

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 14 September 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Deep Depression over north interior Odisha moved further west-northwestwards during past 6 hours with a speed of 21 kmph, weakened into a Depression and lay centred at 0830 hrs IST of today, the 14th September, 2021, over north Chhattisgarh & adjoining north interior Odisha, near latitude 22.1°N and longitude 83.4°E, about 80 km west-northwest of Jharsiguda (Odisha) and about 120 km south-southeast of Ambikapur (Chhattisgarh). It is very likely to continue to move west-northwestwards across north Chhattisgarh & Madhya Pradesh and weaken into a well marked low pressure area during the next 48 hours.
- The Low Pressure Area over Gujarat region & neighbourhood has become less marked. However, the associated cyclonic circulation now lies over south Gujarat Region and extends upto 5.8 km above mean sea level.
- The monsoon trough lies south of its normal position. It is very likely to remain south of its normal position during next 3-4 days. Weather forecast and Warning:
 - i) Fairly widespread to widespread rainfall over Chhattisgarh, Gangetic West Bengal and Interior Odisha with isolated heavy to very heavy falls on 14th and reduction in intensity thereafter. Isolated extremely heavy falls are also very likely over Chhattisgarh on 14th September.
 - ii) Fairly widespread to widespread rainfall with isolated heavy to very heavy falls very likely over north Konkan, north Madhya Maharashtra, Gujarat State, East Rajasthan, Madhya Pradesh during next 3-4 days. Isolated extremely heavy falls are likely over East Madhya Pradesh on 14th & 15th September, over Gujarat state and over West Madhya Pradesh on 15th.
 - iii) Increase in rainfall over parts of plains of northwest India with fresh spell of heavy rainfall at isolated places over Haryana, Rajasthan and west Uttar Pradesh from 16 September.
- 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 48 hours. This is likely to cause fresh spell of

enhance rainfall activity over eastern parts of India including Odisha-West Bengal.

- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Uttarakhand, West Uttar Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Gujarat State, Madhya Maharashtra, Konkan & Goa, Coastal & North Karnataka, Kerala & Mahe and Lakshadweep; at many places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Madhya Pradesh, Rajasthan Bihar and Telangana; at a few places over East Uttar Pradesh, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam and at isolated places over Punjab, Arunachal Pradesh, Assam & Meghalaya, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heavy Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to Very heavy rainfall at a few places with Extremely heavy falls at isolated places over Odisha and Saurashtra & Kutch and Very heavy rainfall at isolated places over Gujarat Region, Konkan & Goa, Madhya Maharashtra, Chhattisgarh and Assam & Meghalaya and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Rajasthan, East Madhya Pradesh, Vidarbha, Coastal Karnataka, Telangana, Tamilnadu and West Bengal.
- Thunderstorm observed (from 0830 hours IST to 0830 hours IST of yesterday): at a few places over Odisha; at isolated places over Jammu Division, East Rajasthan, Uttar Pradesh, Odisha, Bihar, Haryana, Chandigarh & Delhi, Vidarbha, Gujarat State, West Madhya Pradesh, Chhattisgarh, Jharkhand, Gangetic west Bengal, Assam & Meghalaya and Telangana.
- Maximum Temperature Departures as on 13-09-2021: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at most places over Assam & Meghalaya; at many places over Uttarakhand; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over East Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over West Uttar Pradesh and Madhya Pradesh; at isolated places over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at a few places over Odisha and Saurashtra & Kutch; appreciably below normal (-

3.1°C to -5.0°C) at many places over West Rajasthan; at a few places over Himachal Pradesh; at isolated places over Haryana, Chandigarh & Delhi and East Rajasthan; below normal (-1.6°C to -3.0°C) at many places over Coastal & North Interior Karnataka, Madhya Maharashtra, Gangetic West Bengal and Kerala & Mahe; at a few places over Gujarat Region; at isolated places over Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.2°C was reported at Madurai (Tamilnadu).

- Minimum Temperature Departures as on 14-09-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Uttar Pradesh; above normal (1.6°C to 3.0°C) at many places over West Madhya Pradesh; at a few places over Uttarakhand, East Madhya Pradesh, Konkan & Goa, Tamilnadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam and Sub-Himalayan West Bengal & Sikkim and at isolated places over Jammu & Kashmir, West Uttar Pradesh, Rajasthan, Saurashtra & Kutch, Madhya Maharashtra, Vidarbha and Assam & Meghalaya. They are below normal (- 1.6°C to -3.0°C) at isolated places over Gangetic West Bengal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.6°C was reported at Khargaon(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 at isolated places very likely over East Madhya Pradesh and Chhattisgarh; Heavy to very heavy rainfall at isolated places over West Madhya Pradesh, Gangetic West Bengal, Interior Odisha, Gujarat State, north Madhya Maharashtra and north Konkan and heavy rainfall at isolated places over Uttarakhand, East Uttar Pradesh, Vidarbha, East Rajasthan, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest & Westcentral Arabian Sea; Northeast Arabian Sea and along & off Gujarat-north Maharashtra coasts, Westcentral Bay of Bengal along & off north Andhra Pradesh-Odisha coasts. Fisherman are advised not to venture into these areas.
- 15 September (Day 2): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Madhya Pradesh and Gujarat State; Heavy to very heavy rainfall at isolated places over north Konkan and heavy rainfall at isolated

places over Uttarakhand, Uttar Pradesh, East Rajasthan, Chhattisgarh, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana and Tamilnadu, Puducherry & Karaikal. Strong surface wind (speed reaching 30-40 kmph) very likely at isolated places over Uttar Pradesh, Haryana and northeast Rajasthan. Strong wind (speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest & Westcentral Arabian Sea; Northeast Arabian Sea and along & off Gujarat-north Maharashtra coasts. Fisherman are advised not to venture into these areas.

- 16 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over East Rajasthan, West Madhya Pradesh and Gujarat State and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and north Konkan. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Arunachal 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 and northeast Rajasthan. Strong wind (speed 40-50 kmph to gusting 60 kmph) likely over the Southwest & Westcentral Arabian Sea. Fisherman are advised not to venture into these areas.
- 17 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Rajasthan and heavy rainfall at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Gujarat State and Konkan & Goa. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, 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) likely over the East central Bay of Bengal & adjoining north Andaman sea. Fisherman are advised not to venture into these areas.
- 18 September (Day 5): Heavy to very heavy rainfall likely at isolated places over West Rajasthan and heavy rainfall at isolated places over East Rajasthan, Odisha, Gujarat Region and Konkan & Goa. Thunderstorm accompanied with lightning

likely at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan and Tamilnadu, Puducherry & Karaikal. Strong wind (speed 40-50 kmph to gusting 60 kmph) likely over the East central Bay of Bengal & adjoining north Andaman sea. Fisherman are advised not to venture into these areas.

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

Tamil nadu

Weather condition:

Maximum temperature: 36.1°C (normal 37.1°C), minimum temperature: 24.9°C (normal 23.3°C), rainfall: 15.3 mm (normal 10.7 mm). The maximum and minimum temperature were 1.0°C and 1.6°C below & With respect to daily rainfall, rainfall occurred at many places over Tamil Nadu on 03.09.2021 and 06.09.2021, at a few places over Tamil Nadu on 04.09.2021, 05.09.2021 and 07.09.2021, at isolated places over Tamil Nadu on 08.09.2021 during this week. → Minimum temperature range of 23°C - 27°C prevailed over the state except Kodaikanal and Uthagamandalam (10°C - 11°C) during the period under report. → Maximum temperature range of 29°C - 38°C prevailed over the state except Kodaikanal and Uthagamandalam (15°C - 21°C) during the period under report. above normal respectively and rainfall was 4.6 mm above normal across the week. General weather situation in Tamil Nadu:

Contingency measure:

- Block level Weather forecast - Light to moderate rain is likely to occur at isolated places from Day1 (10.09.21) to Day 5 (14.09.21). 10-26km/hr. wind speed is predicted for block level Irrigated crops - Water management- Crops to be irrigated. Rainfed crops - Preparatory tillage- Ploughing- Farmers are advised for ploughing in order to reduce the incidence of soil borne pathogens and improve the soil tilth for rabi sowing. Input purchase Purchase the seed i.e., diseases free & Quality seed from the authorized person for raising crops during the ensuing north east monsoon season.
- Paddy: Tillering stage and Harvest stage. The prevailing warm weather condition is conducive for Stem borer attack. Spray Azadirachtin 0.03% 1000 ml/ha (or) Carbofuran% 3 G @25 kg/ha (or) Chlorantraniliprole 18.5% SC 150 ml/ha. Prevailed weather is conducive for Leaf folder incidence. So farmers are advised

to spray Azadirachtin 0.03% 1000ml/ha. (or) Chlorontrinirole 18.5%SC @ 150g/ha. (or) Thiamethoxam 25% WG @ 100g/ha. The prevailing warm weather is conducive for Bacterial leaf blight incidence. Severe winds, which cause wounds and over fertilization are suitable factors for the development of the disease. Spray neem oil 3% or NSKE 5% (or) fresh cowdung extract for the control of bacterial blight. (Dissolve 20 g cowdung in one litre of water; allow to settle and sieve. Use supernatant liquid starting from initial appearance of the disease and another at fortnightly interval. Two sprays of Copper hydroxide 77 WP@1.25 kg/ha 30 DAP & 45 DAP.

- Groundnut: Vegetative stage: The prevailing hot and dry weather condition is conducive for Thrips attack. Apply Quinalphos 25%EC 1400 ml/ha. The prevailing weather (dry spell) condition is conducive for leaf miner incidence. Apply Dimethiate 30 EC 660 ml/ha (or) Methyl demeton 25% EC 1000 ml/ha
Dry land cultivation- Crop residue recycling- In order to improve the soil quality recycles the residues of harvested crops of maize, sorghum and pulses. Use rotovator or rotoslasher for cutting the residues into small pieces and incorporate them into the soil.
- Banana: Bunch development and harvest stage: High wind speed may damage the crop; hence farmers are requested to provide support to bunch (propping).

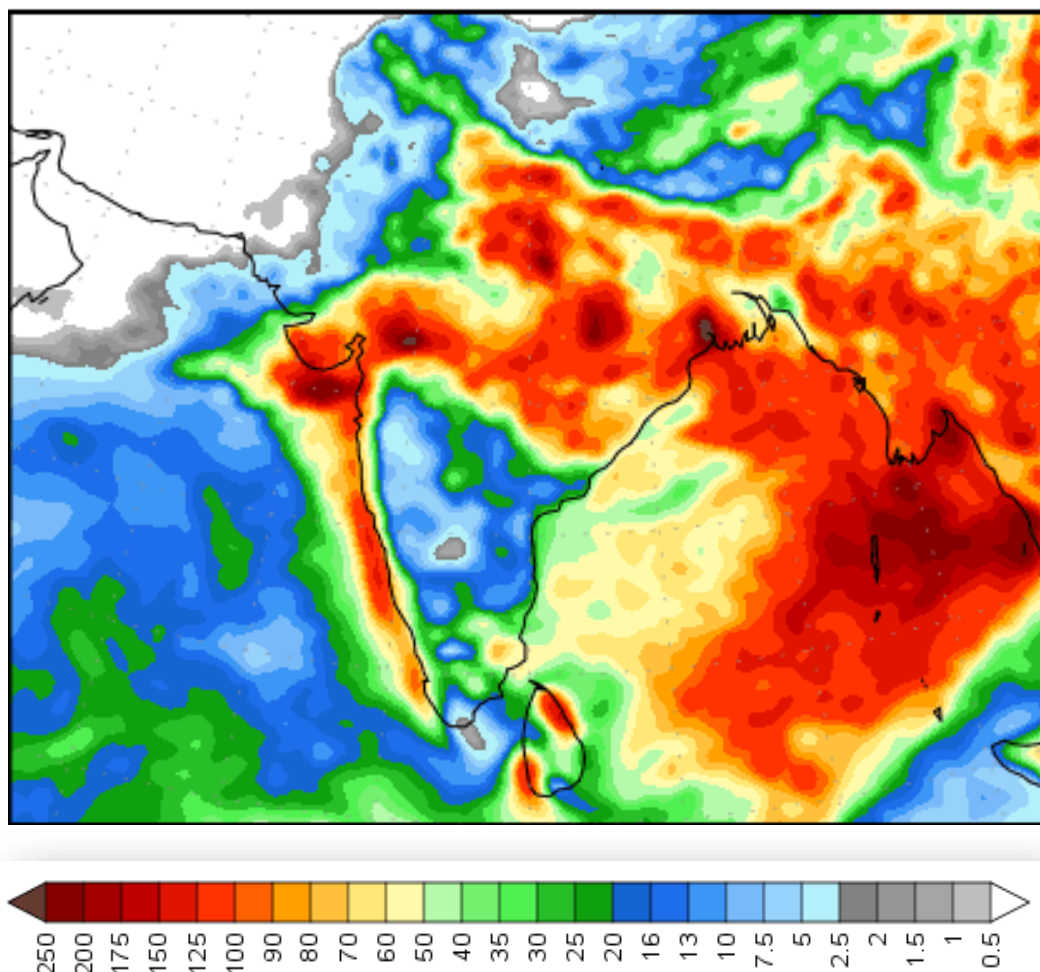


Figure:2. Precipitation forecast for 14 Sep to 22 Sep 2021 (Source: NOAA NCEP).

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