

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 September 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Well Marked Low Pressure Area now lies as a Low Pressure Area over Westcentral Bay of Bengal & adjoining north Andhra Pradesh coast. It is very likely to move west-northwestwards across Telangana during next 2 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 17th September, 2020.
- An east-west shear zone runs roughly along Latitude 15°N between 3.1 & 5.8 km above mean sea level. It is likely to persist during next 2-3 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, Madhya Maharashtra, Marathwada, Coastal & North Interior Karnataka and Kerala & Mahe during next 3-4 days. (ii) Isolated heavy to very heavy falls are very likely over Coastal Andhra Pradesh, Telangana, Marathwada and North Interior Karnataka on 15th and over Madhya Maharashtra on 16th.
- Under the influence of strengthening of lower level winds, rainfall activity over Maharashtra and south Peninsular India is likely to increase from 18th September.
- Moderate thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Marathwada 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 Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at many places over Andaman & Nicobar Islands, Saurashtra & Kutch, Konkan & Goa, Vidarbha, Marathawada, Rayalaseema and Interior Karnataka; at a few places over Gangetic West Bengal, Odisha, Bihar, West

Madhya Pradesh and at isolated places over Jharkhand, Uttar Pradesh, Haryana, Chandigarh & Delhi, Himachal Pradesh, Rajasthan, East Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Chhattisgarh and Tamilnadu, Puducherry & Karaikal.

- Heavy to very heavy rainfall at isolated places with extremely heavy falls at isolated places observed over Sub-Himalayan West Bengal & Sikkim; heavy to very heavy rainfall at isolated places over Assam & Meghalaya, Bihar, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka and heavy rainfall at isolated places over Arunachal Pradesh, Odisha, West Madhya Pradesh, Saurashtra & Kutch, Madhya Maharashtra and Marathwada.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, East Uttar Pradesh, Saurashtra & Kutch, Madhya Pradesh, Bihar, West Bengal & Sikkim, Assam Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Vidarbha, Coastal Andhra Pradesh, North Interior Karnataka, Telangana, Coastal Andhra Pradesh & Yanam, and Tamil Nadu & Puducherry & Karaikal.
- Maximum Temperature Departures as on 14-09-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over East Madhya Pradesh, Chhattisgarh and Gangetic West Bengal; at a few places over Himachal Pradesh, Rajasthan and West Madhya Pradesh and at isolated places over East Uttar Pradesh and Odisha; above normal (1.6°C to 3.0°C) at most places over Uttarkhand and Jharkhand; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, Punjab, West Uttar Pradesh, Bihar and Nagaland, Manipur, Mizoram & Tripura. They were markedly below normal (-5.1°C or less) at many places over Rayalaseema; at isolated places over Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at many places over North Interior Karnataka; at a few places over Madhya Maharashtra; at isolated places over Tamil Nadu & Puducherry & Karaikal and Sub-Himalayan West Bengal & Sikkim and below normal (-1.6°C to -3.0°C) at many places over Assam & Meghalaya, South Interior Karnataka; at a few places over Arunachal Pradesh and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.4°C was reported at Bikaner (West Rajasthan).
- Minimum Temperature Departures as on 15-09-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan; at a few places over Punjab; at isolated places over Uttarakhand and Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many

places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Gujarat state, West Bengal & Sikkim and Odisha; at isolated places over Himachal Pradesh, Bihar, Vidarbha, Madhya Maharashtra and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. The lowest minimum temperature of 19.0°C reported at Khargone (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 15 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, west Assam & Meghalaya, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka and heavy rainfall at isolated places over northeast Uttar Pradesh, southwest Madhya Pradesh, Vidarbha, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Rayalaseema, South Interior Karnataka and Tamilnadu, Puducherry & Karaikal. Moderate thunderstorm accompanied with lightning very likely at isolated places over East Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Marathwada, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and thunderstorm accompanied with lightning at isolated places over Madhya Pradesh, Vidarbha, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Telangana and Rayalaseema. Strong Wind (speed reaching 45-55 kmph) very likely over Westcentral Bay of Bengal and along & off Andhra Pradesh coast and Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- 16 September (Day 2): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra and Marathwada and heavy rainfall at isolated places over southwest Madhya Pradesh, Vidarbha, Bihar, Andaman & Nicobar Islands, Assam & Meghalaya, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Moderate thunderstorm accompanied with lightning very likely at isolated places over East Uttar Pradesh and thunderstorm accompanied with lightning at isolated places over Madhya Pradesh, Vidarbha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. 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 3): Heavy rainfall very likely at isolated places over southwest Madhya Pradesh, Bihar, Andaman & Nicobar Islands, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka and Kerala & Mahe. Moderate thunderstorm accompanied with lightning very likely at isolated places over East Uttar Pradesh and thunderstorm accompanied with lightning at isolated places over Rajasthan, Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong Wind (speed reaching 45-55 kmph) very likely over Southwest, Southeast & Eastcentral Arabian Sea and along & off KeralaKarnataka coasts and Lakshadweep area. Fishermen are advised not to venture into these areas.
- 18 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Coastal Karnataka and Kerala & Mahe and heavy rainfall at isolated places over Uttarakhand, southeast Rajasthan, southwest Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathawada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Interior Karnataka. Moderate thunderstorm accompanied with lightning likely at isolated places over East Uttar Pradesh and thunderstorm accompanied with lightning at isolated places over Rajasthan, West Madhya Pradesh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong Wind (speed reaching 45-55 kmph) likely over Southwest, Southeast & Eastcentral Arabian Sea and along & off KeralaKarnataka coasts and Lakshadweep area; Andaman Sea and adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.
- 19 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands, Coastal Karnataka and Kerala & Mahe and heavy rainfall at isolated places over southeast Rajasthan, West Madhya Pradesh, Odisha, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Interior Karnataka. Moderate thunderstorm accompanied with lightning likely at isolated places over East Uttar Pradesh and thunderstorm accompanied with lightning at isolated places over East Rajasthan, West Madhya Pradesh, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema. Strong Wind (speed reaching 45-55 kmph) likely over Southwest, Southeast & Eastcentral Arabian Sea and along &

off Kerala/Karnataka coasts and Lakshadweep area; Andaman Sea and adjoining Southeast Bay of Bengal. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 15 to 23 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)

Assam

Weather condition:

Weather during the last week was generally cloudy. Daily average maximum temperature was 32.0°C which was 0.2°C below normal and the average daily minimum temperature was 24.7°C which was equivalent to normal minimum temperature for the week. Total BSSH was 17.3 hrs with an average of 2.8hrs. The daily average evaporation rate was 1.9 mm/day and the average daily wind speed during the week 1.2 kmph. Daily average RH during morning and afternoon hour was 96.0% and 82.5% respectively.

Contingency measure:

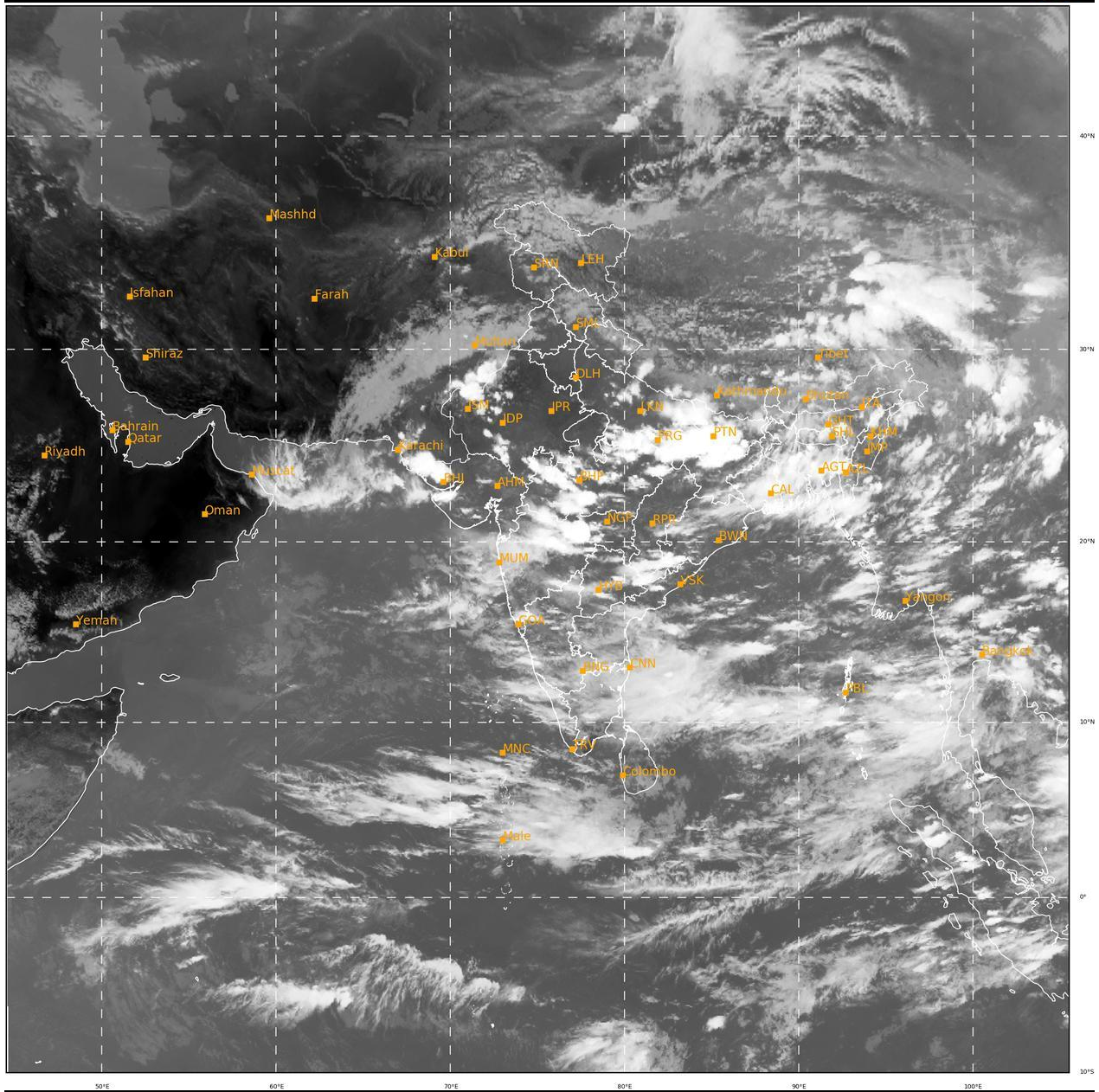
- Sali rice:- Due to favorable weather infestation of stem borer may be observed in the paddy field under tillering stage of the crop. As soon as the symptoms of dead heart was noticed in more than 5% of the cropped area, farmers may go for spraying of Quinalphos 25EC @ 1.0ml/lit of water during rain free weather. As sufficient amount of rainfall was received during the past week, farmers are advised to go for the second top dressing of urea in the crop field; coinciding the panicle initiation stage of the crop. The recommended dose of urea for per bigha crop area is 4.5kg for medium and long duration semi dwarf cultivars and 1.5kg for medium and long duration tall cultivars.
- Plantation crop (Various):- Maintain proper drainage facility in coconut, citrus, papaya, banana and other vegetable orchard to drain out excess amount of water from the crop field. Timely weeding in orchard helps in checking weed growth and enhances crop growth and development. In citrus, proper disposal of the fallen fruits helps in reducing the infestation of the Fruit sucking moth. To control mosaic and leaf curl disease in papaya crop, rogue out the affected plants and spray Malathion 0.1% solution. Avoid application of chemical during cloudy days.
- Kharif pulses (green and black gram):- Farmers may continue the sowing of kharif pulses i.e. green and black gram in sandy loam areas with no water stagnation problem. Provide surface drainage to avoid water stagnation in the crop field. Select new varieties like SGC 16, SGC 20, Sonai etc. for green gram and Sonakush, Manas,

SBC 40 SBC 47 etc. for black gram cultivation. During the land preparation, apply 1.3q compost or FYM for per bigha area. During the final land preparation apply 4kg Urea, 30kg SSP and 3.5kg MOP and mix thoroughly in the soil. Avoid application of fertilizer in the soil during cloudy days to avoid leaching loss of nutrients.

- Arhar (vegetative stage):- Due to moderate to rather heavy rainfall in the past week, water stagnation in the arhar crop field may occur. Farmers engaged in the arhar cultivation may go for renovations of drainage channel in the crop field. Depending upon the requirement, manual weeding may also be advocated.
- Citrus (Fruiting stage):- Go for monitoring the infestation of citrus trunk borer. Spiked the hole with wire to kill the grub immediately if any holes in the citrus trunk was noticed; followed by cleaning and plastering it with wet soil. Go for proper pruning and training to minimize the pest infestation.
- Fisheries (various):- After recession of floods, go for removal of unwanted weeds and fishes from the pond. Again, stirring of water with a bamboo pole will also help in increasing the amount of dissolve oxygen in the pond. Farmers may also go for the composite culture of fish in low lying rice cultivated field. Select indigenous fish fingerlings of rohu, common carp etc. for this composite farming.

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

15-09-2020/(1000 to 1026) GMT
15-09-2020/(1530 to 1556) IST



279

955

IMD,DELHI

Figure: 1. Latest available satellite picture as on 15 September 2020 at 1556 Hrs (IST).
(Source: IMD).

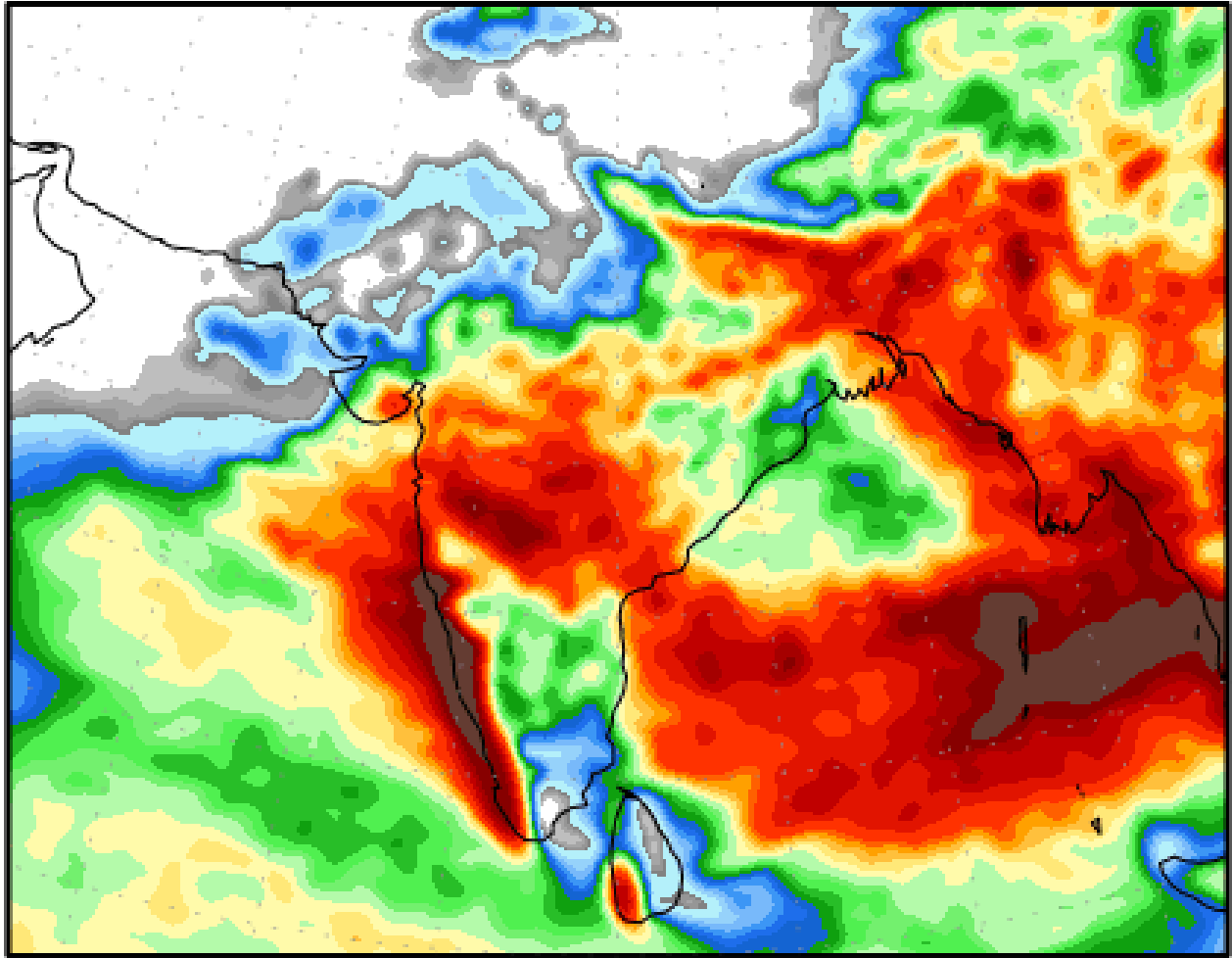


Figure:2. Precipitation forecast for 15 to 23 Sep 2020 (Source: NOAA NCEP).

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