



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

06 November 2019 (WEDNESDAY)
[FOR THE PERIOD 06.11.2019 - 10.11.2019]



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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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 India Meteorological Department (Wednesday 06 November 2019, Time of Issue: 2200 hours IST), the Deep Depression over eastcentral & adjoining southeast Bay of Bengal moved slightly northwards with a speed of 02 kmph during 06 hours and lay centered at 1730 hours IST of today, the 6th November, 2019, over eastcentral & adjoining southeast Bay of Bengal, near Latitude 13.5°N and Longitude 89.3°E, about 400 km west-northwest of Maya Bandar (Andaman Islands), about 810 km south-southeast of Paradip (Odisha), 920 km south-southeast of Sagar Islands (West Bengal) and 950 km south-southwest of Khepupara (Bangladesh). It is very likely to intensify into a Cyclonic Storm during next 12 hours and into a Severe Cyclonic Storm during the subsequent 24 hours. **It is very likely to move northwestwards for some time and then north-northwestwards towards West Bengal and Bangladesh coasts.** According to Bangladesh Meteorological Department (Date 6.11.19; Time 6 pm) the depression over East-central Bay and adjoining area moved slightly westwards and intensified into a deep depression over the same area at 12 noon today (06 November 2019). It is likely to intensify further and move in a north-westerly direction.

Considering the above information from IMD & BMD, following special advisories are issued for the coastal districts (Khulna, Bagerhat, Satkhira, Bhola, Barishal, Cox's Bazar, Noakhali, Barguna, Patuakhali, Chattogram, Banderban, Jhalokati & Feni, Chandpur & Pirojpur).

1. Where early transplanted paddy found 80% maturity, harvest immediately
2. Make a heap of harvested crop in the field and cover it with polythene tightly so that there may not be any damage due to high wind & heavy rainfall
3. Immediately harvest matured vegetables and matured cotton bolls.
4. Clean the irrigation channel so that there should not be any standing water in the crop field.
5. Arrange for elevated bunding around and inside the Aman paddy field so that water current may not affect the standing crops.
6. Avoid application of fertilizer, pesticides, irrigation.
7. Avoid seedbed preparation for boro paddy and sowing of mustard, maize, pulses, potato etc.
8. Keep all the farm produce in safe place.
9. Provide mechanical support like popping of sugarcane crops (tying of three to four plants together), support of horticultural crops particularly banana with three to four bamboos support to fruit plants and stacking of vegetables.
10. Arrange nets around the ponds so that fishes may not come out due to heavy rainfall
11. Livestock & poultry birds should be placed in indoors and safe and dry places.
12. Fishermen are advised not to venture into Sea.

Besides, this the time for sowing of important rabi crops like potato, mustard, boro paddy, maize pulses etc. Some of the important advisories issued today for the remaining districts are given below.

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.
- Advise to take recommended varieties of seed.

- If required, provide proper treatment of seeds so that there will be less chance of diseases.
- Loam & clayey soils are suitable for boro paddy cultivation.
- Construct drain in between two seedbeds. This will be used for draining out extra water and irrigation as well.
- Close monitoring is required so that birds should not take away the seed. It is better to maintain water level 2-3 cm in seed bed so that it can control the weeds and seed damages due to birds.
- 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.

Sowing may be done either broadcasting or in rows. If sown in rows, row to row distance should be 30 cm. It is advised to see the presence of required soil moisture which help in germination of seeds.

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. If there is less moisture during sowing, apply light irrigation after 10-15 days after sowing

Intercultural operation i.e. weeding should be done after 15-20 days after sowing of seeds.

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.

Maize:

- Start land preparation and sowing of boro maize. Make arrangement for draining out of water from the crop field, if any. Sowing should be done in rows and row to row distance should be 60 cm.
- Farmers are advised to select sandy loam soil for cultivation of maize
- 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.
- As there was no rainfall and there is no chance of rainfall during next few day, apply first irrigation after 15-20 days plant. Second irrigation should be given after 30-35 days.
- Remove extra seedlings after 30 days of sowing of seeds.
- Remove the weeds upto one month after sowing of seeds.

Lentil

Cultivate lentil in well drained loam/sandy loam/clayey soil.

Before sowing, seeds should be treated with Provex-200 (Carbozin+ Thiram) at the rate 2.5 gram per kg of seeds. This will reduce the incidence of Seed and seedling rot disease.

Sowing may be done either broadcasting or in rows. If sown in rows, row to row distance should be 25-30 cm.

During last stage of land preparation, for hybrid maize apply per hectare 40-45- kg Urea, 80-90 kg TSP,30-40 kg MOP.

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
- Farmers are advised to select sandy loam soil rich in organic matter for cultivation of potato
- Continue land preparation as no rainfall is forecasted in coming 5 days. The fields should be thoroughly ploughed and leveled properly for uniform distribution of irrigation water or to maintain soil moisture uniformly under rainfed situation.
- Prior to sowing, the tubers should be treated with Mancozeb @ 5 g in 1 litre of water for about 10 minutes. After treatment, the tubers are to be spread thinly and dried under shade for 48 hours, or should be covered with moist gunny bags for 2-3 days for suberization.
- 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. Present weather condition is ideal for fertiliser application.
- As there was no rainfall and there is no chance of rainfall during next few days, apply irrigation. Care should be taken so that there is no standing water in the field. Present weather is congenial for application of fertilisers

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

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 06 November'19) and maximum temperature on 05 November, minimum temperature on 06 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	31.9	23.0	Rajshahi	Rajshahi	00	31.0	17.8
	Tangail	00	32.0	21.5		Ishurdi	00	31.7	18.8
	Faridpur	00	32.7	21.8		Bogura	00	31.4	20.2
	Madaripur	00	31.6	21.8		Badalgachhi	00	30.0	17.9
	Gopalgonj	00	31.6	21.7		Tarash	00	31.8	21.0
	Nikli	00	31.5	21.5					
Mymensingh	Mymensingh	00	31.7	22.0	Rangpur	Rangpur	00	31.5	20.2
	Netrokona	00	31.0	22.0		Dinajpur	00	29.3	18.0
						Sayedpur	00	32.0	17.9
Chattogram	Chattogram	00	31.6	23.0		Tetulia	00	29.6	16.5
	Sandwip	00	31.8	21.1		Dimla	00	30.5	19.4
	Sitakunda	00	32.0	21.0		Rajarhat	00	32.1	19.0
	Rangamati	00	31.8	20.6	Khulna	Khulna	00	31.5	22.0
	Cumilla	00	31.6	21.2		Mongla	00	32.0	22.9
	Chandpur	00	32.5	23.4		Satkhira	00	31.7	21.4
	M.Court	00	31.7	23.4		Jashore	00	32.0	19.8
	Feni	00	32.4	21.2		Chudanga	00	31.6	18.0
	Hatiya	00	30.8	21.9	Kumarkhali	00	30.4	22.6	
	Cox's Bazar	00	33.4	23.0					
Kutubdia	00	31.7	22.5	Barishal	Barishal	00	32.2	21.0	
Teknaf	00	32.4	23.4		Patuakhali	00	32.0	22.4	
					Khepupara	00	31.5	21.8	
Sylhet	Sylhet	00	30.5	21.2		Bhola	00	31.8	21.5
	Srimangal	00	31.5	19.7					

Highlights:

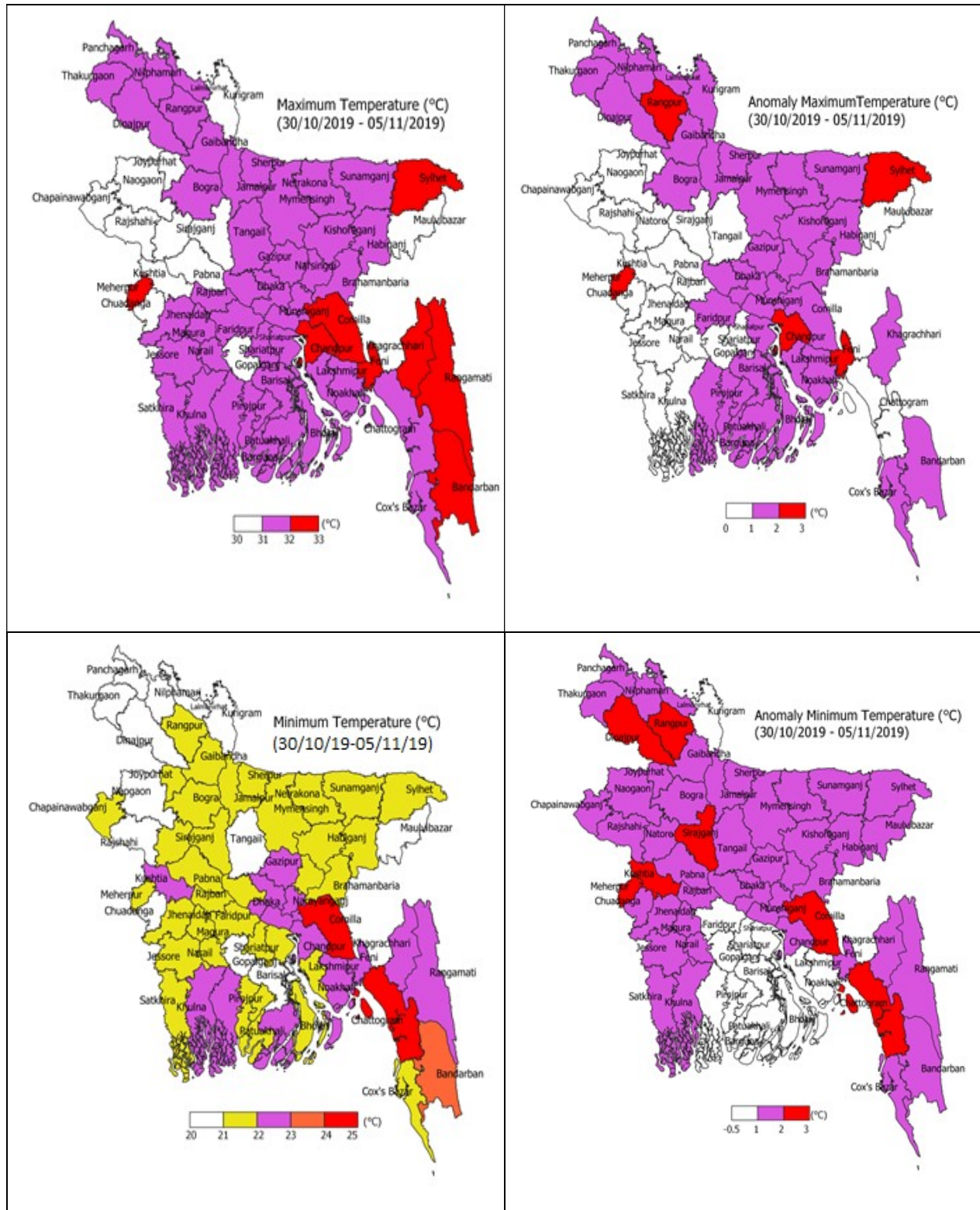
- Country average bright sunshine hour was 5.20 hours per day during last week.
- Country average free water loss during the previous week was 2.49 mm per day.

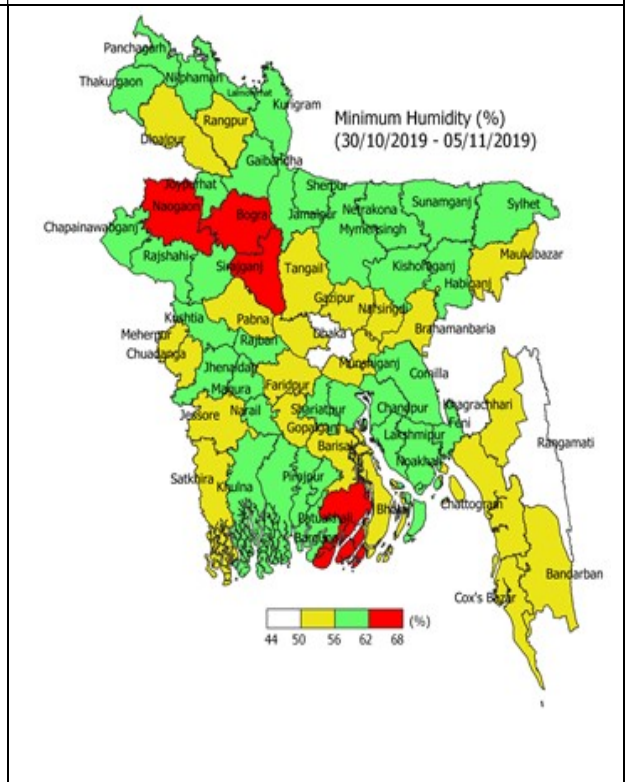
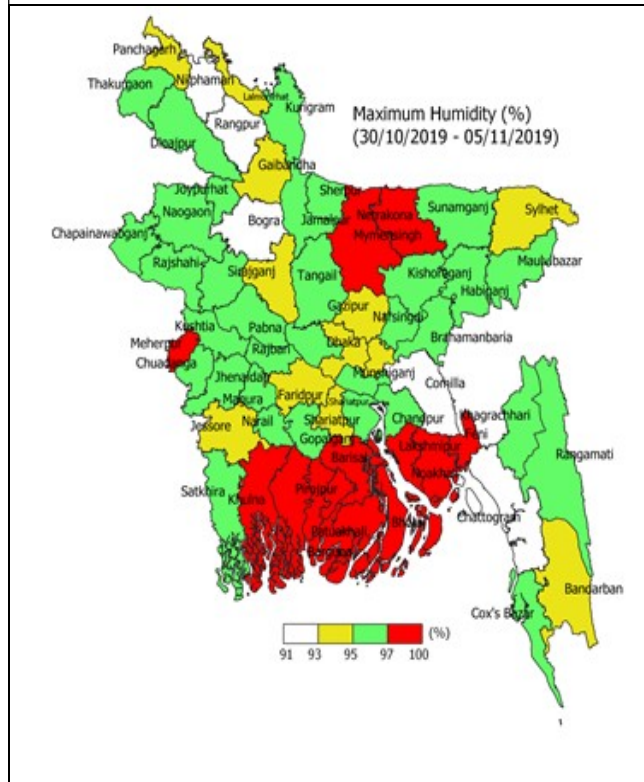
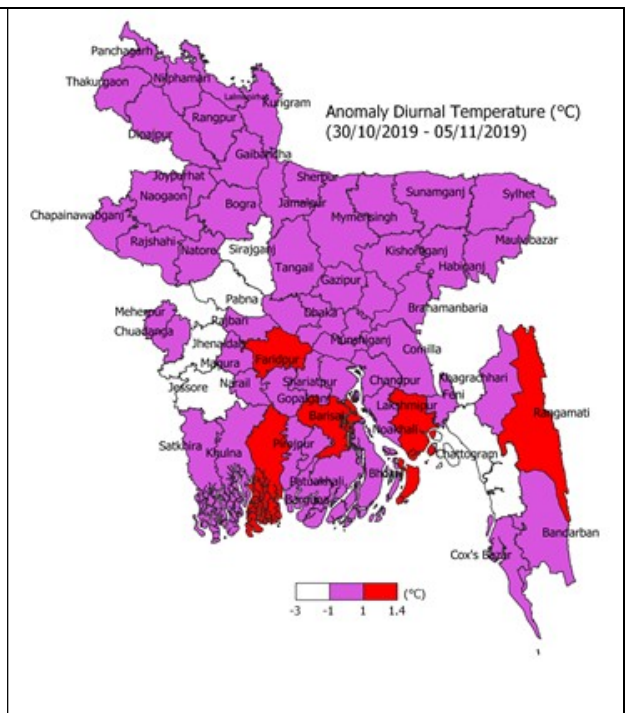
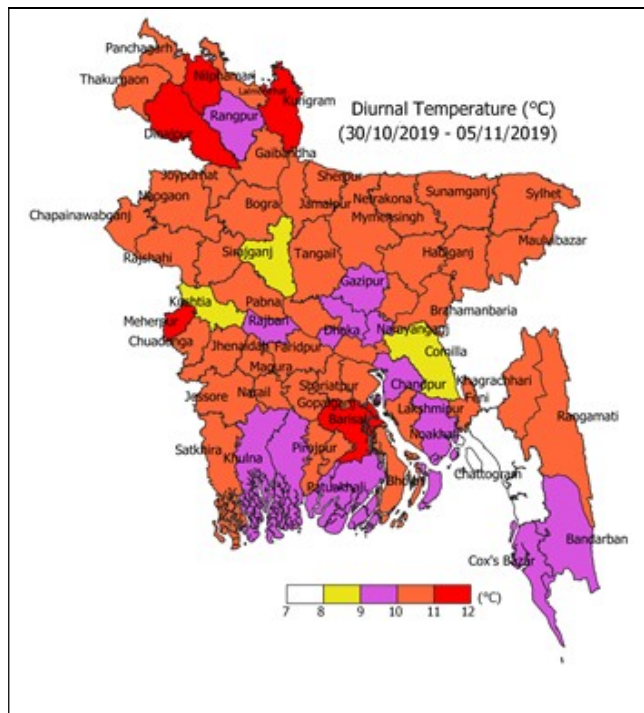
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

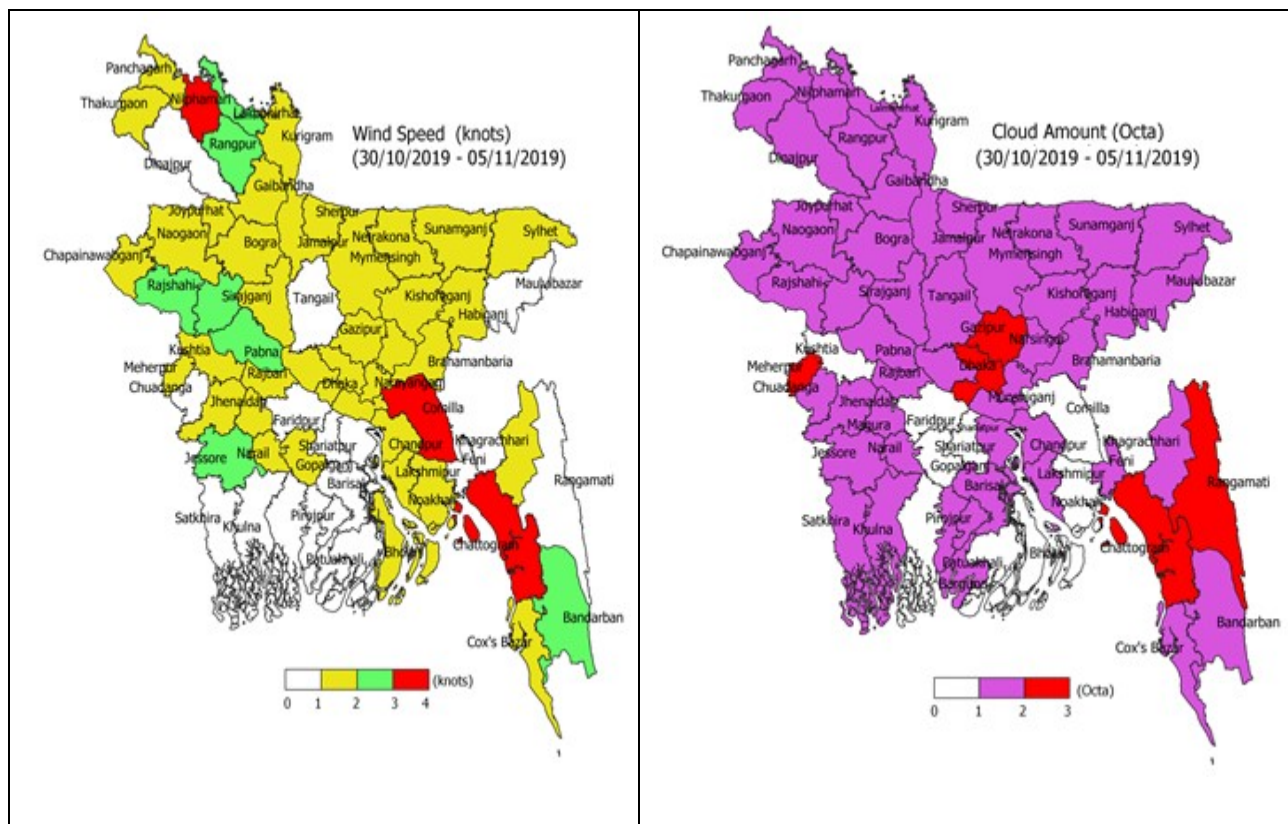
Forecast: Light rain is likely to occur at one or two places over coastal regions of Bangladesh. Weather may remain mainly dry with temporary partly cloudy sky elsewhere over the country.

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

Spatial Distribution of weather parameters for the Week ending 05 November 2019







Weather Forecast and Advisory for the Period of 03.11.2019 to 10.11.2019

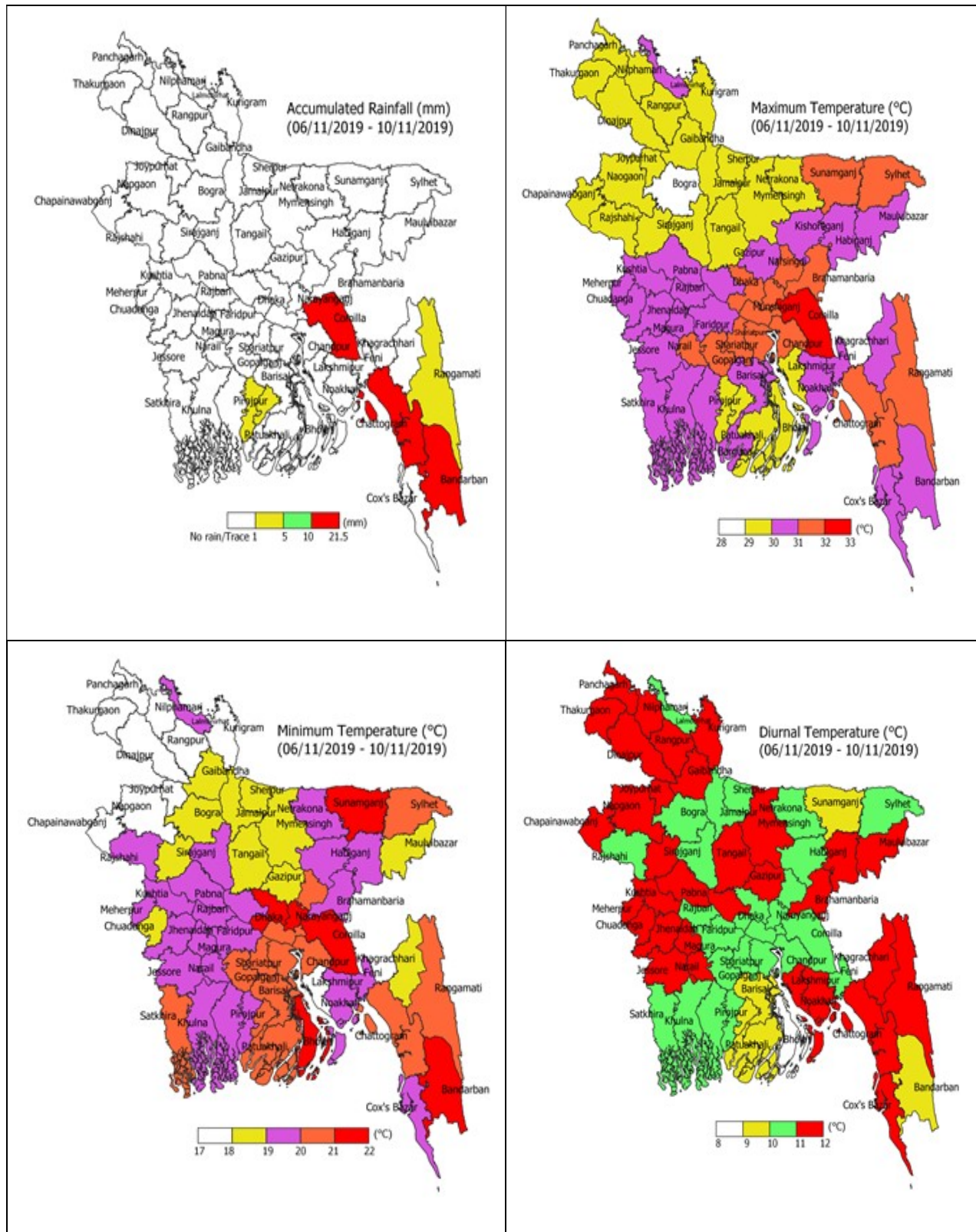
Bright sunshine hour is likely to be from 5.50 to 6.50 hours per day during this week. Average free water loss during the next week is likely to be from 2.25 to 3.25 mm per day.

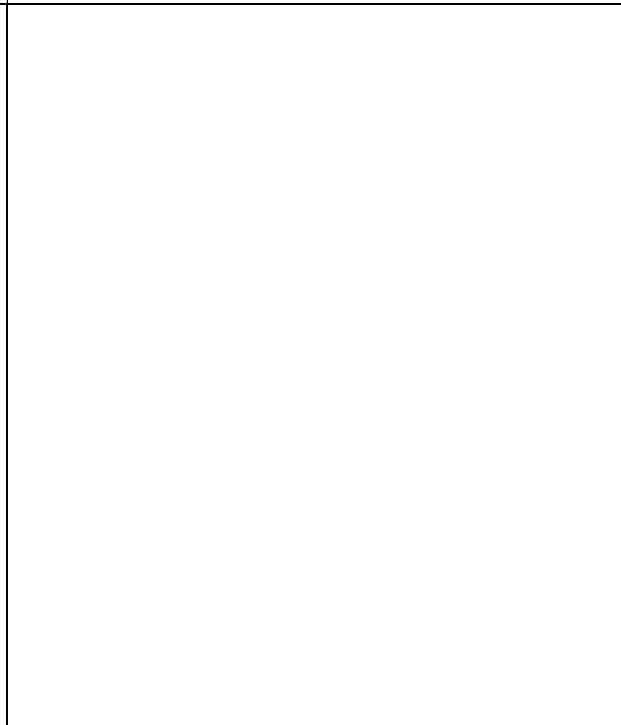
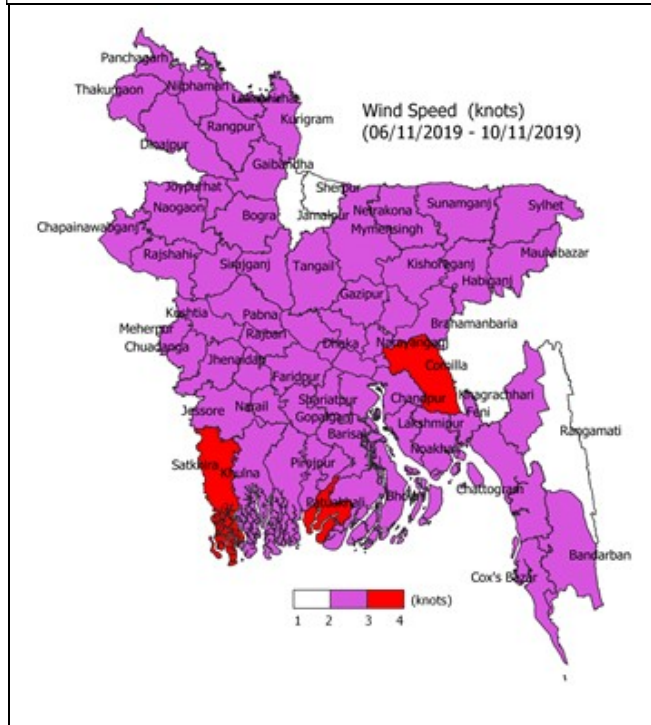
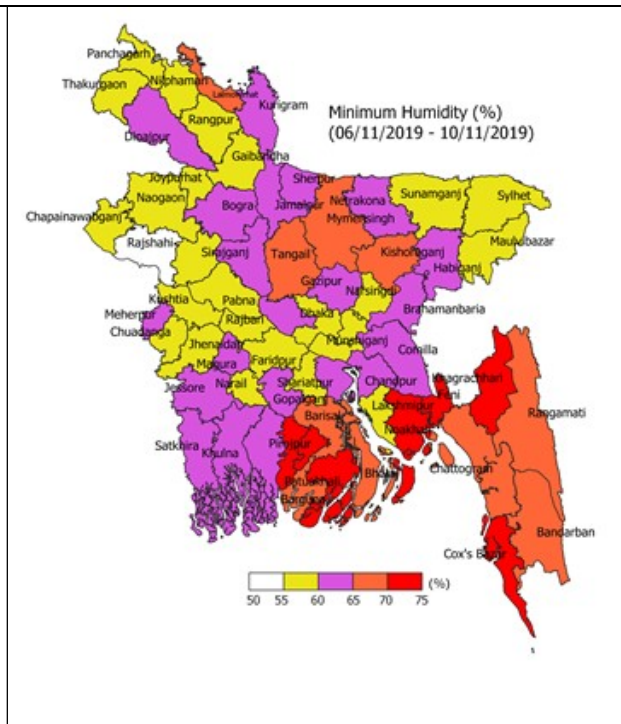
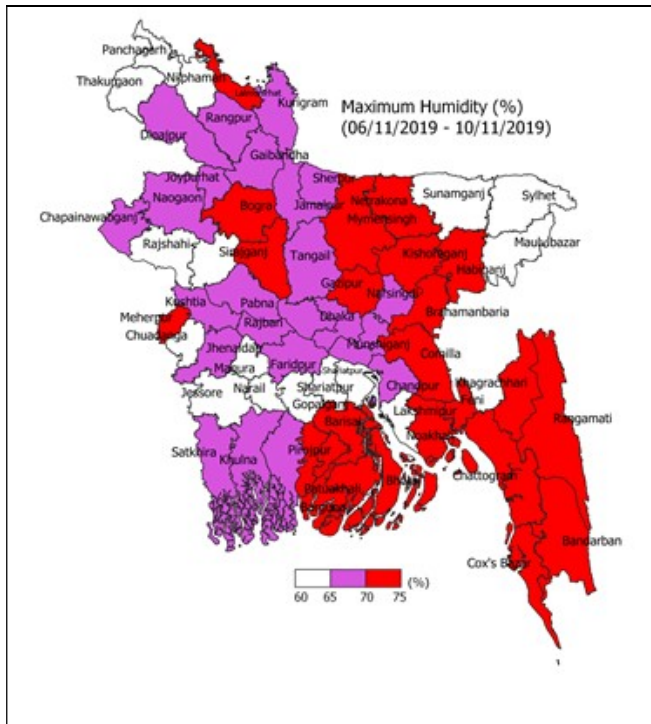
Weather may remain mainly dry with temporary partly cloudy sky over the country, having chances of light rain (04-10 mm/day) at few places over Chattogram, Mymensingh and Khulna Division during the end of this period.

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

Light fog may occur over northern part and river basin area from midnight till morning during this period.

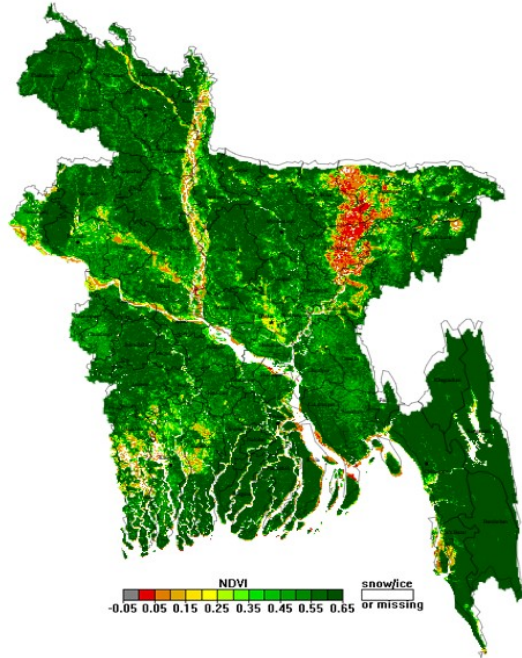
District Wise Quantitative Weather Forecast for next Five days from 06 Nov. -10 November'19



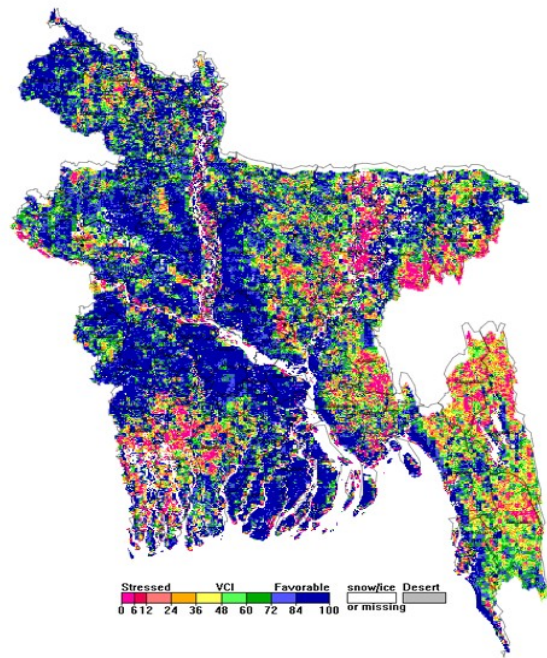


Different Satellite Products over Bangladesh

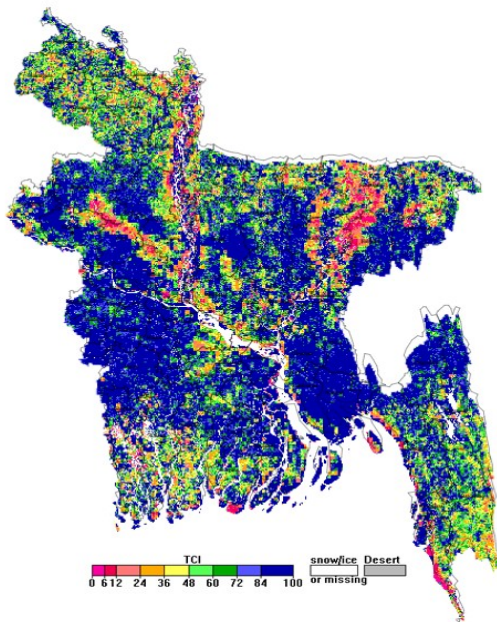
NOAA/VIIRS BLENDED NDVI composite for the week number No. 43 (22 October-28 October) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED VCI composite for the week number No. 43 (22 October-28 October) over Agricultural regions of Bangladesh

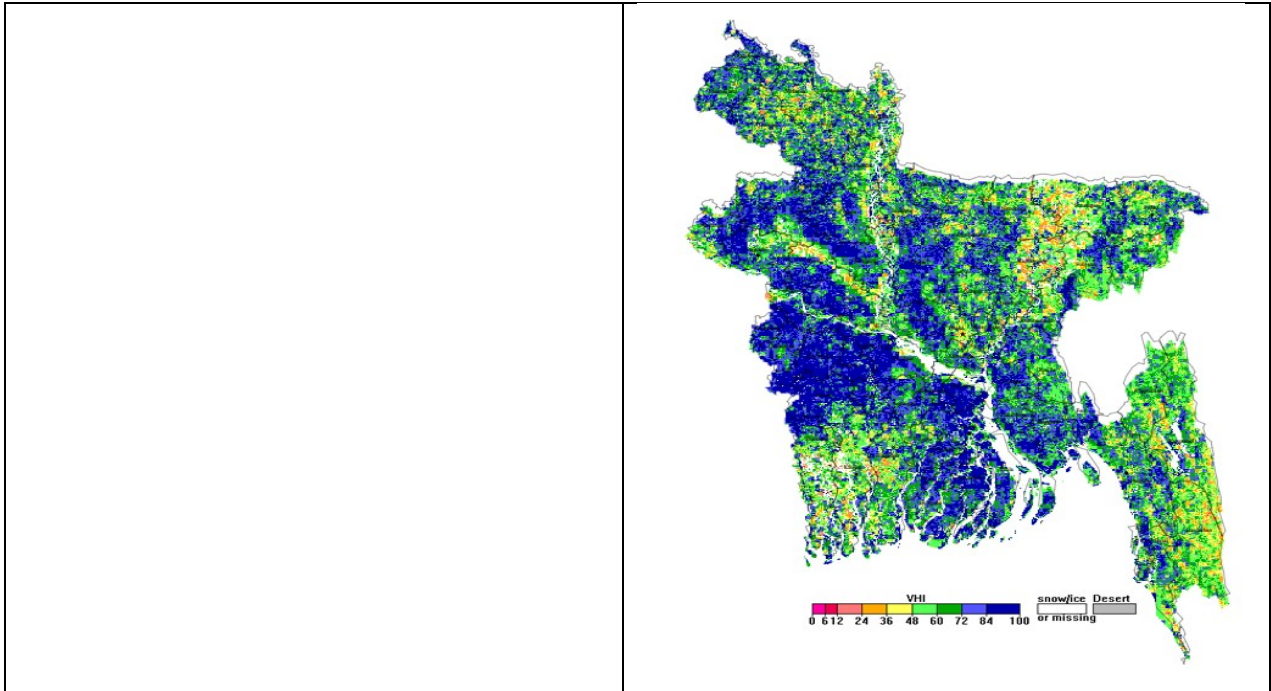


NOAA/ AVHRR BLENDED TCI composite for the week number No. 43 (22 October-28 October) over Agricultural regions of Bangladesh



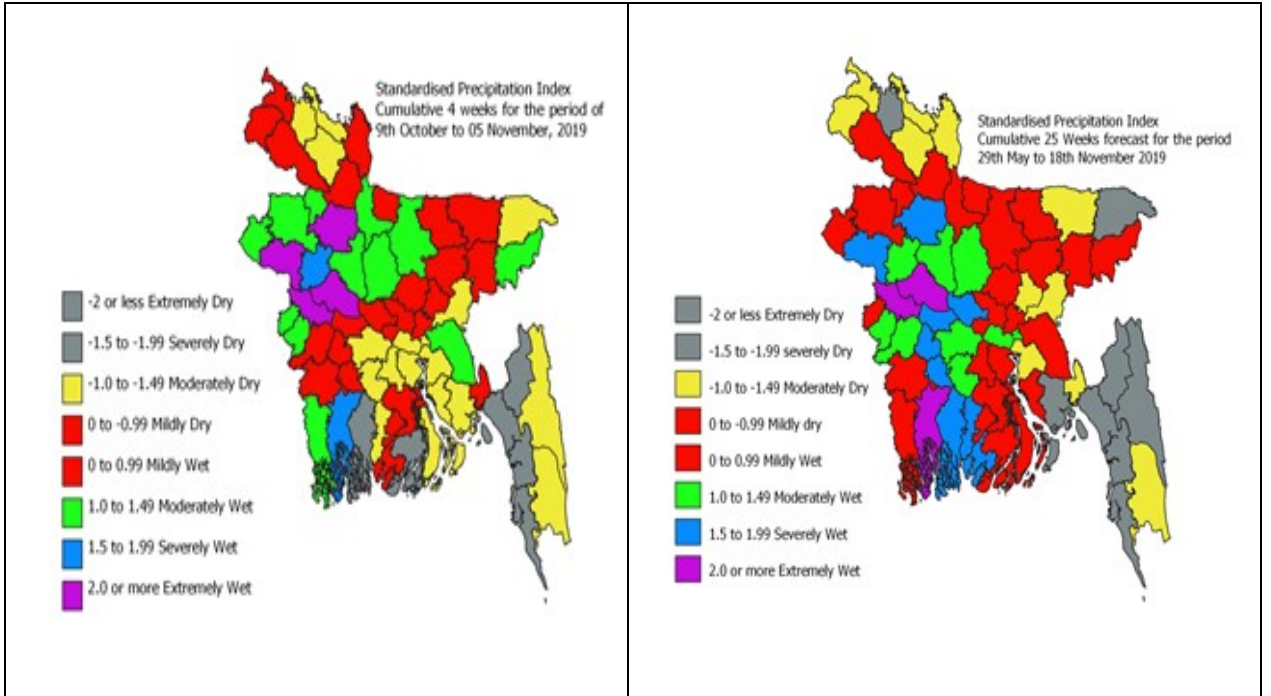
NOAA/ AVHRR BLENDED VHI composite for the week number No. 43 (22 October-28 October) over Agricultural regions of Bangladesh





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

It has been observed that during last four weeks as well as in October mild dry conditions prevails in districts located in northwest, south as well as southeast parts of Bangladesh except a few districts whereas the districts in northeast, western side and central parts of Bangladesh are under mild wet condition.



Data source: Bangladesh Meteorological Department