

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 12 December 2018

Significant Weather Features (IMD)

- The well marked low pressure area over central parts of south Bay of Bengal and adjoining Equatorial Indian Ocean now lies over southeast Bay of Bengal and adjoining Equatorial Indian Ocean. The associated cyclonic circulation extending upto 5.8 km above mean sea level also persists. It is likely to concentrate into a depression during next 24 hours and intensify further into a deep depression during subsequent 24 hours. It is very likely to move towards south Andhra & adjoining north Tamilnadu coasts during next 72 hours.
- The western disturbance as a cyclonic circulation at 3.1 km above mean sea level over Jammu & Kashmir and adjoining Pakistan persists. The trough aloft with its axis at 5.8 km mean sea level now runs roughly along Long. 72°E to the north of Lat. 28°N. The induced cyclonic circulation extending upto 1.5 km above mean sea level over central parts of Rajasthan now lies over East Rajasthan. Under the influence of these systems, isolated to scattered precipitation likely over western Himalayan region and isolated rainfall over adjoining plains during next 24 hours.
- Dense to very dense fog observed at isolated places over Chhattisgarh; moderate fog at isolated places over Jammu & Kashmir, Himachal Pradesh, Haryana, Chandigarh & Delhi, Uttar Pradesh Bihar, Assam & Meghalaya, Vidarbha and Marathwada. Visibility: Jagdalpur-50 M, Aurangabad-200 M, Agra, Varanasi, Gaya, Raipur, Bramhapuri, Bareilly and Imphal- 500 M each 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 hrs IST of today): Rain/snow observed at most places over Himachal Pradesh; at many places over Jammu & Kashmir and at isolated places over Uttarakhand. Rain observed at most places over Andaman & Nicobar Islands; at isolated places over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, West Uttar Pradesh, Odisha and Nagaland, Manipur, Mizoram & Tripura.
- Maximum temperature departures as on 11.12.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Assam &

Meghalaya, Rayalaseema and South Interior Karnataka; above normal (1.6°C to 3.0°C) at most places over North Interior Karnataka; at a few places over Tamilnadu & Puducherry; at isolated places over Madhya Maharashtra, Marathwada, Telangana, West Bengal & Sikkim, Kerala and Andaman & Nicobar Islands. They were markedly below normal (-5.0°C or less) at isolated places over Himachal Pradesh; appreciably above normal (-3.1°C to -5.0°C) at isolated places over Jammu & Kashmir and West Rajasthan; below normal (-1.6°C to -3.0°C) at a few places over Haryana, Chandigarh & Delhi and West Uttar Pradesh; at isolated places over East Uttar Pradesh, south Madhya Pradesh, north Konkan & Goa and Odisha and near normal over rest of the country.

- The highest maximum temperature of 34.6°C was recorded at Vengurla (Konkan & Goa) over the country.
- Minimum temperature departures as on 12-12-2018: Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Haryana, Chandigarh & Delhi; at isolated places over Rajasthan and Telangana; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab; at a few places over Himachal Pradesh and Gujarat; at isolated places over West Uttar Pradesh and Chhattisgarh; above normal (1.6°C to 3.0°C) at many places over Coastal Andhra Pradesh; at a few places over West Madhya Pradesh, Bihar, Odisha, Jharkhand, South Interior Karnataka and Kerala; at isolated places over Jammu & Kashmir, Vidarbha, West Bengal & Sikkim, Tamilnadu & Puducherry and Andaman & Nicobar Islands. They are below normal (-1.6°C to -3.0°C) at a few places over Konkan & Goa; at isolated places over Madhya Maharashtra and Coastal Karnataka and near normal over rest of the country.
- The lowest minimum temperature of 5.0°C recorded at Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 12 December (Day 1): Shallow to moderate fog at a few places with dense fog at isolated places is very likely over Punjab, Haryana and Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh and Chhattisgarh. Squally wind speed reaching 40-50 kmph gusting to 60 kmph very likely over southeast Bay of Bengal and adjoining Equatorial Indian ocean. Sea condition likely to be rough to very rough. Fishermen are advised not to venture into these areas.
- 13 December (Day 2): Shallow to moderate fog at a few places with dense fog at isolated places is very likely over Punjab, Haryana and Chandigarh & Delhi and Uttar Pradesh. Squally wind speed reaching 45-55 kmph gusting to 65 kmph very likely over central parts of south Bay of Bengal and adjoining Equatorial Indian ocean. Sea condition likely to be rough to very rough. Fishermen are advised not to venture into these areas.

- 14 December (Day 3): Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to commence along & off south Coastal Andhra Pradesh and north Tamilnadu & Puducherry coasts from 15th December morning. Fishermen in deep sea are advised to return to the coast. Squally wind speed reaching 55-65 kmph gusting to 75 kmph very likely over southwest Bay of Bengal. Sea condition likely to be rough to very rough. Fishermen are advised not to venture into these areas.
- 15 December (Day 4): Heavy to very heavy rain at isolated places likely over south Coastal Andhra Pradesh and north coastal Tamilnadu. Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to commence along & off south Coastal Andhra Pradesh and north Tamilnadu & Puducherry coasts from morning. Gale wind speed reaching 60-70 kmph gusting to 80 kmph likely over southwest and adjoining west central Bay of Bengal. Sea condition likely to be very rough to high. Fishermen are advised not to venture into these areas.
- 16 December (Day 5): Heavy to very heavy rain at isolated places likely over south Coastal Andhra Pradesh and north coastal Tamilnadu. Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely along & off south Coastal Andhra Pradesh and north Tamilnadu & Puducherry coasts. Gale wind speed reaching 60-70 kmph gusting to 80 kmph likely over west central and adjoining southwest Bay of Bengal. Sea condition likely to be very rough to high. Fishermen are advised not to venture into these areas.
- The weather outlook for the period of seven days *i.e* 13 to 19 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 Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, West Uttar Pradesh, Odisha, Andaman & Nicobar Islands and North Eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Andhra Pradesh

Weather condition

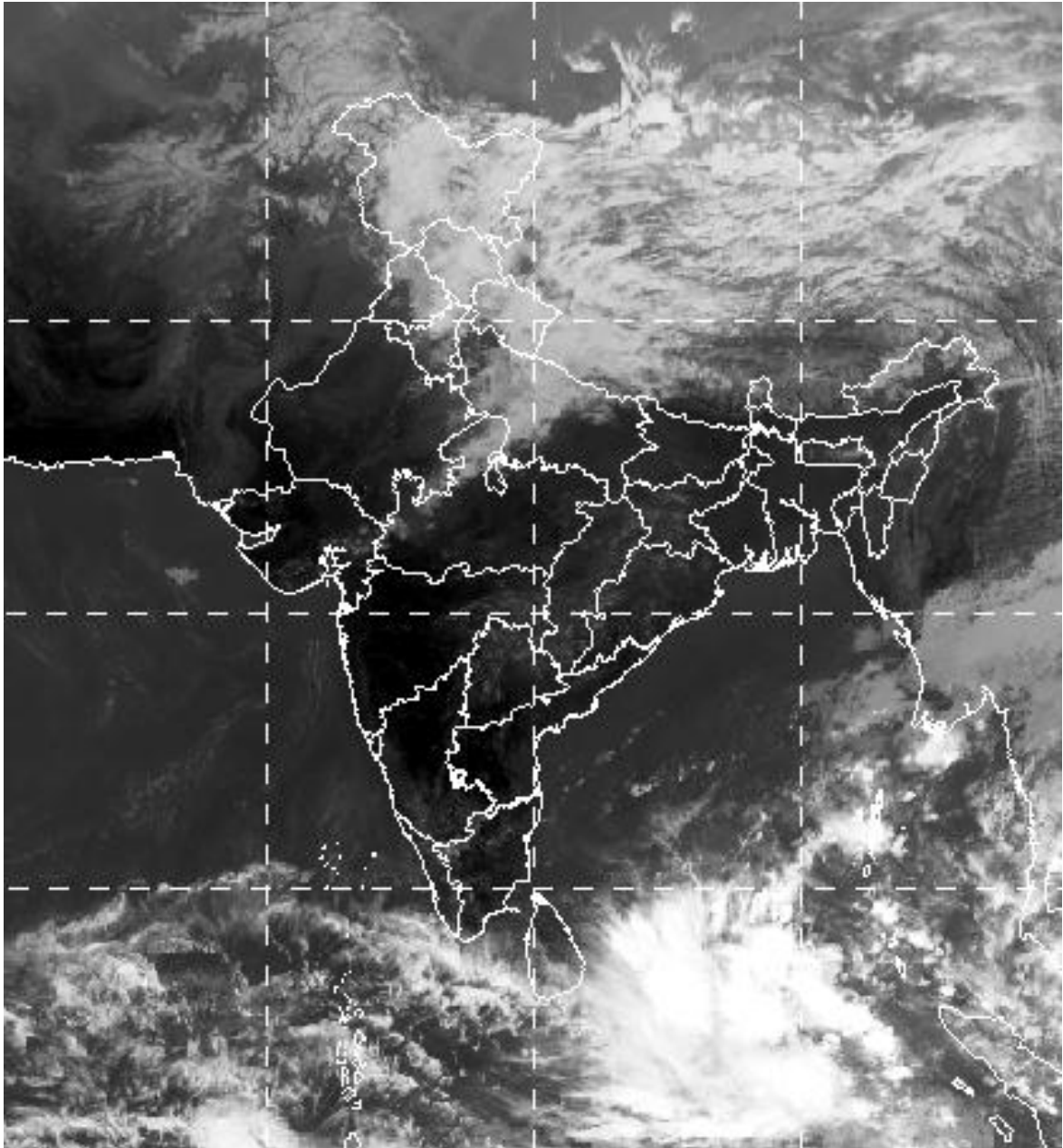
Light rainfall in scattered places and dry weather prevailed in Andhra Pradesh state during past few days. State as whole received 7.1 mm rainfall against the normal rainfall of 14.6 mm (-51%).

Contingency measure:

- Farmers of West and East Godavari, Krishna, Guntur, Prakasam are advised to take up sowing of greengram and blackgram under upland and rice fallows from second

Fortnight of November to second fortnight of December. They are advised to select high yielding and YMV resistant varieties of Blackgram like LBG 787, LBG 752, TBG 104, GBG 1 and Greengram viz., LGG 460, TM 96-2, IPM 2-14. Treat the seed with Imidacloprid 5g/kg or Thiomethaxam @5g/kg before sowing. Fall army worm incidence is noticed in Jowar crop in Kurnool, Prakasam, Ananthapuramu and Kadapa districts.

- Farmers are advised to take up spraying of Emamectin Benzoate @ 0.5 g/l or Lambda cyhalothrin@1ml/ l of water for control of fall army worm. –Incidence of spotted pod borer observed in redgram crop in Prakasam, Ananthapuramu, Kurnool, districts. Farmers are advised to spray Chlorpyrifos@2.5ml/1 and Dichlorovos@1ml/1 for control of the pest. Incidence of Leaf folder, stem borer, BPH incidence observed in late kharif sown rice crop in scarce rainfall zone.
- Farmers are advised to take up spraying of Chloropyrifos @2.5ml/1 + Diclorovos @1 ml/1 or acephate @ 1.5 g/l or cartap hydrochloride @ 1.5 g/l of water for control of leaf folder and stem borer; Acephate@1.5 g/l or Bufrofuzin@1.6ml/1 or Thiomethaxam @0.2g/l for control of BPH. –Incidence of fall army worm is observed in maize crop in Ananthapuramu, Chittoor, Kadapa, Kurnool, Srikakulam, Vizianagaram, West Godavari, Krishna, Guntur, Prakasam districts.
- Farmers are advised to take up spraying of Emamectin Benzoate @ 0.5 g/l or Lambda cyhalothrin@1ml/ l of water for control of fall army worm. –Incidence of sucking pests noticed in greengram, blackgram and rabi groundnut crops in Kurnool and Krishna districts.
- Farmers are advised to spray monochrotophos@1.6 ml/1 or acephate@1.5g/1 or acetamiprid@0.2g/1 for control. Farmers are advised to monitor the pink boll worm incidence, observe rosette flowers and sampling of green bolls regularly. If incidence is noticed spraying of Quinalphos@ 2ml/lit or Chlorpyrifos@ 2.5 ml/ lit or Thiodicarb @1g/lit is recommended. Destroy rosette flowers and remove the dropped squares, dried flowers and premature bolls to suppress the pest population periodically..



**Figure: 1. Latest available satellite picture as on 12 December 2018 at 0230 Hrs (IST).
(Source: IMD).**

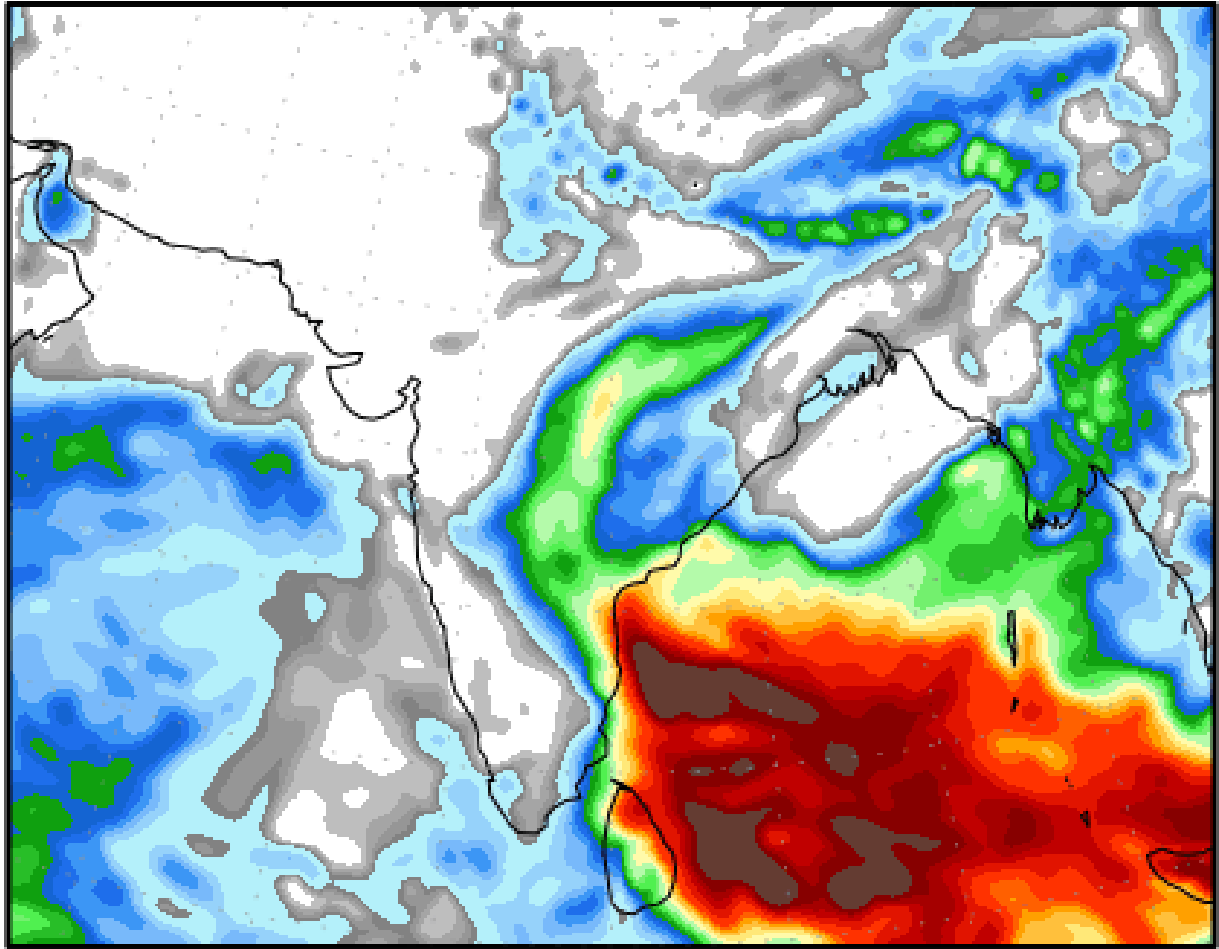


Figure: 2. Precipitation forecast for 12 to 19 December 2018 (Source: NOAA NCEP).