

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

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

### **Daily Crop Weather Information as on 26 November 2020**

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

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

- The Severe Cyclonic Storm 'NIVAR' over north coastal Tamilnadu moved northwestwards with a speed of 13 kmph during past six hours, weakened into a cyclonic storm and lay centred at 0830 hrs IST of 26th November, 2020 over north coastal Tamilnadu near Lat. 12.6°N and Long 79.4°E, about 85 km north-northwest of Puducherry and about 95 km west-southwest of Chennai. The Cyclonic Storm 'NIVAR' would continue to move northwestwards and weaken further into a Deep Depression during next 06 hours and into a Depression by subsequent 06 hours.
- Under its influence,
  - (i) Fairly widespread to widespread rainfall/thunderstorm activity with heavy to very heavy falls at a few places with isolated extremely heavy falls likely to occur over Chittoor, Kurnool, Prakasam; Cuddappa districts of Andhra Pradesh and adjoining southeast Telangana and Heavy to very heavy rainfall at isolated places likely over north Tamil Nadu, remaining districts of Andhra Pradesh and southeast Telangana on 26th Nov, 2020.
  - (ii) Fishermen are advised not to venture into Southwest and adjoining Westcentral Bay of Bengal along & off Tamil Nadu-Puducherry coasts and south Andhra Pradesh coast till night of 26th November, 2020. Also total suspension of fishing operations is also advised for these areas over the same period.
- Due to likely fall in minimum temperatures over northwest India, Cold wave condition at isolated places likely over Punjab, during 27th & 28th, Haryana, Chandigarh & Delhi during 26th to 28th and North Rajasthan during 28-30 November 2020.
- 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 Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad and Himachal Pradesh; at many places over Andaman & Nicobar

Islands, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Rayalaseema; at a few places over Uttarakhand, Punjab, South Interior Karnataka and Kerala & Mahe and at isolated places over Odisha, Haryana, Chandigarh & Delhi and Rajasthan.

- Moderate to Dense Fog observed (from 0830 hours IST of yesterday to 0830 hours IST of today) ( Visibility in metres) at isolated pockets over Himachal Pradesh; Light to Moderate Fog over West Rajasthan, Haryana, Chandigarh & Delhi, East Uttar Pradesh and Tamil Nadu, Puducherry & Karaikal.
- Extremely heavy rainfall was recorded at isolated places over Tamil Nadu, Puducherry & Karaikal and Rayalseema and heavy to very heavy rainfall over Coastal Andhra Pradesh & Yanam.
- Thunderstorm with lightning observed (from 0830 hours IST of yesterday to 0830 hours IST of today): East Rajasthan, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 25-11-2020: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over West Madhya Pradesh; at isolated places over Assam & Meghalaya, Vidarbha, Madhya Maharashtra, Coastal Karnataka, Kerala and Andaman & Nicobar Islands. They were markedly below normal (-5.1 or less) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; at many places over Punjab and Haryana, Chandigarh & Delhi; at isolated places over West Rajasthan and Tamil Nadu, Puducherry & Karaikal; appreciably below normal (-3.1°C to - 5.0°C) at a few places over Uttarakhand and Rayalaseema; at isolated places over West Uttar Pradesh, East Madhya Pradesh, East Rajasthan and Odisha and below normal (-1.6°C to -3.0°C) at many places over Bihar and Coastal Andhra Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim and Saurashtra & Kutch and at isolated places over East Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.0°C was reported at Bulsar (Gujarat region).
- Minimum Temperature Departures as on 26-11-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Telangana; above normal (1.6°C to 3.0°C) at many places over West Madhya Pradesh and Kerala; at a few places over East Rajasthan, Gujarat Region, Masdhay Maharashtra and South Interior Karnataka and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Andaman & Nicobar Islands, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, Saurashtra & Kutch, Konkan & Goa, Odisha, Vidarbha, Rayalseema and Tamil Nadu,

Puducherry & Karaikal. They were appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at isolated places over Himachal Pradesh and below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at many places over East Uttar Pradesh and Bihar and at isolated places over West Bengal & Sikkim, Assam & Meghalaya and East Madhya Pradesh and near normal over rest parts of the country. The lowest minimum temperature of  $6.1^{\circ}\text{C}$  reported at Churk (East Uttar Pradesh) over the plains of the country.

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

- 26 November (Day 1): Heavy to very rainfall with extremely heavy falls at isolated places very likely over Rayalaseema, Coastal Andhra Pradesh & Yanam and Telangana and heavy rainfall at isolated places over South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thundersquall with lightning (with wind speed 50-60 kmph ) very likely over Andaman & Nicobar Islands; thunderstorm with lightning very likely at isolated places over East Rajasthan, West Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal. Cold Wave conditions at isolated places very likely over Haryana, Chandigarh & Delhi. Gale wind speed reaching 70-80 kmph gusting to 90 kmph is prevailing over Southwest Bay of Bengal. It will gradually decrease becoming 50-60 kmph gusting to 70 kmph by evening of today, the 26th November, 2020. Gale wind speed reaching 70-80 kmph gusting to 90 kmph is prevailing along & off Puducherry, Villupuram, Chengalpattu, Kanchipuram, Chennai & Tiruvallu districts of north Tamil Nadu. It will gradually decrease becoming 50-60 kmph gusting to 70 kmph by evening and squally wind speed reaching 35-45 kmph gusting to 55 kmph by night of today, the 26th November, 2020. Squally wind speed reaching 45-55 kmph very likely to prevail over interior districts (Ranipet, Tiruvannamalai, Tirupattur, Vellore) of Tamilnadu and Chittoor district of Andhra Pradesh till noon of today, 26th November, 2020 and gradual decrease thereafter. Squally wind speed reaching 35-45 gusting to 55 kmph very likely over Nagapattinam, Karaikal, Myladuthurai, Cuddalore & Tiruvarur districts of Tamil Nadu during next 06 hours and gradual decrease thereafter. Sea condition is very rough to high over Southwest Bay of Bengal, along & off north Tamil Nadu, Puducherry coast. It will gradually become very rough to rough by afternoon of 26th Nov and improve further by night of 26th Nov. Sea condition is rough to very rough over westcentral Bay of Bengal and along & off south Andhra Pradesh coast. It will improve after 06 hours. Squally Weather ( wind speed reaching 45-55 kmph ) very likely over northeast &

adjoining eastcentral Arabian Sea along & off Gujarat coast. Fishermen are advised not to venture into these areas.

- 27 November (Day 2): Heavy to very heavy rainfall at isolated places very likely over Rayalaseema and heavy rainfall at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh. Thunderstorm with lightning very likely at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Cold Wave conditions at isolated places very likely over Punjab and Haryana, Chandigarh & Delhi. Squally Weather ( wind speed reaching 45-55 kmph ) very likely over northeast & adjoining eastcentral Arabian Sea along & off north Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- 28 November (Day 3): Heavy rainfall at isolated places very likely over Coastal Andhra Pradesh and Andaman & Nicobar Islands. Thunderstorm with lightning very likely at isolated places over Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal. Cold Wave conditions at isolated places very likely over north Rajasthan, Punjab and Haryana, Chandigarh & Delhi.
- 29 November (Day 4): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands. Thundersquall likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Cold Wave conditions at isolated places likely over north Rajasthan. Squally weather (wind speed reaching 45-55 kmph) likely over South Andaman Sea and adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 30 November (Day 5): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands. Thundersquall likely at isolated places over Kerala & Mahe. Cold Wave conditions at isolated places likely over north Rajasthan. Squally weather (wind speed reaching 45-55 kmph) likely over South Andaman Sea and adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 26 November to 04 December 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)

### **Kerala**

#### **Weather condition:**

In Vellanikkara, the maximum temperature ranges from 31.2 to 33.8 Deg C, minimum temperature ranges from 17.9 to 23.1 Deg C. Morning relative humidity ranges from 074% to 093% and afternoon relative humidity ranges from 033% to 061%. Wind speed ranges from 0.8 to 7.0 km/h. Evaporation ranges from 1.8 to 4.9 mm. Sunshine hours range from 2.6 to 10.0 hours. 5cm morning soil temperature ranges from 22.5 to 25.5 Deg C and afternoon soil temperature ranges from 31.7 to 34.3 Deg C.

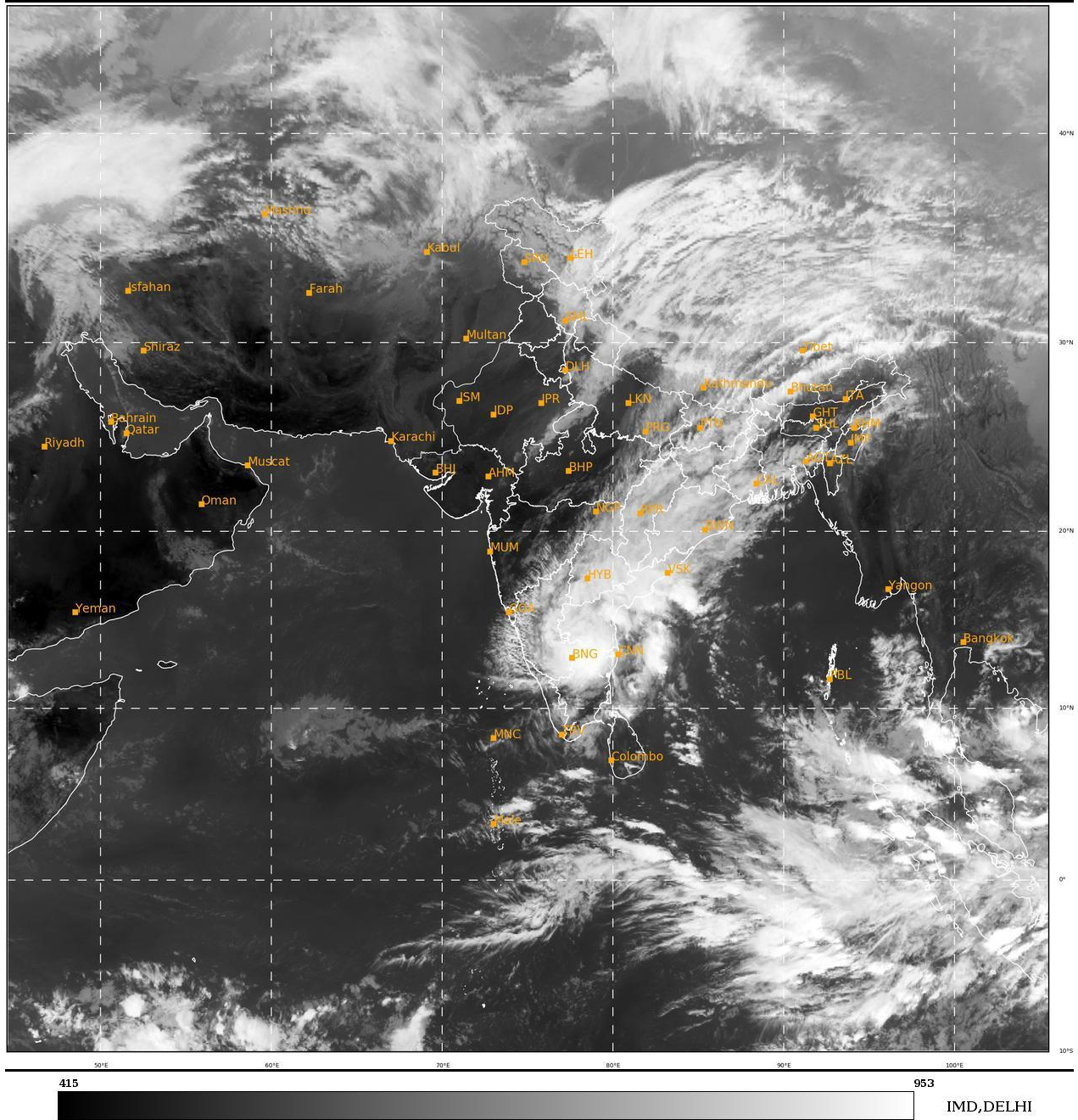
#### **Contingency measure:**

- Rice(Mundakan)-Panicle initiation:- Bacterial Leaf blight- To control the spread of Bacterial Leaf blight in paddy, spray 6 g of Streptocycline in 30 litre of water. Leaf folder- There is a chance of leaf folder attack in mundakan Paddy. It can be controlled by using trichogramma cards (2CC per one acre). Cut the cards in to small pieces and fix in different regions of the field. If the attack is severe, spray Chlorantraniliprole @ 3ml per ten litre of water. Brown Plant Hopper (BPH)- There is a chance of Brown plant hopper attack in rice. Spray 2 g Thiamethoxam per ten litre of water.
- Vegetables (cowpea)- Fruit borer- To control fruit borer in cowpea, apply 5% Neem Kernel Suspension to control fruit borer in the initial stage. Spray Flubendamide 2 ml per ten litre of water or Chlorantraniliprole 3 ml per ten litre if the attack is severe.
- Chilli- White fly- There is a chance of white fly attack in chilli. Apply 2% neem oil garlic emulsion or spray 20g Lecanicillium lecanii per one litre of water in ten days intervals.
- Animal Husbandry- 1. Take precautions to avoid ecto parasitic infestation. 2. If fever, shivering, brown coloured urine, off feed etc. are noticed, consult veterinary doctor immediately.

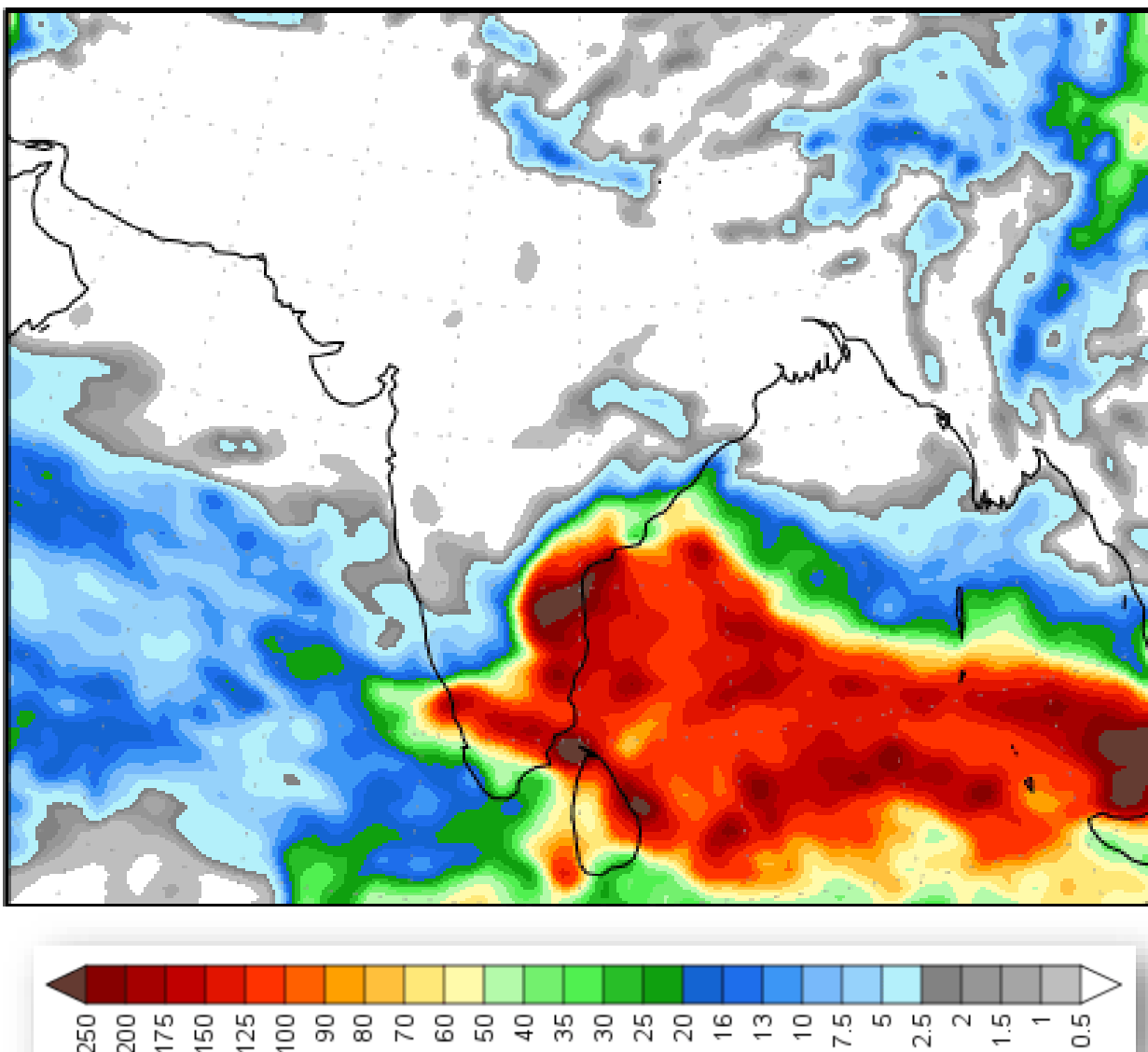


SAT : INSAT-3D IMG  
 IMG\_TIR1 10.8 um  
 L1C Mercator

26-11-2020/(0900 to 0926) GMT  
 26-11-2020/(1430 to 1456) IST



**Figure: 1. Latest available satellite picture as on 26 November 2020 at 1456 Hrs (IST).  
 (Source: IMD).**



**Figure:2. Precipitation forecast for 26 Nov to 04 Dec 2020 (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.*