradesh on 24th & 25th May, 2021.
- 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 most places over Andaman & Nicobar Islands; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and North Interior Karnataka; at a few places over Himachal Pradesh, Gangetic West Bengal, Kerala & Mahe and Lakshadweep; at isolated places over Uttarakhand, Punjab, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy rainfall at isolated places over North Interior Karnataka and Andaman & Nicobar Islands.
- Thunderstorm/Duststorm/Hailstorm observed (from 0830 hours IST of yesterday to 0830 hours IST today): at many places over North Interior Karnataka; at a few places over Himachal Pradesh, Gangetic West Bengal and Madhya Maharashtra; at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Punjab, Uttarakhand, Haryana, Chandigarh & Delhi, East Madhya Pradesh, Assam & Meghalaya, Rayalaseema and Kerala & Mahe. Duststrom

observed at isolated places over West Rajasthan. Hailstorm observed at isolated places over Himachal Pradesh.

- Maximum Temperature Departures as on 23-05-2021: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Nagaland, Manipur, Mizoram & Tripura; appreciably above normal (3.1°C to 5.0°C) at many places over Arunachal Pradesh, Assam & Meghalaya, SubHimalayan West Bengal & Sikkim and at isolated places over Gangetic West Bengal and Odisha. They were markedly below normal (-5.1°C or less) at most places over West Rajasthan, Haryana, Chandigarh & Delhi and Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over East Rajasthan and at isolated places over Punjab; appreciably below normal (-3.1°C to -5.0°C) at most places over East Madhya Pradesh and Coastal Andhra Pradesh & Yanam; at many places over West Uttar Pradesh and Rayalaseema; at a few places over Andaman & Nicobar Islands, Himachal Pradesh, West Madhya Pradesh, Gujarat Region and Vidarbha; below normal (-1.6°C to -3.0°C) at most places over East Uttar Pradesh; at many places over Bihar, Uttarakhand, Marathawada, Chhattisgarh and North Interior Karnataka; at a few places over Jharkhand, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal; at isolated places over Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.5°C was reported at Brahmapuri (Vidarbha) over the plains of the country.
- Minimum Temperature Departures as on 24-05-2021: Minimum temperatures are over appreciably above normal (3.1°C to 5.0°C) at a few places over Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh; at isolated places over Gangetic West Bengal; above normal (1.6°C to 3.0°C) at many places over Bihar and Assam & Meghalaya; at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Odisha and Saurashtra & Kutch. They are markedly below normal (-5.1°C or less) at a few place over Haryana, Chandigarh & Delhi; at isolated places over East Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at most places over Punjab; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over West Rajasthan, East Madhya Pradesh and Rayalaseema; at isolated places over Himachal Pradesh, West Uttar Pradesh, Telangana and Coastal Andhra Pradesh & Yanam; below normal (-1.6°C to -3.0°C) at many places over North Interior Karnataka; at a few places over West Madhya Pradesh; at isolated places over East Uttar Pradesh, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands and near

normal over rest of the country. Today, the lowest minimum temperature of 18.6°C is reported at Amritsar (Punjab) over the plains of the country

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

- 24 May (Day 1): Thunderstorm with lightning & squall (speed reaching 45-55 kmph gusting to 65 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe and with lightning at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy Rainfall at isolated places very likely over Andaman & Nicobar Islands, Gangetic West Bengal, coastal Odisha, north Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Gale wind (speed reaching 65-75 kmph gusting to 85 kmph) very likely to prevail over Westcentral & adjoining Eastcentral Bay of Bengal. It is very likely to increase further becoming gale wind (speed reaching 90-100 kmph gusting to 110 kmph) over major parts of Central Bay of Bengal by 24th evening and would decrease gradually from 25th afternoon. Squally wind (speed reaching 50-60 kmph gusting to 70 kmph) very likely to prevail over Eastcentral Bay of Bengal & adjoining North Andaman Sea during next 12 hours; (speed reaching 40-50 kmph gusting to 60 kmph) over North & adjoining Westcentral Bay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts from 24th afternoon. Squally wind (speed reaching 40- 50 kmph gusting to 60 kmph) very likely to prevail over Southwest Arabian Sea. Strong wind (speed reaching 40-50 kmph) very likely over Gulf of Mannar and along & off south Tamil Nadu coast. Sea Conditions is high to very high over Westcentral & adjoining Eastcentral Bay of Bengal. It is very likely to become very high to phenomenal over northern parts of Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts. Fishermen are advised not to venture into these areas.
- 25 May (Day 2): Thunderstorm with lightning & squall (speed reaching 45-55 kmph gusting to 65 kmph) at isolated places over Andaman & Nicobar Islands; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Jharkhand; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and

Kerala & Mahe and with lightning at isolated places over Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Karnataka and Tamil Nadu, Puducherry & Karaikal. Heavy to Very Rainfall at a few places very likely over Odisha; at isolated places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam and Heavy Rainfall at isolated places over Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, and Kerala & Mahe. Gale wind (speed reaching 90-100 kmph gusting to 110 kmph) very likely to prevail over major parts of Central Bay of Bengal and would decrease gradually from 25th afternoon. Squally wind (speed reaching 50-60 kmph gusting to 70 kmph) very likely to prevail over North & adjoining West Central Bay of Bengal and along & off Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts from 25th afternoon. It would further increase becoming gale wind (speed reaching 60-70 kmph gusting to 80 kmph) from 26th early hours over Northwest Bay of Bengal and along & off north Odisha-West Bengal-Bangladesh coasts. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over Southwest Arabian Sea. Strong wind (speed reaching 40-50 kmph) very likely over Gulf of Mannar and along & off south Tamil Nadu coast. Sea Conditions is high to very high over Westcentral & adjoining Eastcentral Bay of Bengal. It is very likely to become very high to phenomenal over northern parts of Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts. Fishermen are advised not to venture into these areas.

- 26 May (Day 3): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) very likely at isolated places over Bihar and Andaman & Nicobar Islands; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe and with lightning at isolated places over East Uttar Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Odisha and Gangetic West Bengal; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over Jharkhand; Heavy to Very Heavy Rainfall at isolated places over Assam & Meghalaya and Heavy Rainfall at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. Strong surface winds (speed reaching 40-50 kmph) very likely over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Rayalaseema and speed reaching 40-50 kmph over

Telangana. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over south Jharkhand from 26th noon and increase gradually becoming gale wind (speed reaching 110-120 kmph gusting to 130 kmph) during 26th evening/night. Squally wind (speed reaching 55-65 kmph gusting to 75 kmph) very likely over north interior Odisha, interior districts of Gangetic West Bengal from 26th evening. Gale wind (speed reaching 90-100 kmph gusting to 110 kmph) very likely over Northwest Bay of Bengal and along & off north Odisha-West Bengal-Bangladesh coasts from 26th morning and increase thereafter becoming gale wind (speed reaching 155-165 kmph gusting to 185 kmph) at the time of landfall. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over Southwest Arabian Sea. Strong wind (speed reaching 40-50 kmph) very likely over Gulf of Mannar and along & off south Tamil Nadu coast. Sea Conditions is high to very high over Westcentral & adjoining Eastcentral Bay of Bengal. It is very likely to become very high to phenomenal over northern parts of Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts. Fishermen are advised not to venture into these areas.

- 27 May (Day 4): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over Bihar and Andaman & Nicobar Islands; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places likely over Bihar and Jharkhand and Heavy to Very Heavy Rainfall at isolated places over West Bengal & Sikkim and Assam & Meghalaya; Heavy Rainfall at isolated places over East Uttar Pradesh, Odisha and Andaman & Nicobar Islands. Squally wind (speed reaching 55-65 kmph gusting to 75 kmph) likely over north interior Odisha, interior districts of Gangetic West Bengal till 27th morning. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over Southwest Arabian Sea. Strong wind (speed reaching 40-50 kmph) very likely over Gulf of Mannar and along & off south Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- 28 May (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand, East Uttar Pradesh, West Madhya Pradesh and Andaman & Nicobar Islands and with lightning at isolated

places over West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Heavy to Very Heavy Rainfall likely at isolated places over Bihar and Heavy Rainfall at isolated places over East Uttar Pradesh, Jharkhand and Andaman & Nicobar Islands. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over Southwest Arabian Sea. Fishermen are advised not to venture into

- The weather outlook for seven days i.e., 24 May to 01 Jun 2021 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)**

### **Madhya Pradesh**

#### **Weather condition:**

High Tmax.: 44 C at Ratlam district - Low Tmin.: 18 C at Seoni district - Rain: Max. rainfall of 40 mm at Damoh, Singrauli districts - Day Temp.: 4 C below normal over the state - Night temp.: Normal over the state - State experience rains, strong winds, lightening and thunderstorm on May 17-19 due to Tauktae cyclone

#### **Contingency measure:**

- General Advice General advice: ? In the coming days, there is a forecast of light clouds in the sky and light rainfall in the eastern Madhya Pradesh region. Keep the grain stored in a safe place by deepening the dry pulse and seed and oil seed crops.
- Moong : Advanced varieties of Summer Mugs, P.D. M. 139 and Seeds seeds of Agricultural University and arrangement of seeds from the permissible place. 20 kg of seed Sing At the rate of per hectare and the queue distance from the queue is 30 cm. But do the buoys. 20 kg of fertilizers Sing Nitrogen, 60kg Sing Phosphorus, 20k Sing At the rate of potassium per hectare. Irrigation as per the requirement in the crop. Imidacloprid 100 mL for the prevention of juvenile pests Sprinkle per hectare rate.
- Wheat : Cut the wheat on maturity. Store it dry and dry.
- Chickpea : Cut the gram on maturity. Store it dry and dry.
- Vegetables : Prepare the farm for all summer vegetables. And obtain high quality seeds from the places of trust. Arrange to prepare the seedlings for early summer harvesting. If the field is not empty for sowing the seeds, prepare the seedlings in a safe place and plant the seedlings once the farm is open. Anyone for the

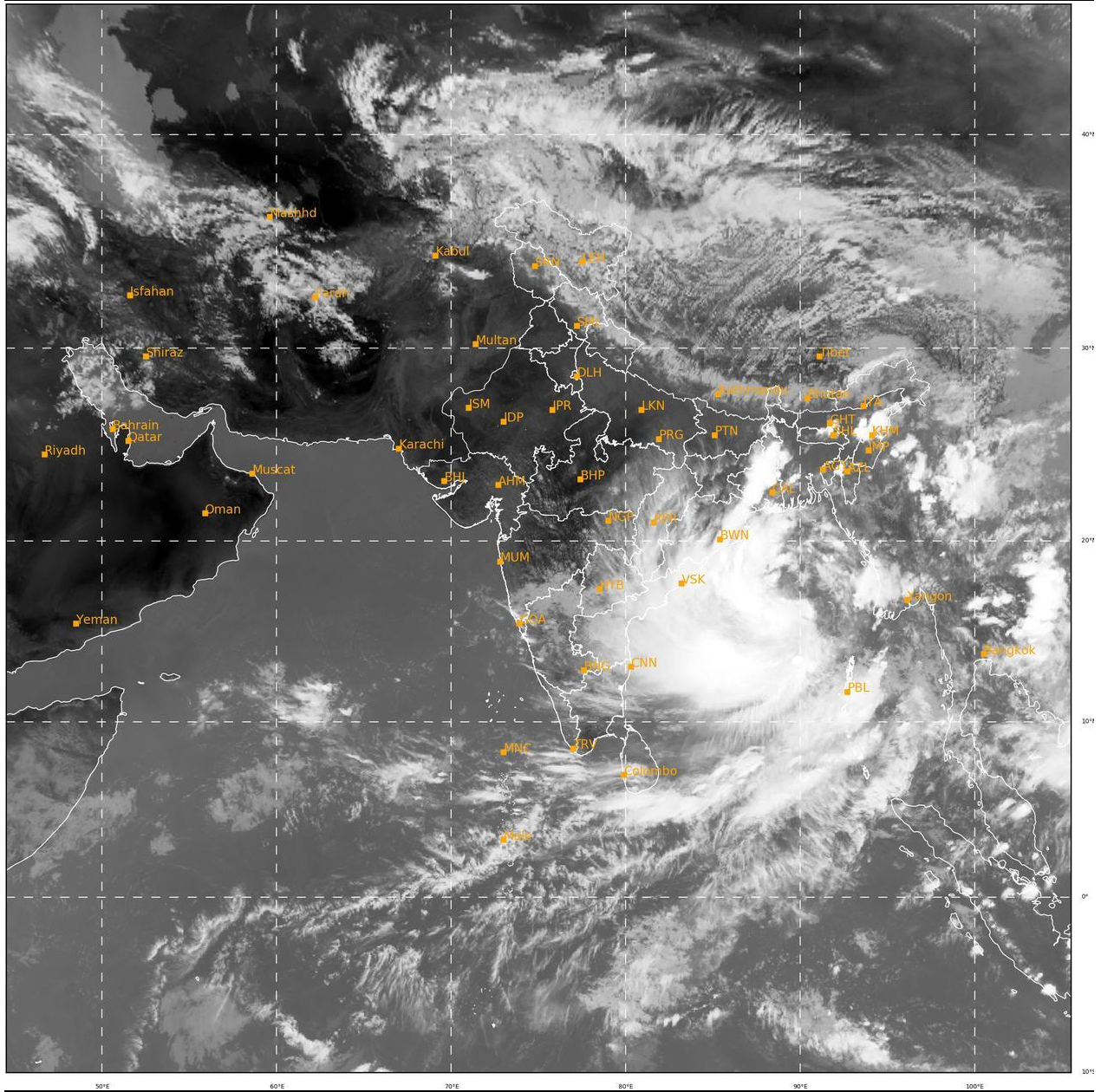
prevention of melon, melon, cucumber cucumber gourd and pumpkin etc.

- Red Pumpkin Vital (red worm) :Prepare the farm for all summer vegetables. And obtain high quality seeds from the places of trust. Looking at the increasing temperature, Nouan 2ML per liter water to prevent tomato, brinjal, and coriander in the bees and white fly insect. Dissolve and sprinkle in water.
- Fruits : In the new fruit gardens, sesame and cardigan vegetables are sown in the form of inland crop. And proper provision of irrigation. Mango is likely to cause rash sucking insect and diarrhea. Take the treatment techniques from the nearest Krishi Vigyan Kendra. Irrigation in mango, lemon and pomegranate etc. in 3 to 4 days intervals.
- Animal Husbandry : Feed 40 grams of mineral salts per day to get more milk production from cattle.→ Keep animal in shade and make proper arrangement of water.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

24-05-2021/(0800 to 0827) GMT  
24-05-2021/(1330 to 1357) IST

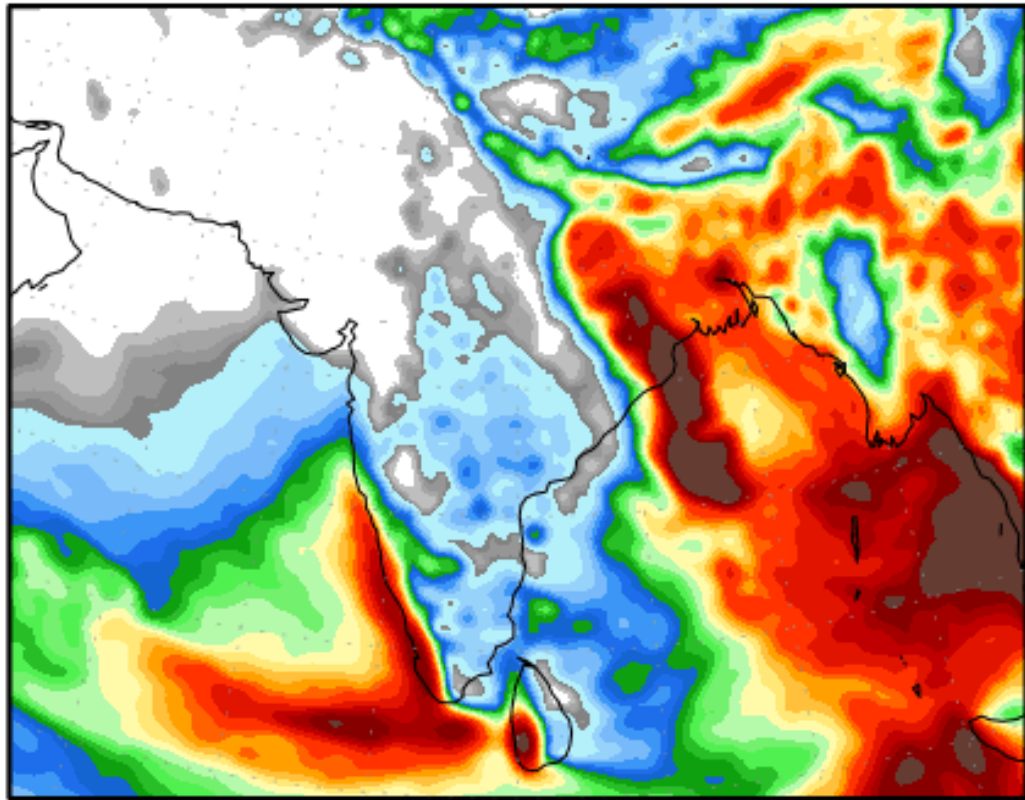


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 24 May 2021 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 24 May to 01 Jun 2021 (Source: NOAA NCEP).**

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