

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 25 May 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest Monsoon has further advanced into some parts of Maldives-Comorin area; some more parts of Southwest & Southeast Bay of Bengal today, the 25th May. The northern limit of Southwest Monsoon now passes through 5°N/75°E, 7°N/80°E, 11°N/85°E, 13°N/90°E and 16°N/94.5°E.
- The Severe Cyclonic Storm 'Yaas' (pronounced as 'Yass') over Eastcentral & adjoining Westcentral Bay of Bengal moved northwestwards with a speed of about 17 kmph during past 06 hours, and lay centred at 0830 hrs IST of today, the 25th May, 2021 over Westcentral & adjoining Eastcentral & North Bay of Bengal near latitude 18.3°N and longitude 88.3°E, about 280 km south-southeast of Paradip (Odisha), 380 km south-southeast of Balasore (Odisha) and 370 km south-southeast of Digha (West Bengal) and 370 km south-southwest of Sagar Islands (West Bengal). It is very likely to move north-northwestwards, intensify further into a Very Severe Cyclonic Storm during next 12 hours. It would continue to move north-northwestwards, intensify further and reach Northwest Bay of Bengal near north Odisha and West Bengal coasts very close to Chandbali-Dhamra port by the early morning of Wednesday, by 26th May. It is very likely to cross north Odisha-West Bengal coasts between Paradip and Sagar islands close to north of Dhamra and south of Balasore, during noon of Wednesday, 26th May as a Very Severe Cyclonic Storm. Under it:
 - (i) Rainfall Warning: Scattered heavy to very heavy rainfall with isolated extremely heavy falls over Odisha on 25th & 26th; isolated heavy to very heavy with extremely heavy falls over Gangetic West Bengal on 26th; Jharkhand on 26th & 27th and Bihar on 27th May.
 - (ii) Sea condition Sea condition is High to Very High over Westcentral and adjoining eastcentral & north Bay of Bengal. It is very likely to become Very High to Phenomenal over northern parts of central Bay of Bengal, north Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts during 25th evening to 26th May evening.

(iii) Fishermen Warning The fishermen are advised not to venture into central Bay of Bengal till 26th May forenoon and into north Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts during 25th - 26th May.

(iv) Storm surge warning. Tidal waves of height 2-4 meters above astronomical tide are likely to inundate low lying low laying areas of Medinipur, Balasore, Bhadrak and about 2 meters above astronomical tide are likely to inundate low lying low laying areas of South 24 Parganas, Kendrapara & Jagatsinghpur Districts around the time of landfall.

- Strong surface winds (speed reaching 20-30 kmph) very likely over north Rajasthan, Haryana, Chandigarh & Delhi, Uttar Pradesh and West Madhya Pradesh on 25th.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over West Bengal & Sikkim, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka; at many places over Assam & Meghalaya and Lakshadweep; at a few places over Jharkhand, Odisha, Interior Karnataka and Kerala & Mahe and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Madhya Pradesh, Bihar, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to very heavy rainfall at isolated places over Odisha and heavy rainfall at isolated places over Gangetic West Bengal, Tripura, South Interior Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST today): at isolated places over Assam & Meghalaya, Tripura, Interior Karnataka, West Bengal and Odisha. Thundersquall observed at isolated places over Andaman & Nicobar Islands.
- Maximum Temperature Departures as on 24-05-2021: Maximum temperatures were markedly above normal (5.1°C or more) at most places over Arunachal Pradesh and Assam & Meghalaya; at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Sub-Himalayan West Bengal & Sikkim; appreciably above normal (3.1°C to 5.0°C) at isolated places over Tamil

Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at a few places over Saurashtra & Kutch. They were markedly below normal (-5.1°C or less) at a few places over Rayalaseema and Coastal Andhra Pradesh & Yanam; appreciably below normal (-3.1°C to -5.0°C) at most places over North Interior Karnataka; at many places over Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh and Chhattisgarh; at a few places over East Rajasthan and West Madhya Pradesh; at isolated places over Himachal Pradesh, East Uttar Pradesh, Madhya Maharashtra and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at many places over West Rajasthan; at a few places over Gangetic West Bengal; at isolated places over Gujarat Region and Telangana and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 42.6°C was reported at Chandrapur (Vidarbha) & Medak (Telangana) over the plains of the country.

- Minimum Temperature Departures as on 25-05-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya; at a few places over Bihar and Arunachal Pradesh; at isolated places over West Rajasthan, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. They are markedly below normal (-5.1°C or less) at isolated place over East Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, West Madhya Pradesh and Telangana; below normal (-1.6°C to -3.0°C) at many places over Vidarbha and Odisha; at a few places over West Uttar Pradesh, East Rajasthan and Rayalaseema and near normal over rest of the country. Today, the lowest minimum temperature of 20.0°C is reported at Pantnagar (Uttarakhand) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 May (Day 1): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Bihar and Kerala & Mahe and with lightning at isolated places over East Uttar Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. 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 at a few places over Gangetic West Bengal and at isolated places over Assam & Meghalaya and north Coastal Andhra Pradesh & Yanam and Heavy Rainfall at isolated places over Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka and Kerala & Mahe. Gale winds speed reaching 100-110 kmph gusting to 120 kmph is prevailing over major parts of central Bay of Bengal and adjoining north Bay of Bengal and would increase gradually becoming 125-135 gusting to 140 kmph from today evening. Squally wind speed reaching 55-65 kmph gusting 75 kmph is prevailing over North Bay of Bengal and along and off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts. It would further increase becoming 65-75 kmph gusting to 85 kmph over northwest Bay of Bengal and along & off north Odisha and adjoining West Bengal coasts from 25th May evening. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over Southwest Arabian Sea. Strong wind (speed reaching 40-50 kmph) very likely over Gulf of Mannar, Comorin area and along & off south Tamil Nadu coast. Sea Conditions is high to very high over Westcentral and adjoining Eastcentral & North Bay of Bengal; very high to phenomenal over northern parts of Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts. Fishermen are advised not to venture into these areas. For district updates of strong surface winds likely to prevail over Odisha, West Bengal, Jharkhand and Andhra Pradesh, kindly refer to the cyclone bulletins available at: <http://www.rsmcnewdelhi.imd.gov.in> https://mausam.imd.gov.in/imd_latest/contents/cyclone.php#.

- 26 May (Day 2): Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & gusty wind (speed reaching 40-50 kmph) at isolated places over Bihar; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Chhattisgarh and Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe and with lightning at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka and Lakshadweep. 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 over Gangetic West Bengal and Jharkhand; Heavy to Very Heavy Rainfall at isolated places over Assam &

Meghalaya and Heavy Rainfall at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh and Kerala & Mahe. Strong surface winds (speed reaching 45-55 kmph) over land areas of Coastal Andhra Pradesh, Tamil Nadu and Rayalaseema and speed reaching 30-40 kmph over Telangana. Gale wind speed 155-165 kmph gusting to 185 kmph very likely over northwest Bay of Bengal and along & off north Odisha and adjoining West Bengal coasts. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over Southwest Arabian Sea. Strong wind (speed reaching 40- 50 kmph) very likely over Gulf of Mannar, Comorin and along & off south Tamil Nadu coast. Sea Conditions is high to very high over Westcentral & adjoining Eastcentral Bay of Bengal. It is very likely to become very high to phenomenal over northern parts of Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal-Bangladesh coasts. Fishermen are advised not to venture into these areas. For district updates of strong surface winds likely to prevail over Odisha, West Bengal, Jharkhand and Andhra Pradesh, kindly refer to the cyclone bulletins available at: <http://www.rsmcnewdelhi.imd.gov.in> and https://mausam.imd.gov.in/imd_latest/contents/cyclone.php#.

- 27 May (Day 3):Thunderstorm with lightning & squall (speed reaching 50-60 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Vidarbha, Marathwada, Telangana, Coastal Karnataka and Lakshadweep. Heavy to Very Heavy Rainfall with Extremely Heavy Falls likely at isolated places over Bihar and Jharkhand and Heavy Rainfall at isolated places over East Uttar Pradesh, Chhattisgarh, West Bengal & Sikkim, Odisha and Andaman & Nicobar Islands. Squally wind speed reaching 50-65 kmph gusting to 70 kmph likely over north Odisha and interior Districts of West Bengal on 27th. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) very likely to prevail over Southwest Arabian Sea. Strong wind (speed reaching 40-50 kmph) very likely over Gulf of Mannar, Comorin area and along & off south Tamil Nadu coast. Fishermen are advised not to venture into these areas.
- 28 May (Day 4):Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over East Uttar Pradesh and Andaman & Nicobar Islands; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Marathwada, Telangana and Kerala & Mahe and with lightning at

isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Karnataka and Lakshadweep. Heavy to Very Heavy Rainfall at isolated places likely over Bihar and East Uttar Pradesh and Heavy Rainfall at isolated places over Chhattisgarh, Jharkhand and Andaman & Nicobar Islands. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.

- 29 May (Day 5): Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph) likely at isolated places over East Uttar Pradesh and Andaman & Nicobar Islands; with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places over Marathwada, Telangana and Kerala & Mahe and with lightning at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka and Lakshadweep. Heavy to Very Heavy Rainfall likely at isolated places over East Uttar Pradesh and Bihar and Heavy Rainfall at isolated places over Andaman & Nicobar Islands, Coastal Karnataka and Kerala & Mahe. Squally wind (speed reaching 40-50 kmph gusting to 60 kmph) likely to prevail over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 25 May to 02 Jun 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 mainly cloudy. Daily average maximum temperature was 30.2°C which was 0.1°C below normal and the average daily minimum temperature was 20.8°C which was 0.3°C below normal for the week. Total BSSH was 4.2hrs with an average of 0.6hrs/day. The daily average evaporation rate was 1.6mm/day and the average daily wind speed during the week was 2.4kmph. Daily average RH during morning and afternoon hour was 83.5% and 74.7% respectively.

Contingency measure:

- Sali rice (Nursery preparation):- Taking advantage of pre-monsoon rainfall received during the past week and also the anticipated rainfall amount in the coming 5 days, farmers can start nursery bed preparation for sowing of Sali rice

seeds. The nursery beds should be of 10m long and 1.25m wide prepared in levelled well-puddled soil and the distance between the beds should be about 30 cm. About 6-7 such beds will be required to transplant one bigha of land and a recommended quantity of 650g to 1 kg of seeds should be sown in each bed. Prior to sowing, 20Kg FYM, 80gm Urea, 80gm SSP and 40gm MOP should be thoroughly incorporated in each of the beds. Collect seeds of recommended Sali rice varieties viz., Ranjit, Ranjit Sub 1, Bahadur, Satyaranjan, Basundhara, Mahsuri, Ketekijoha etc. for obtaining higher yield. Select varieties like Satyaranjan and Basundhara, having crop duration of 130-135 days, in double cropping areas. Select water submergent tolerant rice varieties such as Jalashree, Jalkunwari, Ranjit Sub-1, Swarna Sub-1, etc. in chronically flood affected areas.

- Citrus (Planting):- May to August month is the suitable time for planting of cuttings of citrus in main field. Farmers are suggested to make provisions for transplanting of citrus cuttings (stem/leaf-bud/air layering) in the main field before onset of monsoon by making pits of size 0.5m x 0.5m dug at a spacing of 3m x 3m. Prior to transplanting refill the pits with soil-manure mixture (1:1) and allow it to settle for few days.
- Vegetable orchard (various):- Make provisions for small drains at required interval in the orchards to drain out excess water. Harvest the matured vegetables and fruits as early as possible. Provide mechanical support to the crops like banana, citrus, papaya etc. to protect them from lodging. Proper sanitation will reduce the infestation of borers and suckers in the vegetable orchards. Destroy the infested fruits whenever came into notice. Burning of dried leaves mixed with dried chilli near the infested orchards will control the pest up to certain extent. Withhold spraying of pesticides during cloudy weather.
- Summer pulses (Physiological maturity):- Mainly green and black gram crops are in podding to maturity stage. The matured crops may be harvested when pods are full darkish colour and brittle on slight pressure. Harvesting should be completed in 2-3 pickings.
- Colocasia (Planting):- April to June is the best planting time for Assam for colocasia as the crop receives sufficient rainfall due to monsoon shower. The best soil is sandy loam or alluvial with abundant organic matter. The land should be ploughed 2-3 times after applying adequate amount of organic manure and wood ash. Small corms or setts cut from large corms may be selected as a planting material.
- Fodder crops (Planting):- Farmers engaged in dairy farming or farmers having livestock as an agricultural component are advised to make provisions for

planting the rooted slips of fodder crops like Napier, Guinea, Setaria, Para etc. at a spacing of 45 cm. These crops can also be raised as intercrop in the arecanut and coconut orchards.

- Livestock (Various):- To protect the goats and sheep from Contagious Ecthyma disease, immunize them at 6-8 weeks of age with vaccines after proper consultation with a veterinary doctor.

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25-05-2021/(0800 to 0827) GMT
25-05-2021/(1330 to 1357) IST

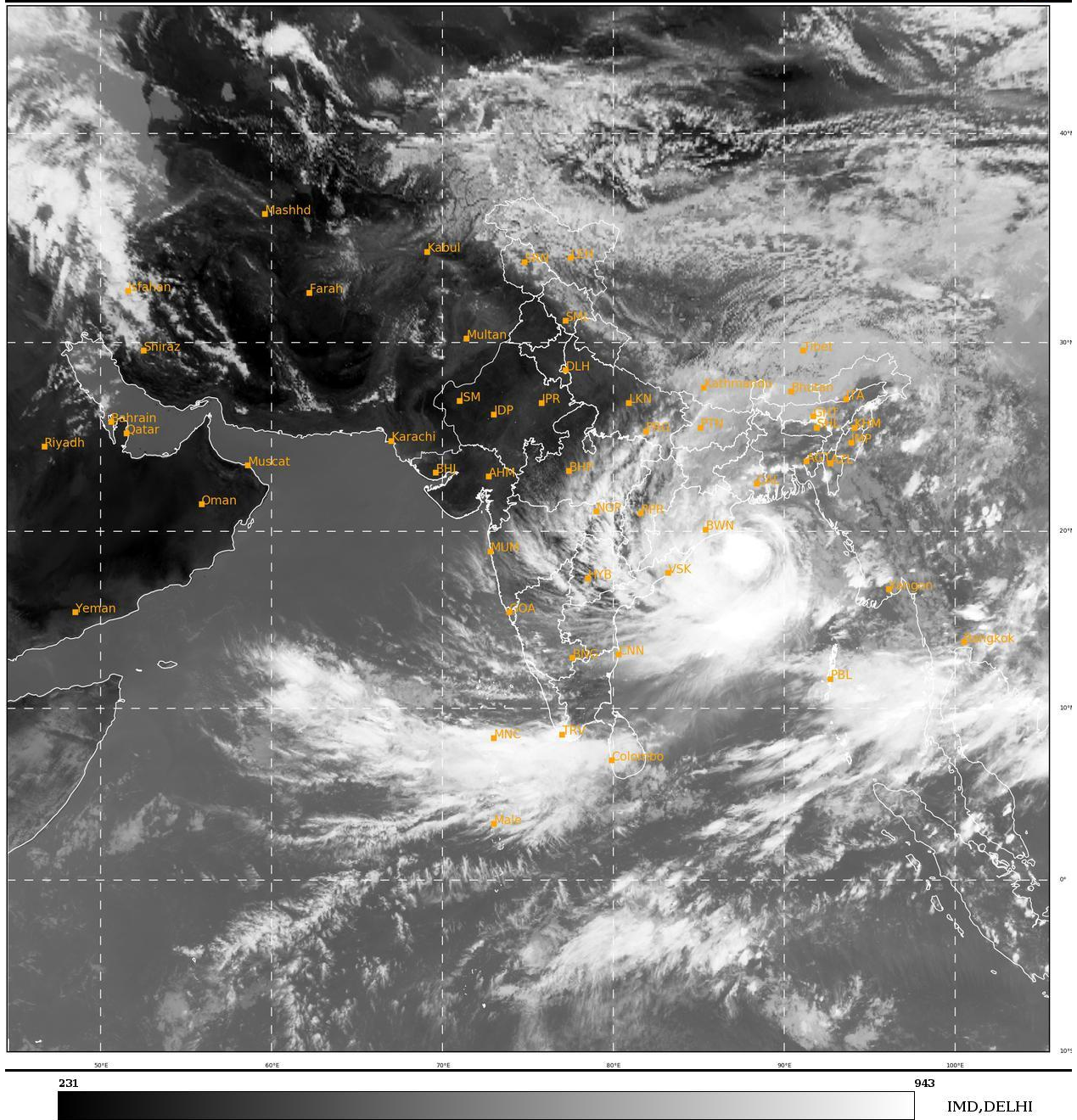


Figure: 1. Latest available satellite picture as on 25 May 2021 at 1357 Hrs (IST). (Source: IMD).

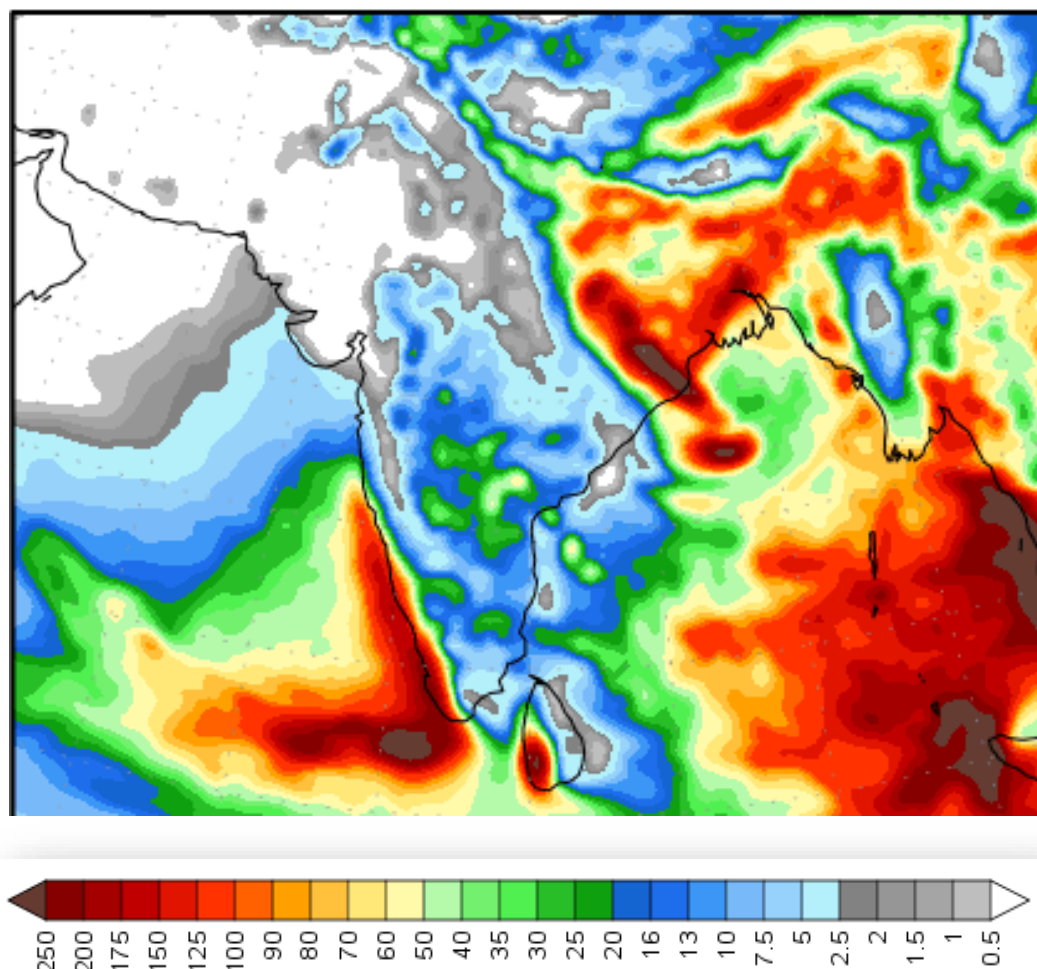


Figure:2. Precipitation forecast for 25 May to 02 Jun 2021 (Source: NOAA NCEP).

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