

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 04 December 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- An easterly wave has started affecting south peninsular India from yesterday. Associated with this, enhanced rainfall activity is likely over South Peninsular India during 4th - 6th December. Isolated heavy rainfall is likely over parts of Tamilnadu on 4th & 6th December; over south Coastal Andhra Pradesh and Rayalaseema on 4th; over South Interior Karnataka on 5th December and over Kerala on 5th & 6th December.
- Squally weather very likely to prevail over southeast Arabian Sea during next 24 hours. Fishermen are advised not to venture into these areas.
- No active western disturbance is likely to affect western Himalayan region during next 4 days; resulting in westerly/northwesterly flow over northern India. Under this scenario, no significant change in minimum temperatures likely over major parts of north India during next 4-5 days.
- Moderate fog observed at isolated places over West Uttar Pradesh. Visibility: Agra-200 M and Bareilly-200 M at 0830 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed from 0830 hours IST of yesterday to 0830 hours IST of today: Rain/Thundershower observed at a few places over Tamilnadu & Puducherry and at isolated places over Coastal Andhra Pradesh and Rayalaseema. Heavy to very heavy rain occurred at isolated places over Tamilnadu and heavy rain at isolated places over Rayalaseema.
- Maximum temperature departures as on 03-12-2018: Maximum temperatures were below normal (1.6°C to 3.1 °C) at isolated places north Madhya Maharashtra. They were appreciably above normal (3.1°C to 5.0 °C) at isolated places over Jammu & Kashmir and West Rajasthan; above normal (1.6°C to 3.0°C) at many places over West Rajasthan, Tamilnadu; at a few places over Saurashtra and Kerala and at isolated

places over Himachal Pradesh, South Uttar Pradesh and coastal Andhra Pradesh and near normal over rest of the country.

- The highest maximum temperature of 35.6°C was recorded at Mangalore (Coastal Karnataka) over the country.
- Minimum temperature departures as on 04-12-2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over West Rajasthan and Tamilnadu; above normal (1.6°C to 3.0°C) at most places Coastal Andhra Pradesh and Rayalaseema; at many places over West Madhya Pradesh and Gujarat State; at a few places over Punjab and at isolated places over Madhya Maharashtra, Konkan , Telangana, Kerala, north Bihar and Sub-Himalayan West Bengal. They are below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir and at isolated places over East Rajasthan, East Madhya Pradesh, south Bihar and Gangetic West Bengal and near normal over rest of the country.
- The lowest minimum temperature of 5.9°C was recorded at Khajuraho (East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 04 December (Day 1): Heavy rain very likely at isolated places over south Coastal Andhra Pradesh, Rayalaseema and Tamilnadu & Puducherry. Squally weather very likely to prevail over southeast Arabian Sea during next 24 hours. Fishermen are advised not to venture into these areas.
- 05 December (Day 2): Heavy rain very likely at isolated places over South Interior Karnataka and Kerala.
- 06 December (Day 3): Heavy rain very likely at isolated places over South Tamilnadu and Kerala.
- 07 December (Day 4): No weather warning.
- 08 December (Day 5): No weather warning.
- The weather outlook for the period of seven days *i.e* 04 to 11 December 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur at a few places over Rayalaseema, Coastal Andhra Pradesh and Tamilnadu & Puducherry. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

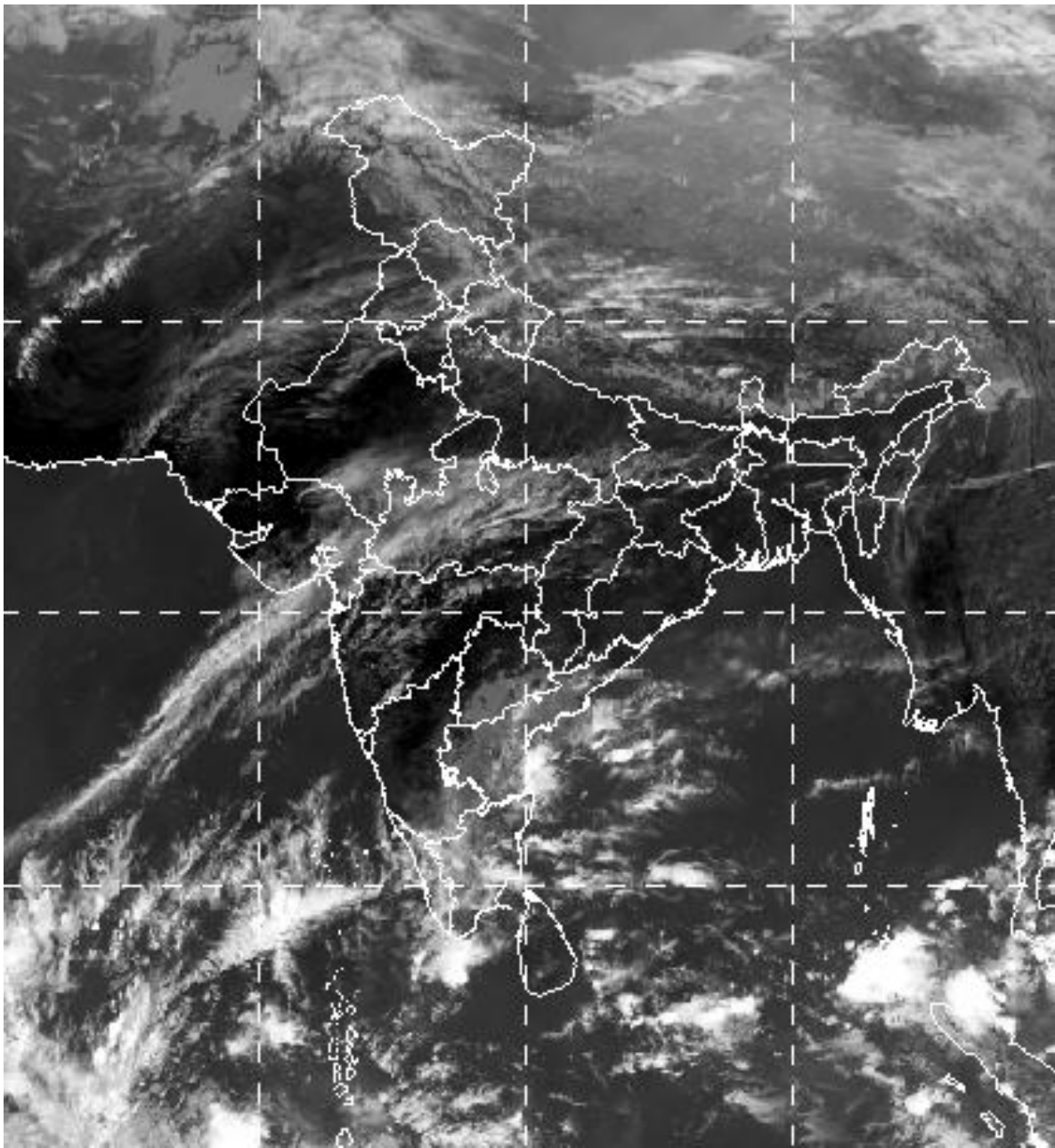
Gujarat

Weather condition

Dry weather prevailed in Gujarat state during past few days. The actual maximum temperature is above normal by 2.2°C and minimum temperature is also above normal by 0.8°C.

Contingency measure:

- Wheat: Sowing of GW - 496, GW - 503, GW - 273, GW - 322 @ 22.5 cm spacing using seed rate @ 100 -120 kg/ha. Application of 60 kg Nitrogen and 60 kg Phosphorus per hectare as basal fertilizer application should be recommended.
- 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.
- Mustard: As there is starting of winter Farmers are advised to sow mustard varieties Varuna, Gujarat Mustar-1, 2 and 3 to escape mustard sawfly and thrips epidemic.
- Rabi Maize: Sowing of variety Ganga safed -2,GM - 6 at 60 x 20 cm sowing distance with an application of 21 kg Urea and 130 kg DAP as basal fertilizer application.
- Gram: Select variety like Dahod yellow, GG-1, 2 or ICC-4 and sow at 30 x 10 cm spacing @ 60 kg / ha seed rate.
- Chilli: Growth: Triazophos 40EC or Acephate 75SP 10 ml per 10 lit water should be sprayed. Potato: Sowing : Deep ploughing 2-3 times and make furrow at 45 cm for sowing of potato.
- Cotton: Pick the cotton during morning hours before evaporation of dew for better quality.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Disease (like, Anthracis, milk fever and Brucellosis) infected animals to regular check-up and regular vaccination for the animal. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals.



**Figure: 1. Latest available satellite picture as on 04 December 2018 at 0230 Hrs (IST).
(Source: IMD).**

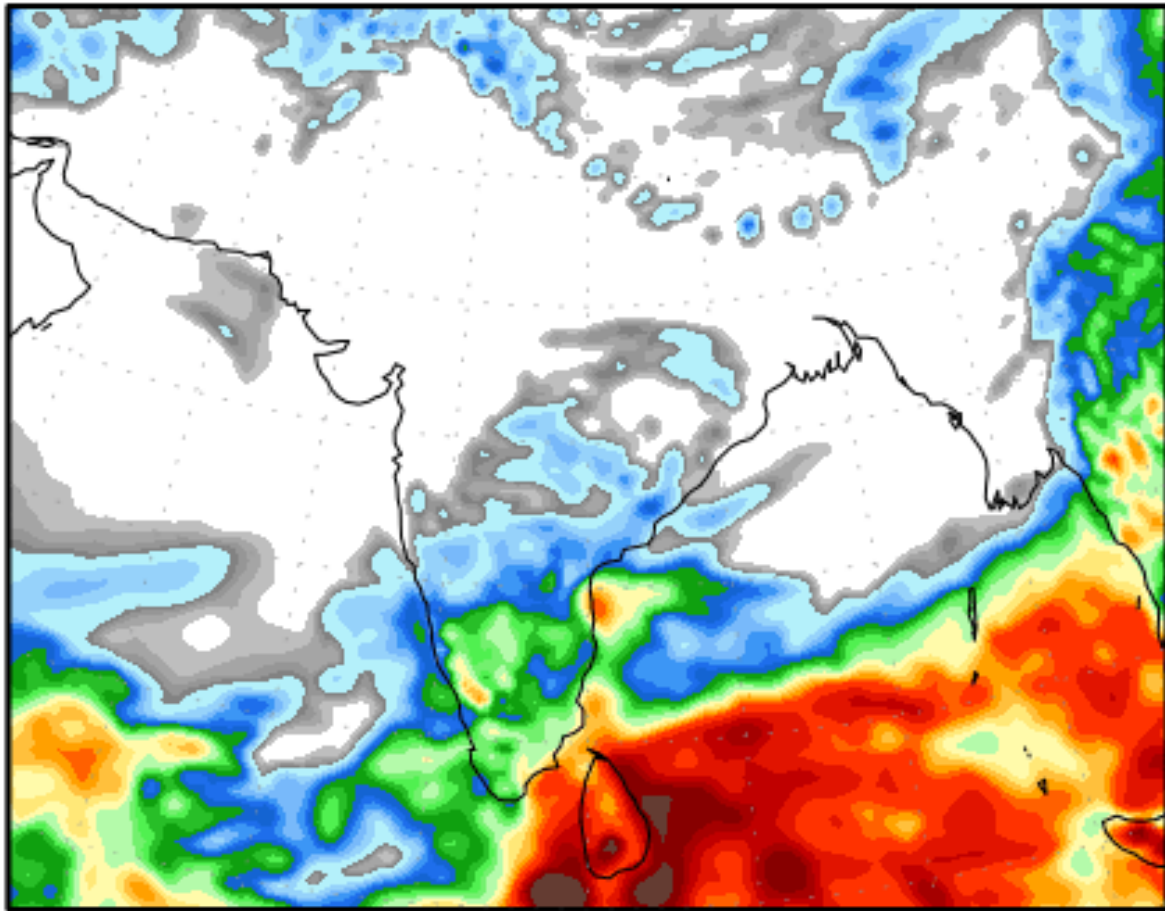


Figure: 2. Precipitation forecast for 04 to 11 December 2018 (Source: NOAA NCEP).