

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 15 November 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Low Pressure Area lies over north Andaman Sea & neighbourhood. It is likely to move west-northwestwards and become well marked over Eastcentral & adjoining Southeast Bay of Bengal during next 48 hours. Thereafter it is likely to continue to move nearly westwards and reach Westcentral & adjoining Southwest Bay of Bengal off south Andhra Pradesh- north Tamilnadu coasts on 18th November 2021.
- A cyclonic circulation lies over eastcentral & adjoining southeast Arabian Sea off Karnataka- north Kerala coasts and extends upto mid tropospheric level. Under its influence, a Low Pressure Area is likely to form over Eastcentral Arabian Sea off south Maharashtra coasts during next 24 hours. It is likely to move west-northwestwards and become more marked during the subsequent 48 hours. Rainfall warning:
- 15th Nov: Light to moderate rainfall at most places with heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, heavy to very heavy rainfall at isolated places over coastal & South Interior Karnataka & adjoining north Kerala, Tamilnadu, Puducherry & Karaikal and heavy falls at isolated places over south Coastal Andhra Pradesh, Rayalaseema and south Konkan & Goa.
- 16th Nov: Light to moderate rainfall at most places with heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, coastal & South Interior Karnataka & adjoining north Kerala, Tamilnadu, Puducherry & Karaikal, south Coastal Andhra Pradesh and south Konkan & Goa.
- 17th Nov: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places very likely over south coastal Andhra Pradesh and north coastal Tamil Nadu and heavy rainfall at isolated places over Coastal & south Interior Karnataka and Rayalaseema.
- 18th Nov: Light to moderate rainfall at most places with heavy to very heavy rainfall at isolated places very likely over south coastal Andhra Pradesh and north coastal Tamil Nadu and heavy rainfall at isolated places over Coastal & south Interior Karnataka, Telangana and Rayalaseema. 19th Nov.: Light to moderate

rainfall at most places with heavy rainfall at isolated places very likely over south coastal Andhra Pradesh and north coastal Tamil Nadu and Coastal & south Interior Karnataka.

- Fishermen Warning:
- Fishermen are advised not to venture into Andaman Sea & adjoining southeast Bay of Bengal on 15th, east-central & adjoining southeast Bay of Bengal during 16th - 17th November and into west-central & adjoining southwest Bay of Bengal and along & off south Andhra Pradesh - north Tamil Nadu coasts on 18th November 2021.
- Fishermen are advised not to venture into east-central & adjoining southeast Arabian Sea along & off Karnataka - north Kerala coasts on 16th, east-central Arabian Sea along & off Goa - south Maharashtra coasts on 16th & 17th and into east-central Arabian Sea along & off Maharashtra coast on 18th November 2021.
- 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 Gangetic West Bengal, Andaman & Nicobar Islands, Coastal & South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal; at many places over Odisha, Coastal Andhra Pradesh & Yanam, Rayalaseema and Lakshadweep; at a few places over Jharkhand, Telangana, North Interior Karnataka and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa and Madhya Maharashtra.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Very heavy rainfall at isolated places over Kerala & Mahe and Coastal & South Interior Karnataka and Heavy Rainfall at isolated places over Coastal Andhra Pradesh & Yanam and Telangana.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over West Madhya Pradesh, Odisha, Tamilnadu, Puducherry & Karaikal, Konkan & Goa, Rayalaseema, Kerala & Mahe and Coastal & South Interior Karnataka.
- Fog observed (at 0830 hours IST of today): Dense Fog in isolated pockets over Chhattisgarh; Moderate fog in isolated pockets over East Uttar Pradesh and Bihar and Shallow Fog in isolated pockets over Punjab, Odisha, Mizoram and Tripura.

- Visibility recorded (at 0830 hours IST of today)(500 m or Less): Chhattisgarh: Ambikapur-50; East Uttar Pradesh: Kanpur-200 and Fursatganj-500; Bihar: Gaya-200; Punjab: Amritsar and Ludhiana-500 each; Odisha: Puri-500; Mizoram: Aijal-500; Tripura: Agartala and Kailasahar-500 each.
- Maximum Temperature Departures as on 14-11-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Tamilnadu, Puducherry & Karaikal; at isolated places over East Madhya Pradesh, Saurashtra & Kutch and Telangana. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Kerala & Mahe; at a few places over Nagaland, Manipur, Mizoram & Tripura and Coastal Karnataka and at isolated places over East Uttar Pradesh and Odisha; below normal (-1.6°C to -3.0°C) at most places over East Rajasthan, Gangetic West Bengal, Jharkhand and Lakshadweep; at many places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad; at a few places over Bihar, West Madhya Pradesh and Andaman & Nicobar Islands and at isolated places over Rayalaseema and near normal at rest parts of the country. Yesterday, the maximum temperature 36.6°C was reported at Mumbai SCZ (Konkan & Goa).
- Minimum Temperature Departures as on 15-11-2021: Minimum temperatures are markedly above normal (5.1°C or more) at many places over Vidarbha and Madhya Maharashtra and at a few places over Marathwada, Telangana and Chhattisgarh; appreciably above normal (3.1°C to 5.0°C) at most places over Rayalaseema; at many places over Coastal Andhra Pradesh & Yanam and Interior Karnataka; at a few places over Jharkhand and Odisha and at isolated places over Konkan & Goa, Coastal Karnataka and East Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Tamilnadu, Puducherry & Karaikal and West Bengal & Sikkim. They are markedly below normal (-5.1°C or less) at isolated places over East Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at a few places over Saurashtra & Kutch, Haryana, Chandigarh & Delhi and West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at a few places over Uttar Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of 7.6°C is reported at Churu (West Rajasthan) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 15 November (Day 1): Heavy to very heavy rainfall very likely at isolated places over Coastal & South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal

and Kerala & Mahe and Heavy rainfall at isolated places over Andaman & Nicobar Islands, Goa, Coastal Andhra Pradesh & Yanam and Rayalaseema. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Maharashtra, Konkan & Goa, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Coastal & South Interior Karnataka. Cold wave conditions very likely in isolated pockets over East Rajasthan. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Andaman Sea & adjoining southeast Bay of Bengal; Southeast & eastcentral Arabian Sea along & off Kerala-Karnataka coasts. Fishermen are advised not to venture into these areas.

- 16 November (Day 2): Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka, Goa, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. Thunderstorm accompanied with lightning very likely at isolated places over Madhya Maharashtra, Konkan & Goa, Marathawada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Karnataka. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Eastcentral & adjoining Southeast Bay of Bengal and Andaman Sea and over Eastcentral & adjoining Southeast Arabian Sea along & off north Kerala-Karnataka-Goa-south Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 17 November (Day 3): Heavy to very heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Coastal & South Interior Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Gujarat state, Madhya Maharashtra, Konkan & Goa, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Karnataka. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) very likely over Eastcentral & adjoining Southeast Bay of Bengal and over Eastcentral & adjoining Southeast Arabian Sea along & off Goa-south Maharashtra coasts. Fishermen are advised not to venture into these areas.
- 18 November (Day 4): Heavy to very heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Coastal & South Interior Karnataka and Telangana. Thunderstorm accompanied with lightning likely at isolated places over Gujarat state, Madhya Maharashtra, Konkan & Goa,

Telangana and Tamil Nadu, Puducherry & Karaikal. Strong winds (speed reaching 40-50 kmph gusting to 60 kmph) 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 5): Heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Gujarat state, Madhya Maharashtra and Konkan & Goa
- The weather outlook for seven days i.e., 15 Nov to 23 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)

Assam

Weather condition:

Weather during the week was clear. The daily average maximum temperature was 29.6°C which is 0.8 degree above normal and the average daily minimum temperature was 14.5°C which is 2.6 degree below normal for the week. Total BSSH was 59.1 hrs only with an average of 7.0 hrs. The daily average evaporation and wind speed was 2.2 mm and 1.3 km/hr respectively. The daily average RH during morning and afternoon was 96.0% and 55.2% respectively.

Contingency measure:

- Sali rice: Taking advantage of fair weather, spraying of organic pesticides like NeemAzal (@ 10 ml/l of water) or Neem Seed Kernel Extract (NSKE) (@ 3-5 gm/l of water) is recommended against moderate infestation of Rice Bug in sali rice crop which is at milk stage. Holding fires around the field at night also reduces the bugs population. Crops which have matured may be harvested as prevailing sunny and dry weather condition is favorable for harvesting of the Sali rice crop. Moreover, farmers are suggested to harvest the Sali rice at proper time to enable sowing or planting of Rabi crops in the same field in time.
- Potato: Farmers are advised to continue land preparation followed by planting of potato tubers in the field. It is advisable to collect seeds of recommended varieties of potato like Kufri Chandramukhi, Kufri Jyoti, Kufri Megha, Kufri Sindhuri, Kufri Pukhraj etc. Application 3-4 carts of FYM along with 19 kg Urea, 45 kg SSP

and 12 kg MOP per bigha in the furrows before planting is suggested. To avoid the problem of red ant, cut worm etc. in the field, application of Thimet 10 G @ 2 kg/bigha of land is recommended.

- Rabi Maize: Light hoeing is to be given as and when necessary for better control of the weeds in Maize crop field. During seedling stage attack of cut worm may be observed in Maize. To control this pest apply Malathion 5% dust @ 3.4kg per bigha and mix thoroughly in the soil.
- Rapeseed (land preparation and sowing): Land preparation followed by sowing of seeds may be continued for rapeseed and mustard cultivation as early sowing helps in escaping the attack of aphids. During the time of final land preparation, apply 3-4 quintals of FYM, 12kg Urea, 30kg SSP and 25kg MOP and mix thoroughly in the soil. Collect recommended varieties of rapeseed viz., TS-38, TS-67 and TS-36 which are suitable for all agro-climatic zones of Assam.
- Kharif pulses (Green and black gram): Weeding may be advocated depending upon requirement in kharif pulse crop viz., green and black gram crop. Appearance of symptoms of Cercospora leaf spot may be observed in pulse crop. To control the its spread after appearance of disease symptoms, spray Tebuconazole 25 EC @ 1.0ml/ lit water should be applied. Nearly 80-90 litre solution of Tebuconazole 25 EC may be required to spray in 1 bigha crop area. However, if early sown crop are found to attain maturity then go for picking of matured pods.
- Tomato: For cultivation of tomato it is recommended to collect varieties like Punjab Chuhara, Punjab Kesri, Pusa ruby, Arka abha, Arka alok, BT-1 etc. Selection of sunny area with well drained friable light soil rich in organic matter is recommended. Prepare the bed of 1.0 m width with convenient length and 10-15 cm raised above the ground level. Drench the seed bed with Captan 0.1% solution and keep in covered immediately after treating with polythene sheet or gunny bag for 2 days.
- Brinjal: To control fruit and shoot borer in brinjal, spray solution of Emamectin Benzoate 5% SG (at the rate of 5g per 10 lit water). Growing of garlic as intercrop or boarder crop also reduces the infestation up to certain extent.
- Cauliflower: It is recommended to complete nursery sowing of late cauliflower varieties like Snowball-16, Pusa Snowball, K-1 and Hissar 1. Prior to sowing, treat the seeds with Carboxin or Nabam @ 2-3g/kg seeds.
- Poultry: Vaccinate the 4-7 days old chicks and 35 days old birds with F-1 or Lasota vaccine @ 1 drop through eye or nostril and again vaccinate the 8-9 weeks old birds with R-2B vaccine after proper consultation with veterinary doctor.

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

15-11-2021/(0830 to 0857) GMT
 15-11-2021/(1400 to 1427) IST

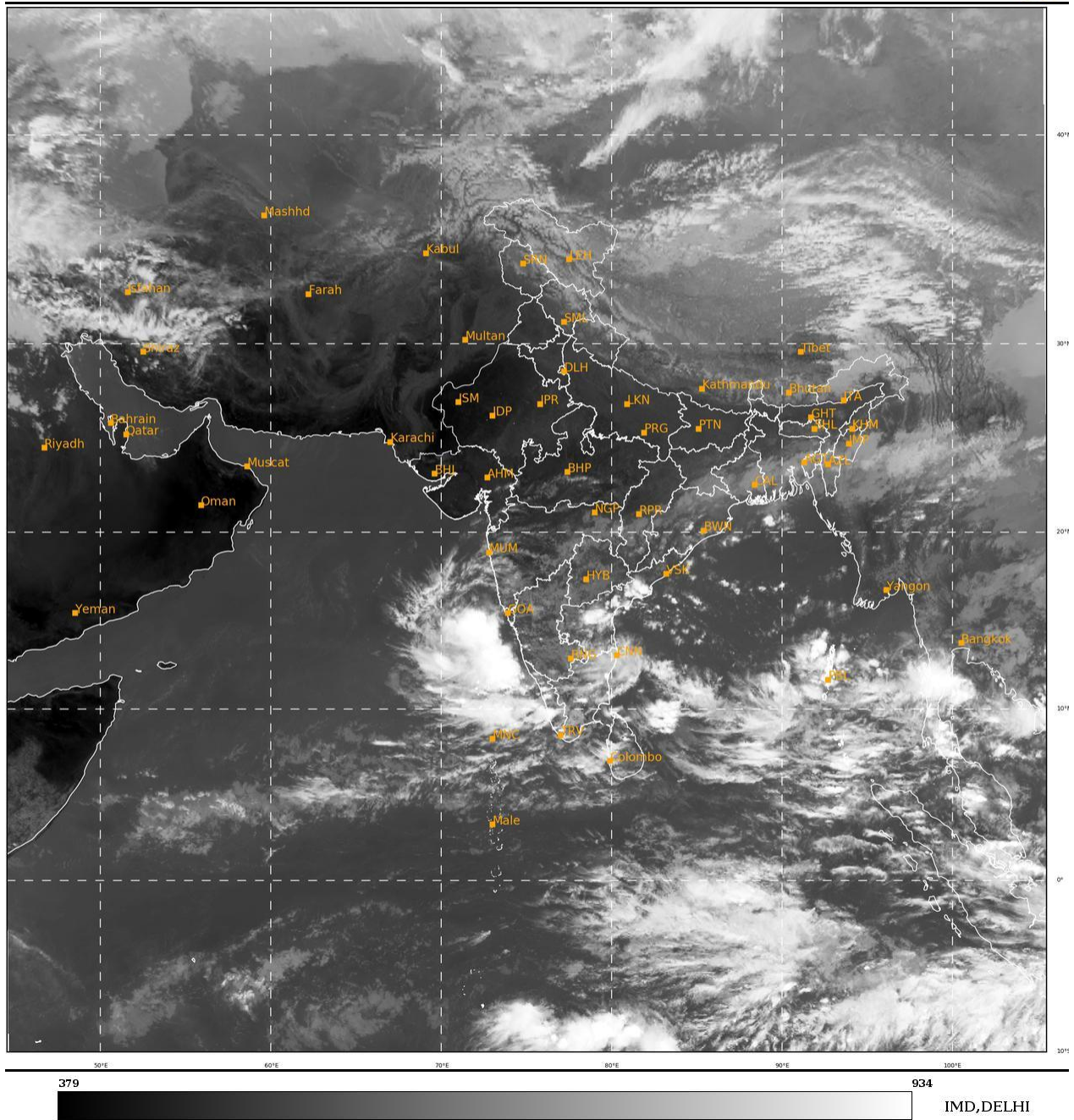


Figure: 1. Latest available satellite picture as on 15 Nov 2021 at 1427 Hrs (IST). (Source: IMD).

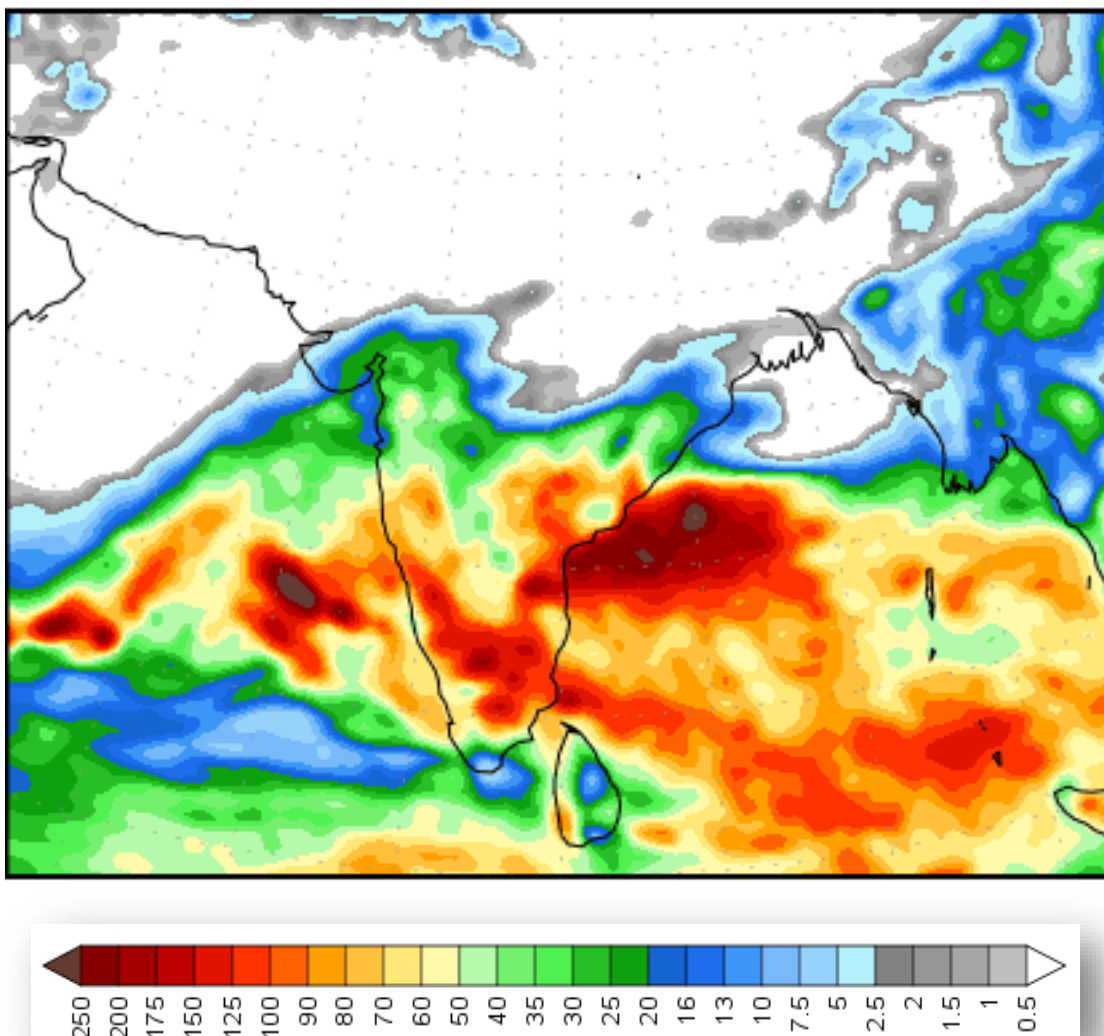


Figure:2. Precipitation forecast for 15 Nov to 23 Nov 2021 (Source: NOAA NCEP).

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