

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 29 September 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Conditions are becoming favourable for further withdrawal of Southwest-Monsoon from most parts of Rajasthan, Punjab, Haryana, Chandigarh & Delhi & Western Himalayan region and some parts of Uttar Pradesh and Madhya Pradesh during next 2 days.
- A cyclonic circulation lies over westcentral Bay of Bengal of Andhra Pradesh coast in lower to upper tropospheric levels. Under its influence, scattered rainfall with moderate thunderstorm & lightning very likely over south peninsular India during next 2 days. Isolated heavy to very heavy falls are very likely over Tamil Nadu, Puducherry & Karaikal; Isolated heavy falls over Andhra Pradesh, Telengana, Kerala & Mahe and South Interior Karnataka on today, the 29 September, 2020.
- Rainfall activity is very likely to increase over northeastern states from 1 October with fairly widespread and isolated heavy falls over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 1 to 3 October, 2020.
- Dry weather very likely over most parts of the northwest India during next 5 days.
- Moderate thunderstorm with lightning very likely at isolated places over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal, Rayalaseema, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telengana, coastal Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura 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 Andaman & Nicobar Islands; at many places over Tamil Nadu, Puducherry & Karaikal; at a few places over Coastal Karnataka and West Bengal & Sikkim and at isolated places over East Rajasthan, Gujarat

state, Madhya Pradesh, Vidarbha, Konkan & Goa, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Chhattisgarh, Odisha, Assam & Meghalaya, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over East Madhya Pradesh, Odisha, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Vidarbha, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 28-09-2020: Maximum temperatures were appreciably above (3.1°C to 5.0°C) at isolated places over Gangetic West Bengal, Himachal Pradesh and Uttarakhand; above normal (1.6°C to 3.0°C) at many places over Uttar Pradesh, Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Odisha, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Punjab, East Madhya Pradesh and Saurashtra & Kutch and at isolated places over Haryana, Chandigarh & Delhi, West Rajasthan, Konkan & Goa, Kerala & Mahe and Assam & Meghalaya. They were below normal (-1.6°C to -3.0°C) at many places over Gujarat Region and at isolated places over South Interior Karnataka, West Madhya Pradesh and Assam & Meghalaya and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.1°C was reported at Churu (West Rajasthan).
- Minimum Temperature Departures as on 29-09-2020: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; at a few places over Rajasthan, Madhya Pradesh, Odisha, Jharkhand, Bihar, Assam & Meghalaya and South Interior Karnataka and at isolated places over Vidarbha, Saurashtra & Kutch, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Telangana, Uttar Pradesh and Himachal Pradesh. 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 19.6°C reported at Chandrapur (Vidarbha) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 29 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands and Tamilnadu, Puducherry & Karaikal and heavy rainfall at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, South Interior Karnataka and Kerala & Mahe.

Thunderstorm with lightning at isolated places very likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed reaching 45-55 kmph) very likely over Andaman Sea. Fishermen are advised not to venture into these areas.

- 30 September (Day 2): Heavy rainfall very likely at isolated places over Odisha and Coastal Andhra Pradesh & Yanam. Thunderstorm with lightning at isolated places very likely over Chhattisgarh, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, and Tamil Nadu, Puducherry & Karaikal. Strong Winds (speed reaching 45-55 kmph) very likely over Andaman Sea. Fishermen are advised not to venture into these areas.
- 01 October (Day 3): Heavy rainfall very likely at isolated places over Odisha and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning at isolated places very likely over Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.
- 02 October (Day 4): Heavy rainfall likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning at isolated places likely over Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 03 October (Day 5): Heavy rainfall likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm with lightning at isolated places likely over Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- The weather outlook for seven days i.e., 29 Sep to 07 October 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)

Jharkhand

Weather condition:

During this week good amount of rainfall 120.6 mm has been received against the normal rainfall i.e, 50.9 mm. Maximum and minimum temperature range between 29.0 to 33.5 and 20.4 to 24.6 respectively. Maximum and minimum actual average

temperatures are 31.3 and 22.5, whereas normal maximum and minimum temperature are 29.4 and 21.9 respectively.

Contingency measure:

- **GENERAL:** Green gram and black gram crops are at maturity stage. Harvest them during clear weather and after harvesting, immediately sow the seeds of Rapeseed (Toria) crop after preparing the field. Farmers having assured irrigation facility and wish to cultivate early potato/table pea are requested to select suitable field and sow the seed on ridge. Spray the insecticide Indoxacarb @ 5 ml per 10 liter of water during clear weather in different crops to control Hairy caterpillar.
- **RAPeseed:** Farmers wishing to cultivate Rapeseed (Toria) crop, may select one of the recommended varieties like Panchali or P.T.-203. 2-2.5 kg of seeds, 44 kg Urea, 66 kg S.S.P. and 16 kg Muriate of Potash is required for cultivation in 1 acre. Sow the seeds behind plough at a distance of 30 cm (row to row) and 10 cm (plant to plant).
- **PIGEON PEA:** If the crops are affected with the insect leaf roller and its numbers are very less, then affected leaves should be removed by hand and may be buried in soil or burned. However, if the numbers of the insects are much more, then spray the insecticide Indoxacarb @ 5 ml per 10 liter of water during clear weather.
- **MAIZE:** Early variety crops sown in June month, are approaching the maturity stage. Be alert for its harvesting. Long duration varieties are at grain filling stage and it is the time of watch and ward against birds. Alternative methodology is to tag shinning wire around the field, which repels the birds. If the fruit of the crops are attacked by corn worm then it should be controlled by spraying of neem based insecticide @ 2-3 ml per liter of water.
- **RICE:** Direct seeded crops either are at flowering stage or milking stage. This stage is susceptible to the attack of Gundhi bug insects which suck the sap of flower. Hence, farmers should have to be alert regarding attack of the insect. To control the insects dusting of Chlorpyrifos/ Quinolphos/Methyl Parathion dust @ 10 kg per acre is recommended. After dusting of the insecticide, these insects migrate to nearby field. Hence, Dusting should be performed in different fields at a time during clear weather. In absence of the insecticide, dusting of coal or wood ash mixed with kerosin oil is also effective against this insect.
- **POTATO:** Farmers wish to cultivate early potato may plant recommended early varieties (Kufri Ashoka and Kufri Pukhraj) at a distance of 40-50 cm (row to row) and 15 cm (between 2 tubers) on ridge only. 12 quintal seeds (germinated tubers of 20-30 gram each), 40 kg Urea, 70 kg D.A.P., 80 kg Muriate of Potash and 10 kg Sulphur are required for cultivation in 1 acre.

- **VEGETABLE PEA:** Farmers wish to cultivate early table pea may sow recommended early variety either Arkel or Azad pea on ridge with a distance of 25 cm (row to row) and 15 cm (plant to plant. 40 kg seeds, 35 kg Urea, 200 kg S.S.P., 25 kg Muriate of Potash are required for cultivation in 1 acre.

29-09-2020/(0830 to 0856) GMT
29-09-2020/(1400 to 1426) IST

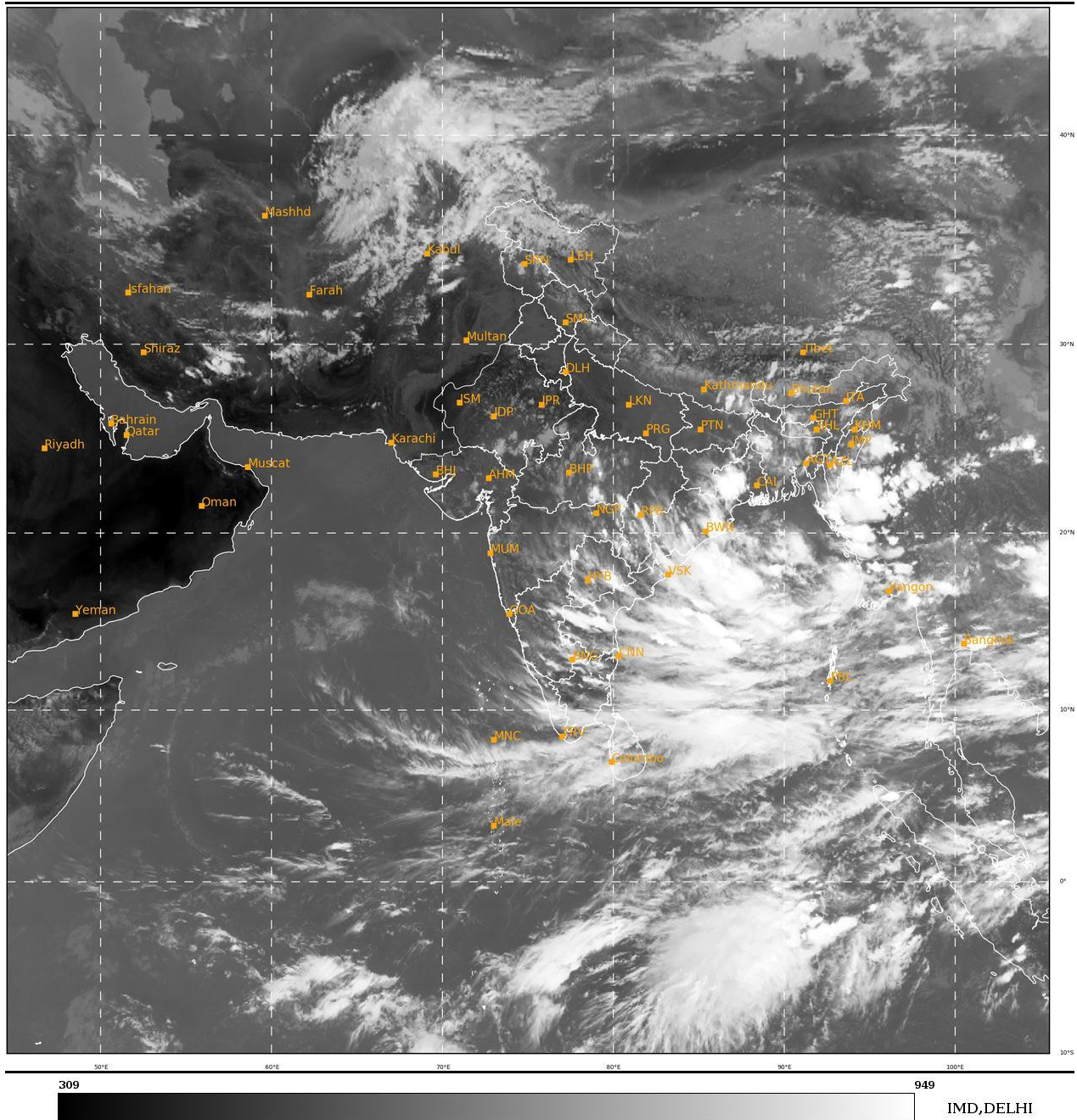


Figure: 1. Latest available satellite picture as on 29 September 2020 at 1426 Hrs (IST). (Source: IMD).

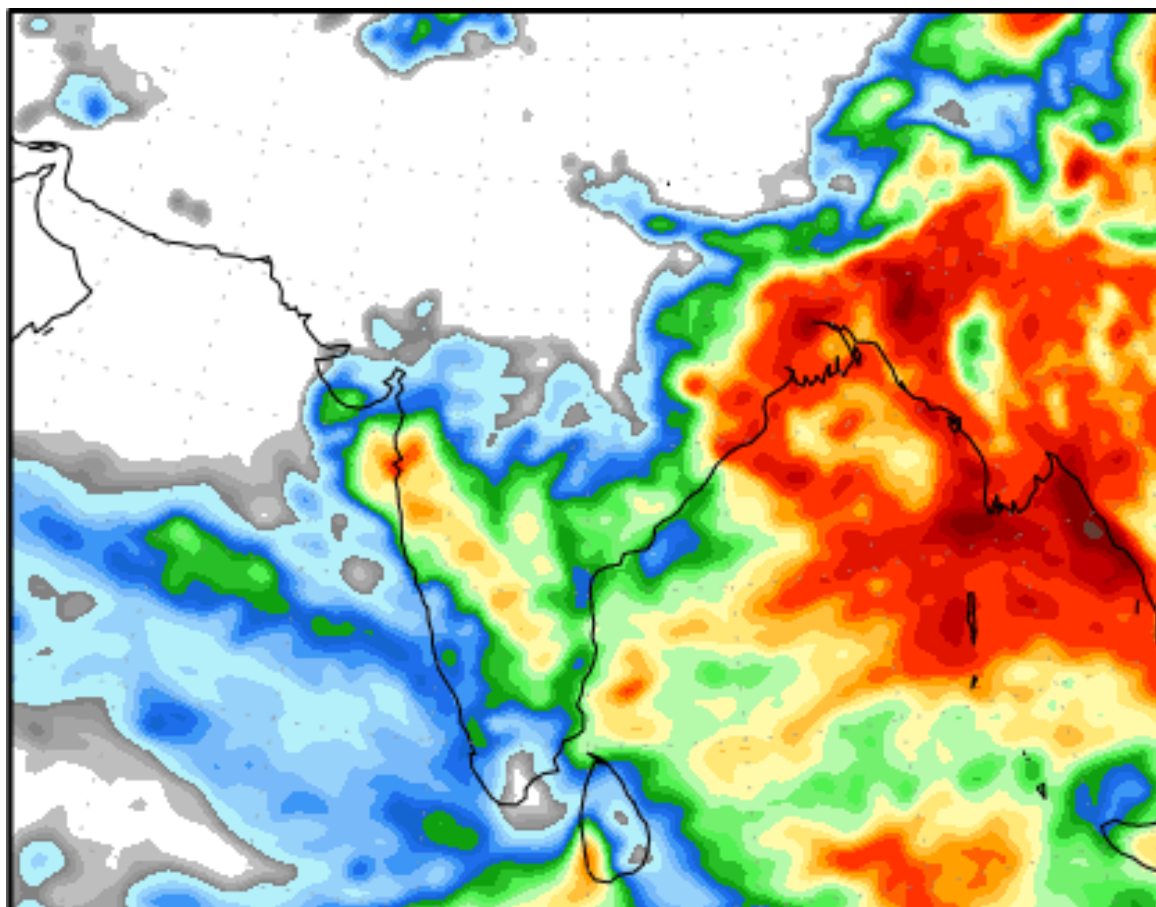


Figure:2. Precipitation forecast for 29 Sep to 07 October 2020 (Source: NOAA NCEP).

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