

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 November 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Severe Cyclonic Storm "NIVAR" over southwest Bay of Bengal moved west-northwestwards with a speed of 11 kmph during past six hours and lay centred at 0830 hrs IST of 25th November, 2020 over southwest Bay of Bengal near latitude 10.7°N and longitude 81.7°E, about 240 km east-southeast of Cuddalore, about 250 km east southeast of Puducherry and 300 km south southeast of Chennai. It is very likely to intensify further into a Very Severe Cyclonic Storm during next 06 hours. It is very likely to move west northwestwards and cross Tamil Nadu and Puducherry coasts between Karaikal and Mamallapuram around Puducherry during mid-night of 25th and early hours of 26th November 2020 as a Very Severe Cyclonic Storm with a wind speed of 120-130 kmph gusting to 145 kmph.
- Under its influence,
 - (i) fairly widespread to widespread rainfall/thunderstorm activity very likely over coastal and north interior Tamil Nadu, Puducherry & Karaikal, south coastal Andhra Pradesh and Rayalaseema during 25 th and 26th November and southeast Telangana during 26th November, 2020. Isolated extremely heavy rainfall activity also very likely over coastal & north interior Tamil Nadu & Puducherry (Thanjavur, Tiruvarur, Nagapattinam, Cuddalore, Chennai, Kanchipuram, Chengalpattu, Myladuthirai, Ariyalur, Perambalur, Kallakurchi, Villupuram, Tiruvannamalai, Puducherry and Karaikal districts) during 25th; over Nellore and Chittoor districts of Andhra Pradesh on 25th and over Rayalaseema & southeast Telangana on 26th November, 2020.
 - (ii) Tidal wave of about 1-1.5m height above the astronomical tide is very likely to inundate the low lying areas of north coastal districts of Tamil Nadu & Puducherry near the place of landfall. (iii) Fishermen are advised not to venture into Southwest and adjoining Westcentral Bay of Bengal, Tamil Nadu,, Puducherry and south Andhra Pradesh coasts and Gulf of Mannar during 25th and 26th November. Total suspension of fishing operation is also advised for these areas.

- Under the influence of Western Disturbance over Afghanistan & neighbourhood, fairly widespread to widespread rainfall activity with isolated heavy rainfall/snow and isolated hailstorms is very likely over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and Himachal Pradesh on 25th. Scattered rainfall/thunderstorm activity with isolated hailstorms is very likely over Uttarakhand also during the same period.
- Due to likely fall in minimum temperatures over northwest India, Cold wave condition at isolated places over Punjab, Haryana, Chandigarh & Delhi, North Rajasthan and West Uttar Pradesh during 27-29 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, Gilgit-Baltistan & Muzaffarabad; at a few places over Himachal Pradesh and Tamil Nadu, Puducherry & Karaikal and at isolated places over Uttarakhand, Punjab, Rajasthan, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- Thunderstorm with lightning observed (0830 hrs IST of yesterday to 0830 hrs IST today): Tamil Nadu, Puducherry & Karaikal.
- Moderate to Dense fog observed (during 0830 hours IST of yesterday to 0830 hours IST of today) (Visibility in meters) in isolated pockets over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, Assam & Meghalaya, Punjab, Haryana, Chandigarh & Delhi and Himachal Pradesh. Visibility: Gulmarg, Kalpa, Ludhiana, and Kailashahar-200; Comilla-300; Kokarnag, Karnal, New Delhi (Safdarjung), Lucknow, Fursatganj, Varanasi, Guwahati, Batote, Sultanpur and Haflong-500.
- Maximum Temperature Departures as on 24-11-2020: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka and Kerala & Mahe; at a few places over West Madhya Pradesh, Vidarbha, Madhya Maharashtra and Telangana. They were markedly below normal (-5.1 or less) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over Himachal Pradesh and at isolated places over West Rajasthan; appreciably below normal (-3.1°C to - 5.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over East Uttar Pradesh and at isolated places over Odisha and below normal (-1.6°C to -3.0°C) at many places over Punjab, West Uttar Pradesh and Gangetic West Bengal; at a few places over Sub-Himalayan West Bengal & Sikkim and Bihar and at isolated places over Assam &

Meghalaya, East Rajasthan, Chhattisgarh and Rayalaseema and were near normal over rest parts of the country. Yesterday, The highest maximum temperature of 35.4°C was reported at Karwar (Coastal Karnataka).

- Minimum Temperature Departures as on 25-11-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Himachal Pradesh, Punjab, West Madhya Pradesh and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over Andaman & Nicobar Islands; at many places over Coastal Andhra Pradesh & Yanam; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, East Rajasthan, Gujarat Region and Tamil Nadu, Puducherry & Karaikal. They are appreciably below normal (-3.1°C to - 5.0°C) at many places over Bihar and Jharkhand; at a few places over East Madhya Pradesh and at isolated places over Vidarbha and below normal (-1.6°C to -3.0°C) at most places over East Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Saurashtra & Kutch, Odisha and Gangetic West Bengal; at a few places over Haryana, Chandigarh & Delhi, Rayalaseema and North Interior Karnataka and at isolated places over Telangana, West Uttar Pradesh, SubHimalayan west Bengal & Sikkim and Assam & Meghalaya and near normal over rest parts of the country. The lowest minimum temperature of 5.6°C reported at Churk (East Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 November (Day 1): Heavy to very rainfall with extremely heavy falls very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Rayalaseema; heavy rain/snow at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh. Thunderstorm/hailstorm with lightning very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand and Himachal Pradesh and thunderstorm with lightning at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Cold day conditions very likely at isolated places over Haryana, Chandigarh & Delhi and Punjab. Gale wind speed reaching 105-115 kmph gusting to 130 kmph is prevailing over Southwest Bay of Bengal and is likely to increase, becoming 120-130 kmph gusting to 145 kmph during afternoon of 25th to early hours of 26th November. Squally wind speed reaching 55- 65 kmph gusting to 75 kmph is prevailing along & off Tamil Nadu, Puducherry and adjoining South Andhra Pradesh coast and over Gulf of Mannar. It will gradually increase and become gale wind speed reaching 120-130 kmph gusting to 145

kmph along & off coastal districts of north Tamil Nadu and Puducherry (Nagapattinam, Cuddalore, Myladuthirai, Karaikal, Puducherry, Villupuram & Chengalpattu) and wind speed 80-90 kmph gusting to 100 kmph very likely over Tiruvarur, Chennai, Kanchipuram, Tiruvallur during afternoon of 25th to early hours of 26th November,2020.Gale wind speed reaching 65-75 kmph gusting to 85 kmph very likely over adjoining westcentral Bay of Bengal and along & off South Andhra Pradesh (Nellore and Chittoor districts) Gulf of Mannar and along and off south coastal districts of Tamil Nadu during afternoon of 25th to early hours of 26th November. Sea condition is very high over Southwest Bay of Bengal and very rough to high along & off Tamil Nadu, Puducherry, south Andhra Pradesh coasts and over Gulf of Mannar. It would gradually become phenomenal over Southwest Bay of Bengal and along & off north Tamil Nadu, Puducherry coasts during afternoon of 25th to early hours of 26th November. Fishermen are advised not to venture into these areas.

- 26 November (Day 2): 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. Thunderstorm with lightning likely at isolated places over southeast Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Squally weather (wind speed reaching 45-55 kmph) very likely over Northeast and adjoining Eastcentral Arabian Sea along & off Gujarat coast.
- 27 November (Day 3): Heavy rainfall at isolated places very likely over Rayalaseema, Telangana and Andaman & Nicobar Islands. Thunderstorm with lightning very likely at isolated places over Vidarbha, Chhattisgarh, Kerala & Mahe, Telangana and Interior Karnataka. Cold Wave conditions at isolated places very likely over north Rajasthan, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Squally weather (wind speed reaching 45-55 kmph) very likely over Northeast and adjoining Eastcentral Arabian Sea along & off Gujarat coast.
- 28 November (Day 4): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands. Thunderstorm with lightning likely at isolated places over Kerala & Mahe. Cold Wave conditions at isolated places likely over north Rajasthan, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh.
- 29 November (Day 5): Heavy rainfall at isolated places likely over Andaman & Nicobar Islands. Thundersquall likely at isolated places over Andaman & Nicobar Islands. Cold Wave conditions at isolated places likely over north Rajasthan,

Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh. Squally weather (wind speed reaching 45-55 kmph) likely over South Andaman Sea and adjoining Southeast Bay of Bengal.

- The weather outlook for seven days i.e., 25 November to 03 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)

Madhya Pradesh

Weather condition:

High Tmax.: 32°C at Hoshangabad district - Low Tmin.: 7°C at Nowgaon, Chhattarpur district - Rainfall: max. rainfall occurred in 30 mm in Balaghat district. Very light drizzle occurred during previous week. - Day Temp.: 2 C below normal over the state - Night Temp.: Normal over the state

Contingency measure:

- General advice: Rice is ready for harvesting. Seeds /grains should be dried under the sun to reduce grain moisture before storage.
- Wheat: Proper time for sowing of wheat seeds. a. Early Maturing Varieties for Irrigated Condition - MP [3366] Lok-1] HD 2864, HD 2932, JW 1202, JW 1203 b. Medium Maturing Varieties for Irrigated Condition & GW-322, GW-273,] MP-1201, MP- 1142, JW 3288, JW 3211, JW 3020, JW 3173, JW 3382. c. Late Maturing Varieties for Rainfed and Semi irrigated Varieties- C- 306, Sujata. Partial irrigated condition with 1-2 irrigation: JW-3211, JW-3288, JW-3173, JW-3020.
- Chickpea Recommended varieties: Desi: Early maturing: JG-11 JG-12, JG-14, JAKI-9218, J . G. 36. Medium maturing: JG-16, JG-315, JG-63, JG-130. Kabuli: JGK-1, JGK-2, JGK-3, JGK-5.
- Lentil Recommended varieties: K-75 (Mallika), JL-1, JL-3. IPU 2-43
- Mustard Recommended varieties of mustard% Pusa Mahak, J.M.-03, J.M.-02, Pusa Bold, Jgannath, Pusa Agrani, NRCHB-506. Apply first irrigation before flowering. Incorporate remaining nitrogenous fertilizer after irrigation.
- Arhar : Control measure should apply if infestation of insect pest occurred. For control leaf roller capsule borer, gram pod borer and pod fly insect seen in the field apply 2 ml chlorpyrifos or imidachlopride per lit. Water.
- Vegetables: Prevalence of fruit and shoot borer in solanaceous vegetables consult the scientists of nearby KVK for plant protection measures. Control weeds and apply

fertilizer dose. The proper time for the cotton plantation of garlic and onions is going on. Prepare the farm ready.

- Fruits: Application of Fertilizer dose in Mango, Citrus, Guava and Aonla etc. Suitable time for planting of fruit crops.
- Animal Husbandry & Poultry : Prepare hay and silage for storing of fodder. For green fodder sowing of barseem or Lucern crop in the fellow field. Keep the window and doors close to the guttle in view of fallowing temperature during night.

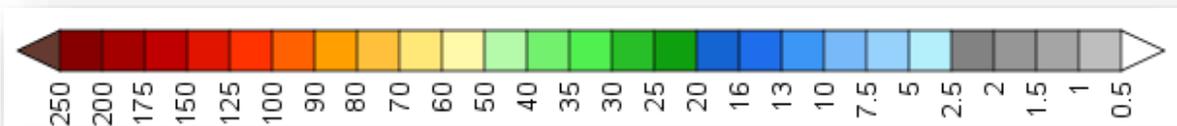
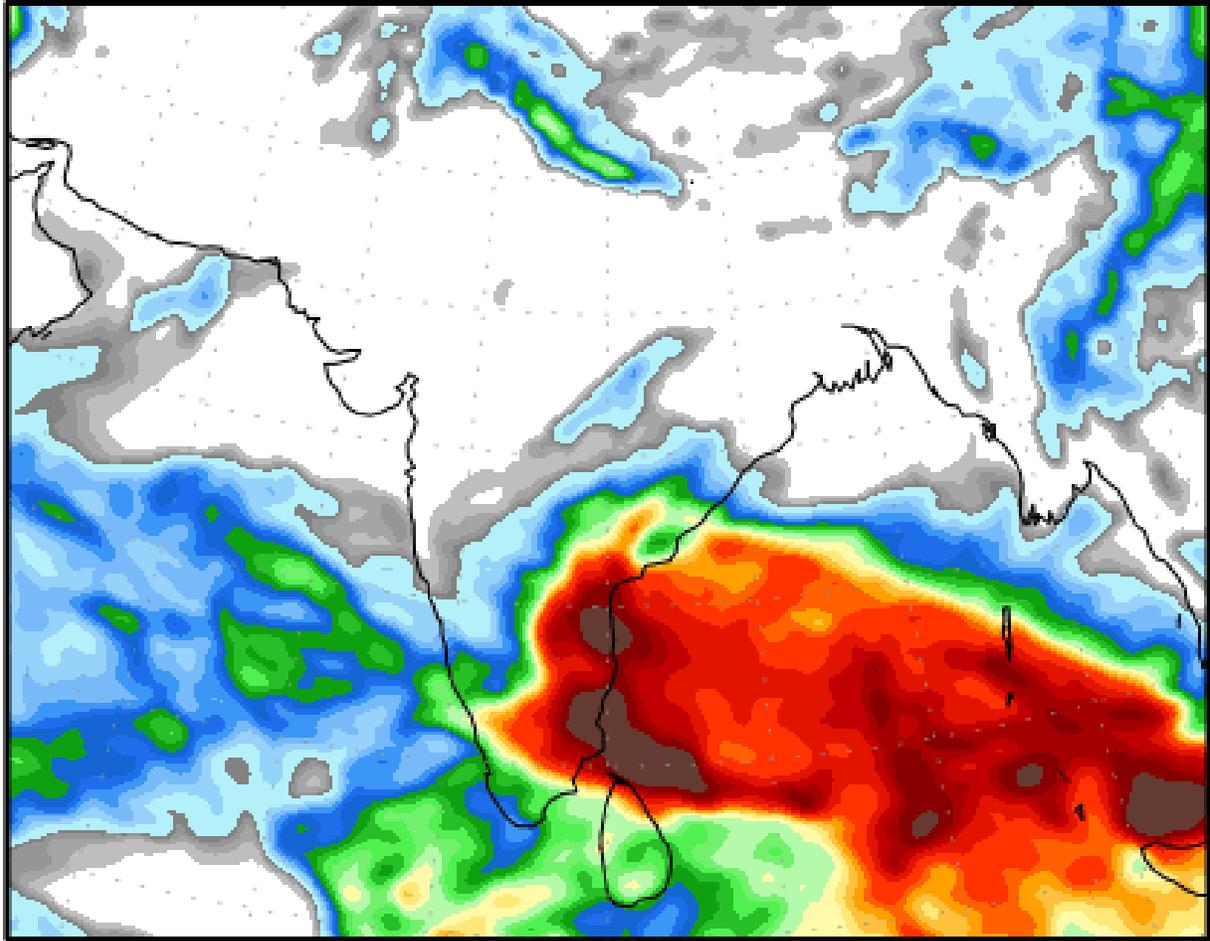


Figure:2. Precipitation forecast for 25 Nov to 03 Dec 2020 (Source: NOAA NCEP).

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