

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 20 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:

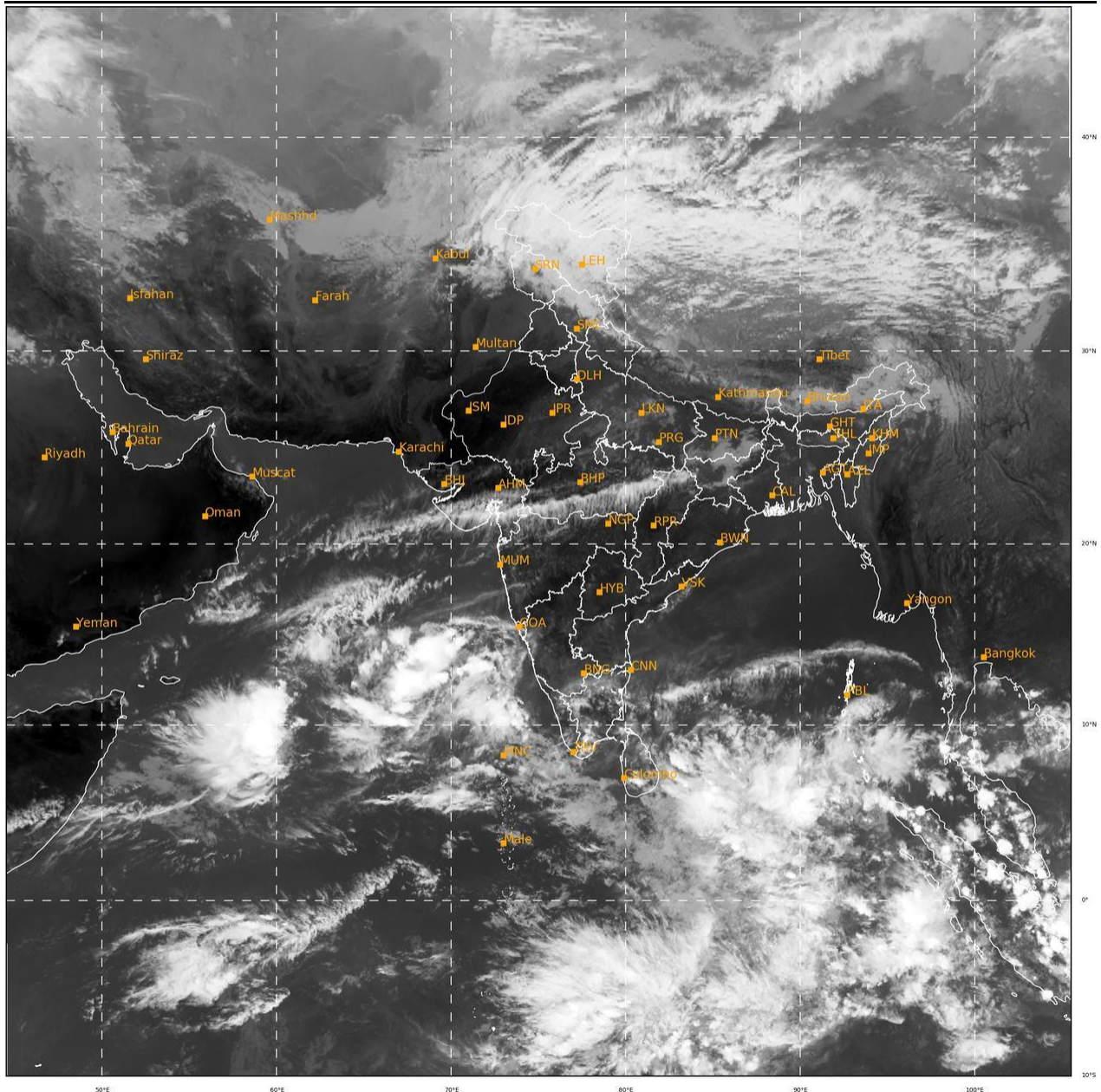
High Tmax.: 35°C at Hoshangabad district - Low Tmin.: 10°C at Mandla district - Max. Rainfall: 60 mm in Gwalior district. State received one light shower. - Day Temp.: Normal - Night temp.: 3 C above normal over the state.

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 fallow 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).

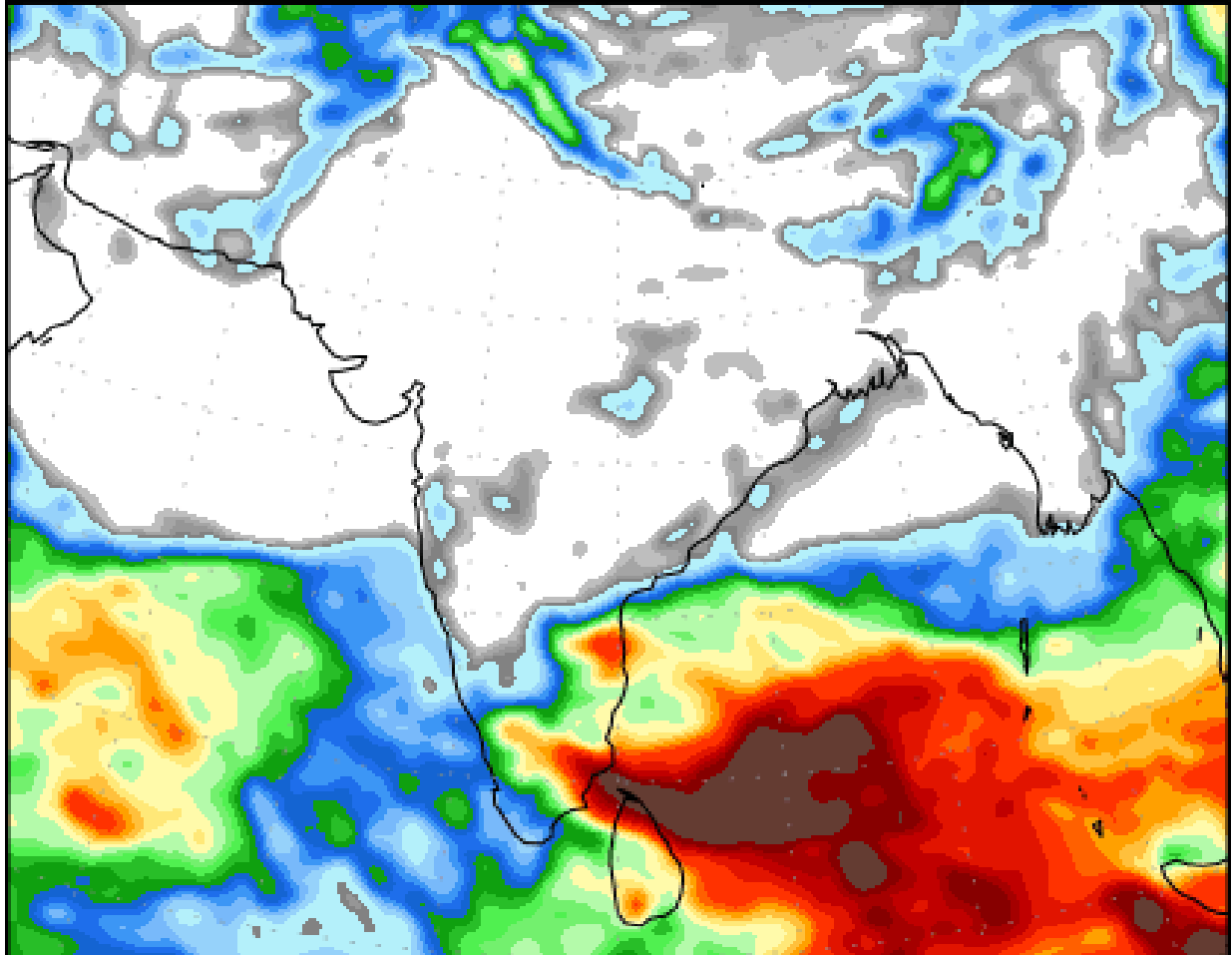


Figure:2. Precipitation forecast for 19 to 27 November 2020 (Source: NOAA NCEP).

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