

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 19 November 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A low pressure area has formed over central parts of south Arabian Sea. Associated cyclonic circulation extends upto midtropospheric level. It is very likely to move west-northwestwards and concentrate into a Depression over Southwest Arabian sea during next 48 hours. A trough runs from the cyclonic circulation associated with the low pressure area to Comorin area in lower level. Under its influence, scattered to widespread rainfall accompanied with thunderstorm & lightning is very likely over Kerala & Mahe and Lakshadweep on 19th & 20th and scattered rainfall activity is very likely over south Tamil Nadu during next 24 hours and decrease significantly thereafter over the region due to west-northwestwards movement of the low pressure system.
- Northeast monsoon rainfall activity very likely to be subdued over southeast peninsular India including Tamil Nadu during next 3-4 days.
- Under the influence of a fresh easterly wave, scattered to fairly widespread to widespread rainfall accompanied with thunderstorm & lightning and isolated heavy rainfall very likely over Andaman & Nicobar Islands on 21st & 22nd November, 2020.
- Minimum temperatures are very likely to fall gradually by 2-4°C over northwest India during next 3 days and over Central India by 2-4°C gradually after 24 hours & over East India by 2-3°C after 48 hours during subsequent 3 days.
- 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 Lakshadweep; at many places over Arunachal Pradesh; at a few places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Odisha, Chhattisgarh, West Bengal & Sikkim, Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Assam & Meghalaya and Andaman & Nicobar Islands.

- Thunderstorm (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Chhattisgarh, Coastal Karnataka, Lakshadweep and Tamil Nadu, Puducherry & Karaikal.
- Heavy rainfall recorded at isolated places over Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 18-11-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Odisha & Vidarbha; at a few places over Madhya Pradesh and Andaman & Nicobar Islands; at isolated places over Chhattisgarh; above normal (1.6°C to 3.0°C) at most places over Madhya Maharashtra, Marathawada; at many places over Konkan & Goa, Gangetic West Bengal, Jharkhand, Coastal & North Interior Karnataka, Telangana and at isolated places over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh, Gujarat State and Assam & Meghalaya. They were Markedly below normal (- 5.1°C and less) at a few places over Haryana, Chandigarh & Delhi, and at isolated places over West Rajasthan; appreciably below normal (-3.1°C to - 5.0°C) at many places over East Rajasthan and Punjab; at a few places over Saurashtra & Kutch and West Uttar Pradesh and at isolated places over Gujarat Region and East Uttar Pradesh; below normal (-1.6°C to - 3.0°C) at most place over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and at isolated places over Uttarakhand, Bihar, Jharkhand and Arunachal Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 36.2°C was reported at Jalgoan (Madhya Maharashtra).
- Minimum Temperature Departures as on 19-11-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Madhya Pradesh, Jharkhand and Madhya Maharashtra; at many places over Marathawada; at a few places over Andaman & Nicobar Islands and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at most places over Odisha, Konkan & Goa and Coastal & North Interior Karnataka; at many places over East Uttar Pradesh, Gangetic West Bengal, Bihar, Chhattisgarh, East Rajasthan, Telangana, South Interior Karnataka, Rayalaseema and Coastal Andhra Pradesh & Yanam; at a few places over Tamil Nadu, Puducherry & Karaikal and at isolated places over Kerala & Mahe and West Uttar Pradesh. They are below normal (-1.6°C to - 3.0°C) at most places over Haryana, Chandigarh & Delhi; at many places over West Rajasthan and Saurashtra & Kutch; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh and are near normal over rest

parts of the country. Today, the lowest minimum temperature of 6.6°C reported at Churu (West Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 19 November (Day 1): Thunderstorm with lightning very likely at isolated places over West Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Squally weather (wind speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over Southeast and adjoining Eastcentral & Southwest Arabian Sea, Lakshadweep area and along and off Kerala coast. Fishermen are advised not to venture into these areas.
- 20 November (Day 2):Thunderstorm with lightning & hail very likely at isolated places over Arunachal Pradesh and with lightning at isolated places over Assam & Meghalaya, Kerala & Mahe and Lakshadweep. Squally weather (wind speed reaching 45-55 kmph gusting to 65 kmph) very likely to prevail over Southeast and adjoining Eastcentral & Southwest Arabian Sea, Lakshadweep area and along and off Kerala coast. Fishermen are advised not to venture into these areas.
- 21 November (Day 3): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands. Thunderstorm with lightning & hail very likely at isolated places over Arunachal Pradesh and Assam & Meghalaya. Strong winds (speed reaching 50-60 kmph gusting to 70 kmph) very likely over Southwest & adjoining Southeast and Central Arabian Sea. Fishermen are advised not to venture into these areas.
- 22 November (Day 4): Heavy rainfall likely at isolated places over Andaman & Nicobar Islands. Strong winds (speed reaching 55 -65 kmph gusting to 75 kmph) likely over Southwest & adjoining Westcentral Arabian Sea and speed reaching 40 -50 kmph gusting to 60 kmph over Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 23 November (Day 5): Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Thunderstorm with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) likely over Southwest Bay of Bengal along & off Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 19 to 27 November 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:

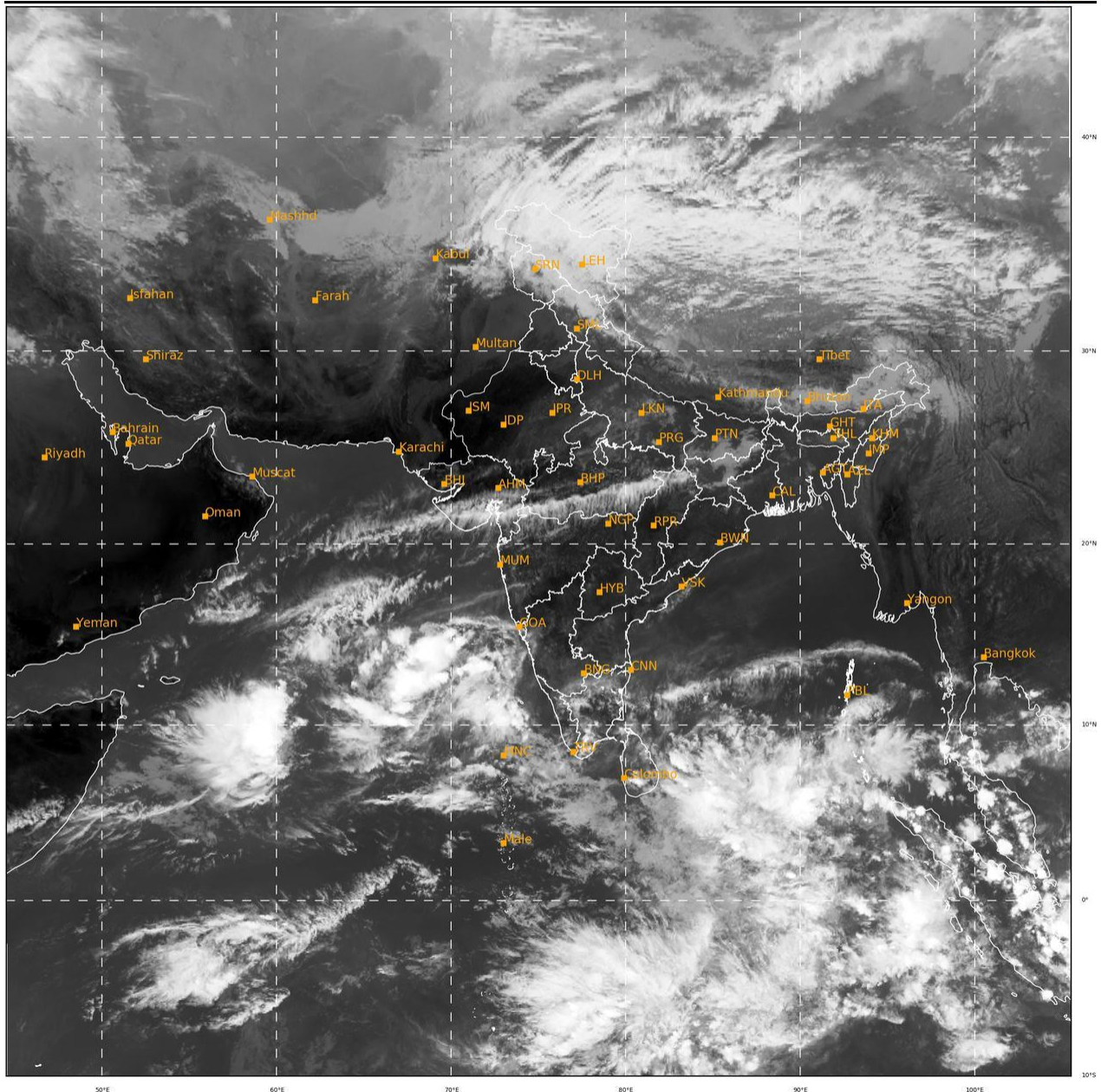
High Tmax.: 35°C at Hoshangabad district - Low Tmin.: 10°C at Mandla district - Max. Rainfall: 60 mm in Gwalior district. State received one light shower. - Day Temp.: Normal - Night temp.: 3 C above normal over the state.

Contingency measure:

- General Advice: Suitable time for sowing of Pea/ Lentil/ Gram/ wheat in row to row after seed treatment with Pseudomonas floescence 5 to 6 g/ kg of seed or carbendazim+ dithane M-45 mixture @ 2.5 g/kg of seed Wheat 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. 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 . 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.
- Mustard: Recommended varieties of mustard% Pusa Mahak, J.M.-03, J.M.-02, Pusa Bold, Jgannath, Pusa Agrani, NRCHB-506.
- Rice: Farmers are advised to monitoring of late mature varieties in the field. If insect pest attack apply plant protection measures as per the advise of scientists from a nearest Krishi Vigyan Kendra. Low duration crop should be harvested.
- 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.
- 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.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

19-11-2020/(0800 to 0827) GMT
19-11-2020/(1330 to 1357) IST



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IMD, DELHI

Figure: 1. Latest available satellite picture as on 19 November 2020 at 1357 Hrs (IST). (Source: IMD).

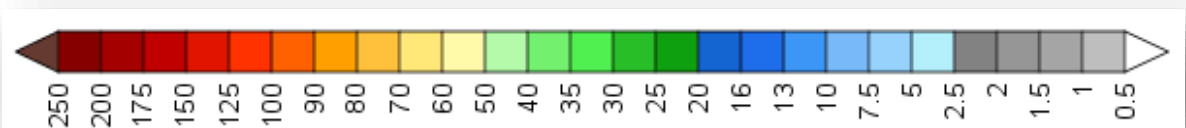
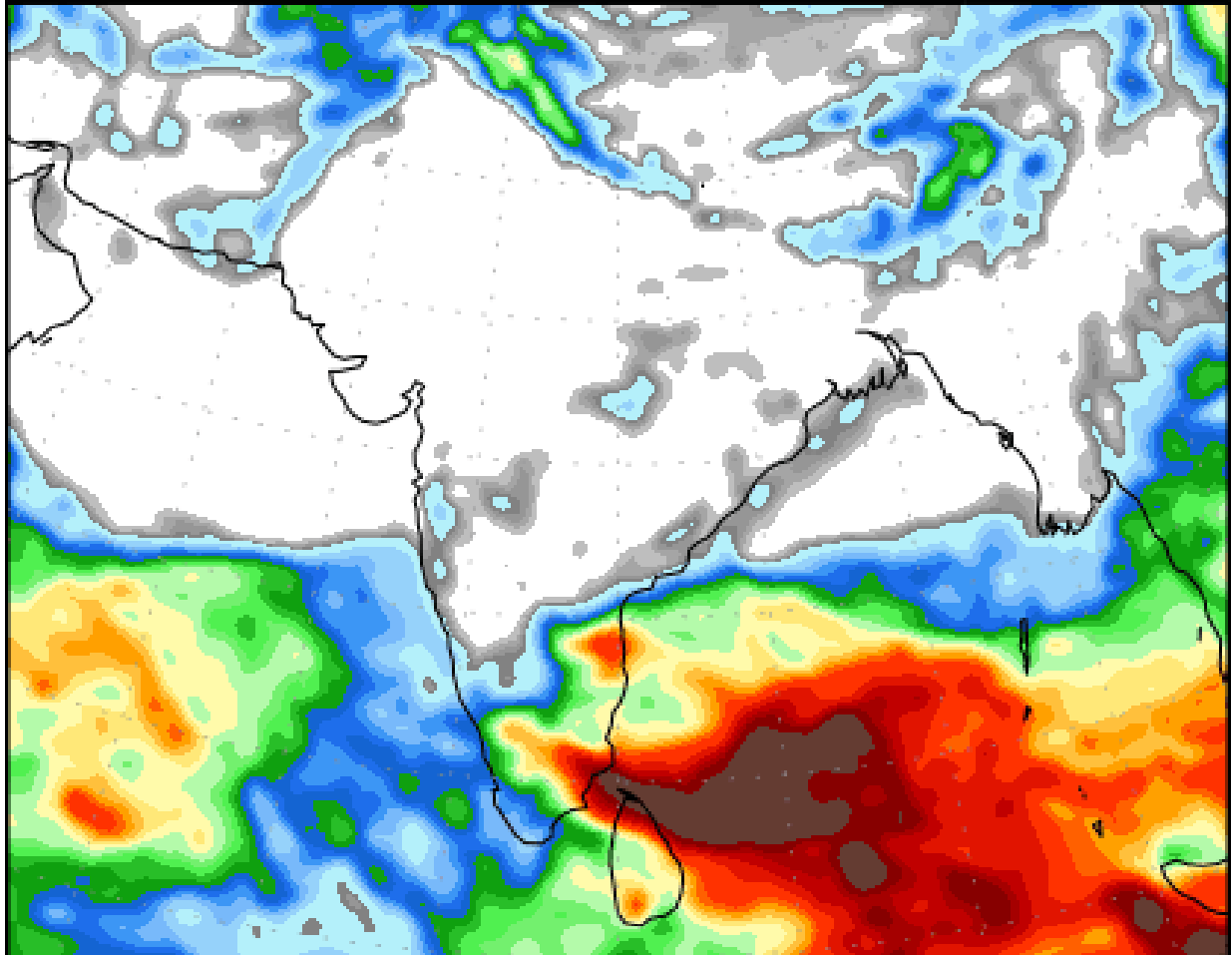


Figure:2. Precipitation forecast for 19 to 27 November 2020 (Source: NOAA NCEP).

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.