

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

**Daily Crop Weather Information as on 30 May 2022**

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

**Significant Weather Features (IMD)**

- Advancement of Southwest Monsoon: Conditions are favourable for further advance of southwest monsoon into some parts of central Arabian Sea, reaming parts of Kerala, some more parts of Tamil Nadu, some parts of Karnataka, and some more parts of south and Central Bay of Bengal, some parts of northeast Bay of Bengal and northeastern states during next 3-4 days.
- Rainfall/thunderstorm Forecast & Warnings:
- Under the influence of monsoonal westerly winds from Arabian Sea over the south peninsular India in lower & middle tropospheric levels, a cyclonic circulation over southeast Arabian Sea off north Kerala-Karnataka coast and a trough from the this cyclonic circulation to Southwest Bay of Bengal at lower tropospheric levels:
  - i) Widespread light/moderate rainfall with thunderstorm/lightning very likely over Kerala & Mahe & Lakshadweep and isolated to scattered rainfall over Andhra Pradesh, Telangana, Karnataka and Tamilnadu, Puducherry & Karaikal during next 5 days. Isolated heavy rainfall also likely over Kerala & Mahe, Tamilnadu on 30th & 31st May and over Coastal Karnataka & South Interior Karnataka on 02nd & 03rd June, 2022.
  - ii) Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea during next 5 days; over Southeast Arabian Sea, Lakshadweep area, along & off Kerala coast, Comorin area & Gulf of Mannar on 30th & 31st May; over Southeast Bay of Bengal on 31st May and south Andaman Sea on 02nd-03rd June, 2022. Fishermen are advised not to venture into these areas.
- Under the influence of east-west trough from northwest Rajasthan to north Bangladesh and southwesterly winds from Bay of Bengal to northeast India at lower tropospheric levels:
  - i) Fairly widespread/widespread light/moderate rainfall very likely over Northeast India and Sub-Himalayan West Bengal & Sikkim; and isolated to

scattered rainfall with isolated/scattered thunderstorm/lightning/gusty winds over Bihar, Jharkhand, Odisha and Gangetic West Bengal next 5 days.

ii) Isolated heavy rainfall also likely over Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim during 30th May-03rd June; over Assam-Meghalaya during 31st May-02nd June; over Arunachal Pradesh during 01st-03rd June, 2022.

- No significant heat wave conditions very likely over the country during next 5 days
- 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 Jammu & Kashmir and Andaman & Nicobar Islands; at many places over Uttarakhand, Odisha, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe; at a few places over West Uttar Pradesh, East Madhya Pradesh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Lakshadweep and Tamil Nadu, Puducherry & Karaikal and at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, Gangetic West Bengal, Bihar and Telangana.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Himachal Pradesh, Punjab, Uttarakhand, Assam & Meghalaya, West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Bihar, Chhattisgarh, Jharkhand, Odisha, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- Heavy rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today): observed at isolated places over Bihar and Sub-Himalayan west Bengal & Sikkim.
- Maximum Temperature Departures (as on 29-05-2022): Maximum temperatures were appreciably above normal (+3.1°C to +5.0°C) at a few places over Assam & Meghalaya and Arunachal Pradesh and at isolated places over Odisha; above normal (1.6°C to 3.0°C) at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Gangetic West Bengal and Kerala & Mahe. They were markedly below(-5.1 or more) at isolated places over East Uttar Pradesh and Bihar; appreciably below normal (-3.1°C to -5.0°C) at a few places over West Madhya Pradesh and at isolated places over Tamil Nadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over South Interior Karnataka; at a few places over East Madhya Pradesh, Madhya Maharashtra, North Interior Karnataka and at isolated places over East Rajasthan, Gujarat State and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday,

the highest maximum temperature of 45.0°C was reported at Ganganagar(West Rajasthan).

- Minimum Temperature Departures (as on 30-05-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at a few places over East Rajasthan and at isolated places over Bihar; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Himachal Pradesh; at many places over Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu & Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, Telangana and Assam & Meghalaya and at isolated places over Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam. They are markedly below (-5.1 or more) at isolated places over East Madhya Pradesh; appreciably below normal (3.1°C to 5.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal and below normal (-1.6°C to -3.0°C) at isolated places over West Uttar Pradesh, Vidarbha, Gangetic West Bengal and Odisha and near normal over rest parts of the country. Today, the lowest minimum temperature of 20.2°C is reported at Seoni (East Madhya Pradesh) over the plains of the country.

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

- 30 May (Day 1): Heavy rainfall at isolated places very likely over Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Assam Meghalaya, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph) at isolated places very likely over East Madhya Pradesh; with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph) at isolated places over Chhattisgarh, Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal, Jharkhand and Bihar and with lightning at isolated places over Jammu & Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Vidarbha, Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh-Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over Southeast Arabian Sea, Lakshadweep area, Comorin area, along and off Kerala coast, Gulf of Mannar and adjoining south Tamil Nadu. Strong winds of 40-50 kmph gusting to 60 kmph likely over Southwest Arabian Sea and adjoining Westcentral Arabian Sea, Gulf of Mannar and Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.

- 31 May (Day 2): Heavy rainfall at isolated places very likely over Mizoram & Tripura, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Assam-Meghalaya, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph) at isolated places very likely over Gangetic West Bengal, Jharkhand and Bihar and with lightning at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan-Goa, Marathwada, Madhya Maharashtra, Coastal Andhra Pradesh-Yanam, Telangana, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 30-40 kmph gusting to 50 kmph) very likely over Southeast Arabian Sea, Lakshadweep area, Comorin area, along and off Kerala coast, Gulf of Mannar and adjoining south Tamil Nadu, Southeast Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over Southwest Arabian. Fishermen are advised not to venture into these areas.
- 01 June (Day 3): Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Arunachal Pradesh, Assam-Meghalaya, Sub-Himalayan West Bengal & Sikkim and Mizoram & Tripura. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph) at isolated places very likely over Andaman & Nicobar Islands and Gangetic West Bengal and with lightning at isolated places over Chhattisgarh, Odisha, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 02 June (Day 4): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands, Arunachal Pradesh, Assam-Meghalaya, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph) at isolated places very likely over Andaman & Nicobar Islands; with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph) at isolated places over Gangetic West Bengal and with lightning at isolated places over Kerala & Mahe and Lakshadweep. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over Southeast Bay of Bengal and adjoining south Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 03 June (Day 5): Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam-Meghalaya, Mizoram & Tripura and Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph) at isolated places likely over Andaman & Nicobar Islands and with lightning at isolated places over Kerala & Mahe and Lakshadweep. Squally weather (wind speed 30-40 kmph gusting to 50 kmph) likely over Southeast Bay of Bengal and adjoining south Andaman Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 30 May to 07 Jun 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)**

### **Himachal pradesh**

#### **Weather condition:**

The maximum and minimum temperature ranged between 21.5 to 34.5 °C and 13.0 to 20.0 °C which was below normal by 1.2 to 8.4 °C and 1.0 to 5.9 °C, respectively. 36.6 mm rainfall was received during the week against the normal of 18.7 mm. The relative humidity varied between 27-89 % and sunshine hours between 2.0-9.0 hrs/day with variable sky conditions (Octa 4-6). The evaporation rate varied 3.0-9.9 mm per day.

#### **Contingency measure:**

- **Stored Grains:** In grain store bins put one pouch of celhpos (3g) or quickphos (12g) or Fumino pouch in a wet cloth in the middle of bin and keep the bin airtight for some time to control stored grains pests.
- **Kharif Crops:** After harvesting of rabi crops farmers are advised to test their soil from certified agencies and to do laser leveling in their field if required. ploughing of fields after harvesting of rabi crops is advised so that eggs and pupating stages of insects and weed seeds are destroyed.
- **Rice:** Farmers are advised to prepare the field for paddy nursery and procure the certified seeds from agriculture department. Advised sowing of Paddy nursery and ensure proper soil moisture before nursery sowing. Seed treatment of fungal disease with recommended fungicides.
- **Maize:** Maize sowing advised after ensuring soil moisture or after rains. Spray recommended herbicide within 48 hours of sowing for control of weeds.

- Fodder: Sow maize crop as fodder crop along with cowpea or soybean can be done in the irrigated areas.
- Vegetable Crops: High temperature expected, farmers are advised for harvesting of mature vegetables at morning and evening and after harvesting of crops keep it in the shade. If no rains are received then apply light and frequent irrigation in morning and evening which other-wise lead to poor pollination and thus drop in yield of the crop.
- Vegetables: Sowing of frenchbean, coriander, okra is advised. At the time of sowing, add about 100 q well rotten FYM, 156 kg IFFCO (12:32:16), 50 kg MOP and 25 60 kg urea per ha in okra and 200 q FYM and 313 kg IFFCO and 25 kg urea in French bean. Pre emergence spray of Lasso @ 3.0 litre per 750 lt. is advised. Farmers are advised to transplant the tubes of cucumber, bitter gourd, round gourd, ridge gourd, summer squash, and sponge gourd. Appropriate time for transplanting of tomato, brinjal, chilli and capsicum. Leaf eating insect-pest may occur during early crop stages of okra, brinjal, frenchbean and cucurbitaceous crops. For management, spray malathion 50 EC @ 750 ml in 750 litres of water for one hectare. Take care of damping off while raising seedlings of capsicum, tomato and chillies. Drenching of seed beds with 25 g Mancozeb or 5g Carbendazim in 10 lt. of water just at the appearance of the symptoms. In the mid-hills it is appropriate time to transplant early varieties of cauliflower. In these areas, it is the appropriate time to plant tomato, brinjal, capsicum and Frenchbean. Apply approved chemicals to prevent damping-off disease in tomato and brinjal. Spray Malathion 1ml per lt. of water to control red pumpkin beetle.
- Livestock: Ensure cleanliness in cows having advanced pregnancy to avoid mastitis. Monitor the animals for foot and mouth disease and advised protect calves against parasites, get them dewormed with piperazine liquid @ 4 ml/kg body weight, first at 10 days of age, then 15 days and then monthly up to three months of age and then quarterly upto one year of age. Vaccination. Ecto-parasite attack is expected in this weather for control spary Butox @ 2ml per litre in cowshed Give mixture of hay & green fodder.
- Poultry: Temperature is rising, so ensure proper ventilation in poultry houses. Replace the poultry houses with fresh litter and keep the houses clean and ensure drinking water to the birds. Normal feeding schedule should be continued. Purchase day-only vaccinated chicks from reputed hatcheries to raise broiler chicks for maximum profits. Spray the poultry shed with Carbyl compound 5% solution 50 WP as per the requirement.
- Horticulture: In mango and citrus, during flowering irrigation should be avoided

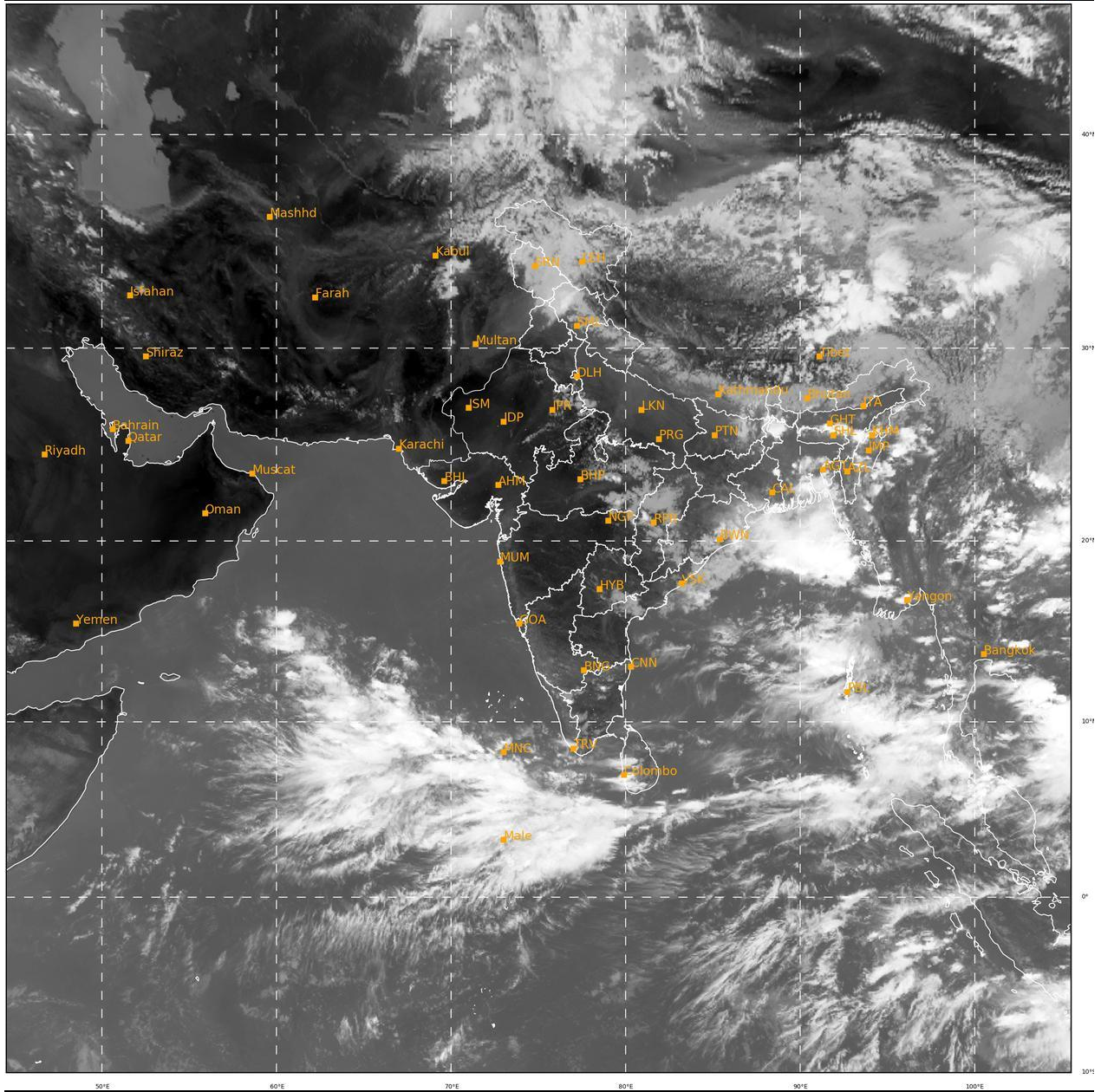


for good fruit setting. Constant monitoring of mango mealy bug and leaf hopper are advised. For control of peach leaf curl spray metasystox @ 1ml per litre + blitox @ 3g per litre of water. Keep the basins of the plants free from weeds. Wrapping of plastic sheets around mango trunk should be done for preventing climbing of young mealy bugs. Apply grease to seal any cracks in the polythene sheets.

- Tea: It is optimum time to resume picking in tea at 9- 10 days interval to maintain the quality and productivity. Monitor for mites and Milli bug expected in the orchards, for control of milli bug recommended chemicals.
- Apiculture: Keep the colonies in shady places and sprinkle water if possible to reduce the heat as temperature rising high in the region. Insert the brood chamber without frame for ensuring aeration. Dust sulphur on sealed brood in the colony and not on larvae to control mites attack on honeybees. Also insert empty frame/combs for egg laying to the queen as the population starts builds up.
- Fisheries: Double the normal dose of feed to meet the additional requirement for nutrients. Water depth of at least 5 feet should be maintained in order to rear all the three types of fish viz., mirror carp, grass carp and silver carp. Add supplementary feed (rice/wheat bran & mustard oil cake and rice/wheat bran) @ 3-5% of total fish biomass on daily basis. Finely crushed boiled eggs and goat liver can be given at intervals to add to vigor. To protect from microbial attack so clean your raceways regularly at 15 day intervals and give regular rock salt baths to your stock. In the event of high temp fluctuations in lower plain areas, put 5g lime per sq ft to avoid the stress.

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

30-05-2022/(0800 to 0826) GMT  
30-05-2022/(1330 to 1356) IST



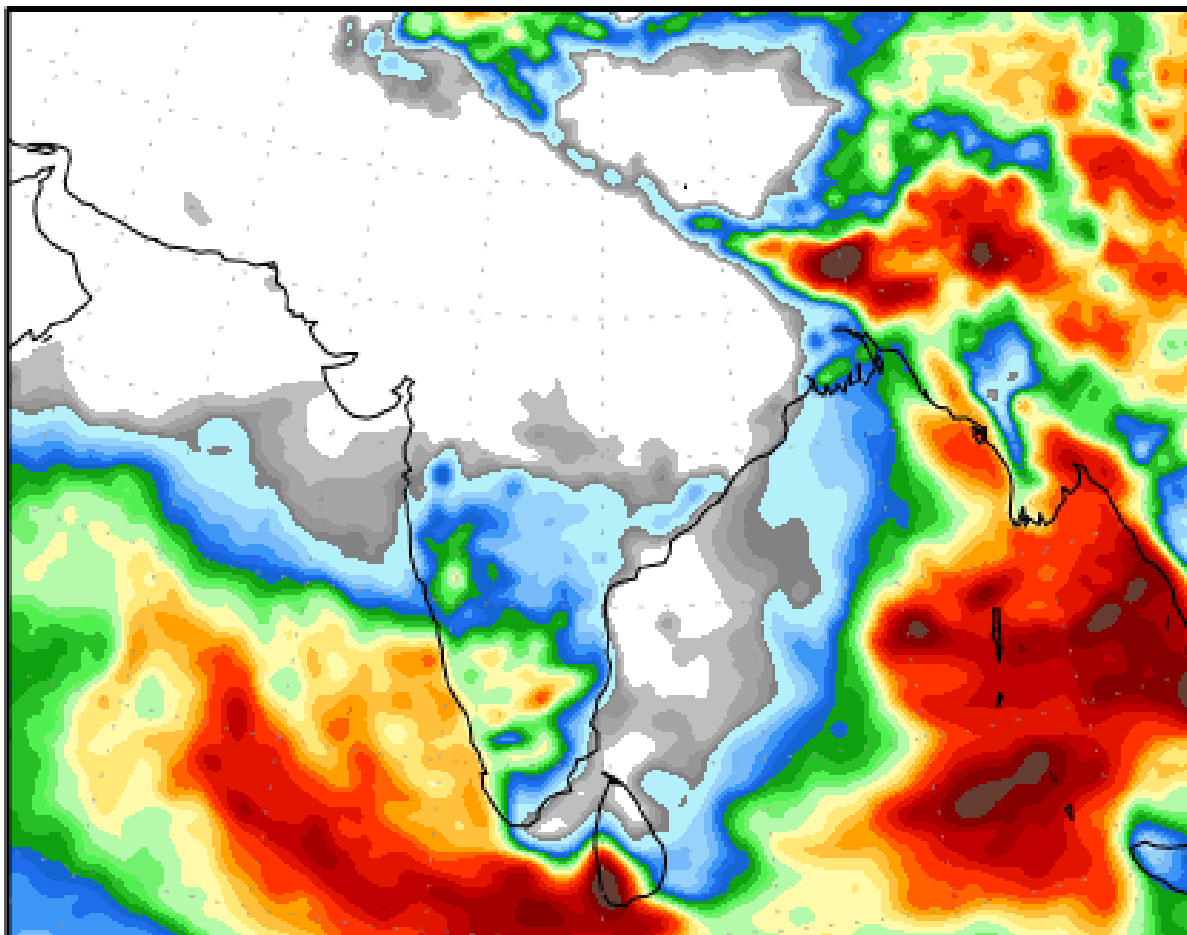
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IMD, DELHI

Figure: 1. Latest available satellite picture as on 30 May 2022 at 1356 Hrs (IST). (Source: IMD).





**Figure:2. Precipitation forecast for 30 May to 07 Jun 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.*