

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 17 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low Pressure Area lies over Southeast & adjoining Southwest Bay of Bengal with the associated cyclonic circulation extending upto 5.8 km above mean sea level. It is likely to move nearly westwards and reach Westcentral & adjoining Southwest Bay of Bengal off south Andhra Pradesh- north Tamilnadu coasts by tomorrow, the 18th November 2021.
- Another Low Pressure Area lies over Eastcentral Arabian Sea off Goa-south Maharashtra coasts and the associated cyclonic circulation extends upto 5.8 km above mean sea level. It is likely to move west-northwestwards and become more marked during next 48 hours.
- A trough runs from the cyclonic circulation associated with low pressure area over Eastcentral Arabian Sea off Goa-south Maharashtra coasts to south Gujarat coast across north Maharashtra coast in lower tropospheric level. Another trough runs from the cyclonic circulation associated with the low pressure area over Southeast & adjoining Southwest Bay of Bengal to south Tamil Nadu coast in lower and middle tropospheric level. Rainfall warning:
 - Light to moderate rainfall at most places with heavy rainfall at isolated places very likely over Rayalaseema, Tamilnadu and Coastal Andhra Pradesh during next 4 days; over Kerala & Mahe during next 3 days and over coastal Karnataka during next 2 days.
 - Isolated heavy to very heavy rainfall very likely over Tamilnadu and Coastal Andhra Pradesh on 17th & 19th; over Rayalaseema on 19th and isolated heavy to very heavy rainfall with extremely heavy falls also likely over Rayalaseema, south Coastal Andhra Pradesh and adjoining north Tamilnadu on 18th November, 2021.
- Wind warning:
 - Bay of Bengal: Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Westcentral & adjoining Southwest Bay of Bengal, along & off south Andhra Pradesh-north Tamilnadu coasts during 17th-19th November, 2021.
 - Arabian Sea: Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Eastcentral Arabian Sea along & off Maharashtra coast on 17th & 18th

and over Westcentral & adjoining Eastcentral Arabian Sea on 19th - 21st November, 2021.

- Fishermen are advised not to venture into the above areas
- 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 Andaman & Nicobar Islands, Karnataka, Kerala & Mahe; at many places over Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Lakshadweep; at a few places over Madhya Maharashtra and Telangana and at isolated places over Arunachal Pradesh, Odisha, Marathawada and Chhattisgarh.
- Heavy Rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy rainfall at isolated places over Coastal Karnataka, Tamilnadu, Kerala and Rayalaseema.
- Fog observed at 0830 hours IST of today: Shallow fog in isolated pockets over Punjab, Delhi, East Rajasthan, East Uttar Pradesh, Jharkhand and Chhattisgarh. Visibility (500 metre or less): Ambikapur-200; Amritsar, Delhi-Safdarjung, Kanpur, Kota, Fursatganj, Varanasi and Jamshedpur-500 each.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- Minimum Temperature Departures as on 17-11-2021: Minimum temperatures are markedly above normal (5.1°C or more) at most places over Marathwada; at many places over Telangana and Madhya Maharashtra; at a few places over Vidarbha; at isolated places over Gujarat state; appreciably above normal (3.1°C to 5.0°C) at many places over Chhattisgarh; at a few places over Coastal Andhra Pradesh & Yanam and Odisha; at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Interior Karnataka and Rayalaseema; at many places over Tamilnadu, Puducherry & Karaikal and Jharkhand. They are appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi; at a few places over East Rajasthan; at isolated places over West Rajasthan and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Gangetic West Bengal; at isolated places over Himachal Pradesh, Punjab and Uttar Pradesh and near normal over rest

parts of the country. Today, the lowest minimum temperature of 5.2°C reported at Sikar (East Rajasthan) over the plains of the country.

- Maximum Temperature Departures as on 16-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at a few places over Konkan & Goa and Telangana; at isolated places over Rayalaseema and Tamilnadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over East Rajasthan; at isolated places over Gangetic West Bengal, Odisha and Andaman & Nicobar Islands; below normal (-1.6°C to -3.0°C) at most places over Haryana, Chandigarh & Delhi, West Madhya Pradesh East Uttar Pradesh and Coastal Karnataka; at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan and Lakshadweep; at a few places over Himachal Pradesh, East Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Bihar, Sub-Himalayan West Bengal & Sikkim, North Interior Karnataka and Kerala & Mahe; at isolated places over Punjab, West Uttar Pradesh, Madhya Maharashtra and Gujarat state and near normal at rest parts of the country. Yesterday, the highest maximum temperature 37.1°C was reported at Ratnagiri (Konkan & Goa).

Weather Warning during the next 5 days (IMD)

- 17 November (Day 1): Heavy to very heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu and Heavy rainfall at isolated places over Rayalaseema, Coastal Karnataka and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Maharashtra, Konkan & Goa, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Telangana, Coastal & South Interior Karnataka and Coastal Andhra Pradesh & Yanam. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Westcentral & adjoining Southwest Bay of Bengal along & off south Andhra Pradesh-north Tamilnadu coasts and over Eastcentral Arabian Sea along & off Maharashtra coast. Fishermen are advised not to venture into these areas.
- 18 November (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Rayalaseema, south Coastal Andhra Pradesh and north Tamil Nadu and Heavy rainfall at isolated places over Coastal & South Interior Karnataka, Kerala & Mahe and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over Gujarat state, West Madhya Pradesh, Rajasthan, Madhya Maharashtra, Konkan & Goa, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Coastal & South Interior Karnataka and Coastal Andhra Pradesh & Yanam. Strong winds (speed

reaching 40-50 kmph gusting to 60 kmph) very likely over Westcentral & adjoining Southwest Bay of Bengal along & off south Andhra Pradesh-north Tamilnadu coasts and over Eastcentral Arabian Sea along & off Maharashtra coast. Fishermen are advised not to venture into these areas.

- 19 November (Day 3): Heavy to very heavy rainfall very likely at isolated places over Tamil Nadu, Coastal Andhra Pradesh & Yanam and Rayalaseema and heavy rainfall at isolated places over Kerala & Mahe, Telangana and Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Gujarat state, West Madhya Pradesh, Rajasthan, Madhya Maharashtra, Konkan & Goa, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Karnataka and Coastal Andhra Pradesh & Yanam. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Westcentral & adjoining Eastcentral Arabian Sea; Southwest & adjoining Westcentral Bay of Bengal along & off north Tamilnadu-south Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.
- 20 November (Day 4): Heavy rainfall likely at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Rayalaseema and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Madhya Maharashtra, Konkan & Goa, Marathawada, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Karnataka and Coastal Andhra Pradesh & Yanam. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) likely over Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 21 November (Day 5): Thunderstorm accompanied with lightning likely at isolated places over Madhya Maharashtra, Konkan & Goa, Marathawada, Telangana, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema, Karnataka and Coastal Andhra Pradesh & Yanam. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) likely over Westcentral & adjoining Eastcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 17 Nov to 25 Nov 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)

Jammu

Weather condition:

Mainly clear weather prevailed during this week. The maximum temperature remains variable and remains in the range of 26.8 to 29.6 0C, while minimum temperature was recorded in the range of 10.0 to 11.0 0C which was above normal by 1 to 2 0C. The morning and evening relative humidity was observed in the range of 78 to 93 % and 32 to 35%, respectively. The total evaporation observed 34.2 mm and sunshine in the range of and 6.2 to 8.7 hrs during this period.

Contingency measure:

- Wheat: Rainfed Land preparation / Sowing Sowing of wheat (var. PBW-175, PBW-396, RSP-81(Jitto), WH-1080 and PBW-644 is recommended.
- Rice: Basmati (late transplanted) Harvesting/ Post harvest Harvesting of basmati rice is recommended at 80 per cent grains in panicle turning golden colour. Dry paddy sheaves well in field for 2-3 days before threshing. Sun dry grains after threshing in the open to reduce moisture to 10-12% for storage. Clean the Godowns by removing all the grains and other debris of previously stored crop.
- Oilseed: Toria Gobi sarson Mustard (Irrigated) Flowering Vegetative Sowing/ Emergence/6th leaf Postpone irrigation due to sufficient soil moisture. Farmers are advised to go for thinning, hoeing & weeding of crop. Farmers are advised to complete the sowing of mustard (RSPR-01, RSPR-03, Kranti, Pusa Bahar, Pusa Basant, Varuna) during this week. Treat the seed with captan or thiram @ 3g/kg seed before sowing for management of alternaria blight, white rust and downy mildew. Apply whole quantity of phosphorus, potassium, sulphur and half of nitrogen at the time of sowing. Hoeing and weeding in 15-20 days old crop is recommended.
- Rabi pulses: (Chickpea/Pea/ Lentil) Land preparation/ Sowing Complete the sowing of Pea (var., AP-1, Bonnevillea, Rachna and Arkel); Chickpea (var., K-468, Gourav); Lentil(var., L-4147, L-9/12,PL-406) if the sowing is not done earlier,. Treat the seed with fungicides (Captan or Thiram) @ 2.0 gm/ kg of seed as well as with crop-specific Rhizobium culture.
- Vegetables: Cole/exotic crops Leafy vegetables Potato Radish/turnip/ carrot early vegetative vegetative/ first cut Sowing 3-4 leaves Give irrigation as per requirement of crop. Transplanting of cole crops is recommended (knol khol, cabbage, cauliflower, broccoli, Chinese cabbage & red cabbage). Give shallow hoeing, weeding and hoeing to crops like spinach, coriander and fenugreek after

first cut and apply urea @ 1kg/kanal. Sowing of Potato (var. Kufri Badshah, K.Sinduri, K.Chipsona & K.Sona) may be taken up. Weeding & hoeing as well as earthing up is recommended. Apply urea @ 1-1.5 kg/kanal. Spray malathion/cypermethrin @ 1ml/ltr water for management of saw fly.

- Fodder: (Berseem) Irrigated Sowing/early vegetative Top dressing with urea is recommended.
- Floriculture: Chrysanthemum Winter season annuals Gladiolus/ Ornithogalum Rose Marigold Bud initiation Seedlings Vegetative Post flowering Flowering Give irrigation as per requirement Hoeing and irrigation, once a week is recommended. Transplant seedlings (2 leaf stage) of winter season annuals into main field. Give hoeing to 20-25 days old crop. Irrigation at fortnightly interval is recommended. Pruning is recommended to remove old flowering shoots so as to enhance the growth of new shoots. Hoeing and irrigation as per requirement of crop.
- Horticulture: Citrus Mango Guava Young Bearing Bearing Remove the water suckers and keep the area clean.. Remove the tying material from bud/graft union. Cultivate land between plants to loosen soil and kill different insect pests. Spray 2% carbaryl in citrus to check fruit sucking moth. Spray 2,4-D @ 10ppm in citrus to check pre harvest fruit drop. Spray zinc sulphate @ 3gm/ltr of water, if zinc deficiency is observed. Spray copperoxychloride @3gm/ltr in mango to control anthracnose/die back. Drench guava basin with carbendazim @ 1gm/ltr of water in wilt affected orchards.
- Oyster Mushroom: Button mushroom Fruiting Compost preparation Book the spawn. Maintain temperature +20C in the cropping room. Spray malathion 0.01% and chlorothalonil 0.05% at weekly intervals for insect pest control. Compost preparation may be started in the plains of jammu. Book spawn from a reliable laboratory. Clean and sterilize the cropping room.
- Sericulture: Mulberry Cocoon crop Tree plantation Chawki / late age rearing Individual leaf plucking for feeding of silkworms should be resorted without damaging the branches/ twigs of the mulberry tree. Appropriate leaf as per the age of the silkworm should be fed four times a day with a interval of four hours gap. Proper care should be taken during moulting. Windows of the rearing rooms should be kept open for allowing cross ventilation.
- Apiculture: Give artificial sugar feeding in the ratio of 2:1. Spray chloropyriphos around boxes of apiary for protection from termites or put the leg of these beehives stand in water pot. Reduce wasp attack by reducing the entrance of hives, destruction of wasp nest giving baits.

- Live stock: Dairy animals, Sheeps and Goats Give Calcium as supplement in the diet of dairy animal as rice straw feeding leads to depletion of Ca levels in the blood thereby reduces milk yield and general health condition.
- Fisheries: Fingerlings Apply regular supplementary feed on daily basis @ 3-5% of total fish biomass in the pond. Liming @ 300kg/ha/yr & manuring @ 10,000kg/ha/yr can done.
- Poultry: There should be a good source of light and heat. Proper hygiene should be maintained. Proper ventilation should be there. There should not be hurdling of chicks, maintain the temperature of 37°C. Vaccinate the chicks against infectious bursal disease (IBD, Gumbroo) disease. Deworm the birds. *Cover face with thick cloth or wear mask and maintain social distance while doing agricultural operations in field

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

17-11-2021/(0800 to 0827) GMT
 17-11-2021/(1330 to 1357) IST

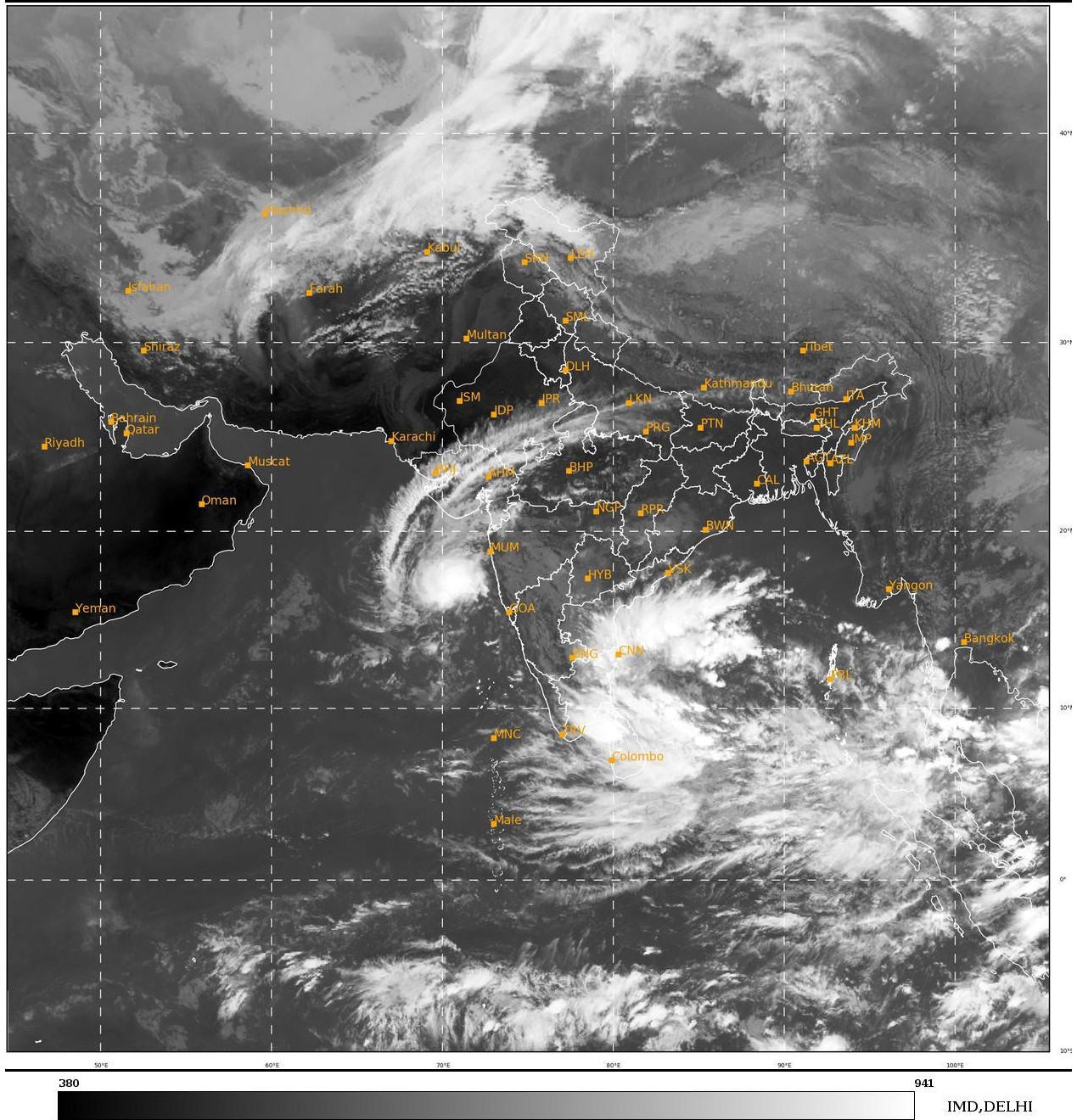


Figure: 1. Latest available satellite picture as on 17 Nov 2021 at 1357 Hrs (IST). (Source: IMD).

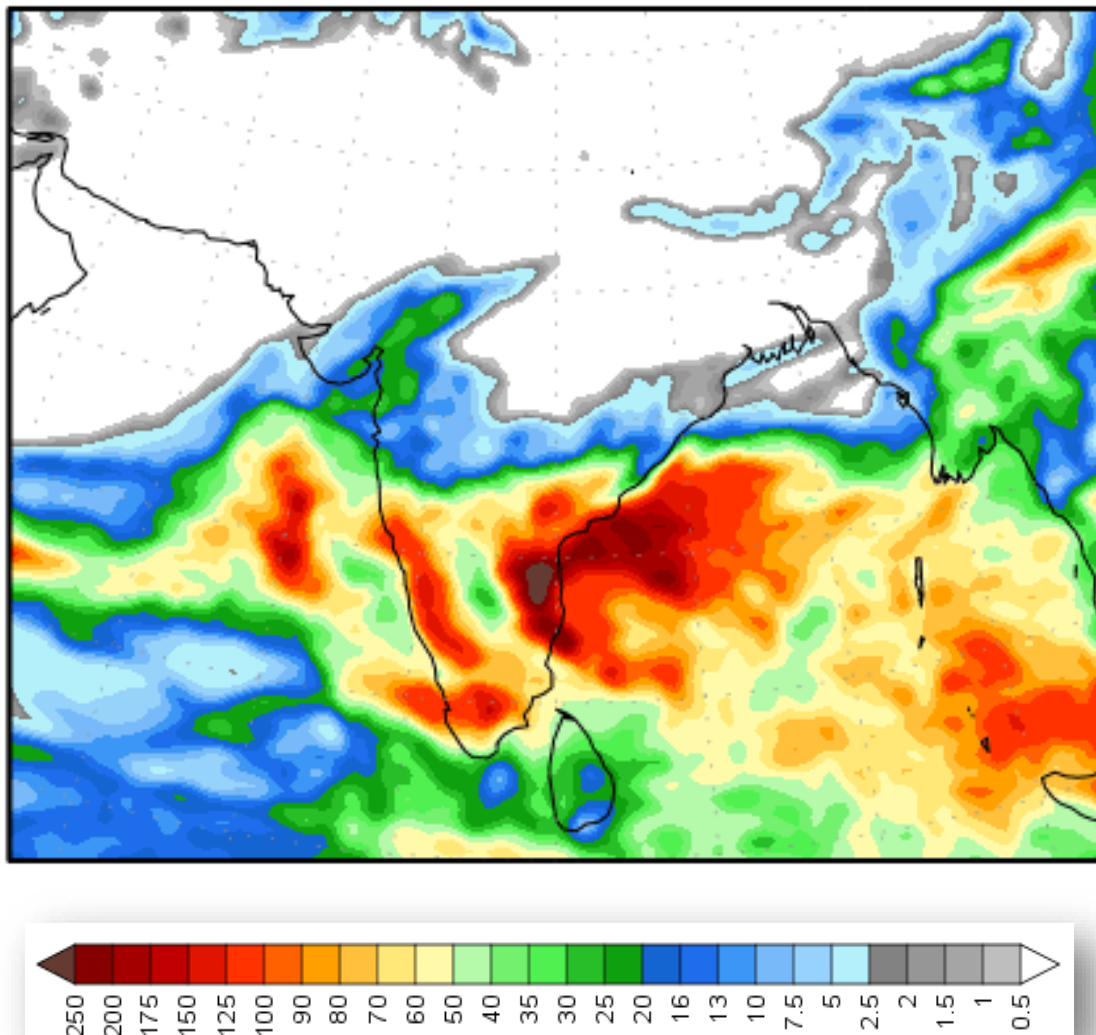


Figure:2. Precipitation forecast for 17 Nov to 25 Nov 2021 (Source: NOAA NCEP).

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