

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 September 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Depression over northeast and adjoining eastcentral Bay of Bengal moved westwards with a speed of 12 kmph in last 6 hours, intensified into a Deep Depression and lay centered at 0530 hrs IST of 25th September 2021, over north and adjoining eastcentral Bay of Bengal near Lat. 18.4°N and Long. 89.7°E, about 510 km east-southeast of Gopalpur (Odisha) & 590 km east-northeast of Kalingapatnam (Andhra Pradesh). It is likely to intensify into a Cyclonic Storm during next 12 hours. It is likely to move nearly westwards and cross north Andhra Pradesh - south Odisha coasts between Vishakhapatnam & Gopalpur around Kalingapatnam by evening of 26th September, 2021.
- A Low Pressure Area lies over Northeast Arabian Sea & adjoining coastal areas of Pakistan with the associated cyclonic circulation extending upto 4.5 km above mean sea level tilting southwestwards with height.
- Monsoon trough lies to the south of its normal position and likely to remain so during next 5 days. Under the influence of the above systems:
 - i) 25th Sept.: Light to moderate rainfall at many places with heavy rainfall at isolated places likely over Gangetic West Bengal, Odisha and Coastal Andhra Pradesh.
 - ii) 26th Sept.: Light to moderate rainfall at most places with heavy to very heavy falls at a few places & extremely heavy falls at isolated places very likely over south Odisha and north coastal Andhra Pradesh; heavy to very heavy falls at isolated places over Telangana and heavy falls at isolated places over north interior Odisha & Chhattisgarh.
 - iii) 27th Sept.: Light to moderate rainfall at most places with heavy to very heavy & extremely heavy falls at isolated places very likely over south Chhattisgarh; heavy to very heavy falls at isolated places over Odisha & Telangana and heavy rainfall at isolated places over coastal West Bengal.
 - iv) The fishermen are advised not to venture into east-central & adjoining northeast Bay of Bengal and Andaman Sea on 25th Sept and into northwest &

adjoining westcentral Bay of Bengal and along & off Odisha, West Bengal & North Andhra Pradesh coasts till 27th Sept.

v) Fairly widespread to widespread rainfall with isolated heavy falls very likely over East Rajasthan, West Madhya Pradesh, Gujarat state and Konkan & Goa during next 5 days. Isolated very heavy falls is also very likely over Gujarat Region on 25th, 26th & 27th; over Saurashtra & Kutch on 26th & 27th September, 2021.

vi) Rainfall activity is very likely to increase over Kerala & Mahe with fairly widespread to widespread rainfall and isolated heavy falls from today, the 25th September, 2021 and over Lakshadweep area from 26th 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 many places over over Andaman & Nicobar Islands; at a few places over Madhya Pradesh, East Uttar Pradesh, Haryana, Chandigarh & Delhi and Saurashtra & Kutch and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, West Uttar Pradesh, Rajasthan, Gujarat Region, Bihar, Assam & Meghalaya, Odisha, Maharashtra, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Tamilnadu, Puducherry & Karaikal.
- Heavy rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): Very Heavy rainfall at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Gujarat Region.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Gujarat State, Madhya Pradesh, Bihar, Gangetic West Bengal, Marathawada, Assam & Meghalaya, Odisha, Vidharbha, Coastal Andhra Pradesh & Yanam , Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- Maximum Temperature Departures as on 24-09-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim, Bihar and Nagaland, Manipur, Mizoram & Tripura; at isolated places over Gangetic West Bengal; above normal (1.6°C to 3.0°C) at many places over Jharkhand, Odisha and Kerala & Mahe; at a few places over Tamilnadu, Puducherry & karaikal and at isolated places over East Madhya Pradesh. They were markedly below normal (-5.0°C or less) at isolated places over West Rajasthan; appreciably below normal (-

3.1°C to -5.0°C) at many places over Saurashtra & Kutch and West Uttar Pradesh; at isolated places East Rajasthan and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Haryana, Chandigarh & Delhi and Marathwada; at a few places over Gujarat Region and Madhya Maharashtra and at isolated places over West Uttar Pradesh, East Madhya Pradesh and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.0°C was reported at Itanagar (Arunachal Pradesh).

- Minimum Temperature Departures as on 24-09-2021: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Rajasthan; above normal (1.6°C to 3.0°C) at many places over Uttarakhand, Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim ; at a few places over Assam & Meghalaya and at isolated places over Himachal Pradesh, Gujarat State, and Madhya Maharashtra. They were below normal (-1.6°C to -3.0°C) at isolated places over Gangetic West Bengal, Coastal Andhra Pradesh and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, 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)

- 25 September (Day 1): Heavy to very heavy rainfall very likely at isolated places over Gujarat Region and heavy rainfall at isolated places over Gangetic West Bengal, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Odisha, Saurashtra & Kutch, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally Wind (wind speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest & Westcentral Arabian Sea, speed reaching 50-60 kmph gusting to 70 kmph over Northeast & Eastcentral Bay of Bengal, Andaman sea, Southwest and adjoining Bay, Gulf of Mannar & Comorin area and (speed reaching 50- 60 kmph gusting to 70 kmph) over Northwest and adjoining Westcentral Bay of Bengal and along & off Odisha - North Andhra Pradesh coasts. Squally wind speed reaching 50-60 kmph gusting to 70 kmph very likely over Northwest and adjoining Westcentral Bay of Bengal and increase gradually becoming gale wind speed reaching 60-70 kmph gusting to 80 kmph from the

evening. Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely along and off Odisha-North Andhra Pradesh coasts from today morning. Sea condition will be rough to very rough over east-central & adjoining northeast Bay of Bengal and over Northwest and adjoining Westcentral Bay of Bengal and along and off Odisha, West Bengal and North Andhra Pradesh coasts during next 12 hours Fishermen are advised not to venture into these areas.

- 26 September (Day 2): Heavy to very heavy rainfall at a few places with extremely heavy falls at isolated places very likely over south & coastal Odisha and North Coastal Andhra Pradesh & Yanam; Heavy to very heavy rainfall very likely at isolated places over Gujarat State and heavy rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, north interior Odisha, Telangana, Kerala & Mahe and Lakshadweep. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe, Lakshadweep and Tamilnadu, Puducherry & Karaikal. Squally wind (wind speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest & Westcentral Arabian Sea, Gujarat coast, Gulf of Mannar & Comorin and Lakshadweep area. Fishermen are advised not to venture into these areas. Strong wind (wind speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Southeast Bay of Bengal, (speed reaching 60-70 kmph gusting to 80 kmph) over Northwest & adjoining Westcentral Bay of Bengal and along & off Odisha-West Bengal-North Andhra Pradesh coasts. Squally wind speed reaching 70-80 kmph gusting to 90 kmph from 26th morning till evening very likely over Northwest and adjoining Westcentral Bay of Bengal. Gale wind speed reaching 70-80 kmph gusting to 90 kmph from afternoon of 26th till midnight along & off north Andhra Pradesh & adjoining south Odisha coasts. Sea condition will be High over Northwest and adjoining Westcentral Bay of Bengal and along and off Odisha, West Bengal and North Andhra Pradesh coasts till 26th Sept. evening. Fishermen are advised not to venture into these areas.
- 27 September (Day 3): Heavy to very heavy rainfall with extremely heavy falls at isolated places likely over south Chhattisgarh; Heavy to very heavy rainfall at isolated places over Odisha, Telangana & Gujarat State; heavy rainfall at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Gangetic West Bengal, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands, Kerala & Mahe and Lakshadweep.

Thunderstorm accompanied with lightning likely at isolated places over Haryana, West Uttar Pradesh, East Rajasthan, Marathwada, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Lakshadweep and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) likely over the Southwest & Westcentral Arabian Sea. Strong wind speed 40-50 kmph gusting to 60 kmph) likely over Gujarat coast, Gulf of Mannar & Comorin area. Fishermen are advised not to venture into these areas. Strong wind (speed 40-50 kmph gusting to 60 kmph) likely over Southwest & adjoining Southeast Bay of Bengal, (speed reaching 45-55 kmph gusting to 65 kmph) very likely over Northwest Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts. Sea condition will be rough to very rough over Northwest Bay of Bengal and along & off Odisha-north Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.

- 28 September (Day 4): Heavy rainfall likely at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe. Thunderstorm accompanied with lightning likely at isolated places over Haryana, West Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Lakshadweep and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 45-55 kmph to gusting 65 kmph) likely northeast and adjoin eastcentral Bay of Bengal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) likely over the Southwest & Westcentral Arabian Sea. Strong wind (wind speed 40-50 kmph gusting to 60 kmph) likely over Gujarat coast. Fishermen are advised not to venture into these areas.
- 29 September (Day 5): Heavy rainfall likely at isolated places over West Madhya Pradesh, Gangetic West Bengal, Odisha, Gujarat state, Konkan & Goa. Thunderstorm accompanied with lightning likely at isolated places over Haryana, West Uttar Pradesh, East Rajasthan, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Lakshadweep and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 45-55 kmph to gusting 65 kmph) likely northeast and adjoin eastcentral Bay of Bengal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) likely over the Southwest & Westcentral Arabian Sea. Strong wind (wind speed 40-50 kmph gusting to 60 kmph) likely over Gujarat coast. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 25 Sep to 03 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)

Marathwada

Weather condition:

From 17.09.2021 to 23.09.2021 during this week Weather condition of Parbhani center total 48.6 mm rainfall was recorded. The Maximum temperature was range from 28.8 to 33.0 0C and minimum temperature range from 21.4 to 23.4 0C. Relative humidity (RH-I) ranged between 87-96% and relative humidity (RH-II) recorded was 52-73% The wind speed varied 2.7 to 4.9 km/hr.

Contingency measure:

- Cotton: As per forecast for next three days precaution should be taken so that water may not stagnate in cotton crop. Remove excess amount of water from cotton crop. As per forecast spraying and fertilizer application operations should be postponed.
- Pigeon Pea: As per forecast for next three days precaution should be taken so that water may not stagnate in pigeon pea crop. Remove excess amount of water from pigeon pea crop. As per forecast spraying and fertilizer application operations should be postponed.
- Black Gram/Green Gram: As per forecast harvested Black gram/Green gram crop should be store at safe places.
- Ground nut: As per forecast for next three days precaution should be taken so that water may not stagnate in groundnut crop. Remove excess amount of water from groundnut crop. As per forecast spraying operations should be postponed.
- Maize: As per forecast for next three days precaution should be taken so that water may not stagnate in Maize crop. Remove excess amount of water from Maize crop. As per forecast spraying operations should be postponed.
- Soybean: As per forecast for next three days precaution should be taken so that water may not stagnate in soybean crop. Remove excess amount of water from soybean crop. As per forecast spraying operations should be postponed.
- Banana: As per forecast for next three days precaution should be taken so that water may not stagnate in Banana orchard. Remove excess amount of water from Banana orchard. As per forecast spraying and fertilizer application operations should be postponed.
- Mango: As per forecast for next three days precaution should be taken so that

water may not stagnate in Mango orchard. Remove excess amount of water from Mango orchard.

- Grape: As per forecast for next three days precaution should be taken so that water may not stagnate in Grape orchard. Remove excess amount of water from Grape orchard.
- Custard apple: As per forecast for next three days precaution should be taken so that water may not stagnate in Custard apple orchard. Remove excess amount of water from Custard apple orchard.
- Vegetable: As per forecast for next three days precaution should be taken so that water may not stagnate in vegetable crops. Remove excess amount of water from vegetable crops. As per forecast spraying and fertilizer application operations should be postponed. Harvesting of mature vegetable crops should be done and send to the market after grading.
- Floriculture: As per forecast for next three days precaution should be taken so that water may not stagnate in Floriculture crop. Remove excess amount of water from Floriculture crop. Harvesting of mature flowers should be done and send to the market after grading.
- Animal: Due to Forecast of Thunderstorm accompanied with Lightning, gusty wind and heavy Rain at isolated places so bring animals into shelter before storms being. During lightning don't stand nearer to trees. Softening at the base of horn, tilting of horn, constant irritation, itching, foul smelling discharge from horn from affected horn, all these are clinical signs of horn cancer. It is advises to get surgically operated without delay.

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

25-09-2021/(0800 to 0826) GMT
25-09-2021/(1330 to 1356) IST

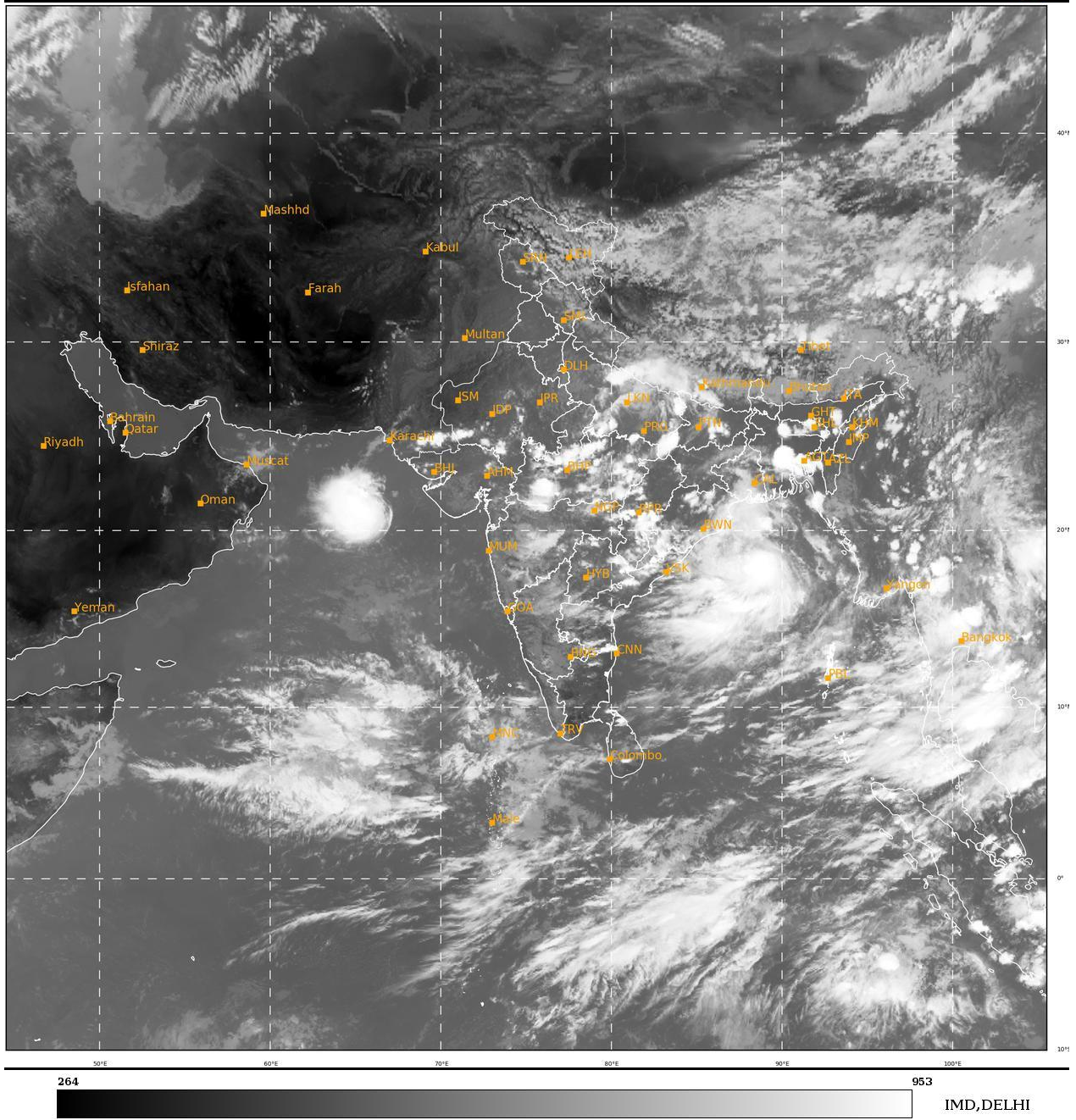


Figure: 1. Latest available satellite picture as on 25 Sep 2021 at 1356 Hrs (IST). (Source: IMD).

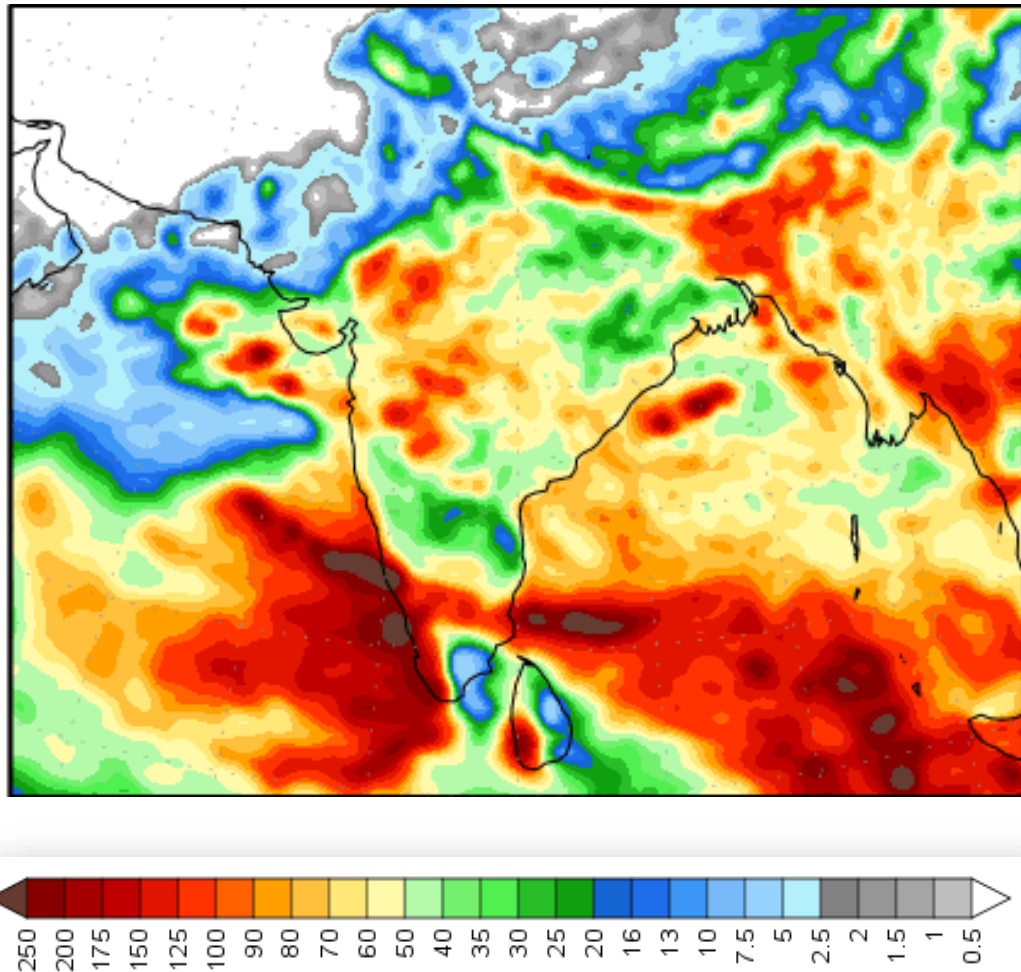


Figure:2. Precipitation forecast for 25 Sep to 03 Oct 2021 (Source: NOAA NCEP).

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