

# **All India Coordinated Research Project on Agrometeorology, CRIDA, Santoshnagar, Hyderabad – 500 059**

## **Daily Crop Weather Information as on 11 December 2018**

### **Significant Weather Features (IMD)**

- A well-marked low pressure area lies over central parts of south Bay of Bengal and adjoining Equatorial Indian Ocean. Associated cyclonic circulation extends up to 5.8 km above mean sea level. 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 Tamil Nadu coasts during next 72 hours.
- The western disturbance as a cyclonic circulation lies over north Pakistan and adjoining Jammu & Kashmir at 3.1 km above mean sea level with a trough aloft with its axis at 5.8 km mean sea level now runs roughly along Long. 70°E to the north of Lat. 30°N. An induced cyclonic circulation lies over west Rajasthan & neighbourhood and extends up to 1.5 km above mean sea level. Under the influence of these systems, isolated to scattered precipitation likely over western Himalayan region during next 48 hours 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 Delhi, Uttar Pradesh, Vidarbha, South Interior Karnataka and Tamil Nadu. Visibility: Jagdalpur-25 M, Bareilly & Nagpur-200 M, Safdarjung, Sultanpur, Bangalore & Tiruchchirapalli-500 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 yesterday to 0830 hrs IST of today):

- Rain/snow observed at most places over Andaman & Nicobar Islands; at many places over Jammu & Kashmir; at a few places over Chhattisgarh and isolated places over Himachal Pradesh, Rajasthan, Gujarat Region, East Madhya Pradesh, Jharkhand, Odessa, Telangana and Tamil Nadu.
- Rainfall recorded at 0830 hrs IST of today (1 cm & more) are: Banihal - 3, Gulmarg, Batote, Maya Bandar & Long Islands - 2 each and Pahalgam, Kupwara, Jammu, Umari, Malanjhand, Mandla, Pendra road, Chandrapur, Brahmapuri & Carnicobar - 1 each.

### **Maximum temperature departures as on 10-12-2018:**

- Maximum temperatures were appreciably above normal (3.1 °C to 5.0 °C) at many places over Madhya Maharashtra and isolated places over Kerala; above normal (1.6 °C to 3.0 °C) at most places over Tamil Nadu, Interior Karnataka, Rayalaseema; at a few places over Jharkhand, Assam & Meghalaya; at isolated places over Rajasthan, Saurashtra & Kutch, Odisha, Telangana, Coastal Andhra Pradesh & Marathwada.
- They were below normal (-1.6 °C to -3.0 °C) at most places over Jammu & Kashmir & Himachal Pradesh and at isolated places over Uttar Pradesh, Konkan & Goa, Madhya Pradesh, Coastal Karnataka & Gangetic West Bengal and near normal over rest of the country.
- Yesterday, the highest maximum temperature of 35.6 °C was recorded at Karwar (Coastal Karnataka) over the country.

### **Minimum temperature departures as on 10-12-2018:**

- Minimum temperatures are markedly above normal (5.1°C or more) at a few places over Vidharbha and Telangana and isolated places over East Madhya Pradesh; appreciably above normal (3.1 °C to 5.0 °C) at many places over Rajasthan, Saurashtra & Kutch and Chhattisgarh; at isolated places over Rayalaseema and Punjab; above normal (1.6 °C to 3.0 °C) at most places over Saurashtra & Kutch, Madhya Pradesh, Chhattisgarh and Coastal Andhra Pradesh; at many places over Karnataka State; at a few places over West Rajasthan, Punjab, Tamil Nadu & Puducherry, Kerala and Lakshadweep and at isolated places over Andaman & Nicobar Islands and East Rajasthan.
- They are appreciably below normal (-3.1 °C to -5.0 °C) at isolated places over Gangetic West Bengal and Madhya Maharashtra; below normal (-1.6 °C to -3.0 °C) at a few places over Jammu & Kashmir, Konkan & Goa, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and at isolated places over Bihar, Himachal Pradesh and Uttarakhand.
- Today, the lowest minimum temperature of 5.5 °C is recorded at Phalodi (West Rajasthan) over the plains of the country.

### **Weather Warning during next 5 days (IMD)**

#### **11 December (Day 1)**

- Dense fog at isolated places is very likely over Punjab, Haryana and Chandigarh & Delhi.

- Squally wind speed reaching 40-50 kmph gusting to 60 kmph 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.

#### **12 December (Day 2)**

- Dense fog at isolated places is very likely over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh.
- Squally wind speed reaching 45-55 kmph gusting to 60 kmph 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.

#### **13 December (Day 3)**

- Dense fog at isolated places is very likely over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh.
- Squally wind speed reaching 55-65 kmph gusting to 75 kmph likely over southwest 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 4)**

- Squally wind speed reaching 55-65 kmph gusting to 75 kmph likely over southwest 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.

#### **15 December (Day 5)**

- Heavy rain at isolated places likely over south Coastal Andhra Pradesh and north coastal Tamil Nadu.
- Squally wind speed reaching 50-60 kmph gusting to 70 kmph likely over southwest and adjoining west central Bay of Bengal. Sea condition likely to be rough to very rough. Fishermen are advised not to venture into these areas.

The weather outlook for the period of seven days *i.e* 11 December to 19 December 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Sub Himalayan West Bengal & Sikkim, Jharkhand, Madhya Pradesh, Odisha, Chhattisgarh, Maharashtra, Telangana, Andhra Pradesh, Karnataka, Kerala, Tamil Nadu & Puducherry, Lakshadweep, Andaman & Nicobar Islands and North Eastern States. (**Fig. 2**).

## Agricultural activities (AICRPAM-CRIDA)

### Maharashtra (Vidarbha Region)

#### Akola

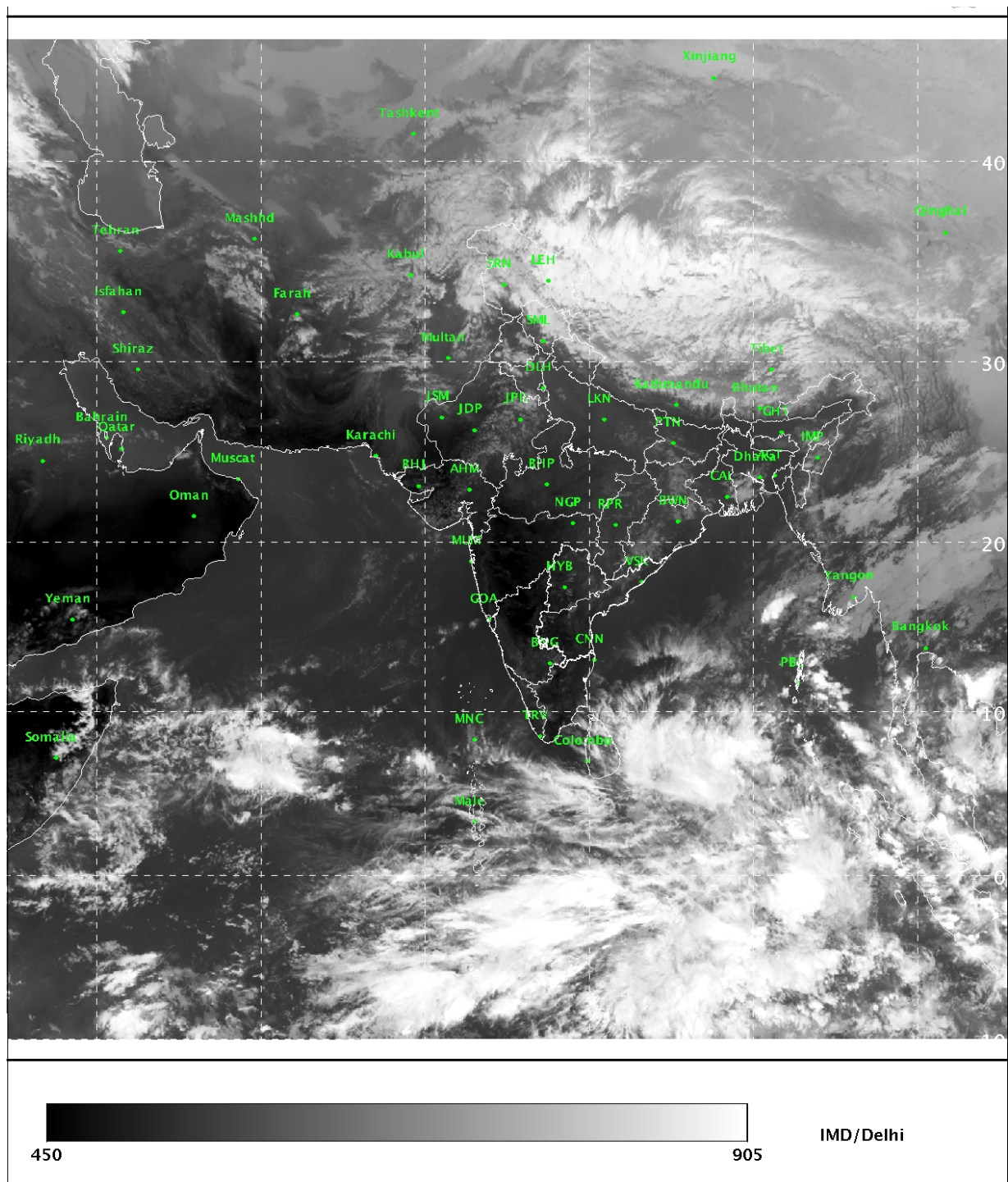
#### Weather condition:

- No rainfall recorded in the state in the last few days. The maximum and minimum temperatures were ranged between 29.0 to 31.0 °C and 12.8 to 19.0 °C, respectively.

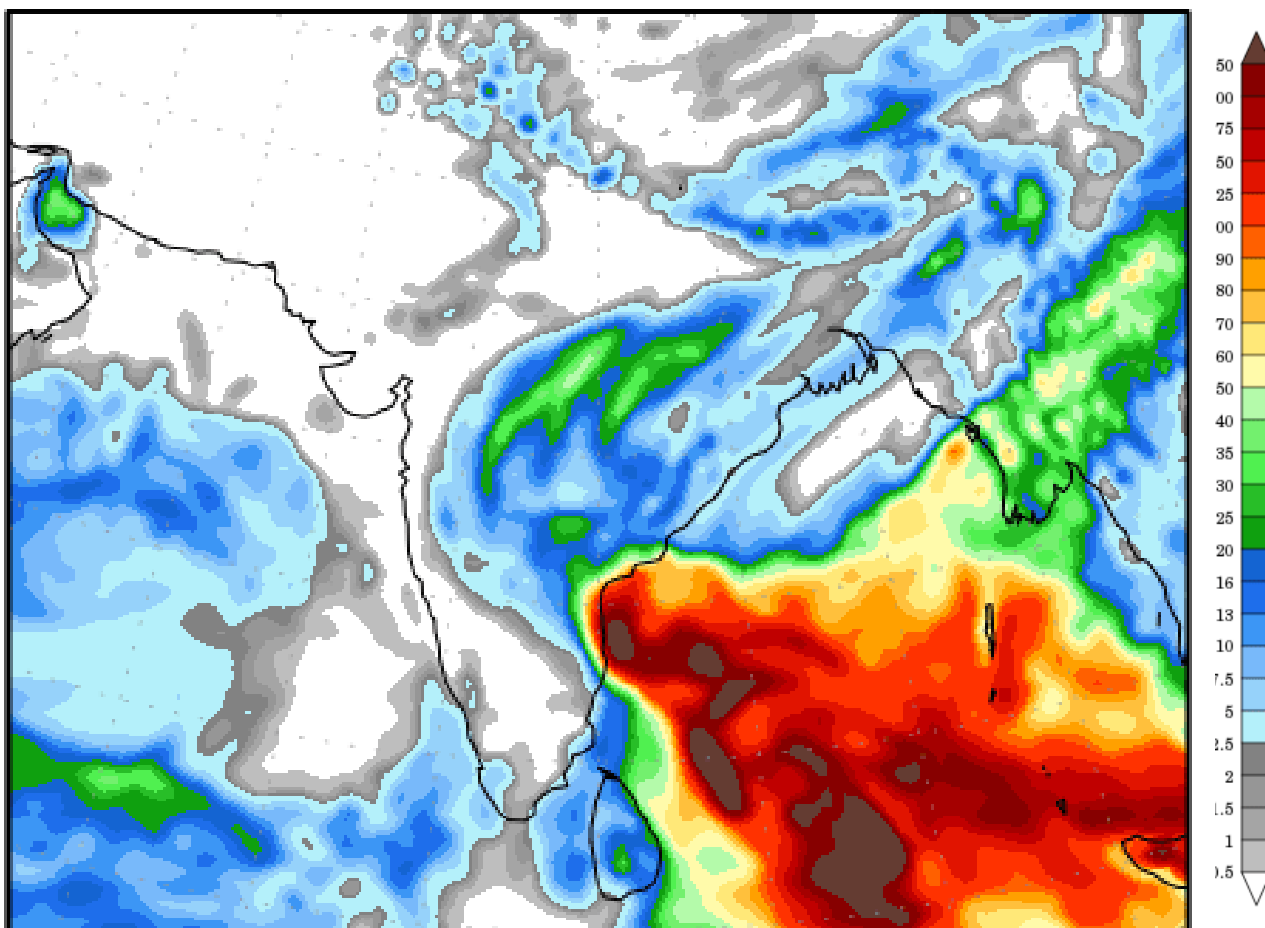
#### Contingency measure:

Regional forecast (IMD) suggests prevalence of mainly dry weather very likely to prevail over Vidarbha with no significant change in minimum temperature. With mainly dry weather prevailing during the past weeks/no post monsoon rains and consequent inadequate soil moisture status, need based protective irrigation is advisable wherever possible.

- **Pigeonpea:** To manage the initial incidence of pod borer (*helicoverpa*), spray 5% neem seed extract. Above ETL level (10-20 larvae/plant) undertake spray of Chlorantraniliprole 18.5% SC 2.5 ml OR Emamectin benzoate 5% SG @ 3 g in 10 litres of water. Avoid green pod picking till 10 days after insecticidal spray. Monitor for incidence of sap sucking aphids particularly in irrigated / late sown safflower crop and for above ETL level incidence (30% infested plants) undertake spray with dimethoate 30% EC @ 13 ml per 10 litres of water.
- **Wheat:** In areas where wheat sowings are delayed (beyond 15th November), use varieties recommended for delayed sowings in the region - AKW-381, HI-977, HD-2501, AKW-1071 (Purna) and NIAW-34.
- Need based weeding/hoeing/plant protection be undertaken in growing *rabi* (chickpea / safflower / mustard / linseed) crops.
- Seed sowing of fenugreek, spinach, radish, capsicum and carrot; and also sowing of onion/tomato nursery can be initiated during this period provided assured later stage irrigation is available.
- Ensure timely removal of guava (*mrig bahar*), orange (*ambia bahar*) and custard apple fruits.
- Rose beds may be loosened and followed with manuring/fertilization., if required rose pruning may be undertaken during this period.
- Provision of green forage/clean water and also screening of farm livestock, draught/milch animals for diseases be considered and they be dewormed and vaccinated.



**Fig. 1:** Latest available satellite picture as on 11 December 2018 at 1500 Hrs (IST)  
(Source: IMD)



**Fig. 2:** Precipitation forecast for 11 December to 19 December 2018 (Source: NOAA NCEP)