

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 13 September 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Deep Depression over north coastal Odisha moved further west-northwestwards during past 6 hours with a speed of 12 kmph and lay centred at 0830 hrs IST of today, the 13th September, 2021, over north coastal Odisha, near latitude 20.9°N and longitude 86.5°E, about 20 km west-northwest of Chandbali and 120 km east-southeast of Keonjhar (Odisha). It is very likely to continue to move west-northwestwards across north Odisha, north Chhattisgarh & Madhya Pradesh during next 48 hours. It is very likely to weaken into a Depression during next 24 hours.
- The other Low Pressure Area now lies over south Gujarat region & neighbourhood with the associated cyclonic circulation extending upto 5.8 km above mean sea level tilting southwestwards with height persists. It is very likely to become less marked during next 24 hours.
- 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:
- Fairly widespread to widespread rainfall over Odisha and Chhattisgarh with isolated heavy to very heavy falls and Isolated extremely heavy falls are likely over these areas on 13th with reduction thereafter.
- 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 heavy to very heavy falls with Isolated extremely heavy falls are likely over north Konkan (Palghar) on 13th; over Gujarat state on 13th & 15th and over West Madhya Pradesh on 15th September.
- Scattered rainfall likely to continue over Peninsular India during next 5 days. Isolated heavy falls are likely over Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala during next 2 days. Isolated very heavy falls are likely over Coastal Karnataka on 13th September.

- 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.
- 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 Himachal Pradesh, Vidarbha, Chhattisgarh, Odisha, Gangetic West Bengal, Jharkhand, Gujarat state, Konkan & Goa, Madhya Maharashtra, Coastal Karnataka and Kerala & Mahe; at many places over Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Rajasthan, East Madhya Pradesh, Marathawada, Interior Karnataka, Andaman & Nicobar Islands and Lakshadweep; at a few places over West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam and Telangana and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttar Pradesh, 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 many places with extremely heavy falls at isolated places over Odisha; heavy to very heavy rainfall at isolated places over Konkan & Goa, Madhya Maharashtra, Gujarat state and heavy rainfall at isolated places over Himachal Pradesh, Vidarbha, Chhattisgarh, Kerala, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Uttarakhand, Punjab, Uttar Pradesh, Bihar, Rajasthan, Haryana, East Madhya Pradesh, Vidarbha, Gujarat State, Coastal Andhra Pradesh & Yanam, Odisha, Jharkhand, Tripura, and West Bengal & Sikkim.
- Maximum Temperature Departures as on 12-09-2021: Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Arunachal Pradesh; at isolated places over Nagaland, Manipur, Mizoram & Tripura; appreciably above normal (3.1°C to 5.0°C) at many places over Bihar, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; at isolated places over East Uttar Pradesh and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Uttarakhand and East Madhya Pradesh; at a few places over West Madhya Pradesh, Jharkhand, Gangetic West Bengal, Coastal

Karnataka and Kerala & Mahe; at isolated places over Vidarbha. They were markedly below normal (-5.1°C or less) at many places over Himachal Pradesh; at isolated places over Punjab and Odisha; appreciably below normal (-3.1°C to -5.0°C) at a few places over Haryana, Chandigarh & Delhi and West Rajasthan; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; below normal (-1.6°C to -3.0°C) at most places over East Rajasthan; at many places over Gujarat Region; at a few places over North Interior Karnataka, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands; at isolated places over Madhya Maharashtra and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.6°C was reported at Madurai (Tamil Nadu).

- Minimum Temperature Departures as on 13-09-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Uttar Pradesh and West Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Sub-Himalayan West Bengal & Sikkim, Uttarakhand and West Uttar Pradesh; at a few places over Rajasthan, Saurashtra & Kutch, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal and at isolated places over Haryana, Chandigarh & Delhi, Himachal Pradesh and Assam & Meghalaya. They are below normal (-1.6°C to -3.0°C) at isolated places over Odisha, Gujarat region and Andaman & Nicobar Islands and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.6°C reported at Pachmarhi (West Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 13 September (Day 1): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over Odisha; Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Chhattisgarh, Gujarat state and north Konkan (only Palghar district); Heavy to very heavy rainfall at isolated places over north Madhya Maharashtra and Coastal Karnataka and heavy rainfall at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland,

Manipur, Mizoram & Tripura, Gujarat state, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. Strong surface winds (speed 45-55 kmph to gusting 65 kmph) over the coastal areas of Odisha and speed 40-50 kmph to gusting 60 kmph over coastal areas of West Bengal and interior areas of Odisha. Strong wind (speed 45-55 kmph to gusting 65 kmph) very likely over Southwest & Westcentral Arabian Sea; (speed 40-50 kmph to gusting 60 kmph) over Northeast Arabian Sea and along & off Gujarat-north Maharashtra coasts, Central & adjoining South Bay of Bengal. Squally wind speed reaching 50-60 kmph to gusting 70 kmph very likely over north & adjoining westcentral Bay of Bengal and along & off Odisha, West Bengal and North Andhra Pradesh coasts during next 12 hours and decrease gradually becoming 40 -50 kmph gusting to 60 kmph during the subsequent 12 hours. Sea condition will be rough to very rough over north & adjoining westcentral Bay of Bengal and along & off Odisha, West Bengal & North Andhra Pradesh coasts during next 12 hours. Fisherman are advised not to venture into these areas.

- 14 September (Day 2): Heavy to very heavy rainfall at isolated places very likely over Madhya Pradesh, Gujarat State, north Madhya Maharashtra and north Konkan and heavy rainfall at isolated places over Uttarakhand, East Rajasthan, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Coastal Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Gujarat state, Marathwada, Telangana and Tamilnadu, Puducherry & Karaikal. Strong wind (speed 45-55 kmph to gusting 65 kmph) very likely over the Southwest & Westcentral Arabian Sea; (speed 40-50 kmph to gusting 60 kmph) over Northeast Arabian Sea and along & off Gujarat-north Maharashtra coasts; Northwest & adjoining Westcentral Bay of Bengal along & off West BengalOdisha coasts. Fisherman are advised not to venture into these areas.
- 15 September (Day 3): Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over West Madhya Pradesh and Gujarat state; Heavy to very heavy rainfall at isolated places over East Rajasthan and East Madhya Pradesh and heavy rainfall at isolated places over Haryana, Andaman & Nicobar Islands, north Konkan, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh and Tamilnadu, Puducherry & Karaikal. Strong wind (speed 45-55 kmph to gusting 65 kmph) likely over the Southwest & Westcentral Arabian

Sea, Northeast Arabian Sea and along & off Gujarat north Maharashtra coast, Northeast & Eastcentral Bay of Bengal & adjoining North Andaman Sea. Fisherman are advised not to venture into these areas.

- 16 September (Day 4): Heavy to very heavy rainfall likely at isolated places over East Rajasthan and Saurashtra & Kutch and heavy rainfall at isolated places over Uttarakhand, Haryana, West Uttar Pradesh, West Rajasthan, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat region. Thunderstorm accompanied with lightning likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal. Strong wind (speed 45-55 kmph to gusting 65 kmph) likely over the Southwest & Westcentral Arabian Sea, Northeast Arabian Sea and along & off Gujarat coast, Northeast & Eastcentral Bay of Bengal & adjoining North Andaman Sea. Fisherman are advised not to venture into these areas.
- 17 September (Day 5): Heavy rainfall likely at isolated places over West Uttar Pradesh, East Rajasthan, Assam & Meghalaya and Saurashtra & Kutch. Thunderstorm accompanied with lightning likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal. Strong wind (speed 45-55 kmph to gusting 65 kmph) likely over the Southwest & Westcentral Arabian Sea, Northeast Arabian Sea and along & off Gujarat coast, Northeast & 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., 13 Sep to 21 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)

Assam

Weather condition:

Weather during the last week was generally cloudy. Daily average maximum temperature was 33.7°C which was 1.6°C above normal and the average daily minimum temperature was 24.3°C which was 0.8°C below normal for the week. Total BSSH was 40.1 hrs with an average of 6.7 hrs/day. The daily average evaporation rate was 3.0 mm/day and the average daily wind speed during the week was 2.1 kmph. Daily average RH during morning and afternoon hour was 94.0% and 71.2%, respectively.

Contingency measure:

- Sali rice (Maximum tillering to PI stage): 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.
- 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.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
L1C Mercator

13-09-2021/(0800 to 0826) GMT
13-09-2021/(1330 to 1356) IST

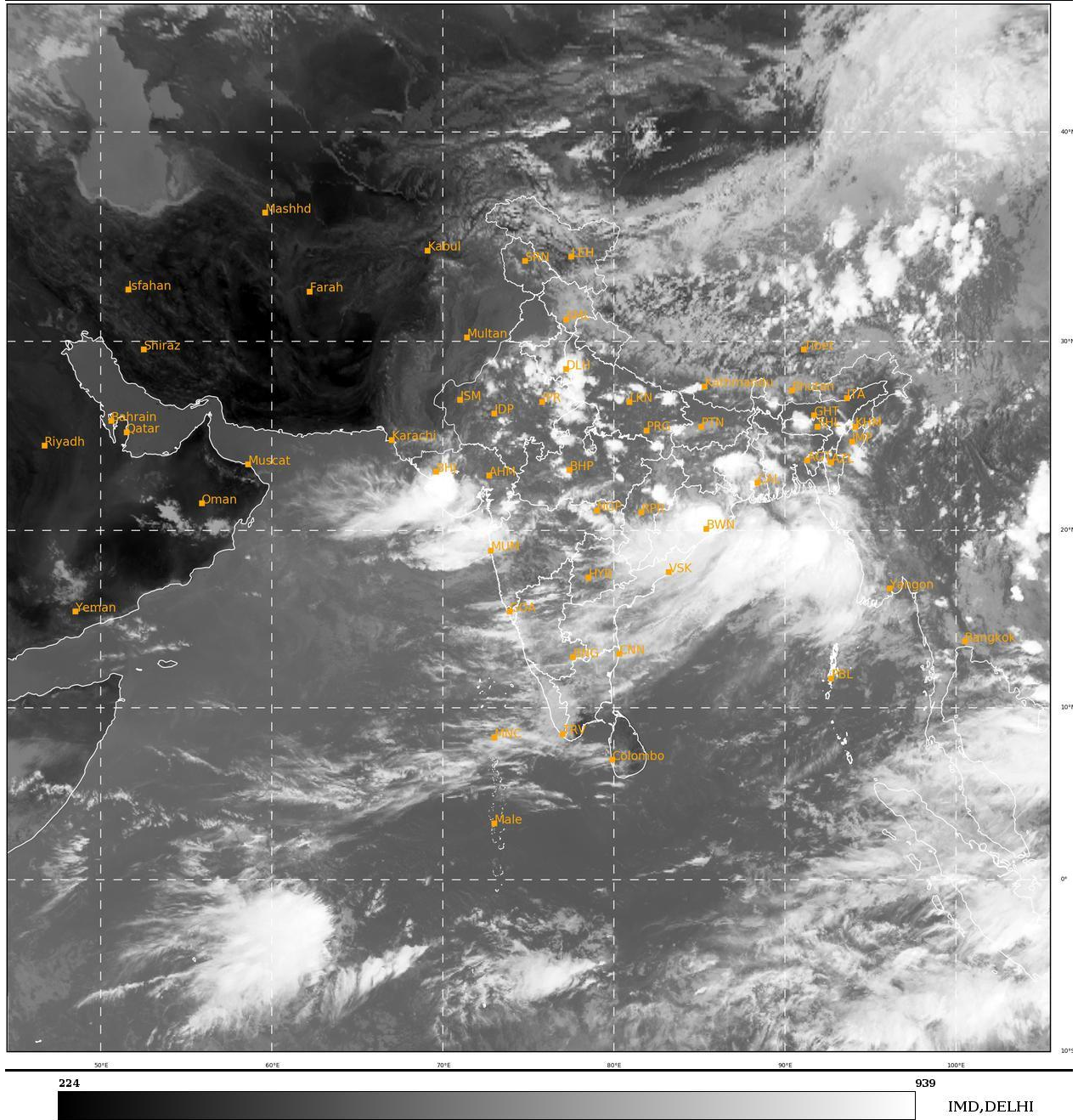


Figure: 1. Latest available satellite picture as on 13 Sep 2021 at 1356 Hrs (IST). (Source: IMD).

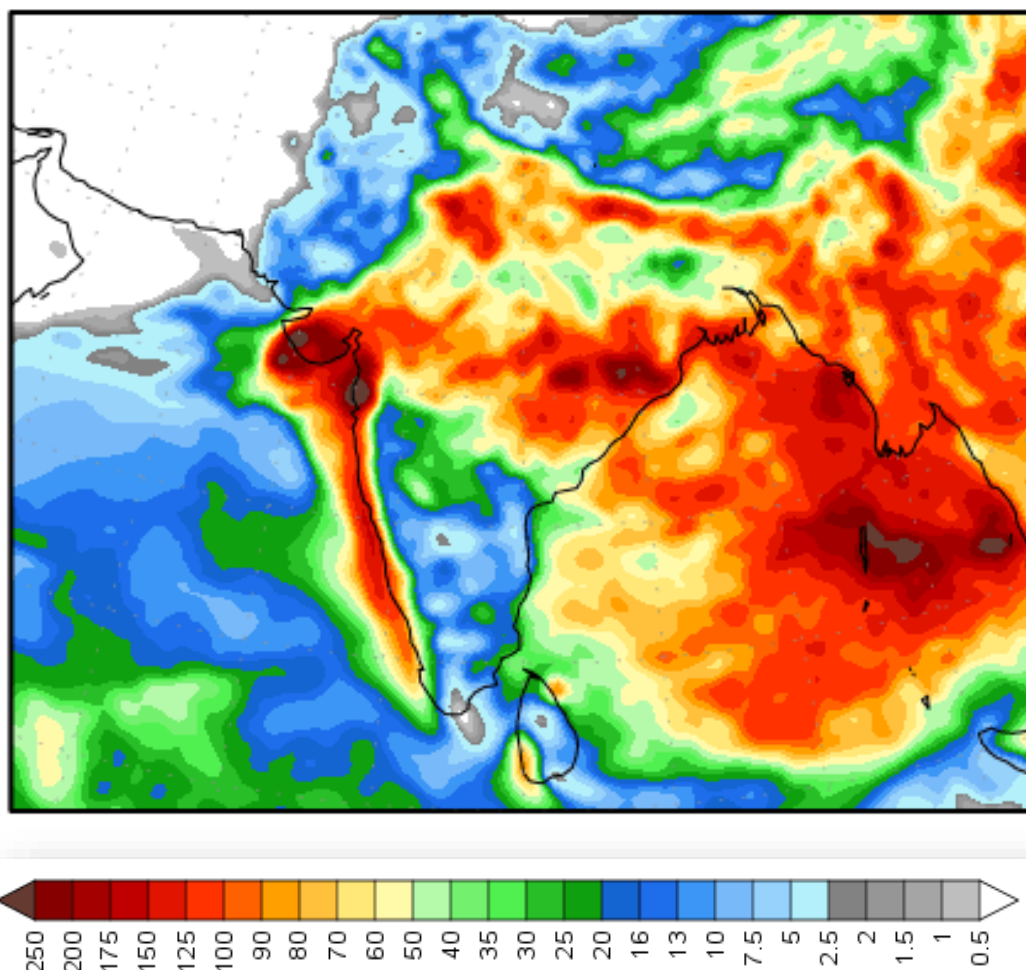


Figure:2. Precipitation forecast for 13 Sep to 21 Sep 2021 (Source: NOAA NCEP).

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