

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 27 September 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Deep Depression over south Odisha and adjoining north Andhra Pradesh moved westwards with a speed of 08 kmph during last 06 hours, lay centered at 0830 hrs IST of 27th September 2021 over south Odisha and adjoining south Chhattisgarh near Lat. 18.4°N and Long. 82.5°E, about 90 km southeast of Jagdalpur (Chhattisgarh) and 65 km east-northeast of Malkangiri (Odisha). It is likely to move nearly westwards and weaken into a Depression during next 06 hours and into a well marked low pressure area during subsequent 24 hours. It is likely that system could emerge into Northeast Arabian sea and Gujarat coast around 30th September evening and there is likelihood for the system to further intensify over Northeast Arabian Sea during subsequent 24 hours.
- In association with above system winds are likely to strengthen along the West coast of India during next 2-3 days.
- Monsoon trough lies to the south of its normal position and likely to remain so during next 4-5 days.
- An east-west trough runs from north Konkan to cyclonic circulation associated with deep depression over south Odisha & adjoining south Chhattisgarh and extends upto 5.8 km above mean sea level. It is likely to persist during next two days. Under the influence of the above systems:
 - i) 27th Sept.: Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over north Coastal Andhra Pradesh, south Chhattisgarh, Vidarbha, Kerala and Telangana; Heavy to very heavy rainfall at isolated places over south Odisha, Madhya Maharashtra, Konkan, Gujarat State, North Interior Karnataka and Tamilnadu.
 - ii) 28th Sept.: Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Gujarat Region, Madhya Maharashtra and Konkan; Heavy to very heavy rainfall at isolated places over Marathwada and Saurashtra & Kutch.

iii) 29th Sept.: Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Saurashtra & Kutch; Heavy to very heavy rainfall likely at isolated places over Gujarat Region and Konkan.

iv) Sea condition will be rough to very rough over Westcentral and adjoining Northwest Bay of Bengal and along and off Andhra Pradesh and adjoining Odisha coasts during next 06 hours. The fishermen are advised not to venture into these areas during next 06 hours.

- 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 Gangetic West Bengal, Odisha, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Lakshadweep; at many places over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Karnataka; at a few places over East Madhya Pradesh, Jharkhand, Arunachal Pradesh, Saurashtra & Kutch; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh, Uttar Pradesh, West Rajasthan, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Telangana and Tamilnadu, 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 coastal Andhra Pradesh; Very heavy rainfall at isolated places over Odisha, Punjab, Gujarat Region, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe and heavy rainfall at isolated places over Saurashtra, Vidarbha, West Madhya Pradesh and Telangana.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Coastal Andhra Pradesh & Yanam; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, East Uttar Pradesh, Gujarat Region, Madhya Pradesh, Jharkhand, Chattisgarh, Telangana, Vidarbha and Assam & Meghalaya.
- Maximum Temperature Departures as on 26-09-2021: Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Bihar; above normal (1.6°C to 3.0°C) at many places over

Himachal Pradesh, Jharkhand and Gangetic West Bengal and isolated places over Tamilnadu, Puducherry & Karaikal and East Madhya Pradesh; They were appreciably below normal (-3.1°C to -5.0°C) at many places over Marathwada; at a few places over Haryana, Chandigarh & Delhi and at isolated places over Rajasthan, Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Odisha and below normal (-1.6°C to -3.0°C) at a few Gujarat Region and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.1°C was reported at Bhagalpur (Bihar).

- Minimum Temperature Departures as on 27-09-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over SubHimalayan West Bengal & Sikkim, Bihar and Punjab; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, East Rajasthan and Madhya Pradesh; above normal (1.6°C to 3.0°C) at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Tamil Nadu, Puducherry & Karaikal. They are below normal (-1.6°C to -3.0°C) at most places over Assam & Meghalaya; at many places over Haryana, Chandigarh & Delhi and Rayalseema; at a few places over West Rajasthan and Gujarat State and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.5°C was reported at Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 27 September (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over north Coastal Andhra Pradesh, south Chhattisgarh, Vidarbha, Kerala & Mahe and Telangana; Heavy to very heavy rainfall at isolated places over Odisha, Madhya Maharashtra, Konkan & Goa, Gujarat State, North Interior Karnataka and Tamilnadu, Puducherry & Karaikal; heavy rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Gangetic West Bengal, Andaman & Nicobar islands, Rayalseema, Coastal Karnataka and Lakshadweep. Thunderstorm accompanied with lightning & Gusty Winds (speed 30-40 kmph) very likely at isolated places over Vidarbha, Chhattisgarh and Marathwada; with lightning very likely at isolated places Uttarakhand, East Rajasthan, Madhya Pradesh, Gangetic West Bengal, Andaman & Nicobar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalseema, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally wind (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Northwest & adjoining Westcentral Bay of Bengal and along & off

north Andhra Pradesh-Odisha coasts; (speed 40-50 kmph gusting to 60 kmph) over Southeast Arabian Sea along & off Kerala coast, Lakshadweep area Gulf of Mannar & Comorin area; Southwest & adjoining Southeast Bay of Bengal, Eastcentral & adjoining Northeast Bay of Bengal; Fishermen are advised not to venture into these areas.

- 28 September (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Gujarat Region, Madhya Maharashtra and Konkan & Goa; Heavy to very heavy rainfall at isolated places over Gangetic West Bengal, Marathwada and Saurashtra & Kutch and heavy rainfall at isolated places over West Madhya Pradesh, Vidarbha, Chattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chattisgarh, Gangetic West Bengal, Odisha, Andaman & Nicobar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada, Konkan & Goa, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally wind (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Northwest & adjoining Westcentral Bay of Bengal and along & off north Andhra Pradesh-Odisha coasts; (speed 40-50 kmph gusting to 60 kmph) over Southeast Arabian Sea along & off Kerala coast, Lakshadweep area Gulf of Mannar & Comorin area; Southwest & adjoining Southeast Bay of Bengal, Eastcentral & adjoining Northeast Bay of Bengal; Fishermen are advised not to venture into these areas.
- 29 September (Day 3): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Saurashtra & Kutch; Heavy to very heavy rainfall likely at isolated places over Gujarat Region and Konkan & Goa; Heavy rainfall at isolated places over Jharkhand, Gangetic West Bengal, Odisha and Madhya Maharashtra. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, East Rajasthan, Gangetic West Bengal, Odisha, Andaman & Nicobar Madhya Maharashtra and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 45-55 kmph to gusting 65 kmph) very likely North and adjoining Westcentral Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) likely over Northeast & Eastcentral Arabian Sea along & off Gujarat-Maharashtra-Goa coasts. Fishermen are advised not to venture into these areas.

- 30 September (Day 4): Heavy to very heavy rainfall likely at isolated places over Saurashtra & Kutch; Heavy rainfall at isolated places over Jharkhand, Gujarat Region, Odisha and Tamilnadu, Puducherry and Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Uttarkhand, East Uttar Pradesh, East Rajasthan and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) likely over Northeast & Eastcentral Arabian Sea along & off Gujarat-north Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 01 October (Day 5): Heavy rainfall likely at isolated places over Saurashtra & Kutch, Kerala & Mahe, Lakshadweep and Tamilnadu, Puducherry and Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Uttarkhand, East Uttar Pradesh, East Rajasthan, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) likely over Northeast & Eastcentral Arabian Sea along & off Gujarat-north Maharashtra coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 27 Sep to 05 Oct 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)

Western U.P

Weather condition:

Medium to dense Cloud coverage may be appear in 22 to 26 September and 56.4 mm cumulative rainfall forecast from 22 to 26 September 2021, therefore humid condition may be continuous prevailing during these days. Maximum temperature may be 1-20C higher to its normal and minimum temperature may be also 2-30C higher to its normal. North-Easterly / South- Easterly winds may be prevailing on 11.8 to 18.3 km/hr which would be 5 - 6 kmph above to its normal during these days. Due to warm humid condition insects and pest may be appeared in standing crop and animals also.

Contingency measure:

- Paddy: 123.6 mm rainfall occurred during last week and light to medium rainfall forecast from 22 to 26 September farmers are advice to stop irrigation. Top dressed 1/4 Urea at PI stage. If seen 10 Green hopper, 2 adult of Hispa per hill of paddy used Cypermethrin 10 % EC @ 0.5 l/ha or Imidacloprid 17.8% SL @ 200 ml/ha with 500 to 600 lt of water. For controlling of Gundhibug population

reaches 2-3 insect per hill apply Imidacloprid 17.8% SL @ 200 ml/ha, Acetamiprid 20% SP @ 350 g/ha or Malathion dust 5% @ 20-25 kg/ha. at clear sky.

- Maize:Harvest mature crop after 26 September and late sown crop protect from birds . If seen shoot borer or leaf roller, apply 2% dust of Fenthroet @ 25to 30 kg/ha. Or Chlorantraniliprole 18.5%SC @ 150ml/ha with 500 to 600 lt. of water.
- Sorghum:If seen shoot borer dusting should be done with Carbofuran, 3G @ 20kg/ha or Chlorantraniliprole 18.5%SC @ 150ml/ha with 500 to 600 lt. of water at clear sky.
- Pearlmillet:For control of shoot borer or leaf roller, apply 2% dust of Fenthroet @ 25to 30 kg/ha. Or Chlorantraniliprole 18.5%SC @ 150ml/ha with 500 to 600 lt. of water during clear day.
- Pigeon pea:If seen leaf roller, apply 2% dust of Fenthroet @ 25to 30 kg/ha. Or Fenitrothion 50 EC 2.0 lt. /ha with 500 to 600 lt. of water during clear day.
- Black gram:Monitor for insect and pest. Remove Mosaic infested plant.
- Green gram:Monitor for insect and pest. Remove Mosaic infested plant.
- Ground nut:If seen Tikka desies spray 2% Mancozeb or Zineb 75% 2.5kg or Zirum 27% 3lt with 500 to 600 lt of water solution .
- Toria:Sowing should be start after rains.
- Brinjal / Chilies:Transplanting should be done with new seedlings. Pick up mature fruits from standing crop, watching insect & pest, if need apply recommended dose of insecticide.
- Leafy Vegetable:Sowing of Palak , Soya, Methi, Coriander and Radish after 26 September and cutting and marketing .
- Jowar / Maize Mucchari + Lobia + Moongbeen:Cutting of fodder.
- Animal:Bathing should be done in animals before milking and fresh water should be used for drinking . Balanced diet should be given for milch animal with 50% green fodder. Common diseases of animals are Anthrax (high fever and enlargement of spleen), the others are Gala Ghotu? (respiratory trouble and ? Surra? (Sudden death of animals after restlessness). The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.

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

27-09-2021/(0800 to 0826) GMT
27-09-2021/(1330 to 1356) IST

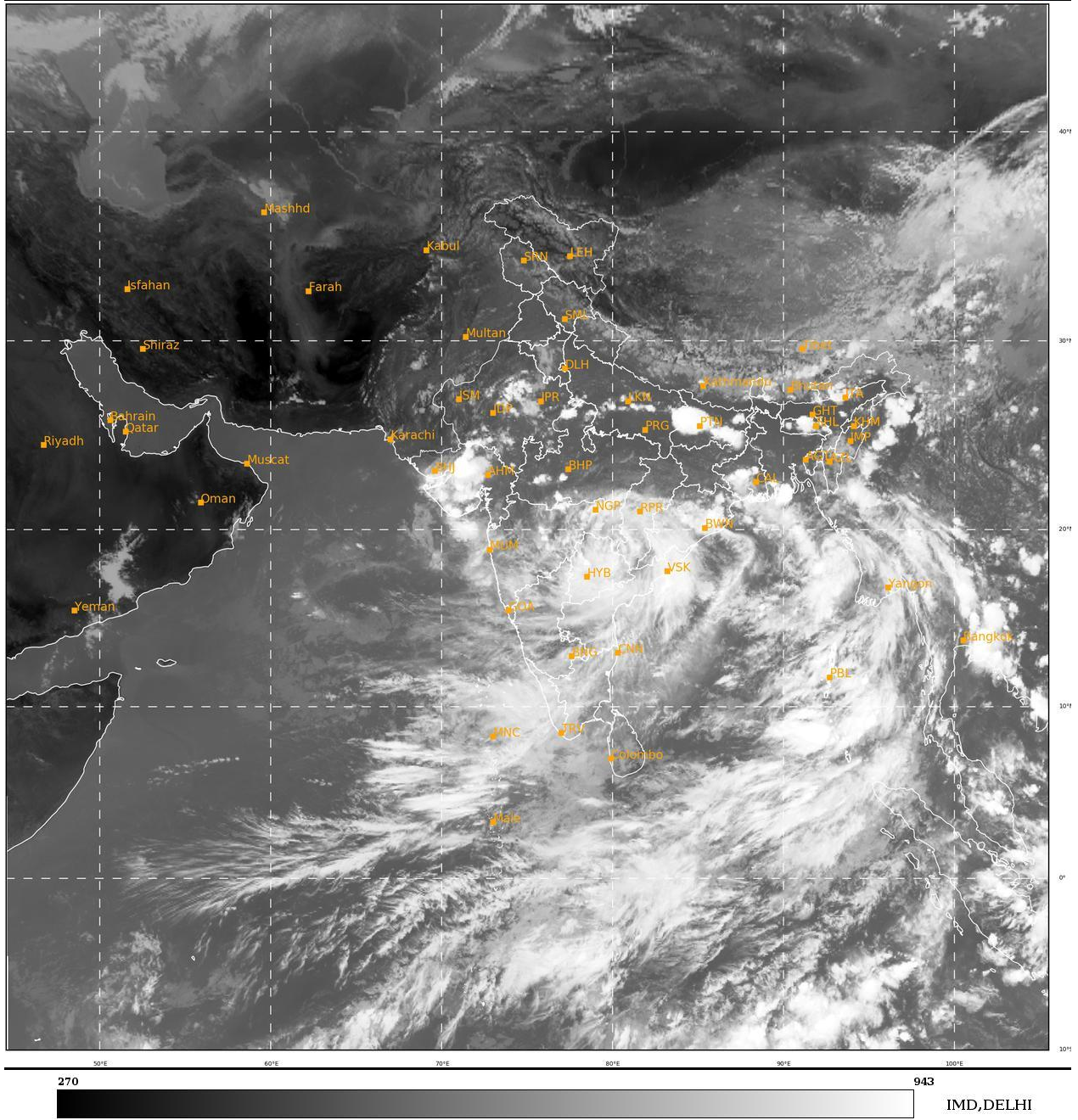


Figure: 1. Latest available satellite picture as on 27 Sep 2021 at 1356 Hrs (IST). (Source: IMD).

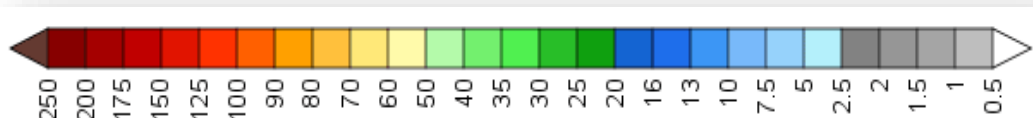
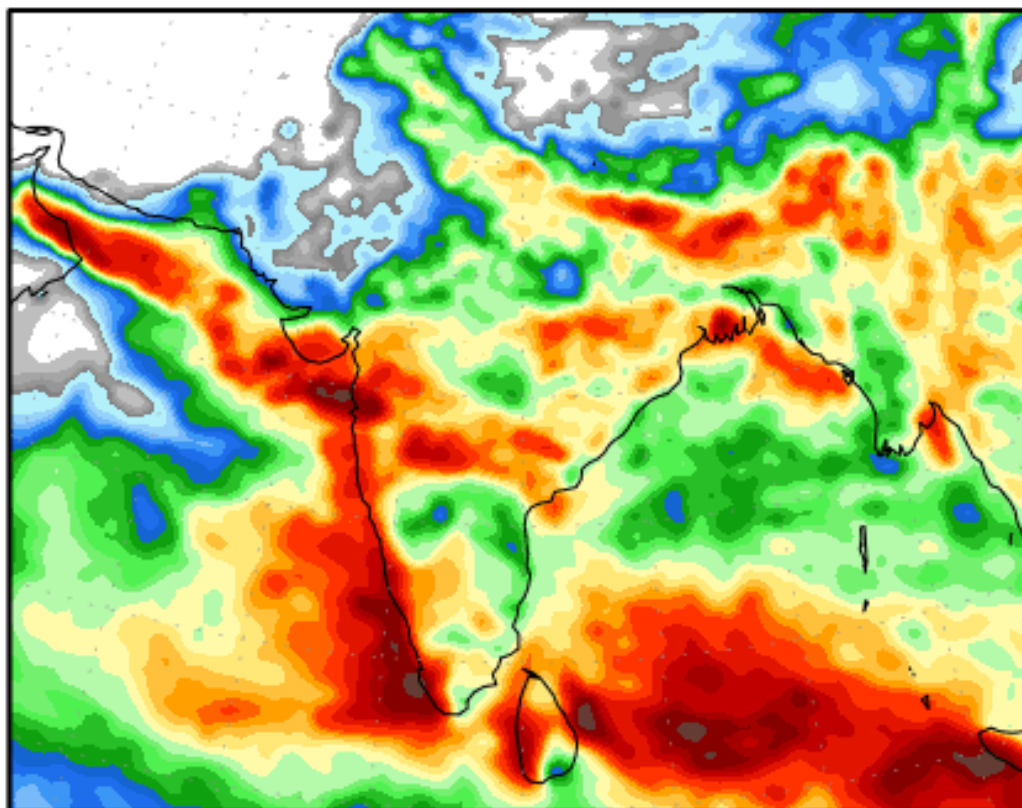


Figure:2. Precipitation forecast for 27 Sep to 05 Oct 2021 (Source: NOAA NCEP).

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