

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 16 November 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The trough in easterlies now runs from Comorin area to north Coastal Tamil Nadu and extends upto 1.5 km above mean sea level and another trough of low runs from Maldives area to southeast Arabian sea off Kerala coast and extends upto 1.5 km above mean sea level. Under the influence of these systems, scattered to fairly widespread rainfall accompanied with thunderstorm & lightning and isolated heavy to very heavy rainfall is very likely over Tamil Nadu, Puducherry & Karaikal during 16th to 18th; isolated heavy rainfall over Coastal Andhra Pradesh on 16th, Kerala during 16th & 18th and Lakshadweep on 16th & 17th November, 2020.
- The Western Disturbance now lies as a cyclonic circulation over north Pakistan & neighbourhood at 3.1 km above mean sea level with trough aloft roughly along Long. 70°E and to the north of Lat. 26°N. The Induced cyclonic circulation lies over northwest Rajasthan at lower levels. These systems likely to move further northeastwards during next 24 hours and hence there impact on weather over northwest India likely to further reduce today. Under such conditions, light/moderate isolated to scattered rain/snow very likely over Western Himalayan region and isolated rainfall over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Bihar on today, the 16th November 2020 and dry weather very likely thereafter.
- Under the impact of a fresh Western Disturbance, light isolated to scattered rain/snow very likely over Western Himalayan region from 18th to 20th November 2020.
- Minimum temperature are very likely to fall gradually by 2-4°C over northwest India, Madhya Pradesh, Gujarat, Bihar and West Bengal & Sikkim during next 4-5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/snow observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh.
- 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, Himachal Pradesh and Tamil Nadu, Puducherry & Karaikal; at many places over Uttar Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rayalseema and Lakshadweep ; at a few places over Andaman & Nicobar Islands, Coastal Andhra Pradesh, South Interior and Kerala & Mahe; and at isolated places over Rajasthan and West Madhya Pradesh.
- Hailstorm reported over Hisar, Sonipet and Ludhiyana.
- Thunderstorm(0830 hours IST of yesterday to 0530 hours IST of today) observed at isolated place over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Kerala.
- Heavy to very heavy rain occurred at isolated places over Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 15-11-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jharkhand; a few places over East Madhya Pradesh and at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, interior Odisha, southeast parts of West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Chhattisgarh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and North Interior Karnataka; at a few places over rest Odisha, Madhya Maharashtra, south Konkan and Kerala; at isolated places over East Rajasthan, West Uttar Pradesh, rest West Madhya Pradesh, Genetic West Bengal and Saurashtra & Kutch. They were Markedly below normal (- 5.1°C and less) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at a few places over Himachal Pradesh and below normal (-1.6°C to - 3.0°C) at a few places over Rayalseema; at isolated places over West Rajasthan, Haryana, Chandigarh & Delhi and south Coastal Andhra Pradesh and near normal over rest parts of the country. Yesterday, The highest maximum temperature of 37.1°C was reported at Karwar (Coastal Karnataka).
- Minimum Temperature Departures as on 16-11-2020: Minimum temperatures are Markedly above normal (5.1 to more) at isolated places over Madhya Pradesh and Madhya Maharashtra ; appreciably above normal (3.1°C to 5.0°C) at a few places over Assam & Meghalaya, Telangana, Rayalseema and Coastal Karnataka; at

isolated places over Punjab and East Rajasthan; above normal (1.6°C to 3.0°C) at many places over Odisha, Gujarat Region, Kerala and Andaman & Nicobar Islands; at a few places over West Rajasthan, Jharkhand, Chhattisgarh, Vidarbha Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Uttar Pradesh, Saurashtra & Kutch, Marathwada and Konkan & Goa. They were below normal (-1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and near normal over rest parts of the country. Yesterday, The lowest minimum temperature of 11.4°C was reported at Banda (East Uttar Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 16 November (Day 1): Heavy to very heavy rainfall very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Lakshadweep. Thunderstorm with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.
- 17 November (Day 2): Heavy rainfall likely at isolated places over Kerala and Tamil Nadu, Puducherry & Karaikal and Lakshadweep. Thunderstorm with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- 18 November (Day 3): Heavy rainfall likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- 19 November (Day 4): Thunderstorm with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- 20 November (Day 5): Thunderstorm with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 16 to 24 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)

Gujarat

Weather condition:

The actual maximum temperature was 0.7°C and Actual minimum temperature was 1.3 °C lower as compared to its normal. Total BSS was 65.2 hrs. with an average of 9.3 hrs. The daily average evaporation and wind speed was 3.4 mm and 1.9 km/hr respectively. The daily average RH during morning and afternoon was 80.1 % and 29.6 % respectively.

Contingency measure:

- Soil should be prepared by horizontal and vertical tractor ploughing for the Rabi crops like mustard, potato, onion, wheat etc.
- Mustard: Land preparation/sowing : Procure certified seed @ 4 kg/ha of any recommended mustard cultivar viz.,Gujarat Mustard 1 or 2 or 3 or GDM 4 or 5 or Bio-902. Apply Basal dose of nitrogen @ 25 kg/ha, Phosphorus @50 kg/ha. at the time of sowing. Sowing distance should be kept 45 cm between the rows and seed rate should be 4 kg/ha.
- Paddy: Maturity : Harvest mature crop and keep in field for sun drying.
- Gram: Sowing: Select variety like Dahod yellow ,GG-1, 2, 5 or ICCC-4 and sow at 30 x 10 cm spacing @ 60 kg /ha seed rate.
- Tobacco : Gap filling, inter-culturing and weeding is advised.
- Cotton : Reproductive: For control of pink boll worm infestation install the pheromone trap @ 16 per hectare. Apply carbaryl 50% WTP 40 gm in 10 liters of water to avoid pink boll worm in cloudy condition.
- Castor : boll development: Semi looper : Apply supplementary dose of nitrogen @ 40 kg ha⁻¹ in form of urea. Carryout inter-culturing and weeding operations. Spray Quinalphos 20 ml in 10 liters of water at 15 days interval.
- Vegetables : Flowering/Reproductive : For the control of White fly/Aphid Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 liter of water at 15 days interval (4 sprays) or acetamiprid 20 % SP@ 5.0 gm/10 lit of water at 15 days interval.
- Tomato: Vegetative Growth: there is possibility of incidence of spotted wilt virus, spray Carbendazim (50 % WP) 5 g in 10 liter water at 10 to 12 days interval.
- Cattle : Keep animal shed hygienic and clean to avoid flies and mosquitoes. Disease (like, Anthrax, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal.

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

16-11-2020/(0800 to 0827) GMT
16-11-2020/(1330 to 1357) IST

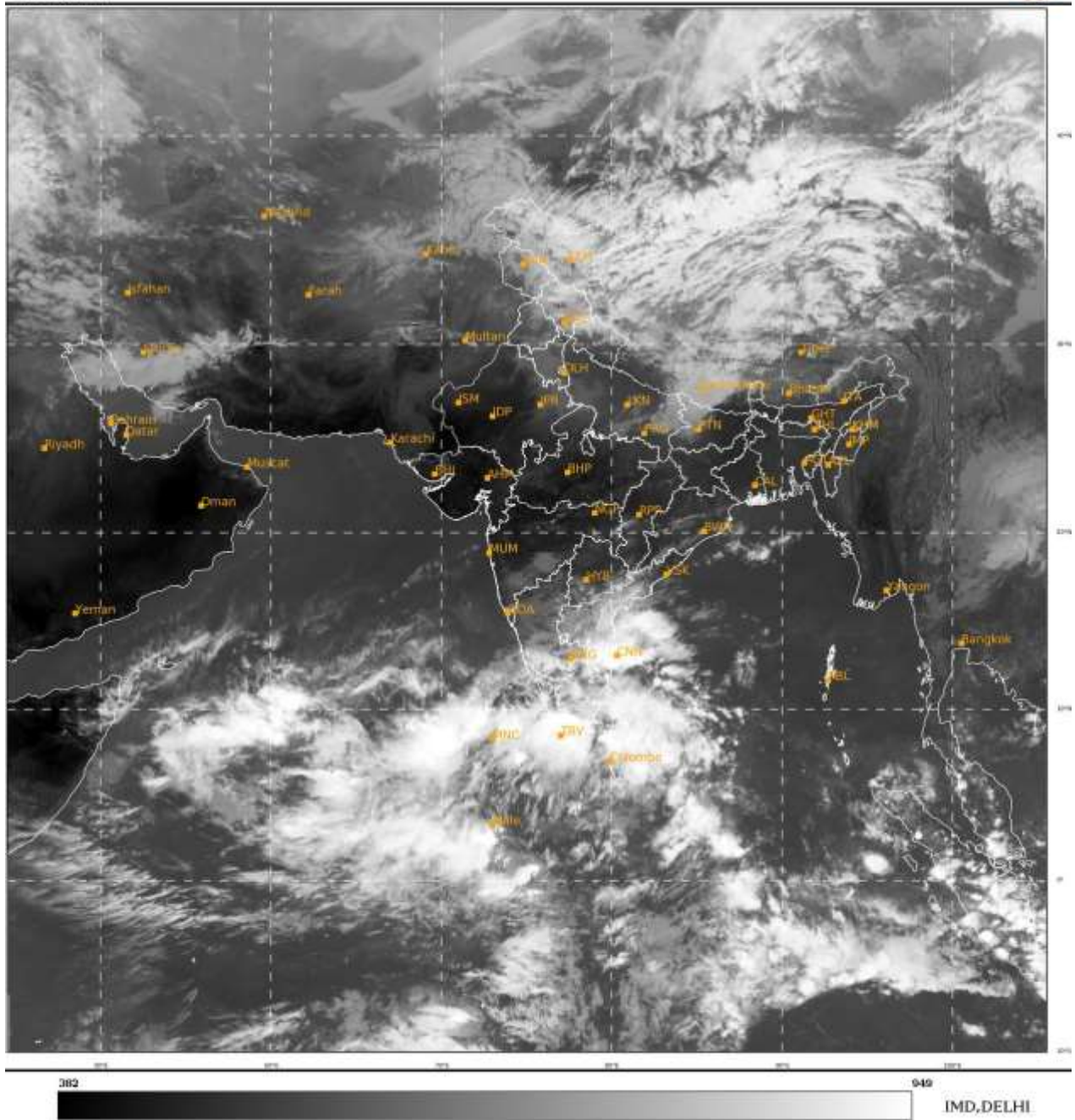


Figure: 1. Latest available satellite picture as on 16 November 2020 at 1357 Hrs (IST). (Source: IMD).

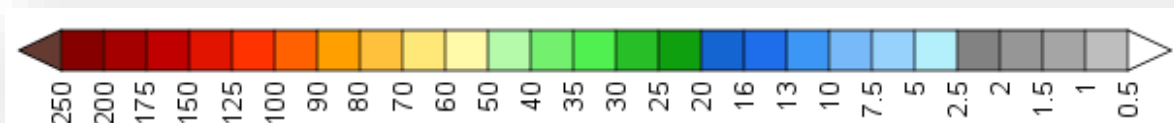
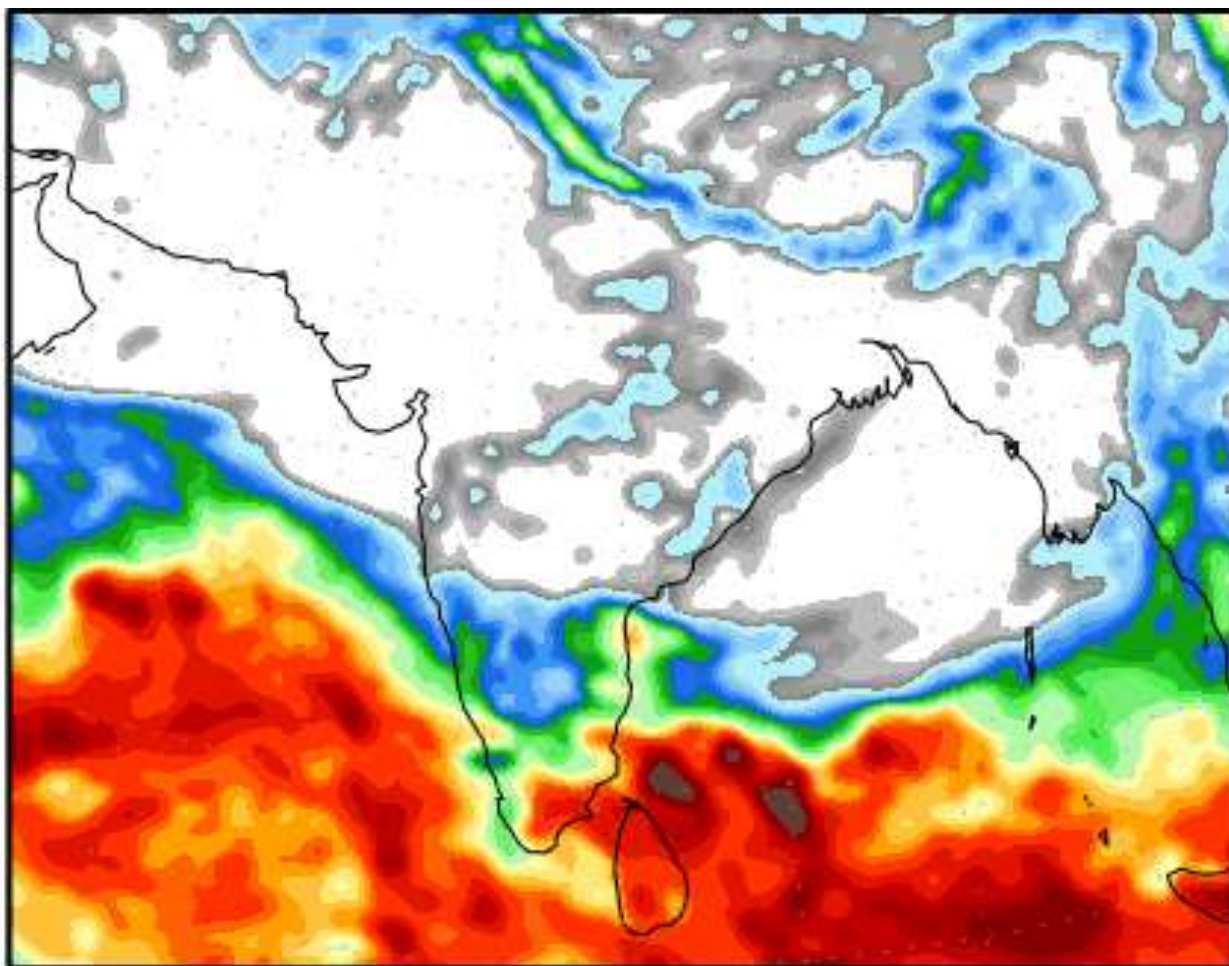


Figure:2. Precipitation forecast for 16 to 24 November 2020 (Source: NOAA NCEP).

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