

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 27 Jul 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Low Pressure Area over North Bay of Bengal & neighbourhood with the associated cyclonic circulation extending upto mid tropospheric levels persists. It is very likely to become a Well Marked Low Pressure Area over North Bay of Bengal & adjoining Bangladesh during next 24 hours and slowly move westwards across West Bengal, Jharkhand and Bihar during subsequent 48 hours.
- The Monsoon trough at mean sea level now passes along normal position.
- The cyclonic circulation over northwest Madhya Pradesh & neighbourhood now lies over southern parts of central Uttar Pradesh in the lower levels. Under the influence of these synoptic systems:
- Current spell of Widespread rainfall activity with isolated heavy to very heavy falls very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana and West Uttar Pradesh till 28th July and reduction thereafter. Isolated extremely heavy falls are likely over Himachal Pradesh and Uttarakhand on 27th & 28th July and over northwest Uttar Pradesh on 28th July.
- Fairly widespread to widespread rainfall with isolated heavy to very heavy falls likely over Odisha, Gangetic West Bengal, Jharkhand, and Bihar during 27th-30th July and over East Madhya Pradesh and Chhattisgarh during 29th-31st July. Isolated extremely heavy falls are likely over Gangetic West Bengal on 28th & 29th July, over Jharkhand on 29th July and over Chhattisgarh on 30th July and over East Madhya Pradesh on 31st July.
- Widespread rainfall with isolated heavy to very heavy falls likely to continue over East Rajasthan and West Madhya Pradesh during next 24 hours and reduce thereafter. It is likely to increase from 30 July.
- Fairly widespread to widespread rainfall with isolated heavy falls very likely over Konkan & Goa, Ghat areas of Madhya Maharashtra during next 3 days and increase to isolated heavy to very heavy falls over the region from 29th July.
- 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 Himachal Pradesh, Uttarakhand, Madhya Pradesh, East Uttar Pradesh, Gujarat state, Konkan & Goa, Coastal Karnataka, Kerala & Mahe, Lakshadweep, West Bengal & Sikkim, Arunachal Pradesh, Chhattisgarh; at many places over Haryana, Chandigarh & Delhi, East Rajasthan, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Andaman & Nicobar Islands; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, West Uttar Pradesh, Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Vidarbha; and at isolated places over Uttar Pradesh, West Rajasthan, Telangana, Coastal Andhra Pradesh & Yanam and Marathwada.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely Heavy Rainfall at isolated places over West Madhya Pradesh and East Rajasthan; Very Heavy Rainfall at isolated places over Gujarat Region, Bihar, Punjab and Jharkhand and Heavy Rainfall at isolated places over Haryana, Chandigarh & Delhi, Saurashtra & Kutch, East Uttar Pradesh, West Rajasthan, Himachal Pradesh, West Bengal & Sikkim, Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Gangetic West Bengal; at isolated places over Delhi, Rajasthan, Uttar Pradesh, West Rajasthan, Bihar, Jharkhand, Chhattisgarh, West Madhya Pradesh, Saurashtra & Kutch, Assam & Meghalaya, Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 26-07-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Assam & Meghalaya; above normal (1.6°C to 3.1°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Jharkhand, Telangana, Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema and Gangetic West Bengal; at a few places over Uttar Pradesh, Bihar, Konkan & Goa and Tamilnadu, Puducherry & Karaikal; at isolated places over Rajasthan, Madhya Maharashtra, Kerala & Mahe and North Interior Karnataka. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Madhya Pradesh and at isolated places over Gujarat State; below normal (-1.6°C to -3.0°C) at many places over Himachal Pradesh; at isolated places over Haryana, Chandigarh & Delhi and Andaman & Nicobar

Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 40.0°C was reported at Ganganagar (West Rajasthan).

- Minimum Temperature Departures as on 27-07-2021: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; above normal (1.6°C to 3.0°C) at many places over Bihar, Sub-Himalayan West Bengal & Sikkim, Punjab, Uttarakhand and Coastal Andhra Pradesh & Yanam; at a few places over Assam & Meghalaya, Himachal Pradesh, Rajasthan, East Uttar Pradesh, Saurashtra & Kutch, Odisha, Andaman & Nicobar Islands and at isolated places over Gangetic West Bengal, Telangana and East Madhya Pradesh. They are below normal (-1.6°C to -3.0°C) at isolated places over Gujarat Region and Lakshadweep and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.2°C is reported at Khargone (West Madhya Pradesh).

Weather Warning during the next 5 days (IMD)

- 27 July (Day 1): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Himachal Pradesh and Uttarakhand; Heavy to Very Heavy Rainfall at isolated places over Punjab, Haryana, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and Heavy rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, West Rajasthan, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Odisha, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest & Westcentral Arabian Sea; (speed 45-55 kmph gusting to 65 kmph) very likely over North & Central Bay of Bengal & along & off Odisha-West Bengal coast and Andaman Sea and North Arabian Sea along & off Gujarat coast; (speed 40-50 kmph gusting to 60 kmph) along & off Maharashtra coast. Fishermen are advised not to venture into these areas.
- 28 July (Day 2): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Himachal Pradesh, Uttarakhand, West Uttar

Pradesh and Gangetic West Bengal; Heavy to Very Heavy Rainfall at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Bihar, Jharkhand and Odisha and Heavy rainfall at isolated places over East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest & Westcentral Arabian Sea; (speed 45-55 kmph gusting to 65 kmph) very likely over North & Central Bay of Bengal & along & off Odisha-West Bengal coast and North Arabian Sea along & off Gujarat coast; (speed 40-50 kmph gusting to 60 kmph) along & off Maharashtra coast. Fishermen are advised not to venture into these areas.

- 29 July (Day 3): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Jharkhand and Gangetic West Bengal; Heavy to Very Heavy Rainfall at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, East Madhya Pradesh, Bihar and Odisha and Heavy rainfall at isolated places over Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Konkan & Goa. Thunderstorm accompanied with lightning very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest & Westcentral Arabian Sea; (speed 45-55 kmph gusting to 65 kmph) very likely over Central Bay of Bengal; North Arabian Sea along & off Gujarat coast; (speed 40-50 kmph gusting to 60 kmph) along & off Maharashtra coast. Fishermen are advised not to venture into these areas.
- 30 July (Day 4): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over Chhattisgarh; Heavy to Very Heavy Rainfall at isolated places over East Madhya Pradesh, Jharkhand, Odisha, Assam & Meghalaya, Madhya Maharashtra and Konkan Goa and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Bihar, Gangetic West Bengal, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm

accompanied with lightning very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Bihar, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest & Westcentral Arabian Sea; (speed 45-55 kmph gusting to 65 kmph) very likely over North Arabian Sea along & off Gujarat coast; (speed 40-50 kmph gusting to 60 kmph) along & off Maharashtra coast. Fishermen are advised not to venture into these areas.

- 31 July (Day 5): Heavy to Very Heavy Rainfall with Extremely Heavy Falls at isolated places very likely over East Madhya Pradesh; Heavy to Very Heavy Rainfall at isolated places over East Rajasthan, West Madhya Pradesh, Chhattisgarh, Madhya Maharashtra and Konkan Goa and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, Vidarbha, Odisha and Assam & Meghalaya. Thunderstorm accompanied with lightning very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, East Rajasthan, Bihar, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 50-60 kmph gusting to 70 kmph) very likely over Southwest & Westcentral Arabian Sea; (speed 45-55 kmph gusting to 65 kmph) very likely over North Arabian Sea along & off Gujarat coast; (speed 40-50 kmph gusting to 60 kmph) along & off Maharashtra coast. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 27 Jul to 04 Aug 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:

Heavy Cloud coverage in the atmosphere during this week and possibility of medium to heavy rainfall from 21 to 25 July. Maximum and minimum temperature may be 1-20C higher to its normal. South- Easterly / Westerly winds may be prevailing 6.3 to 11.3 km/hr which is 3-4 kmph higher to its normal during this week.

Contingency measure:

- Paddy:150 mm rainfall forecast during this week farmers are advised transplantation of rice should be taken up regularly. Nursery raised to short duration rice viz; Govind, Manhar, Narandra-80, NDR-97,Pant-12, IR-50, Ashwani, Shakat -4, and Baranideep, for SRI method of rice planting. Seed should be treated with Streptocycline 4.0 g with 45 lt. water for 35 kg seed for the control of Bacterial blight. Frequent irrigation should be given to rice nursery in the morning and hot water should be drain out at evening. 2.0% solution of Nitrogen and potash should be sprayed after 15 days in light soils on standing crop in nursery.
- Maize:Weeding, thinning and earthing should be taken up and drain out excess water.
- Sorghum: After 25 July sowing of sorghum treated with 2.5 g Thiram or 2.0 g Agro-san G.N @ 3.0 g /kg of seed. Composite varieties like Varsha, CSV-13,15, SPB -1388, Vijeta and Hybrid varieties CSH-16, 9, 14, 18, 13 and CSH-23 should be used for sowing. To ensure good stand, 12-15 kg seed/ ha. should be sown in rows 45 cm apart into depth of 3-4 cm. The seed should be purchased from a reliable source . Drain out excess water.
- Pearl millet:After 25 July farmers are advised to sowing of pearl millet . The pearl millet composite varieties such as ICMB-155, WCC-75, ICTP-8203, Raj-171, NDFB-3 and hybrid varieties such as Pusa-322, Pusa-23 and ICMH-451 are more suitable for this time. With 4.0 to 5.0 kg/ha treated seed. Drain out excess water.
- Pegionpea:After 25 July farmers are advised to Sowing of long duration varieties seed such as Bahar, Amar, Narendra Arhar-1, Azad, Pusha-9 , PDA-11, ML-6, MAN-13 and Narendra Arhar-2 should be treated with Rhizobium culture and Fungicide. Drain out excess water. Black gram:After 25 July farmers are advised to Sowing should be done with varieties like Uttra, Pant U-35, Narendra U-1, Pant U-30, Azad U-2, Shekar-1, Shekar-2, Azad U-3 , WBU-108, Shekar-3 and Pant U-31. Drain out excess water.

- Green gram:After 25 July farmers are advised to sowing of green gram varieties i.e. Pant moong-1, 3, 4, Narendra moong-1, 4, PDM-11, Malveeya jyoti, Samrat, Malveeya janchetna, Malveeya janpriya, Malveeya jagrati,Asha, Meha, MH-2-15,and TM-9937. Drain out excess water.
- Ground nut:After 25 July farmers are advised to Sowing of short duration varieties like TG-37A, CSMG-84-1, CSMG-884, G-201and MA-10 with 70-75 kg/ha treated seed with 50 cm apart line sowing using 20:30:45 NPK and 250 kg Zypsum and 4.0 kg Boron /ha. Drain out excess water.
- Brinjal / Chilies:Picked up mature fruits on standing crop and spray 2% Neem oil solution against Fruit borer. Transplanting of Kharif seedlings should be done. Drain out excess water.
- MP Chari / Mucchari /Pearl-millet:Cutting should be done at knee height. Kharif sowing of SSG-988-898, PC-23 ,SSG-59 -3 and MP chari @ 30-40 kg seeds /ha. Sowing of Pearl-millet varieties such as Raj-171, L-72 and L-74 should be done.
- Animal:Bathing should be taken up at morning and evening before milking. Drinking water should be given thrice a day. Balanced diet should be given for milch animal and Vaccination against Foot and Mouth disease and approach Veterinary hospital if needed.

27-07-2021/(0830 to 0857) GMT
27-07-2021/(1400 to 1427) IST

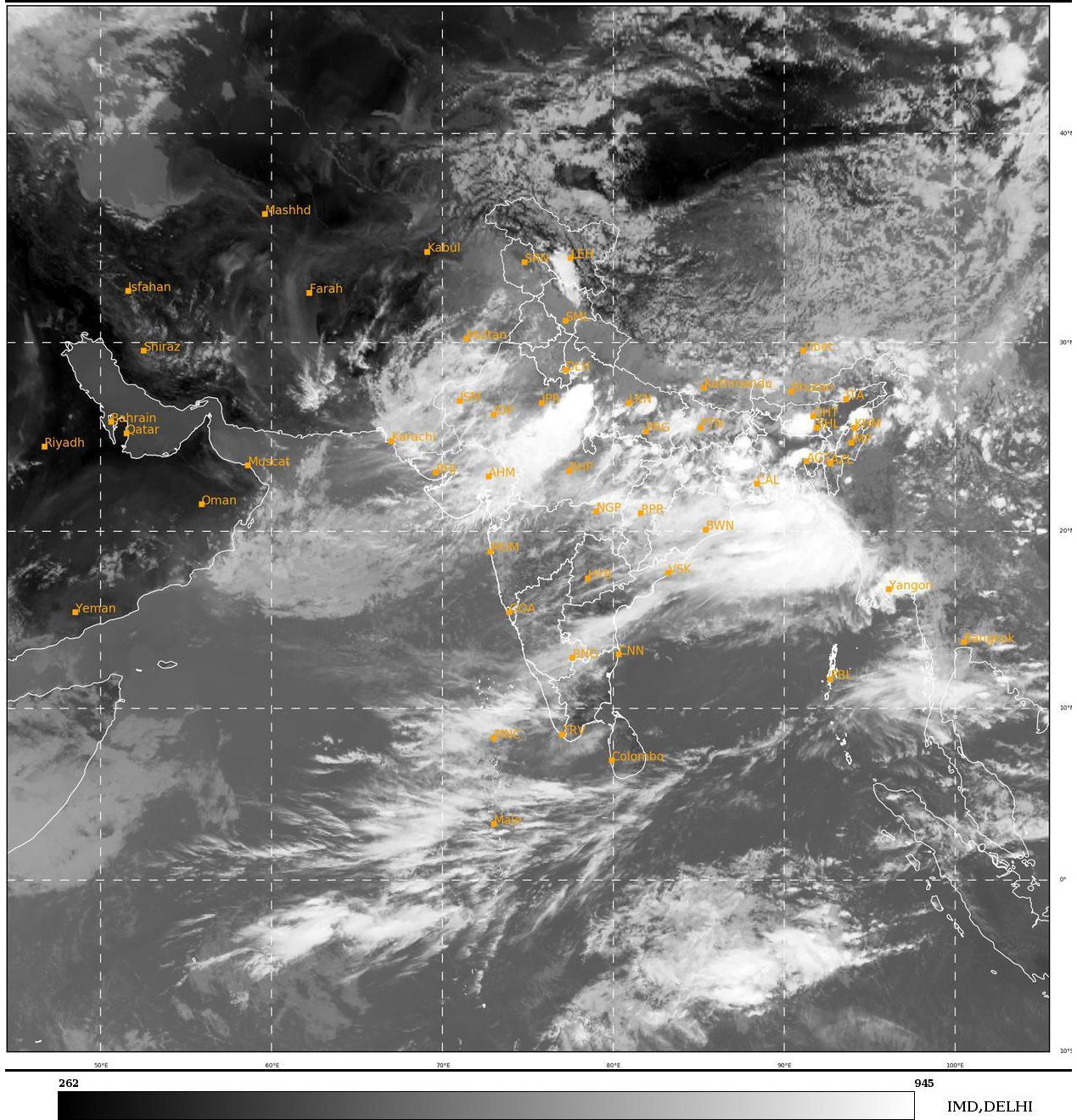


Figure: 1. Latest available satellite picture as on 27 Jul 2021 at 1427 Hrs (IST). (Source: IMD).

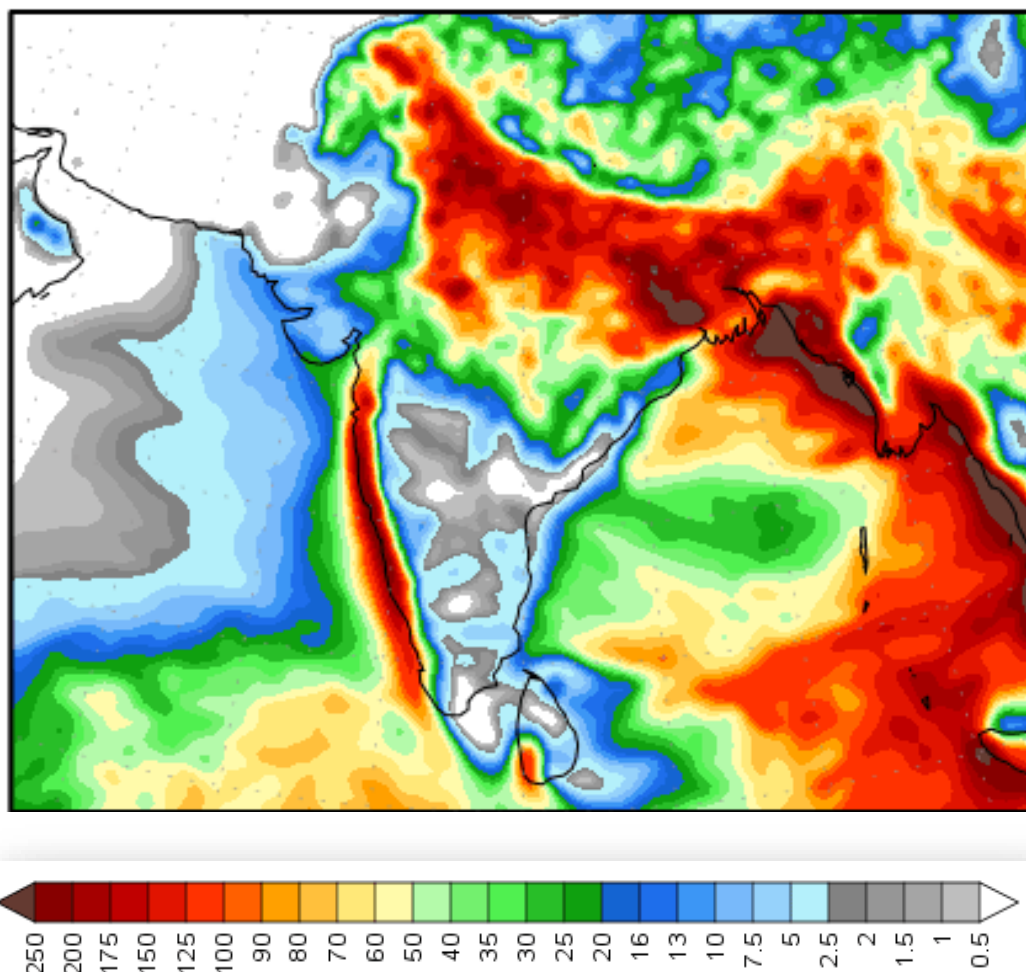


Figure:2. Precipitation forecast for 27 Jul to 04 Aug 2021 (Source: NOAA NCEP).

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