

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 14 September 2020**

**Attention: Rajiv Maheshwari, OSD, ICAR**

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

- A Well Marked Low Pressure Area lies over Westcentral Bay of Bengal & adjoining north Andhra Pradesh coast. The associated cyclonic circulation extends upto mid-tropospheric levels tilting southwestwards with height. It is very likely to move west-northwestwards across Telangana during next 2-3 days.
- The monsoon trough lies to the south of its normal position. Its eastern end is very likely to remain to the south of its normal position till 17 September, 2020.
- An off-shore trough at mean sea level runs from south Gujarat coast to north Karnataka coast. It is very likely to persist along the west coast during next 5 days.
- Due to the above favourable meteorological conditions: (i) Fairly widespread to widespread rainfall with isolated heavy falls very likely over Coastal Andhra Pradesh, Telangana, Maharashtra, Gujarat, Coastal & North Interior Karnataka and Kerala & Mahe during next 4-5 days; over south Odisha today, the 14th September, 2020. (ii) Isolated heavy to very heavy falls are very likely over Coastal Andhra Pradesh & Yanam and Rayalaseema today; over Telangana on 14th & 15th; over North Interior Karnataka, Vidarbha and Marathawada on 16th; over Madhya Maharashtra on 16th & 17th and over Coastal Karnataka and Kerala & Mahe on 18th September. Isolated extremely heavy falls also likely over Telangana today, the 14 September, 2020.
- Moderate thunderstorm with lightning very likely at isolated places over Uttarakhand, Bihar, East Uttar Pradesh, West Madhya Pradesh, Telangana, Rayalaseema and Coastal Andhra Pradesh & Yanam during next 12 hours.
- 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 Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam Meghalaya, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana,

Rayalaseema, Lakshadweep, Karnataka and Kerala & Mahe; at many places over Saurashtra & Kutch; at a few places over West Madhya Pradesh, Bihar, Odisha, Gujarat region, Madhya Maharashtra, Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, East Madhya Pradesh, Chhattisgarh, Vidarbha and Gangetic West Bengal.

- Heavy to very heavy rainfall observed at isolated places over Arunachal Pradesh, Assam & Meghalaya, Telangana, Rayalaseema, Lakshadweep and Coastal Andhra Pradesh and heavy rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Gujarat state, Bihar, Madhya Maharashtra, Coastal Karnataka, Kerala & Mahe, Konkan & Goa and Tamilnadu.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Telangana, Bihar, Sub-Himalayan West Bengal & Sikkim, Saurashtra & Kutch, Vidarbha, East Uttar Pradesh, Madhya Pradesh, Bihar, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh.
- Maximum Temperature Departures as on 13-09-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Madhya Pradesh; at a few places over Odisha and at isolated places over Himachal Pradesh, East Uttar Pradesh, Rajasthan, Vidarbha and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Punjab and West Uttar Pradesh; at many places over Haryana, Chandigarh & Delhi, Jharkhand and Chhattisgarh; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at isolated places over Saurashtra & Kutch. They are markedly below normal (-5.1°C or less) at many places over Rayalaseema; at a few places over Tamil Nadu & Puducherry & Karaikal; at isolated places over Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at many places over Karnataka and Kerala & Mahe; at isolated places over Assam & Meghalaya, Telangana and Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at isolated places over Bihar and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.0°C was reported at Bikaner (West Rajasthan).
- Minimum Temperature Departures as on 14-09-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan and Haryana, Chandigarh & Delhi; at a few places over Madhya Pradesh; at isolated places over East Rajasthan and Uttar Pradesh; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh and Uttarakhand; at many places

over Punjab, Jharkhand, West Bengal & Sikkim and Andaman & Nicobar Islands; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Gujarat state and Odisha and at isolate places over Madhya Maharashtra and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at a few places over Coastal Andhra Pradesh and Yanam and at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 17.5°C reported at Khargone (West Madhya Pradesh) over the plains of the country.

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

- 14 September (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Telangana; Heavy to very heavy rainfall at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Rayalaseema and Coastal Andhra Pradesh & Yanam and heavy rainfall at isolated places over East Uttar Pradesh, Southwest Madhya Pradesh, Vidarbha, Bihar, Odisha, Andaman & Nicobar Islands, Nagaland, Gujarat state, Marathwada, Konkan & Goa, Coastal & North Interior Karnataka, north Tamil Nadu and Kerala & Mahe. Moderate thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Bihar and East Uttar Pradesh and thunderstorm accompanied with lightning at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Marathawada. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Lakshadweep area and along & off KeralaKarnataka coasts. Squally Weather (wind speed reaching 45-55 kmph) over Westcentral Bay of Bengal and along & off Andhra Pradesh coast. Fishermen are advised not to venture into these areas.
- 15 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over Telangana and heavy rainfall at isolated places over East Uttar Pradesh, Southwest Madhya Pradesh, Vidarbha, Bihar, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Tripura & Mizoram, Madhya Maharashtra, Marathwada, Konkan & Goa, Rayalaseema, Coastal Andhra Pradesh & Yanam, Coastal & North Interior Karnataka and Kerala & Mahe. Moderate thunderstorm accompanied with lightning very likely at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and East Uttar Pradesh and thunderstorm accompanied with lightning at isolated places over East Rajasthan, Madhya Pradesh, Vidarbha,

Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea, Lakshadweep area and along & off Kerala/Karnataka coasts. Squally Weather (wind speed reaching 45-55 kmph) over Westcentral Bay of Bengal and along & off Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

- 16 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over Vidarbha, Madhya Maharashtra, Marathwada and North Interior Karnataka and heavy rainfall at isolated places over Southwest Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat State, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka and Kerala & Mahe. Moderate thunderstorm accompanied with lightning very likely at isolated places over East Rajasthan and East Uttar Pradesh and thunderstorm accompanied with lightning at isolated places over Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam and Telangana. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 17 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Madhya Maharashtra and heavy rainfall at isolated places over East Rajasthan, Southwest Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands, Gujarat State, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka, north Tamilnadu and Kerala & Mahe. Moderate thunderstorm accompanied with lightning likely at isolated places over East Rajasthan and thunderstorm accompanied with lightning at isolated places over East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Jharkhand and Telangana. Strong Wind (speed reaching 45-55 kmph) likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 18 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Coastal Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Uttarakhand, East Rajasthan, Southwest Madhya Pradesh, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Interior Karnataka and north Tamil Nadu. Moderate thunderstorm accompanied with lightning likely at isolated places over East Rajasthan and thunderstorm accompanied with lightning at isolated places over Uttarakhand, Jharkhand and Telangana. Strong Wind (speed reaching 45-55 kmph) likely over

Southwest Arabian Sea, Eastcentral Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 14 to 22 Sep 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)**

### **Haryana**

#### **Weather condition:**

High Tmax.: 37 °C at Narsinghpur district-Low TMin.: 19 °C at Mandla district-Rain: Max. RF of 90 mm at Dewas and Khandwa district - Day Temp.: 30 °C above normal over the state-Night Temp.: Normal over the state

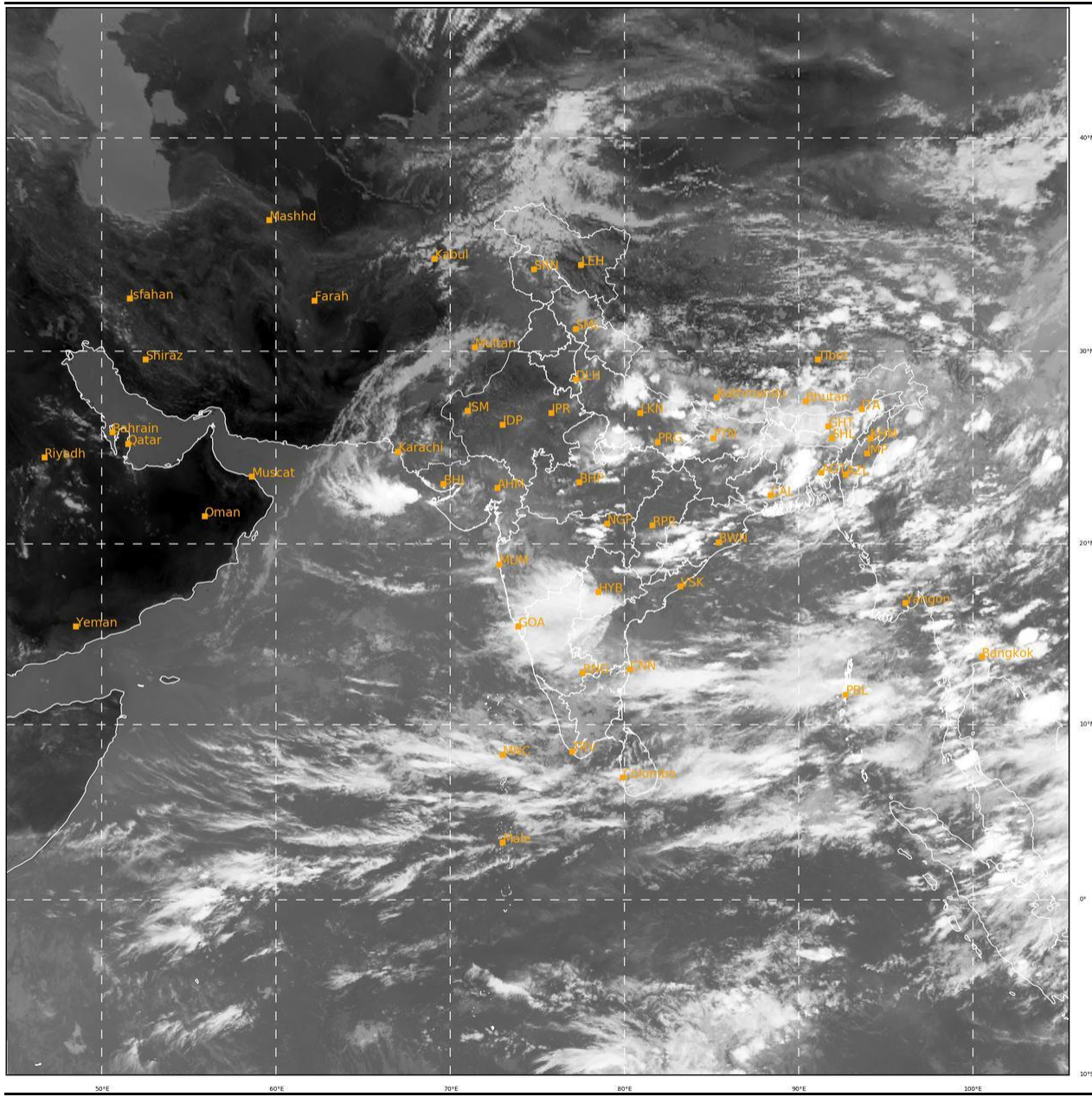
#### **Contingency measure:**

- General Advice: Light rainfall is likely to occur in the eastern part of the state. Keep proper drainage in all crops except rice.
- Soybean: In areas where there is excessive rains, do not let the standing water in the soybean field. To control mosaic in soybean uproot and burn affected plants and spray imidacloprid (17.8 SL ) @ 300 ml or thiamethoxem 250 gm dissolve in 500 liters of water per hectare to check white fly. At places where the girdle beetle and bihar hairy cater pillar has started, solution of trophophos 40 EC @ 800 ML or profenophos 1.0 liters or coragen @150 ml per hectare in 500 liters of water, should be sprayed. For more information contact the nearest Krishi Vigyan Kendra.
- Rice: Use cono weeder to control weeds an standing water. To conserve rain water, make bunds around the fields of rice.
- Pigeonpea: Control the weeds in the field by the hand hoe, for trassy wads whip super or Targa super can be used. Arrangements for drainage as required in fields
- Sugarcane: Sugarcane crop tied the plants with each other so as to avoide lodging.
- Fruit tree: Clean the gardens and remove the weed. Make basins for lemon and guava and use compost and fertilizer as per recommendation.
- Vegetables: Use of systemic insecticides for control of fruit borer in eggplant, tomatoes and okra. Drain the turmeric and ginger fields properly. Preparation for nursery for early season rabi vegetables. Spray of propinaphos @ of 2 ML per leter water to control the insect.
- Animal Husbandry & Poultry: Keep animals and chickens in the shed and arrange for pure water. Regular clean water for milch cows and save from mosquitoes and for various diseases.



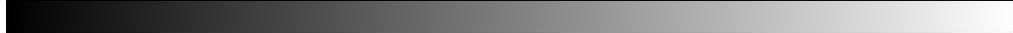
SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
LIC Mercator

14-09-2020/(0800 to 0827) GMT  
14-09-2020/(1330 to 1357) IST



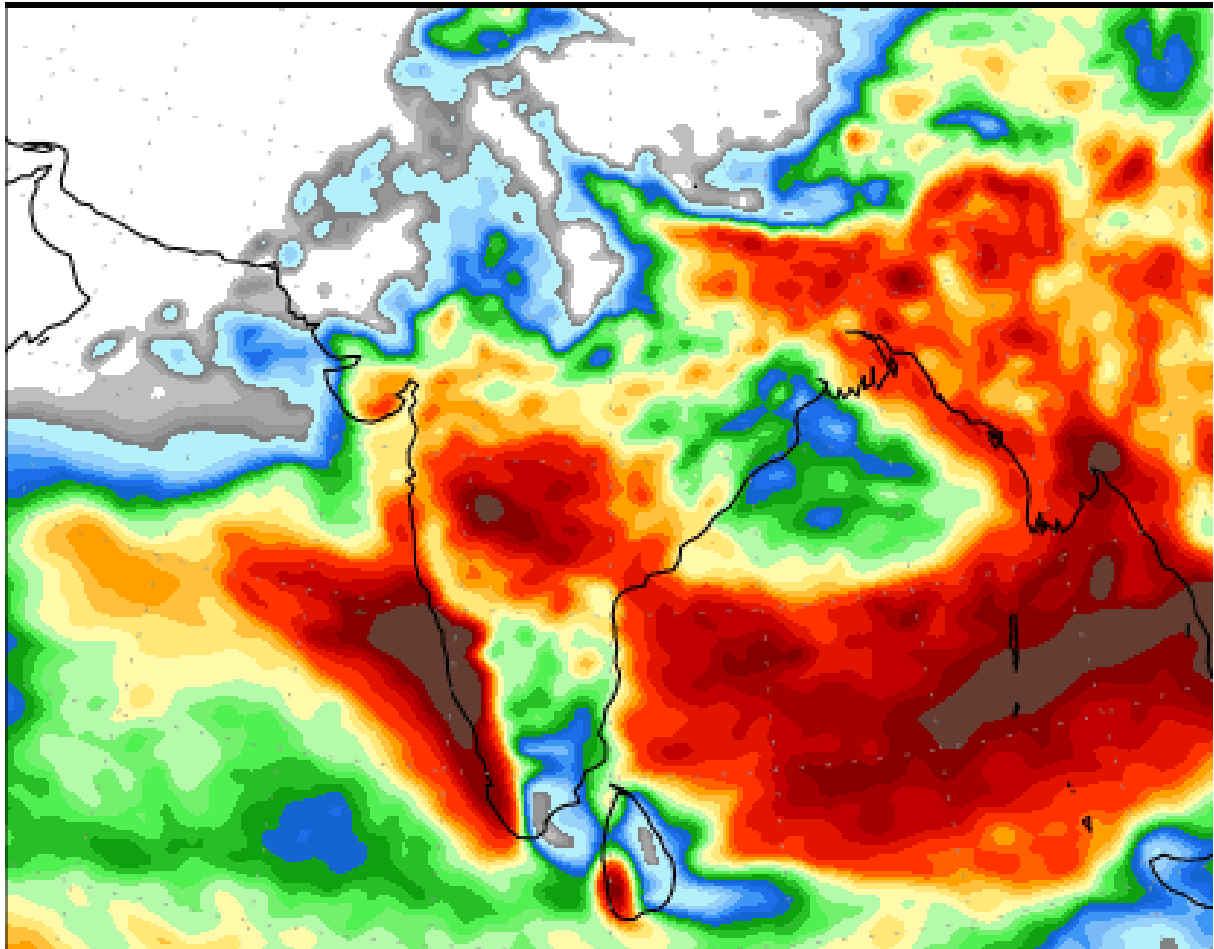
247

943



IMD, DELHI

Figure: 1. Latest available satellite picture as on 14 September 2020 at 1357 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 14 to 22 Sep 2020 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*