

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 16 September 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Well marked Low Pressure Area lies over central parts of north Madhya Pradesh and neighborhood. It is very likely to move westnorthwestwards during next 2 days and weaken thereafter.
- A cyclonic circulation lies over south Gujarat Region & neighbourhood in lower tropospheric levels.
- The monsoon trough lies south of its normal position. It is very likely to remain south of its normal position during next 2-3 days.
- A Cyclonic Circulation likely to develop over north Bay of Bengal on 17th September, 2021. It is likely to move west-northwestwards towards Odisha- West Bengal coast during subsequent 3 days. Weather forecast and Warning:
 - i) Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over Gujarat State, West Madhya Pradesh, East Uttar Pradesh and East Rajasthan during 16th-17th and reduction thereafter. Isolated extremely heavy falls also likely over East Uttar Pradesh on 16th September.
 - ii) Scattered to fairly widespread rainfall very likely over northwest India (excluding Jammu, Kashmir & Ladakh and Himachal Pradesh) during 16th to 17th September. Isolated heavy rainfall over Haryana on 16th; over West Rajasthan on 17th & 18th September. Isolated very heavy falls also very likely over Uttarakhand and west Uttar Pradesh on 16th, September 2021.
 - iii) Rainfall activity is likely to increase over Odisha & Gangetic West Bengal with fairly widespread to widespread rainfall & isolated heavy falls over above areas on 18th & 19th September, 2021.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST to 1730 hours IST of Yesterday): at most places over East Uttar Pradesh, Jharkhand and East Madhya Pradesh; at many places over West Madhya Pradesh, Bihar, Gangetic West Bengal, Konkan & Goa and Kerala & Mahe: at a few places over Odisha, Gujarat

State and Tamil Nadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, Uttarakhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Uttar Pradesh, East Rajasthan, Madhya Maharashtra, Telangana, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Coastal Karnataka and Lakshadweep.

- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Odisha, Gujarat State, Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic west Bengal, Assam & Meghalaya, Tripura, Tamilnadu, Puducherry & Karaikal and Telangana.
- Maximum Temperature Departures as on 15-09-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Assam & Meghalaya; at many places over Arunachal Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim; above normal (1.6°C to 3.0°C) at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over Uttarakhand; at a few places over Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe; at isolated places over Coastal Andhra Pradesh & Yanam. They were markedly below normal (-5.1°C or less) at a few places over Andaman & Nicobar Islands; at isolated places over Gangetic West Bengal; appreciably below normal (-3.1°C to -5.0°C) at many places over East Uttar Pradesh and Jharkhand; at isolated places over East Rajasthan and Saurashtra & Kutch; below normal (-1.6°C to -3.0°C) at most places over Madhya Pradesh and Bihar; at many places over Gujarat region and Vidarbha; at isolated places over West Rajasthan and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.3°C was reported at Jaisalmer (West Rajasthan).
- Minimum Temperature Departures as on 15-09-2021: Minimum temperatures were above normal (1.6°C to 3.0°C) at a few places over Himachal Pradesh, Punjab, Uttarakhand, Rajasthan, West Madhya Pradesh, Rayalseema, Tamilnadu, Puducherry & Karaikal, Madhya Maharashtra, Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu & Kashmir, Saurashtra & Kutch, East Madhya Pradesh, East Uttar Pradesh, Odisha, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar islands. They were below normal (-1.6°C to -3.0°C) at a few places over Gangetic West Bengal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 20.0°C was reported at Khargaon (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 16 September (Day 1): Heavy to very heavy rainfall with Extremely heavy falls at isolated places very likely over East Uttar Pradesh and heavy to very heavy rainfall at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Madhya Pradesh and Gujarat State and heavy rainfall at isolated places over Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning very likely at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal. Strong surface wind (speed reaching 30-40 kmph) very likely at isolated places over Uttar Pradesh, Haryana, Chandigarh & Delhi and northeast Rajasthan. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest & Westcentral Arabian Sea. Fisherman are advised not to venture into these areas.
- 17 September (Day 2): Heavy rainfall at isolated places very likely over East Uttar Pradesh, Rajasthan, West Madhya Pradesh, Sub-Himalaya West Bengal & Sikkim, Gujarat State, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning very likely at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest & Westcentral Arabian Sea. Fisherman are advised not to venture into these areas.
- 18 September (Day 3): Heavy rainfall at isolated places likely over Rajasthan, Sub-Himalaya West Bengal & Sikkim, Odisha and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Tamilnadu, Puducherry & Karaikal. Strong wind (speed 40-50 kmph to gusting 60 kmph) likely over Eastcentral Bay of Bengal & adjoining north Andaman sea. Fisherman are advised not to venture into these areas.
- 19 September (Day 4): Heavy rainfall at isolated places likely over Gangetic West Bengal, Odisha, Gujarat Region and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over East Madhya Pradesh, Chhattisgarh and Tamilnadu, Puducherry & Karaikal. Strong wind (speed 40-50 kmph to gusting 60 kmph) likely over Eastcentral Bay of Bengal & adjoining north Andaman sea. Fisherman are advised not to venture into these areas.

- 20 September (Day 5): Heavy rainfall at isolated places likely over Assam & Meghalaya, Gangetic West Bengal, East Rajasthan, Odisha, Gujarat Region and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over East Madhya Pradesh, Chhattisgarh and Tamilnadu, Puducherry & Karaikal. Strong wind (speed 40-50 kmph to gusting 60 kmph) likely over Eastcentral Bay of Bengal & adjoining north Andaman sea. Fisherman are advised not to venture into these areas.
- The weather outlook for seven days i.e., 16 Sep to 24 Sep 2021 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)

Kerala

Weather condition:

In Vellanikkara, the maximum temperature ranges from 27.4 to 30.8 Deg C, minimum temperature ranges from 23.1 to 24.3 Deg C. Morning relative humidity ranges from 096% to 0100% and afternoon relative humidity ranges from 066% to 098%. Wind speed ranges from 0.5 to 3.2 km/h. Evaporation ranges from 1.4 to 2.8 mm. Sunshine hours range from 0.0 to 4.1 hours. 5 cm morning soil temperature ranges from 24.9 to 26.9 Deg C and afternoon soil temperature ranges from 25.5 to 31.4 Deg C.

Contingency measure:

- Paddy (virippu): Milky stage: Rice bug- There is a chance of appearance of rice bug in paddy. To control, spray 2 ml malathion per one litre of water. Pesticides application should be done either before 9 am or after 3 pm. Otherwise, the pesticide application will adversely affect the pollination.
- Rice (Mundakan): Land preparation: Land preparations for mundakan paddy can be started in kole paddy field, apply lime during nursery preparation. Seed treatment with pseudomonas can be done before sowing. (10 gram of pseudomonas for one kg of paddy seeds.)
- Pepper: Foot rot: As a prophylactic measure to manage foot rot during rainy season, add 2 kg Trichoderma to a mixture of 90 kg FYM and 10 kg neem cake and kept for two weeks with sufficient moisture. Add 2.5 kg of this mixture to the base of each matured pepper vine. Slow wilt As a control measure the slow wilt diseases in pepper, drench the basin with three gram Copper Oxy Chloride (COC) per one litre of water.

- Nutmeg: Leaf fall: As a prophylactic measure, spray 1% bordeaux mixture to manage leaf fall during rainy season.
- Arecanut: Mahali: Keep the field clean. Destroy completely affected trees. As a prophylactic measure, spray 1% Bordeaux mixture or two gram Copper oxychloride with stickers at 40-45 days interval.
- Ginger & Turmeric: Shoot borer: There is a chance of shoot borer in ginger and turmeric. Spray 20 g Beauveria per one litre of water to control stem borer.
- Cucurbitaceous Vegetables: Downy mildew: Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. Spray 2.5gm Mancozeb per one litre of water under the leaves.
- Vegetables (chilly): Anthracnose disease: During rainy season, there is a chance of Anthracnose disease in chilly. As a prophylactic measure, apply 1% Bordeaux mixture or spray pseudomonas 20 gm per litre.
- Animal Husbandry: Avoid water logging in the cattle shed premises to prevent mosquito breeding. If required apply mosquito or fly repellent on the animal body and in the cattle shed.

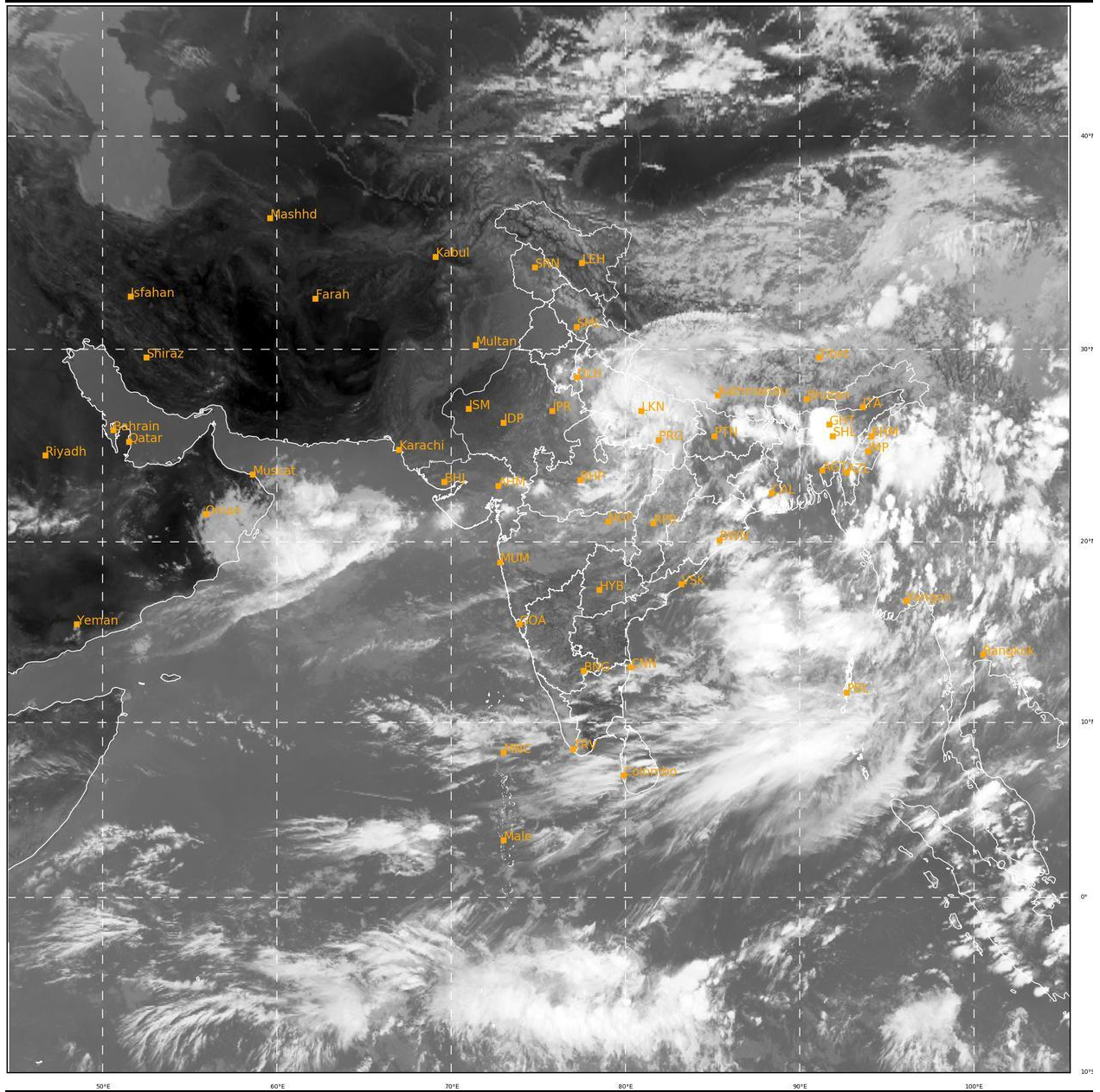


Figure: 1. Latest available satellite picture as on 16 Sep 2021 at 1357 Hrs (IST). (Source: IMD).

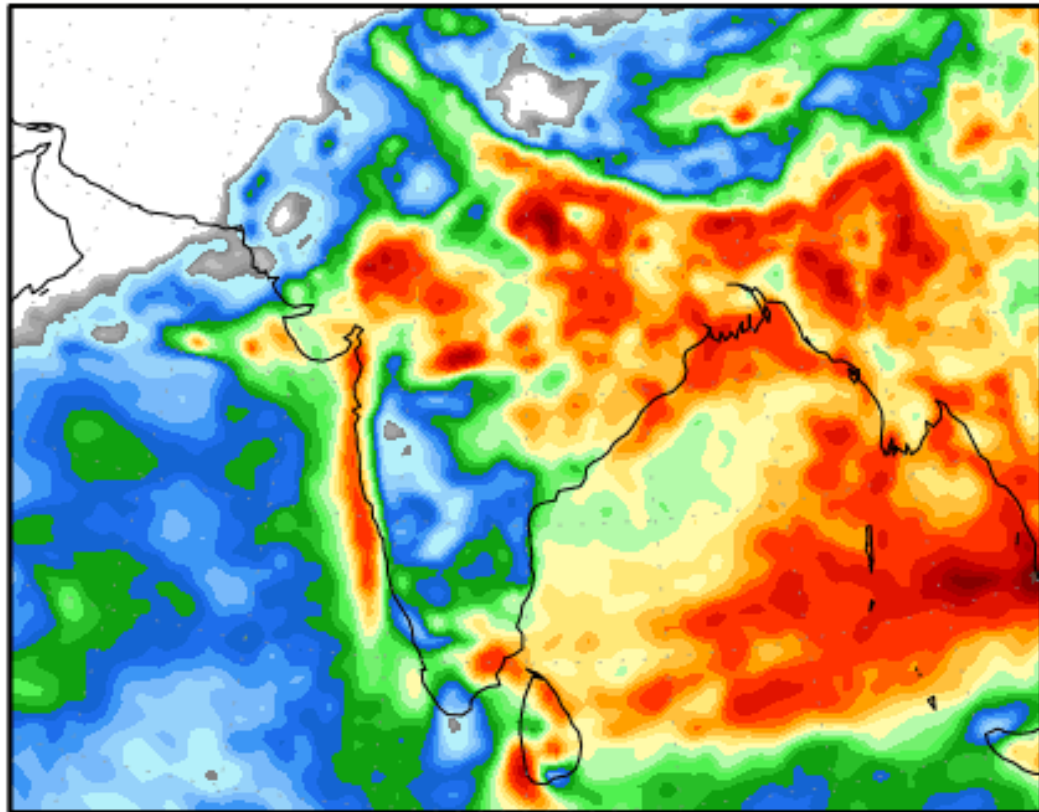


Figure:2. Precipitation forecast for 16 Sep to 24 Sep 2021 (Source: NOAA NCEP).

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