



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

27 November 2019 (WEDNESDAY)
[FOR THE PERIOD 27.11.2019 - 01.12.2019]



DISCLAIMER

Under the Agro-meteorological Information System Development Project, Agromet Advisory Service Bulletins at National & Sixty Four (64) districts have been prepared on experimental basis. These bulletins are being displayed through the website of Department of Agricultural Extension for valuable comments/ suggestions from all concerned.

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ISSUED BY

Agro-Meteorological Information Systems
Development Project
Department of Agricultural Extension (DAE)
Ministry of Agriculture
In collaboration with Bangladesh
Meteorological Department

Salient Agromet Advisories

As per the weather forecast received from the Bangladesh Meteorological Department (BMD), weather may remain dry with temporary partly cloudy sky over the country during next 24 hours and light to moderate fog may occur at places over the country during late night to morning. Night and day temperature may remain nearly unchanged over the country. As per the medium range quantitative district level weather forecast issued by BMD, dry condition will prevail over the country for next five days. Besides, there was no rainfall during extended period in this month. As a result, it is advised to apply irrigation, pesticides and fertilizers and intercultural operation in all the districts in the country. Under foggy condition, monitor the standing crops for incidence and spread of pest & diseases and monitor tomato and potato crops for early blight disease. If symptoms are noticed, undertake plant protection measures. In some districts, minimum temperature is around 15-16 degree Centigrade, thus proper care should be taken to reduce the impacts of cold temperature on livestock and poultry.

Considering the realized weather along with weather forecast, and state and stage of the crops, agromet advisories are issued for different districts separately. Following are the salient agromet advisories for the districts where dry condition prevailed during last four days & dry condition will also likely during next five days. Salient Agromet Advisories for livestock, poultry and fishery are also mentioned.

Aman Paddy

- Remove water from the field completely 15 days before harvesting.
- Where 80% grain found mature harvest the crop after draining water as sunny weather will prevail. At the time of harvesting, pick the black earhead (affected earhead with false smut disease) and destroy them by burning.
- Sundry the harvested paddy and carry out threshing and store it in safe place.
- To protect the matured grains of aman rice from the attack of rodents, prepare dry poison baits by mixing atta/wheat bran/maize crush 80g, gur 10g, dry fish 5g & Zinc Pohosphide 5g; & apply alongside the bunds for controlling field rat.
- Sowing of khesari can be done as relay crop in upland area before harvest of aman paddy.
- As there was no rainfall relatively for extended period and there is no chance of rainfall for next five days, apply irrigation & 2-5 cm water level should be maintained at booting to hardening of grain stages.
- Continuous monitoring of the economically harmful insects like stem borer, leaf roller, sheath blight, blast, brown spot, leaf blight, Gandhi bug, Brown Plant Hopper (BPH) should be done. Monitoring at 2-3 days interval is advised. For this light trap should be used. Light trap should be placed at some distance from the crop and bulb should be lightened from evening 06.30 PM to 10.30 PM and collected insects should be destroyed in the morning hours. Since fair weather is predicted in the coming 5 days, farmers can continue spraying of insecticides/ fungicides in the field.
- For management of blast disease in paddy, carry out alternative wetting and drying without cracking of the soil. Spray Nativo 75wg/ Trooper@ 0.6g/litre of water or Amister top 325 sp@ 1ml/litre of water. Spraying should be done after 3 PM so that disease can be effectively controlled. The spray should be repeated after 10-12 days as per intensity of the disease.
- As there is no possibility of getting rainfall in the coming 5 days during dough to milky stage, there is chance of incidences of Gandhi bug & BPH. For BPH Spray Isoprocarb @ 2.5g per litre water or Imidachloprid @ 2.5g per litre water. For Gandhi bug Spray Malathion @ 2ml. per litre water or

Chlorpyrifos @ 2ml. per litre water. Holding fires around the field in the night hours also reduce Gundhi bug population.

Vegetables

- As there was no rainfall relatively for extended period and there is no chance of rainfall for next five days, apply adequate irrigation to moist the soil in the vegetable field.
- Prevailing weather condition, there is a chance of attack of black-rot of crucifers in the cabbage and cauliflower, this causes rotting of leaves and blackening of head. Apply 1 gm Streptocycline in 10 lt of water and spray thoroughly and also apply top-dressing to cauliflower field
- Use Pheromone Traps @ 20 Nos/ha. to control attack of fruit borer in brinjal, tomato and bhindi crops
- Chilli, tomato, brinjal Vegetative to flowering --Use staking for seedlings --Apply mustard cake with mixed up soil and stirring at the base of plants.
- For control of aphids and jassids in cabbage and cauliflower, install 2-3 yellow sticky cards per bigha. 12 Alternately, paint a cardboard with yellow colour, smear grease over it and install in the field. Spray Neem oil at the rate of 5 ml per litre of water along with liquid detergent at a dose of 0.5-1.0 ml.

Boro Paddy:

- Take appropriate action for preparation of seedbed for boro paddy especially as this season is cyclone prone, it is advised to prepare the seedbed in high land and also make arrangement for draining out of water and also advised for community based seedbed preparation.
- Construct drain in between two seedbeds. This will be used for draining out extra water due to heavy rainfall and irrigation as well.
- If the seedbed becomes yellow, apply urea at the rate of 283 gm urea per decimal.

Mustard:

- The present weather condition is ideal for land preparation and sowing of mustard. Continue sowing of mustard and Undertake sowing of Mustard upto 1st fortnight of November preferably in sandy loam or loam soil.
- . It is advised to see the presence of required soil moisture which help in germination of seeds. If there is less moisture during sowing, apply light irrigation after 10-15 days after sowing.
- As there was no rainfall and there is no chance of rainfall during next few days, first irrigation should be given after 20-25 days after sowing.
- Make arrangements for drains around the crop fields as this will help to drain out excess water during heavy rainfall and also help in providing irrigation.
- Before sowing of seed, apply per hectare 125-150 kg Urea, 170-180 TSP and 85-100 kg MOP & 8-10 kg Gobar. Required soil moisture is required for application of these fertilisers. As rainfall is unlikely, application fertilisers may be carried out.
- Intercultural operation i.e. weeding should be done after 15-20 days after sowing of seeds.

Maize:

- Start land preparation and sowing of boro maize. Make arrangement for draining out of water from the crop field.

- During last stage of land preparation, for hybrid maize, apply per hectare 166.6-183.3- kg Urea, 240-260 kg TSP, 180-200 kg MOP, 4-ton Gobar.

Lentil

- During last stage of land preparation, for hybrid maize apply per hectare 40-45- kg Urea, 80-90 kg TSP, 30-40 kg MOP. As rainfall is unlikely, application of fertilisers may be carried out.
- Intercultural operation i.e. weeding should be done once within 30-35 days after sowing of seeds.

Potato

- This present weather condition is ideal for land preparation & plantation of potato. Collect seeds of recommended varieties of potato from reliable sources and start planting in the field
- To avoid the attack of red ant, cut worm etc. application of Thimet 10G or Malathion 5% dust @ 2 kg/bigha of land is advocated.
- Apply 10 kg Gobar and 8-10 kg zinc sulphate per hectare during the last stage of land preparation. And after planting of seedlings, apply 162.5-175.0 kg Urea, 200-220 kg TSP and 220-250 MOP, 100-120 kg Gypsum per hectare and well mixed with soil by the two sides of row .

Horticultural crops

- Present weather conditions are favorable for the planting of horticultural crops viz, papaya, mango, Banana, guava etc, farmers are advised for the planting the same at the earliest.
- As there was no rainfall relatively for extended period and there is no chance of rainfall for next five days, apply adequate irrigation to young fruit plants.
- Farmers are advised to go for bagging of the banana bunches with muslin cloth or polyethylene before fruit set in order to protect the fruits from the attack of banana fruit and leaf scarring beetle.
- As dry condition will prevail during next five days, apply irrigation to banana plants 15-20 days interval.

Livestock

- Night temperature has started falling/ will fall in the district; farmers should make proper arrangements to protect their milch animals and their young ones from morning/evening cold by covering them with gunny bags during night and ample exposure to sunlight during day time to avoid pneumonia.
- Suggested to go for routine vaccination for livestock against the dreaded virus like tarka, khura and PPR.
- The floor and dairy shed should be cleaned with suitable antiseptic solution and maintain a proper sanitation.
- Keep animal shed clean and de-worm domestic animals. For Foot and Mouth disease, wash the wound with potassium permanganate solution.

Poultry

- Suggested to go for routine vaccination for poultry against the dreaded diseases /virus Vaccination (RDF1) of the one week old chicks against Raniket disease, darkplague and

against Gamboro disease in two weeks old chicks may be carried out after consultation with local veterinarian.

- Clean poultry shed twice in a week.
- Prevent the chicks from chilled wind directly by use of gunny bag or plastic curtains hanging in the side walls
- Arrange light from Bulb 1-2 hours after evening and not to cover the cage by polythene. It favours more production of eggs and reduce the chance of incidences of diseases.

Fishery

- Growing carp may float upward due to oxygen deficiency. Follow the following.
- Stir the pond water with bamboo as there may be deficiency of oxygen in pond water already mixed with mud.
- Apply lime in pond water. Apply lime according to pH.
- Remove all aquatic weeds from bottom of pond
- Cut the bushes beside the surrounding for getting better sunlight.
- Agitate water for better growth of fish.
- Administer feeding on sunny days. Provide false netting for better growth of fish.

Detail District-wise Agromet Advisories are available in BAMIS Portal (www. <https://www.bamis.gov.bd/>)

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 27 November'19) and maximum temperature on 26 November, minimum temperature on 27 November'19 is given below:

Name of Divisions	Name of Stations	Rain fall (mm)	Max. Temp (°C)	Min. Temp (°C)	Name of Divisions	Name of Stations	Rain fall (mm)	Max. Temp (°C)	Min. Temp (°C)
Dhaka	Dhaka	00	29.8	19.0	Rajshahi	Rajshahi	00	29.0	16.8
	Tangail	00	29.2	17.5		Ishurdi	00	29.0	16.7
	Faridpur	00	29.8	18.4		Bogura	00	30.4	18.5
	Madaripur	00	29.3	18.3		Badalgachhi	00	29.0	16.4
	Gopalganj	00	29.4	17.7		Tarash	00	28.6	17.4
	Nikli	00	29.5	19.5					
Mymensingh	Mymensingh	00	29.5	16.8	Rangpur	Rangpur	00	28.5	18.2
	Netrokona	00	29.0	17.0		Dinajpur	00	29.0	16.8
Chattogram	Chattogram	00	32.0	20.0		Sayedpur	00	28.8	17.5
	Sandwip	00	31.6	17.6		Tetulia	00	29.0	15.0
	Sitakunda	00	31.7	17.0		Dimla	00	28.5	17.0
	Rangamati	00	31.0	19.0		Rajarhat	00	28.4	17.0
	Cumilla	00	30.7	18.2	Khulna	Khulna	00	29.5	19.4
	Chandpur	00	30.7	20.1		Mongla	00	29.6	19.8
	M.Court	00	30.3	20.0		Satkhira	00	30.0	19.4
	Feni	00	31.5	17.9		Jashore	00	30.0	16.4
	Hatiya	00	30.0	18.6		Chuadanga	00	29.5	16.8
	Cox's Bazar	00	32.0	20.5		Kumarkhali	00	29.3	18.5
	Sylhet	Kutubdia	00	31.2	19.5	Barishal	Barishal	00	30.0
Teknaf		00	31.6	18.7	Patuakhali		00	30.3	19.1
Sylhet		00	29.0	18.1	Khepupara		00	30.5	18.6
Srimangal		00	30.0	15.5	Bhola		00	30.9	17.8

Highlights:

- Country average bright sunshine hour was 7.43 hours per day during last week.
- Country average free water loss during the previous week was 2.61 mm per day.

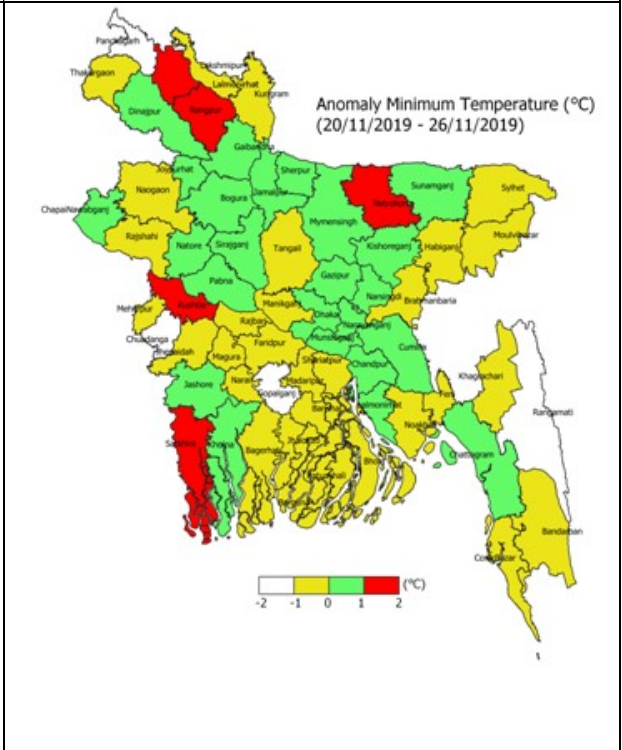
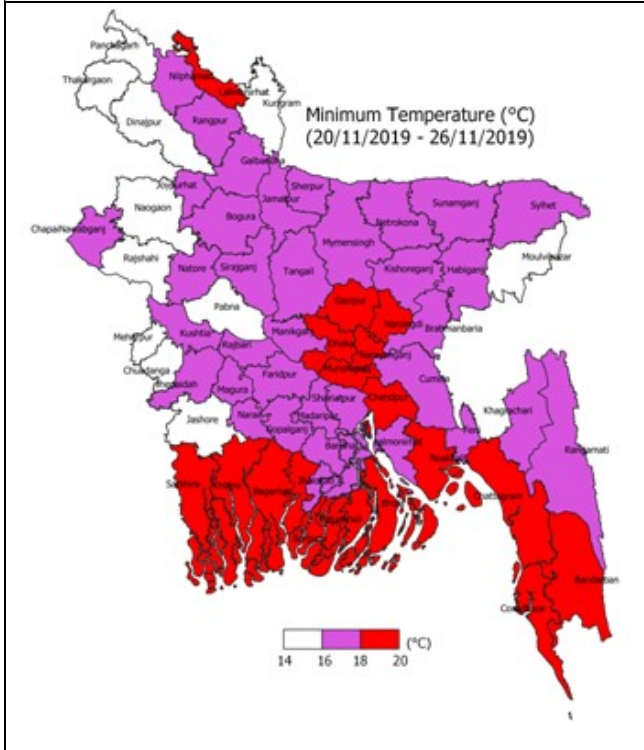
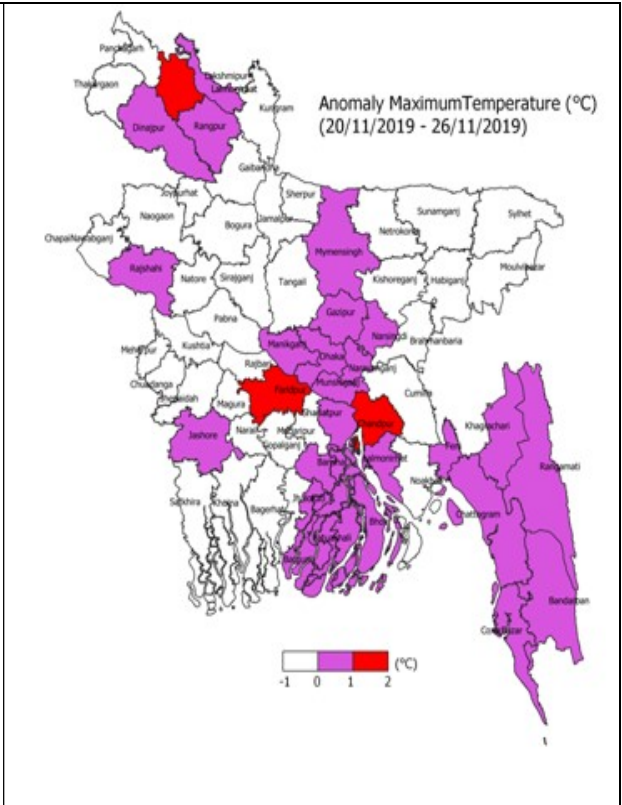
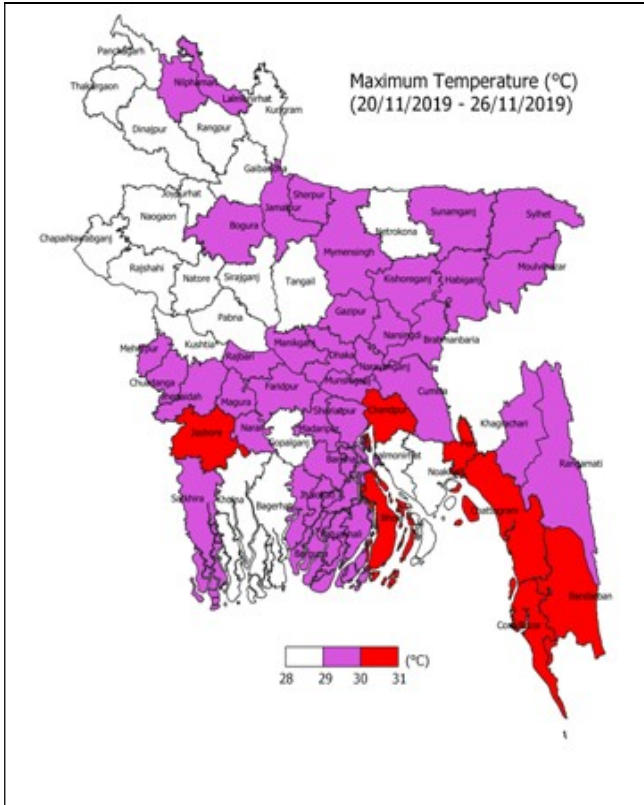
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

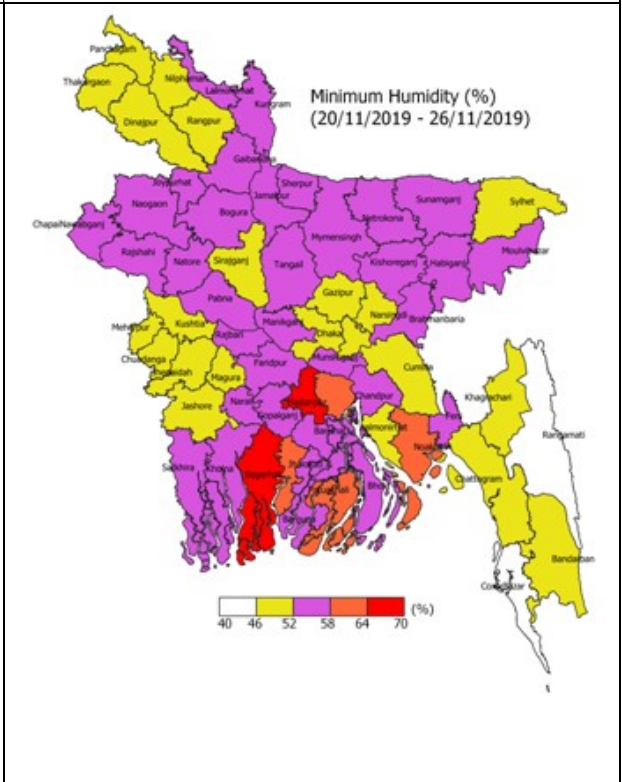
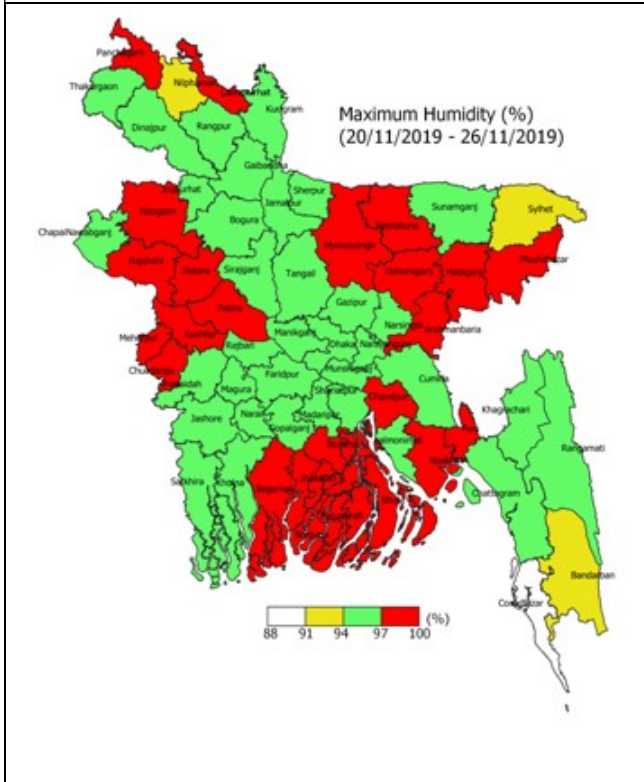
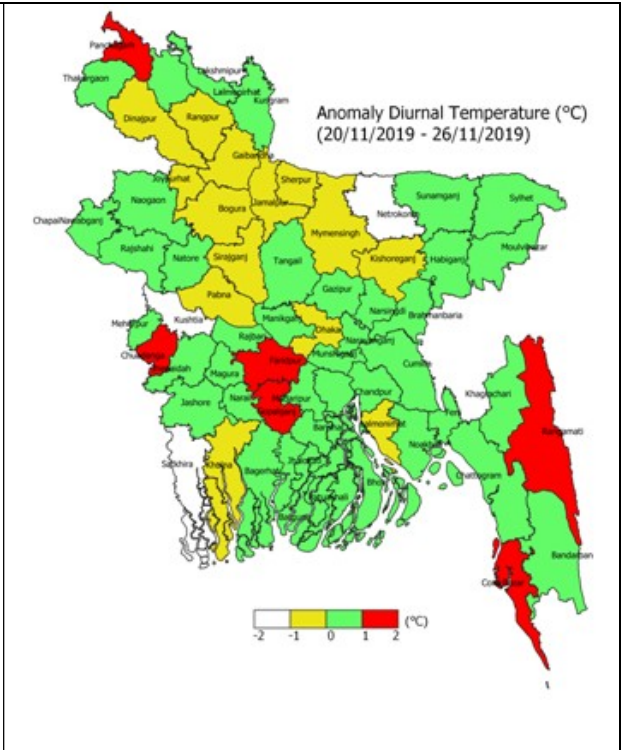
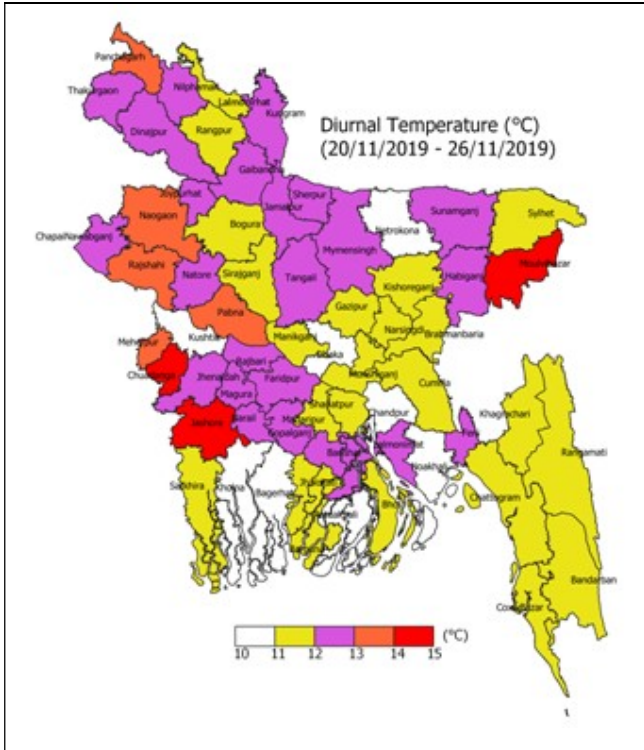
Forecast: Weather may remain dry with temporary partly cloudy sky over the country.

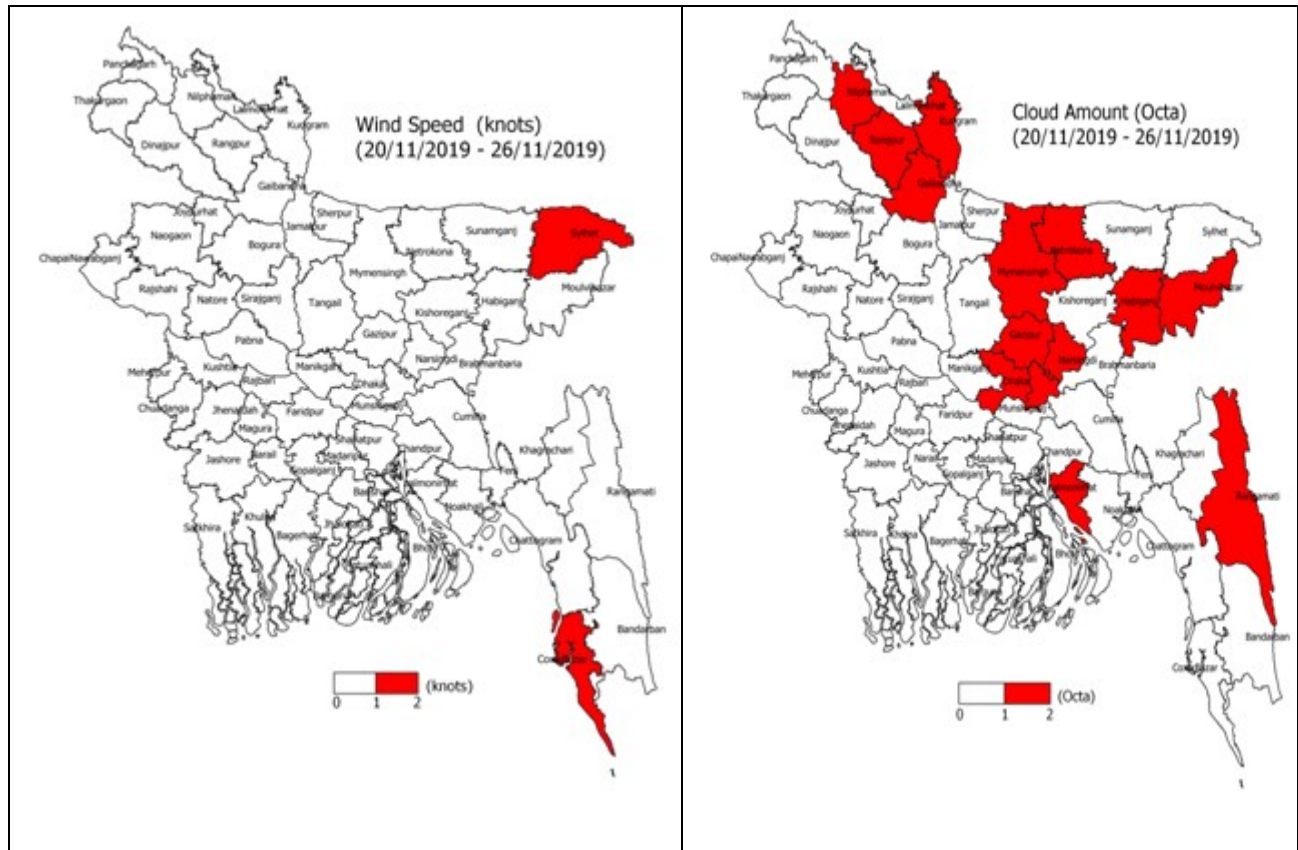
Fog: Light to moderate fog may occur at places over the country during late night to morning.

Temperature: Night and day temperature may remain nearly unchanged over the country.

Spatial Distribution of weather parameters for the Week ending 26 November 2019







Weather Forecast and Advisory for the Period of 24.11.2019 to 30.11.2019

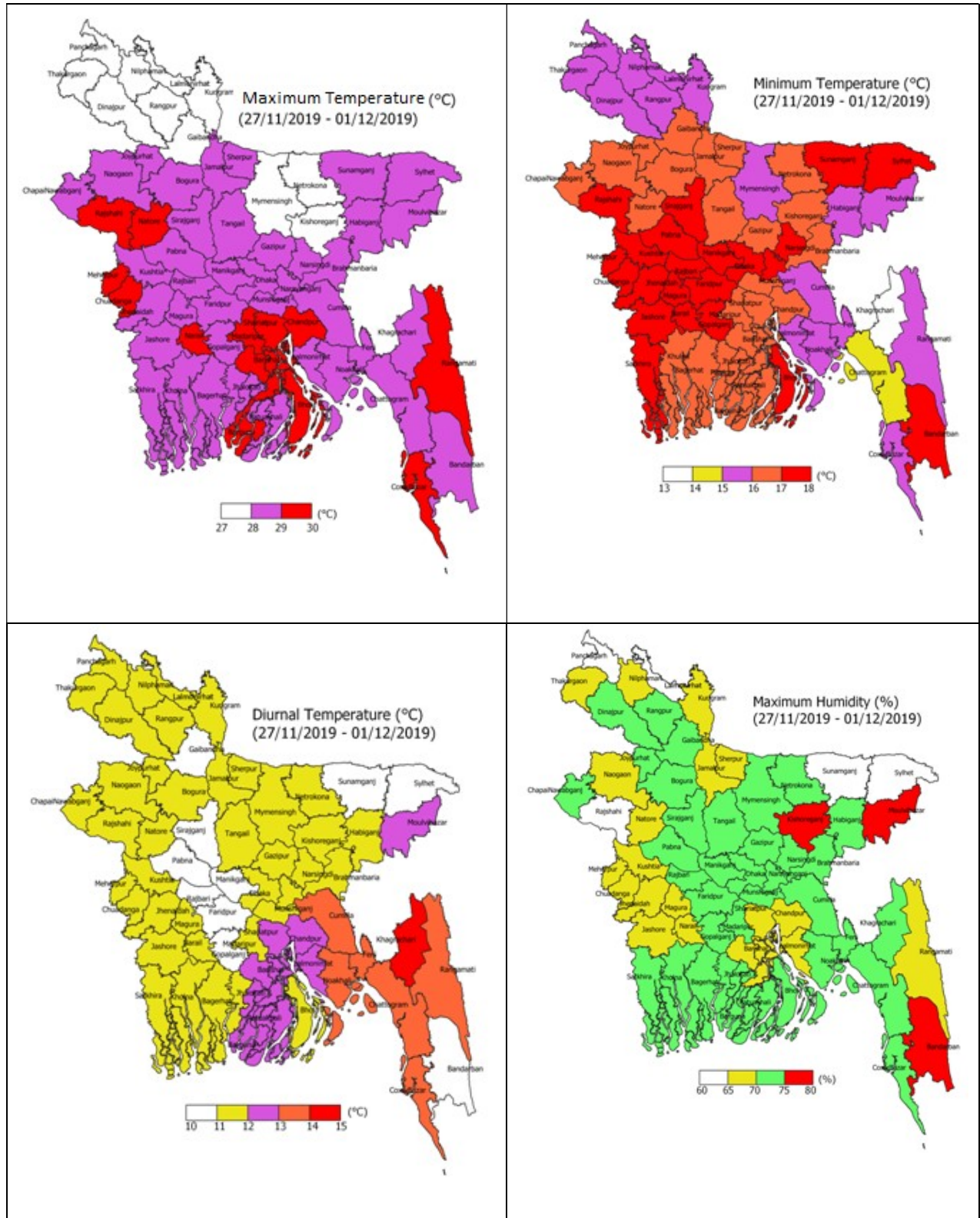
Bright sunshine hour is likely to be from 6.25 to 7.25 hours per day during this week. Average free water loss is likely to be from 3.00 to 3.50 mm per day during this week.

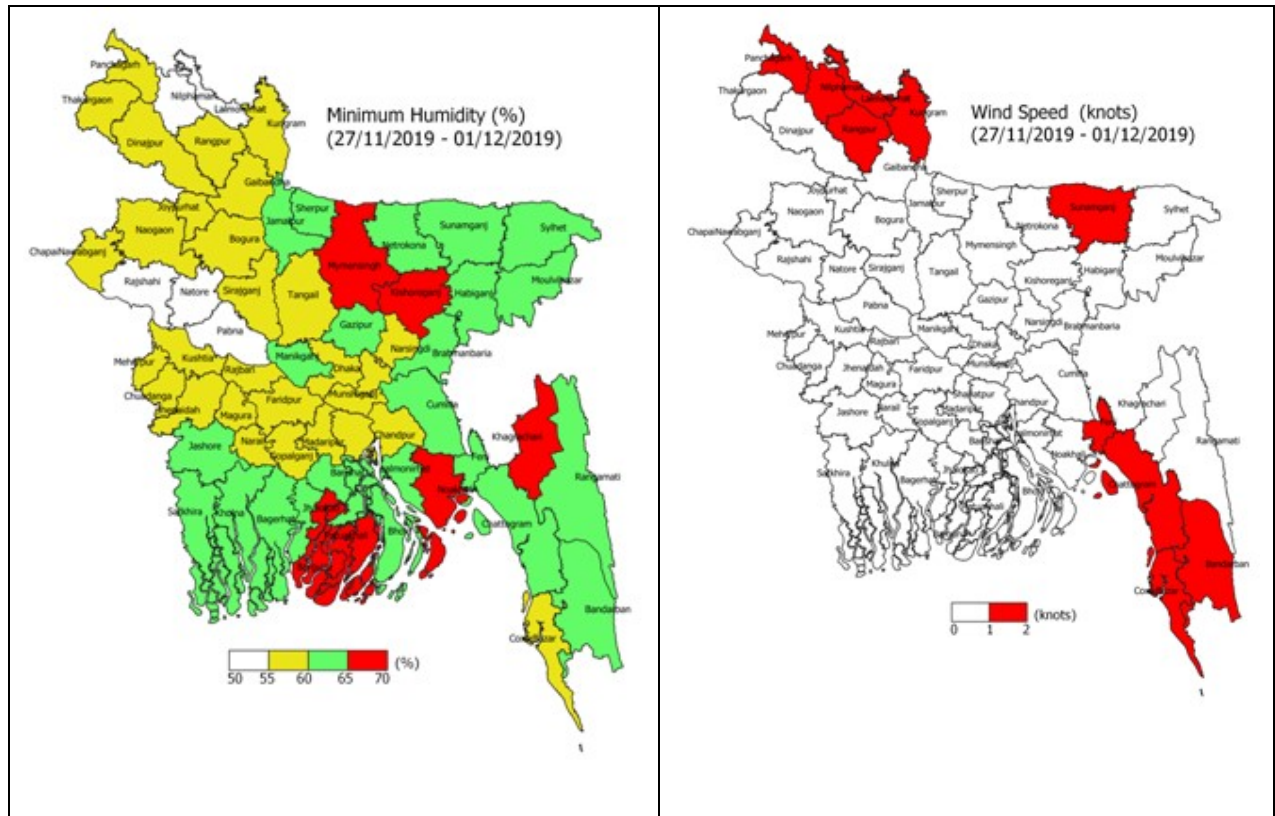
Weather may remain mainly dry with temporary partly cloudy sky over the country during this period.

Light fog may occur at isolated places over the country during late night to morning.

Day temperature may remain nearly unchanged and night temperature may fall slightly over the country during this period.

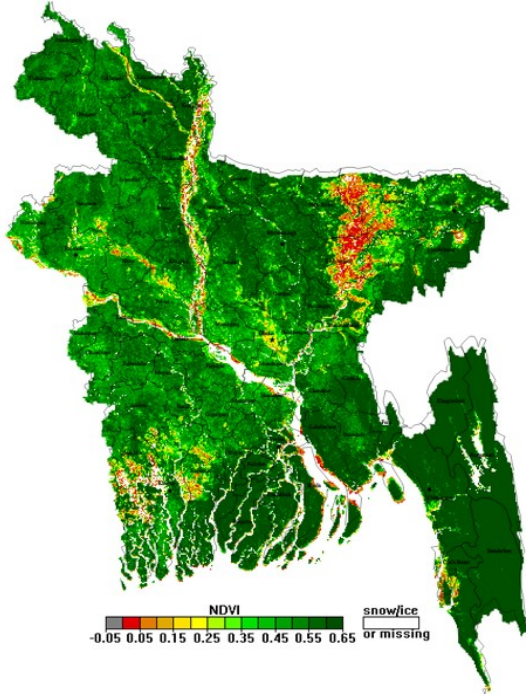
District Wise Quantitative Weather Forecast for next Five days from 27 Nov. -1st December'19



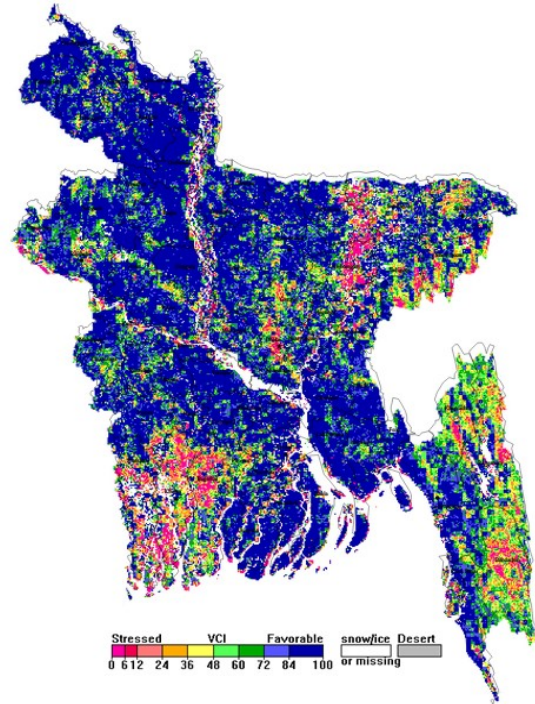


Different Satellite Products over Bangladesh

NOAA/VIIRS BLENDED NDVI composite for the week No. 46 (12 November-18 November) over Agricultural regions of Bangladesh



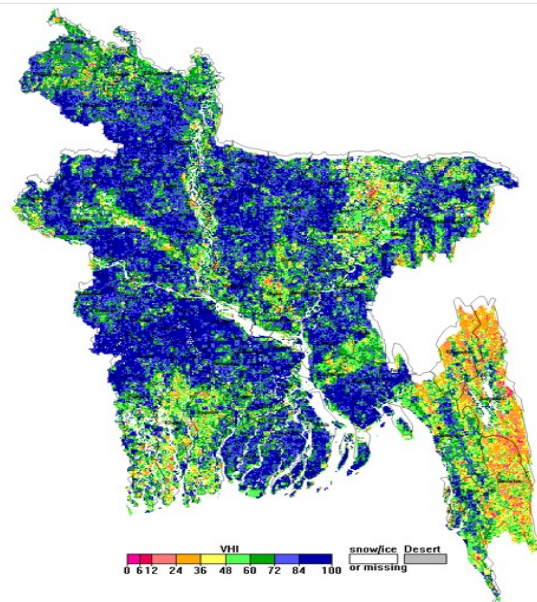
NOAA/ AVHRR BLENDED VCI composite for the week No. 46 (12 November-18 November) over Agricultural regions of Bangladesh

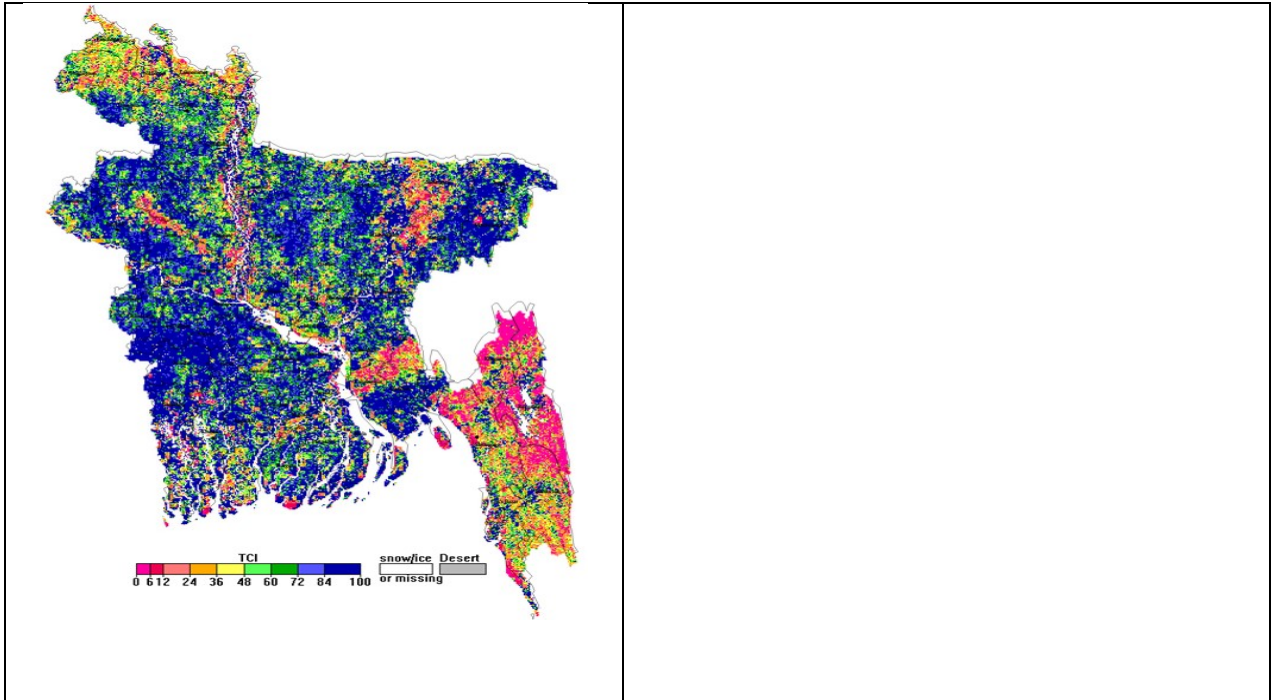


NOAA/ AVHRR BLENDED TCI composite for the week No. 46 (12 November-18 November) over Agricultural regions of Bangladesh



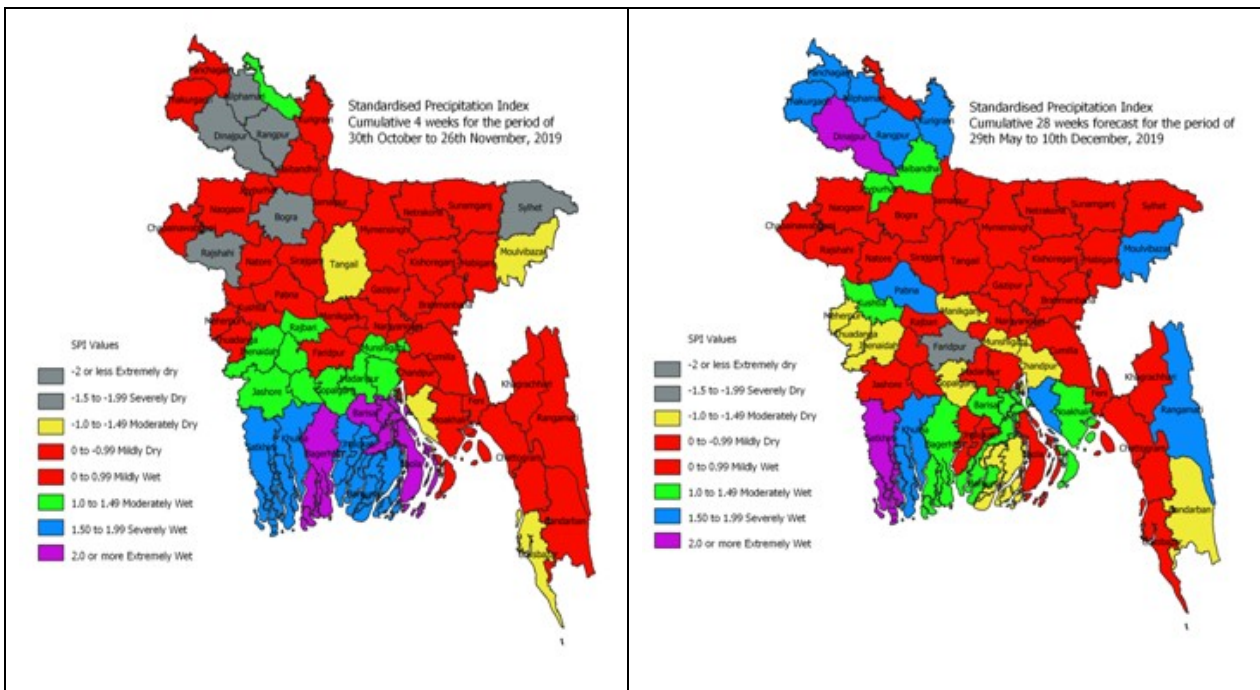
NOAA/ AVHRR BLENDED VHI composite for the week No. 46 (12 November-18 November) over Agricultural regions of Bangladesh





Monitoring Meteorological Drought in Bangladesh using Standardized Precipitation Index (SPI)

It has been observed that during last four weeks as well as in November extremely wet conditions prevails in districts located in southwest and mild to moderately wet condition prevails in southeast and central parts as well as other parts of Bangladesh.



Data source: Bangladesh Meteorological Department

