

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 Jun 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Southwest Monsoon has further advanced into some more parts of south Gujarat region, remaining parts of Maharashtra, Telangana & Andhra Pradesh, some parts of south Madhya Pradesh, Chhattisgarh and south Odisha, remaining parts of central Bay of Bengal and most parts of North Bay of Bengal today, the 10th June, 2021.
- The Northern Limit of Monsoon (NLM) passes through lat. 20.0°N/ Long. 60°E, lat. 20.5°N/ Long. 70°E, Surat, Nandurbar , Betul, Mandla, Bilaspur, Bolangir, Puri, 22.5°N/89.5°E, 24.0°N/89.5°E and Baghdogra.
- Conditions are favourable for further advance of southwest monsoon into some more parts of Gujarat, Madhya Pradesh, remaining parts Chhattisgarh and Odisha, entire West Bengal and Jharkhand and some parts of Bihar and east Uttar Pradesh and remaining parts of north Bay of Bengal during next 48 hours.
- A cyclonic circulation lies over Northwest Bay of Bengal and extends upto mid-tropospheric level. Under its influence, a Low Pressure Area is likely to form over Northwest Bay of Bengal & neighbourhood during next 24 hours. it is likely to become more marked during subsequent 24 hours and move west-northwestwards across Odisha. Under its influence; fairly widespread to widespread rainfall activity with isolated to scattered heavy to very heavy falls very likely over most parts of East India & adjoining Central India from today. Isolated extremely heavy falls (≥ 20 cm) also very likely over Odisha on 11th & 12th; over Chhattisgarh during 11th-13th; over East Madhya Pradesh on 13th; over Vidarbha on 12th & 13th, June 2021.
- Due to the strengthening of westerly winds along the west coast in association with Low Pressure area; widespread rainfall activity with heavy to very heavy falls likely to continue over coastal districts of Maharashtra during 10th to 15th June and likely over coastal Karnataka during 12th to 15th June, 2021. Isolated heavy rainfall is very likely over Kerala during 12th to 15th June, 2021. Isolated extremely heavy falls also very likely over Konkan during 12th to 15th June, 2021.

- Due to west-northwestwards of Low Pressure area & its remnant, fairly widespread to widespread rainfall activity with isolated heavy falls is very likely over northwest India (excluding Rajasthan) during 12th to 14th June, 2021. Isolated very heavy rainfall also very likely over Uttarakhand and Uttar Pradesh on 12th June.
- Ahead of the monsoon onset, fairly widespread thunderstorm activity accompanied by frequent cloud to ground lightning is likely over Madhya Pradesh, Uttar Pradesh, Uttarakhand,, Chhattisgarh, Odisha, Bengal, Jharkhand and Bihar during the next 2 days.
- Heat wave conditions very likely in isolated pockets over south Haryana on 10th and over Northwest Rajasthan on 10th & 11th June.
- 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 Konkan & Goa, Chhattisgarh, Uttarakhand, Andaman & Nicobar Islands, Kerala & Mahe; at many places over Coastal & North Interior Karnataka, East Madhya Pradesh, Vidarbha, Odisha, Marathawada, Sub-Himalayan West Bengal & Sikkim; at a few place over Himachal Pradesh, Lakshadweep, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur and Mizoram, Bihar, Jharkhand, Madhya Maharashtra, East Uttar Pradesh, Coastal Andhra Pradesh, Telangana, South Interior Karnataka and at isolated places over Haryana, West Uttar Pradesh, West Madhya Pradesh, Gujarat state, Rayalaseema and Tamilnadu, Puducherry & Karaikal.
- Heavy to very heavy rainfall at a few places with extremely Heavy falls recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Konkan & Goa; heavy to very heavy rainfall at a few places over Chhattisgarh; at isolated places over Andaman & Nicobar Islands and heavy rainfall at isolated places over Himachal Pradesh,Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Odisha, Jharkhand, Bihar, Madhya Maharashtra, Coastal Andhra Pradesh, Coastal Karnataka, Marathawada, Mizoram, Tripura.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Gangetic West Bengal, Jharkhand, Odisha, Andaman & Nicobar Islands, Jammu & Kashmir, Uttarakhand, Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha, Marathwada, Telangana, Coastal Andhra Pradesh and Konkan & Goa.

- Maximum Temperature Departures as on 09-06-2021: Maximum temperature were markedly above normal (5.1°C and more) most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad appreciably above normal (3.1°C to 5.0°C) at a many places over Himachal Pradesh and Punjab and at isolated places over Haryana, Chandigarh & Delhi, Assam & Meghalaya and Nagaland Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) at many places over Kerala and South Interior Karnataka; at a few places over Coastal Andhra Pradesh, Tamilnadu and Saurashtra & Kutch and at isolated places over Sub-Himalayan West Bengal, They were markedly above normal (-5.1°C and more) at many places over Konkan & Goa, Madhya Maharashtra, Andaman & Nicobar and at isolated places over East Uttar Pradesh, West Madhya Pradesh, Vidharbha and Telangana; appreciably below normal (-3.1°C to -5.0°C) at most places over South Interior Karnataka; at many places over Odisha, Bihar, Chhattisgarh; at a few places over Gangetic West Bengal, Jharkhand, West Rajasthan and at isolated places over Marathwada; below normal (-1.6°C to -3.0°C) at a few places over Rayalaseema and at isolated places over Gujarat State and Assam & Meghalaya near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.8°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 10-06-2021: Minimum temperatures are markedly above normal (5.1°C and more) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Punjab and Haryana, Chandigarh & Delhi and above normal (1.6°C to 3.0°C) at isolated places over Rajasthan, West Madhya Pradesh, west Bengal & Sikkim, Coastal Andhra Pradesh, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. They are appreciably below normal (-3.1°C to 5.0°C) at many places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at most places over Konkan & Goa, Vidarbha, Chhattisgarh and Jharkhand; Marathwada; at a few places over Coastal Karnataka, Andaman & Nicobar Islands; at isolated places over Uttar Pradesh and Telangana and near normal over rest of the country. The lowest minimum temperature of 18.0°C reported at Seoni and Mandla (East Madhya Pradesh) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 10 June (Day 1): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Uttarakhand, Punjab, Haryana,

Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand and Telangana and with lightning at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe. Heat Wave Conditions at isolated places very likely over south Haryana and West Rajasthan. Heavy to Very Heavy Rainfall at isolated places very likely over Chhattisgarh, Odisha, Konkan & Goa and Coastal Andhra Pradesh & Yanam and Heavy Rainfall at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Gujarat Region, Telangana and Coastal Karnataka. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south & central & adjoining north Bay of Bengal ; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea and along & off GujaratMaharashtra coasts. Fishermen are advised not to venture into these areas.

- 11 June (Day 2): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand and Telangana and with lightning at isolated places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe.Heat Wave Conditions at isolated places very likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Chhattisgarh; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over Odisha; Heavy to Very Heavy Rainfall at a few places over Konkan & Goa and at isolated places over East Madhya Pradesh, Vidarbha and Coastal Andhra Pradesh & Yanam and Heavy Rainfall at isolated places over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra (ghat areas), Telangana and Coastal Karnataka. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and

speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

- 12 June (Day 3): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Karnataka. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Chhattisgarh and Konkan & Goa; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over Vidarbha and Odisha; Heavy to Very Heavy Rainfall at a few places over Coastal Karnataka and at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Madhya Maharashtra (ghat areas) and Telangana and Heavy Rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.
- 13 June (Day 4): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe; with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated

places likely over Konkan & Goa; Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh; Heavy to Very Heavy Rainfall at a few places over Coastal Karnataka and at isolated places over West Madhya Pradesh, Jharkhand, Odisha, Madhya Maharashtra (ghat areas), Telangana and South Interior Karnataka and Heavy Rainfall at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, south Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; speed reaching 45-55 kmph over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

- 14 June (Day 5): Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places likely over West Rajasthan. Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places likely over Konkan & Goa; Heavy to Very Heavy Rainfall at a few places over Coastal Karnataka and at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra (ghat areas), South Interior Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over West Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka. Strong Winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along

& off Gujarat-Maharashtra-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

- The weather outlook for seven days i.e., 10 Jun to 18 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)

Eastern U.P

Weather condition:

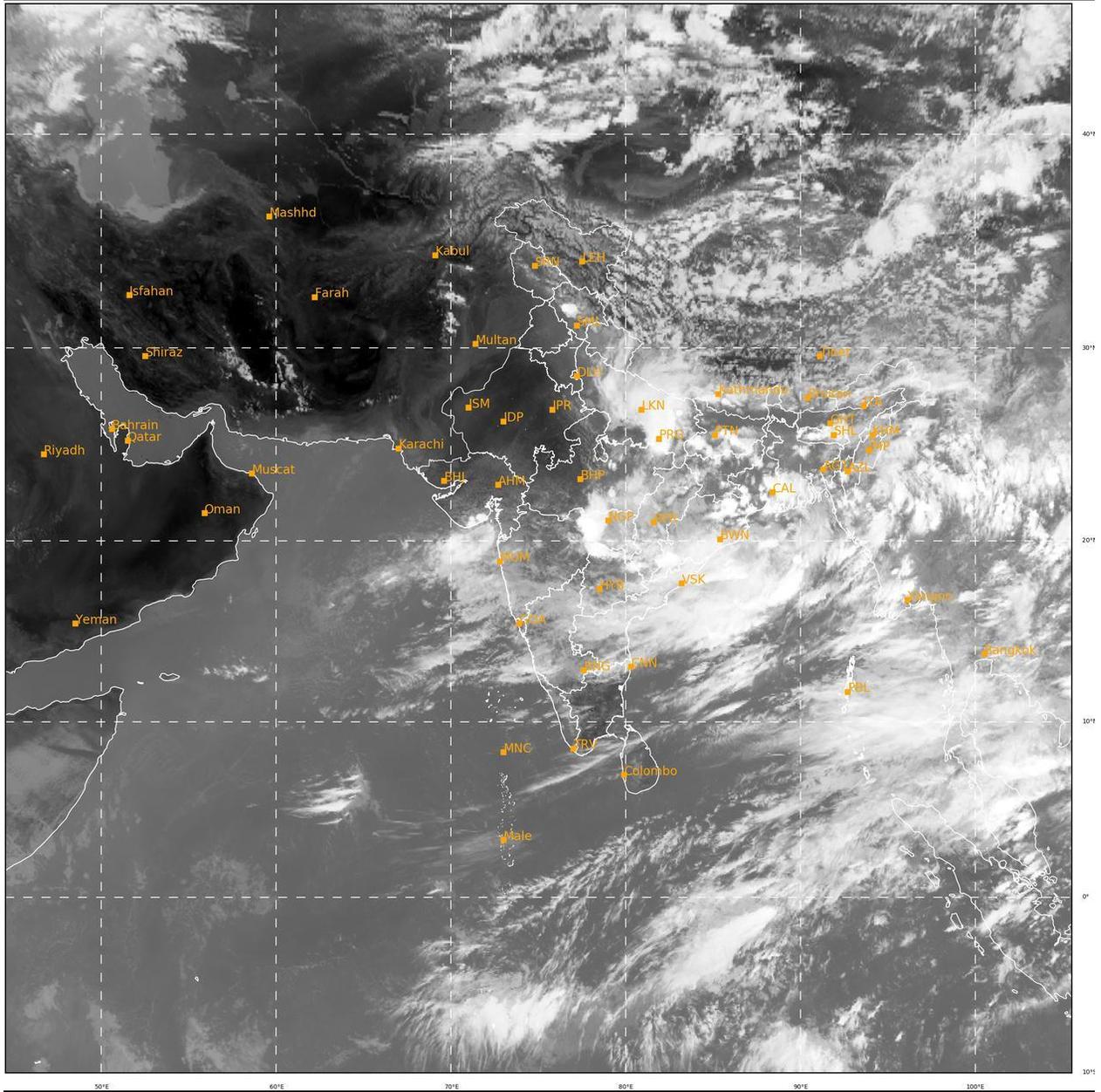
Light to medium rainfall in eastern U.P. of the region, Average temp. was 2-3 degree below the normal.

Contingency measure:

- Looking weather forecast, farmers are advised as in
- Wheat: Storage of wheat grains should be done with leaf of neem at the rate of 1/2 kg/quintal seeds.
- Paddy: Nursery raising of long duration varieties of Paddy such as Swarna, mansuri. Treated seeds should be apply only in nursery raising. Under present weather condition, there is possibility of bacterial blight, hence farmers are advised so that seed should be reaped over night and in next day seed should be free of water and it should be treated with 75 gm thiram or 50 gm carbendazim dissolved in 8 to 10 litre of water and mixed with seeds and allowed to sprout in shade. Under water logged area, they are advised for direct seeding of paddy such as Jalnidhi and Jalmagna (1 mt water level). In the area where 50 to 100 cm water logging, nursery raising of paddy varieties such as Chakiya 59, Jal nidhi and Jal priya. Nursery raising of medium duration varieties such as NDR-359,PantDhan-4 , Malviya dhan 36, NDR-2064.
- Maize: Sowing of long duration varieties of maize such as Ganga-11 and composite variety such as prahhat Pro-316 2. Seed should be treated with 2.5 gm thiram@ 1 kg seed.
- Mung/Urd: There is possibility of yellow mosaic, hence they are advised to spray monochrotophos-50EC or Dmethoate 30 EC.
- Fruit: Digging of pits for new plantation.
- Sugarcane: Top dressing of 50 kg nitrogen(10 kg/urea ha) must be given. Under late sown sugarcane, irrigation must be ensured as well as the interculture operations are advised.

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

10-06-2021/(0800 to 0827) GMT
10-06-2021/(1330 to 1357) IST



199

949

IMD, DELHI

Figure: 1. Latest available satellite picture as on 10 Jun 2021 at 1357 Hrs (IST). (Source: IMD).

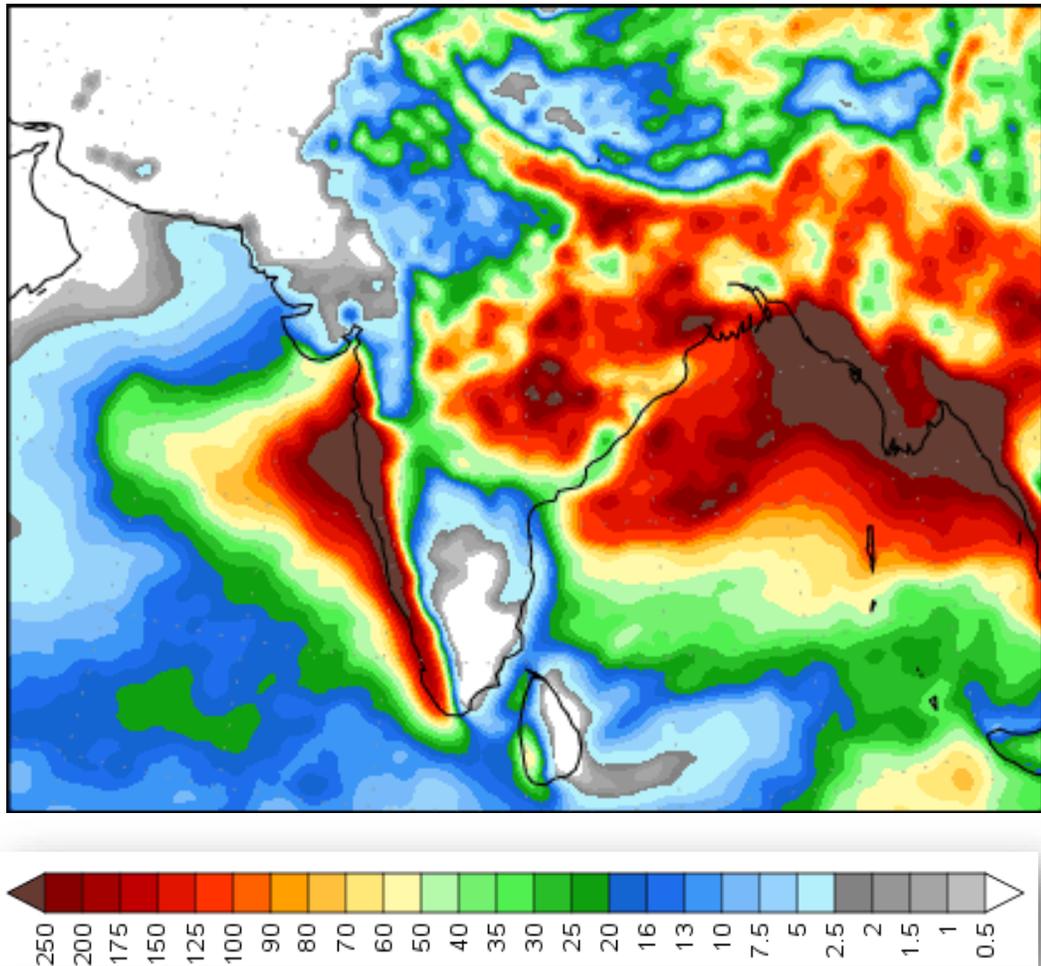


Figure:2. Precipitation forecast for 10 Jun to 18 Jun 2021 (Source: NOAA NCEP).

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