



# NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

09 October 2019 (WEDNESDAY)  
[FOR THE PERIOD 09.10.2019 - 13.10.2019]



## 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), The axis of monsoon trough runs through Odisha, Gangetic West Bengal to Assam across Central part of Bangladesh. One of its associated troughs extends up to North Bay. Monsoon is fairly active over Bangladesh and weak to moderate over North Bay. During next 24 hours : Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Rangpur, Rajshahi, Mymensingh, Khulna & Barishal divisions and at a few places over Dhaka, Chattogram & Sylhet divisions with moderately heavy to heavy falls at places over country.

As per the medium range quantitative district level weather forecast issued by BMD, there will be good amount of rainfall( more than 5 cm) in Barguna, Barishal, Chandpur, Habiganj, Gazipur, Khulna, Kishoreganj, Moulvibazar, Mymensingh, Narsingdi, Noakhali, Patuakhali & Sylhet. districts of the country. Day temperature may rise slightly and night temperature may remain nearly unchanged over the country.

As per the information received from Bangladesh Water Development Board (BWDB) as on 9<sup>th</sup> October, 2019, All the major rivers are in falling trend except the Kushiara and all the major rivers may fall in next 24 hours except the Brahmaputra-Kushiara. Considering the realized weather along with weather forecast, following salient agromet advisories are issued for different districts, where good amount of rainfall is likely for next five days, in the country on the standing important crops, livestock, poultry and fishery.

### **Agromet Advisories**

#### **Aman Paddy**

- Maintain 5-7 cm standing water up to maximum tillering stage.
- All the intercultural operations should be done after the current spell of rainfall.
- First weeding should be done 10-15 days after transplanting. Second weeding should be done 30-35 days after transplanting. Weeding may be done either by hand or using weedicides. 2-4 D Amine or Butachlor may be used for weeding. All these operations should be done after the current spell of rainfall. All these operations should be done after the current spell of rainfall.
- Apply 1/3rd nitrogen as top dressing 15-20 days after transplanting. Last 1/3 nitrogen as top dressing should be applied 5-7 days before panicle initiation after the current spell of rainfall.
- Continuous monitoring of the economically harmful insects like stem borer, rice hispa, rice caseworm, gall midge should be done. 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.
- There is a chance of attack of leaf folder /rice hispa in seedling and tillering stage. If there is one damage leaf per hill due to attack of leaf folder or appearance of one adult hispa per hill is observed, the farmers are advised to spray Chloropyrifos 20EC or Monocrotophos 40EC @ 1.5ml per litre of water after current spells of rain.
- In some places, crops are attacked either by stem borer or leaf eating insects. To control broadcast granular insecticides like Carbofuran 3G (at 12 kg per acre) or Phorate 10G (at 4 kg per acre).
- Regularly monitor the rice fields for plant hopper infestation. If 5 or more plant hoppers per hill are observed, spray Chess 50 WG @ 170 g/acre or Confidor 200 SL @ 40 ml/acre.

- Due to persistence of high humidity and cloudy weather. false smut may appear in rice, spray with Kocide 46 DF (Chopper hydroxide) @ 500 g in 200 litres of water per acre to control false smut and after 10 days of its application spray Tilt 200 ml in 200 litres of water.
- All plant protection measures should be done after the current spell of rainfall.
- In low land areas, still there is scope for transplanting the crop after receding water. As there is delay in transplanting, cultivation of BR22, BR23, BRR1 DHAN 38, BRR1 46, Binashail, Nigershal and local varieties may be suitable under such circumstances.

### **Vegetables**

- Provide adequate drainage facilities to drain out excess water from the field.
- Provide staking of vegetables to prevent the crops from lodging due to strong winds.
- All plant protection measures should be done.

**Ladies finger** At fruiting stage there is a chance of incidences of leaf spot, Jassid, white fly In case of spots on leaves with grey and dark margin apply carbendazim 50% WP @ 1 g/lit of water. For managing jassids and white fly Thiomithoxam 1gm/3lit. of water. Cleanliness to be maintained in the field.

**Cucurbits:** At fruiting stage, there is a chance of incidences of fruit fly, white fly, mosaic Collection and destruction of fruit fly infested fruits. Installation of pheromone trap @ 2/Bigha. For white fly apply clothianidin 50 WDG@ 3g/10lit. of water. For mosaic uproot the infected plant and spray systemic insecticide. Due to poor pollination fruit setting in such case apply Boron 20% @ 2g/lit. of water to enhance fertilization at fruit setting. Do not use any pesticide and insecticide during flowering and fruit setting.

**Brinjal:** At vegetative & fruiting stages, there is chance of fruit and shoot borer, nematode, white fly, Jassid, fruit rot. For the management of fruit and shoot borer one application of coragen @ 4 ml/tank. Cleanliness to be maintained. Apply Thiomethoxam 0.3 SG @1g/3lit. of water to manage sucking pests infestation. For nematode problem apply Fipronil 0.3G @1.5 Kg/Bigha followed by a light irrigation or Nimitz 480 EC@ 4-8 lit/ha. could be applied against root knot nematode. For white fly and jassid, apply Acetamiprid 20% SP@1g/3lit or Thiomithoxam 0.3 SG 1g/3lit of water. Avoid touching of fruits with soil to avoid rotting of fruits.

**Bitter gourd & Pointed gourd:** At vegetative growth and under the present weather condition, attack of Downy mildew may be seen in the field. Mancozeb or Chlorothalonil 2 g/lit twice at 10 days interval may be sprayed to manage the attack.

**Special Agromet Advisories for the district Pabna, ChapaiNawabganj, Rajshahi, Natore, Kushtia, Magura. Rajbari, Manikgonj, Faridpur, Madaripur, Shariatpur & Munshigonj Districts. which are affected by flood situations.**

1. Start cultivating of early winter vegetables after receding of flood water.
2. In order to minimize the impact of recent flood, it is recommended to start necessary preparation to cultivation of rabi crops.
3. Hold on all agricultural operations like application of irrigation, fertilizers, pesticides etc.
4. Provide mechanical support to banana & standing vegetables.
5. Arrange for popping of sugarcane.
6. Arrange boats for migration of essential food items and others from low to high land.

7. Arrange for migration of livestock and poultry birds to high land.
8. . If possible provide net or bamboo chatai around the pond to protect from flowing out fish with flash flood.
9. During this time, it is advised to plant fruit trees and medicinal plants. If damaged by floods, fill the gaps by replanting. This year it is necessary to put more soil on the base of the plant, remove the infected portion of the plant, fencing with sticks, and replace the dead plants with new plants and other required activities. Advise for pruning of unwanted parts for mango, jackfruits, litchi. Also clean the leaves of coconut plant.
10. Prevent feeding the livestock with rotten grasses after flood. Instead, feed the animals with concentrate and green grasses along with vitamins and mineral supplements.
11. In flood affected areas of the district, vaccinate domestic livestock like cattle, goat and sheep against BQ, HS, Foot and mouth disease as well as anthrax disease after the receding of floods..
12. After flood livestock are generally infected by parasite, therefore, it is important to provide anthelmintic treatment (After consultation with Registered Vety. Practitioner) to the livestock to prevent parasitic infection after flood.
13. There is possibility of muddy water influx from the surrounding areas into the fishery resulting reduction of dissolved oxygen contents. Stirring the water with a bamboo pole will help in increasing the gaseous exchange and protect the fishes from suffocation.
14. Due to recent flood over the zone some of the fish grower faces huge losses. Almost entire stock of fishes has flown out with flood water. After draining out of flood water, farmers should follow the following operations before new stocking in the fish pond, a. Apply lime @ 30 kg per bigha of pond. b. 15 days to 20 days after lime application apply 250-300 kg FYM per bigha of pond. If possible, provide net around the pond to protect from flowing out with flash flood.
15. Changing weather condition could lead to viral diseases to the birds. So, farmers may provide sufficient water with 1% salt and mineral mixture. Farmers are also advice to clean the sanitary condition of poultry.

## Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 09 October'19) and maximum temperature on 08 October, minimum temperature on 09 October'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	33.1	25.6	Rajshahi	Rajshahi	13	32.0	24.0
	Tangail	04	32.4	23.5		Ishurdi	32	31.8	23.0
	Faridpur	01	32.6	24.2		Bogura	50	30.6	23.3
	Madaripur	00	32.8	24.8		Badalgachhi	03	29.0	23.4
	Gopalganj	01	32.5	23.7		Tarash	27	30.0	23.6
	Nikli	Trace	33.0	25.5					
Mymensingh	Mymensingh	09	30.5	23.0	Rangpur	Rangpur	22	27.1	23.0
	Netrokona	03	29.7	24.0		Dinajpur	01	28.5	23.3
						Sayedpur	24	29.0	22.9
						Tetulia	32	24.7	22.4
Chattogram	Chattogram	00	33.2	24.5	Dimla	Dimla	04	28.7	23.5
	Sandwip	00	33.0	24.8		Rajarhat	<u>53</u>	27.5	<u>22.0</u>
	Sitakunda	00	33.5	24.0					
	Rangamati	00	<u>34.2</u>	24.5		Khulna	Khulna	01	33.5
	Cumilla	00	32.4	25.0	Mongla		11	32.5	24.5
	Chandpur	00	33.5	25.6	Satkhira		01	33.2	25.5
	M.Court	00	33.0	25.7	Jashore		00	32.0	24.4
	Feni	03	33.5	24.5	Chuadanga		02	33.3	24.0
	Hatiya	03	31.5	25.0	Kumarkhali		27	31.6	24.0
	Cox's Bazar	00	32.8	25.5	Barishal	Barishal	02	32.5	24.0
	Kutubdia	00	32.6	25.5		Patuakhali	00	33.2	25.5
	Teknaf	00	32.2	24.5		Khepupara	00	32.5	23.3
						Bhola	00	32.0	24.3
	Sylhet	Sylhet	Trace	30.2	24.0				
Srimangal		03	30.6	22.6					

### Highlights:

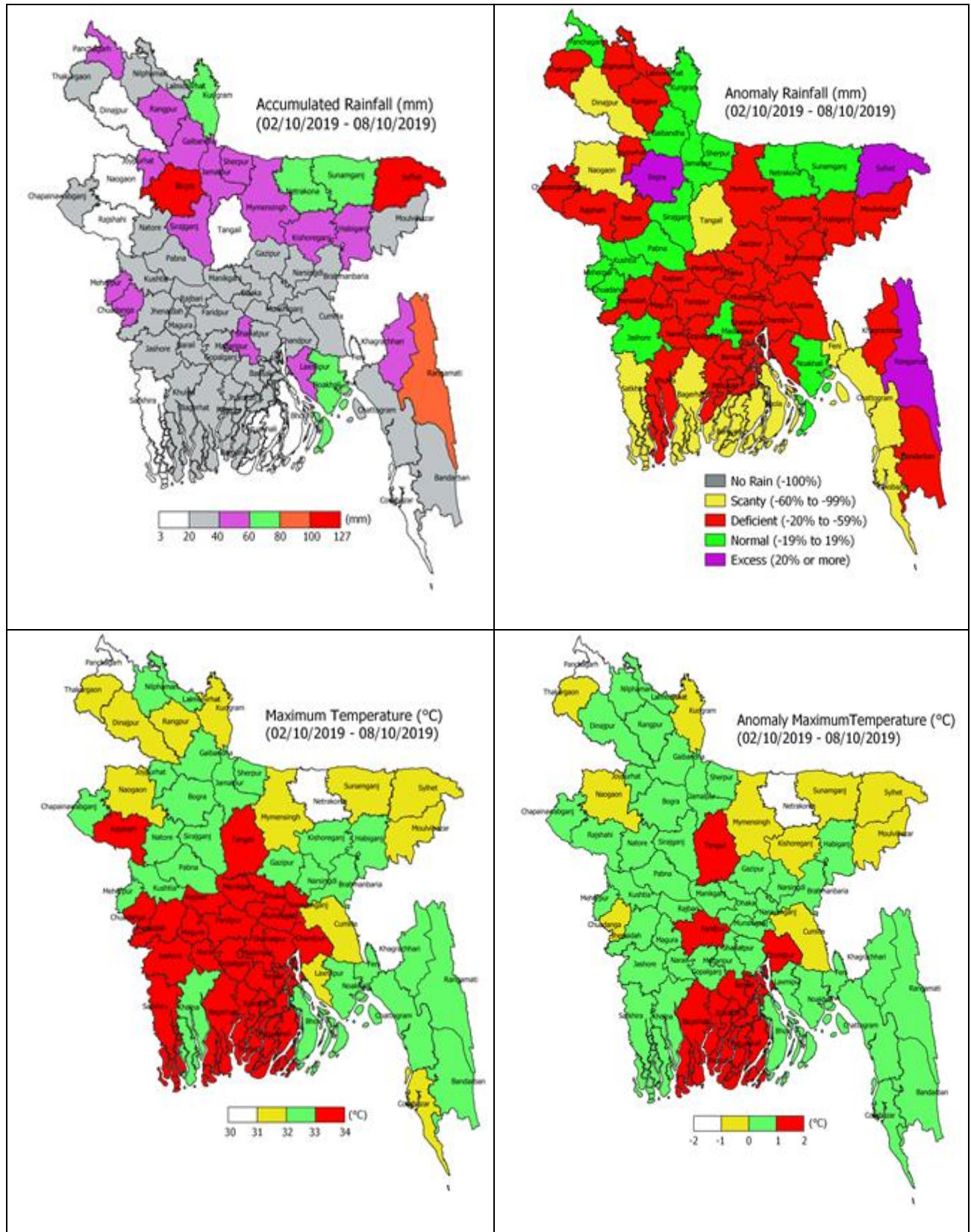
- Country average bright sunshine hour was 6.62 hours per day during last week.
- Country average free water loss during the previous week was 2.66 mm per day.

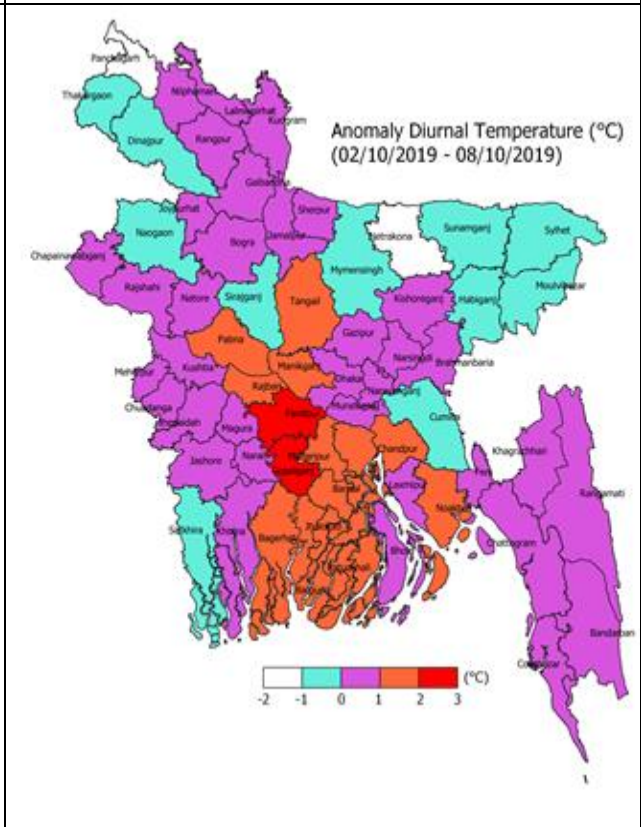
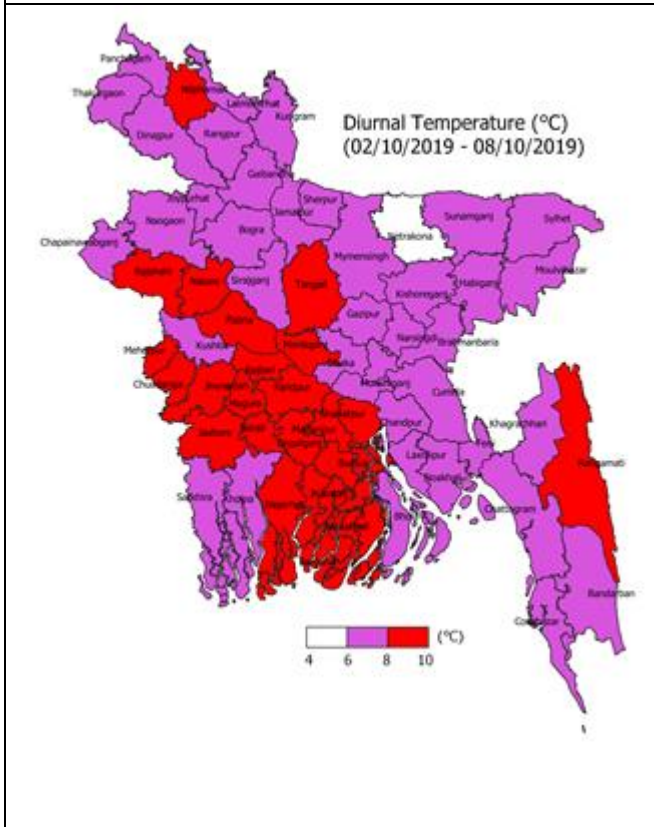
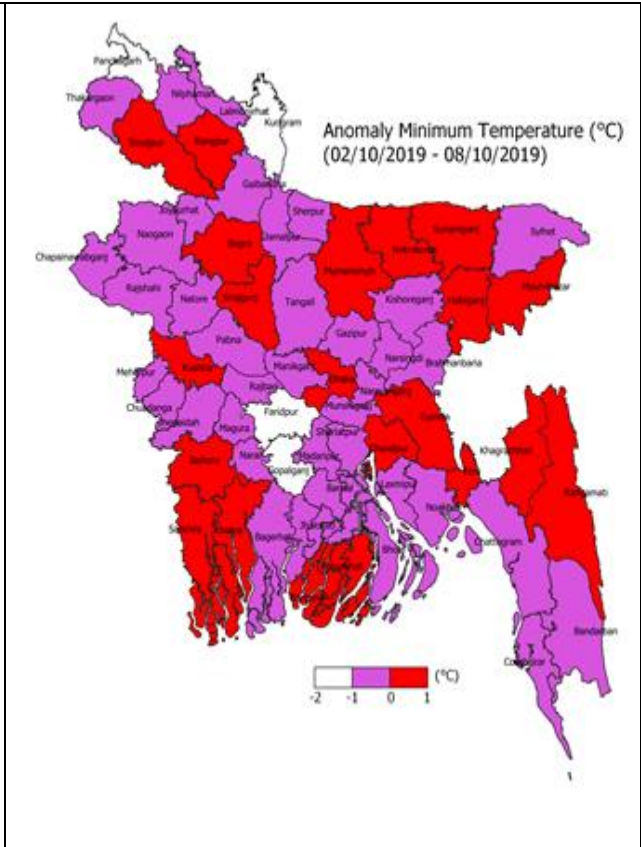
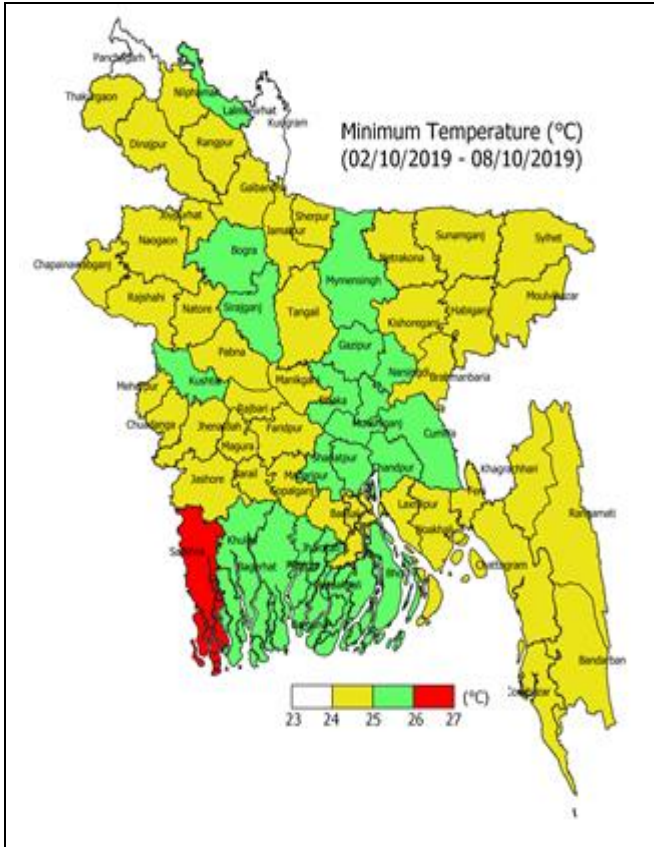
### Weather Forecast Valid for 24 Hours commencing 06 PM Today:

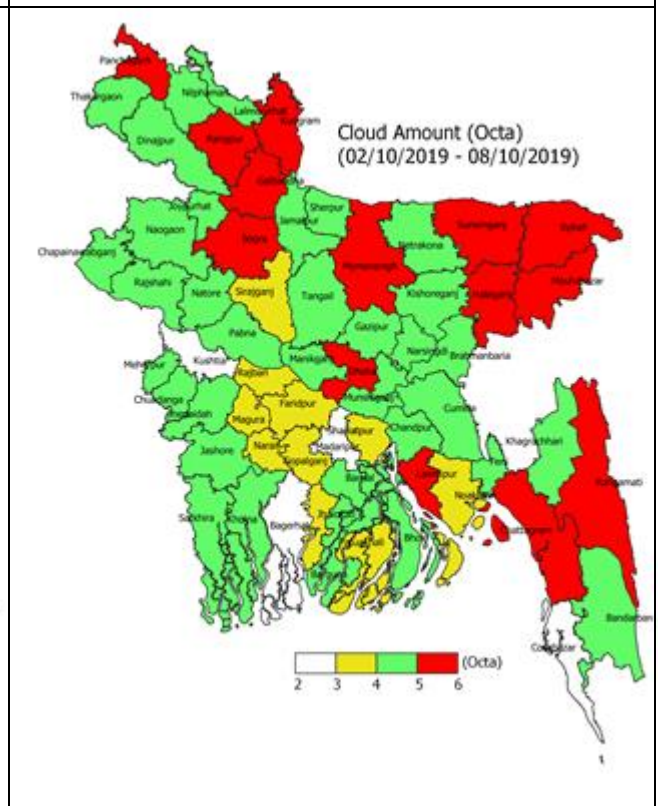
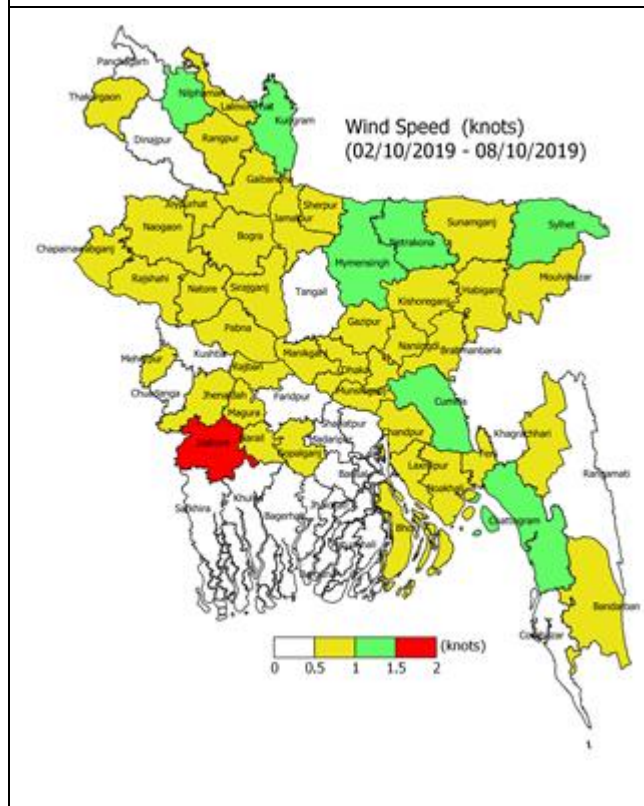
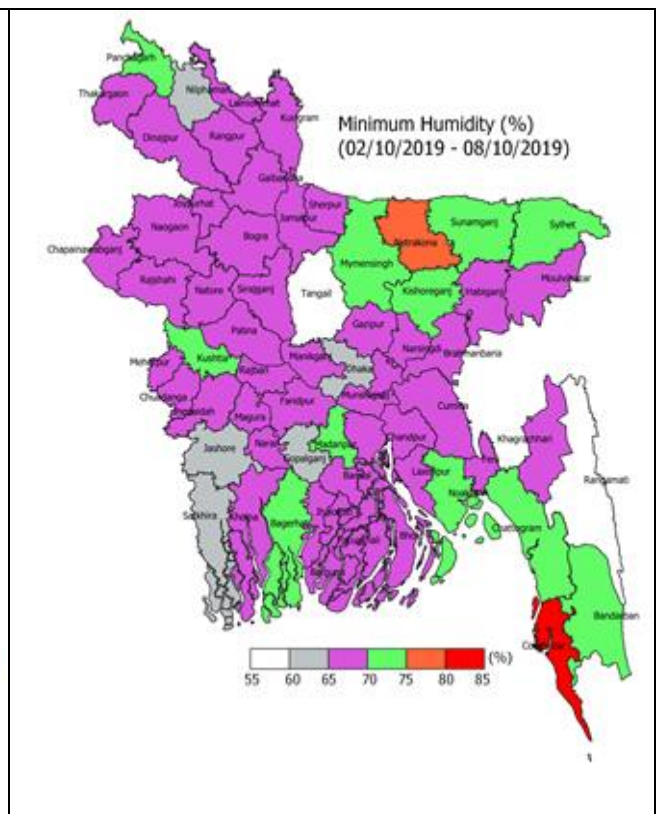
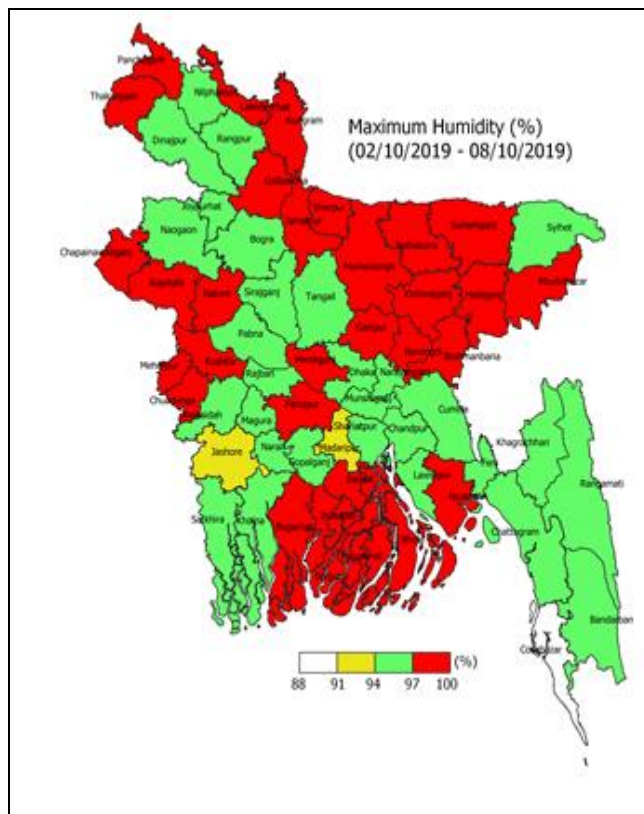
**Forecast:** Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Rangpur, Rajshahi, Mymensingh, Khulna & Barishal divisions and at a few places over Dhaka, Chattogram & Sylhet divisions with moderately heavy to heavy falls at places over country.

**Temperature:** Day temperature may fall slightly & night temperature may remain nearly unchanged over the country.

### Spatial Distribution of weather parameters for the Week ending 08 October 2019







### **Weather Forecast and Advisory for the Period of 09.10.2019 to 14.10.2019**

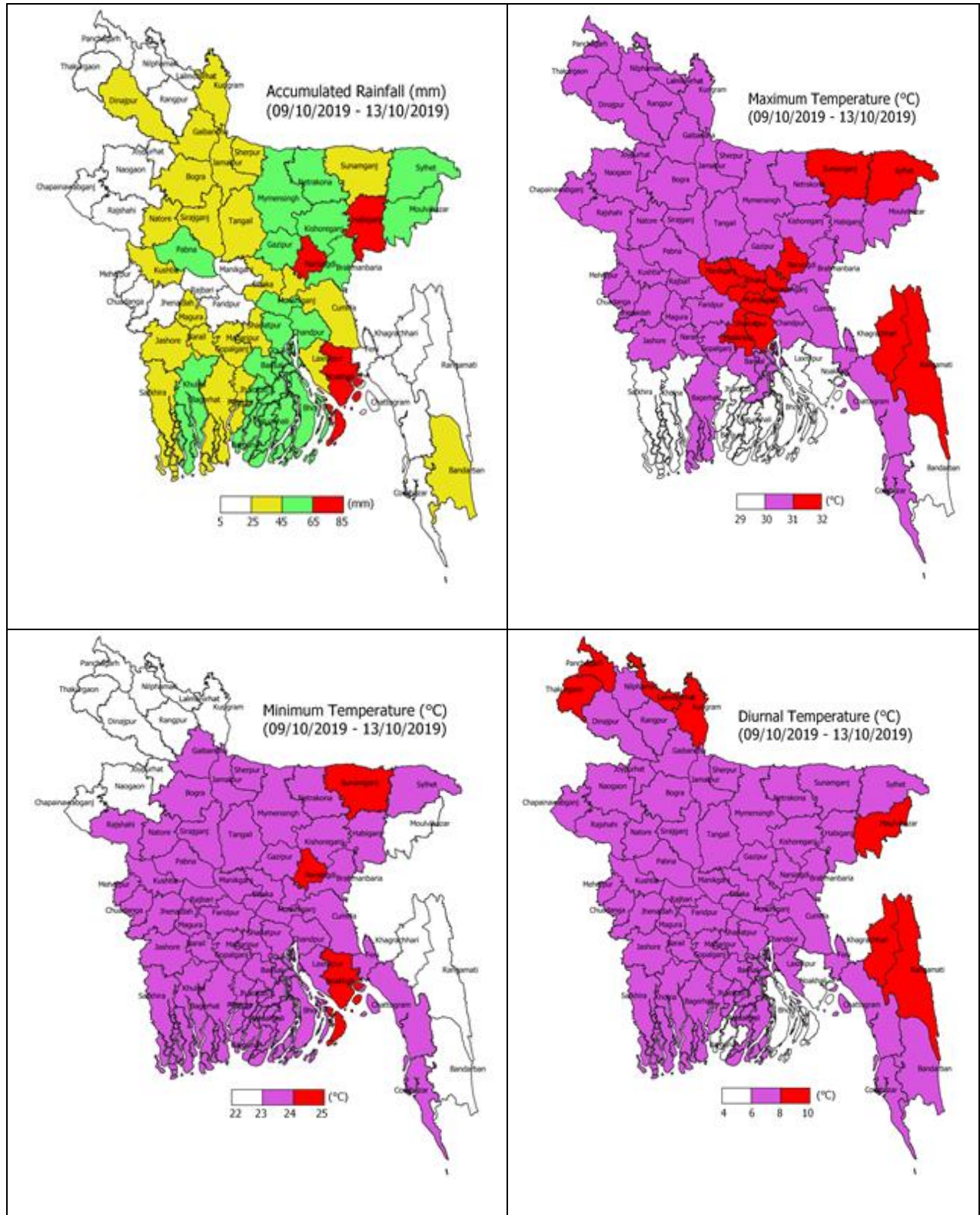
Bright sunshine hour is likely to be from 5.00 to 6.00 hours per day during this week. Average free water loss during the next week is likely to be from 2.50 to 3.50 mm per day.

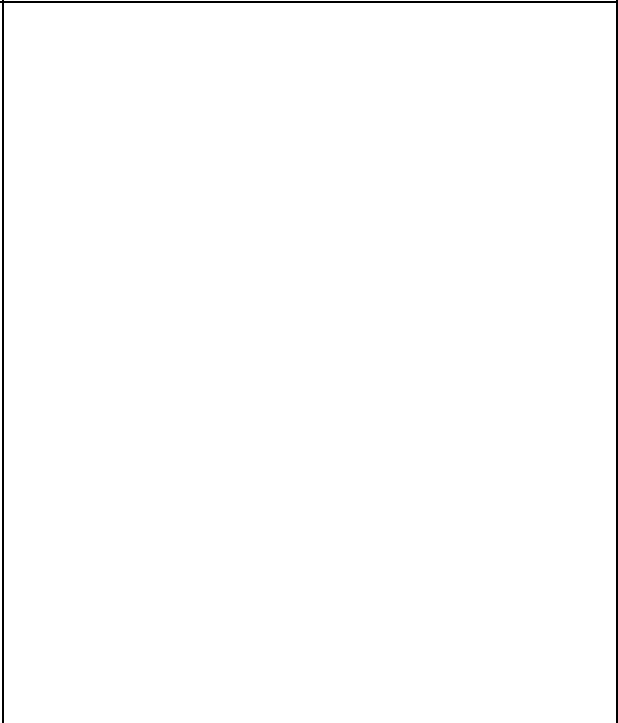
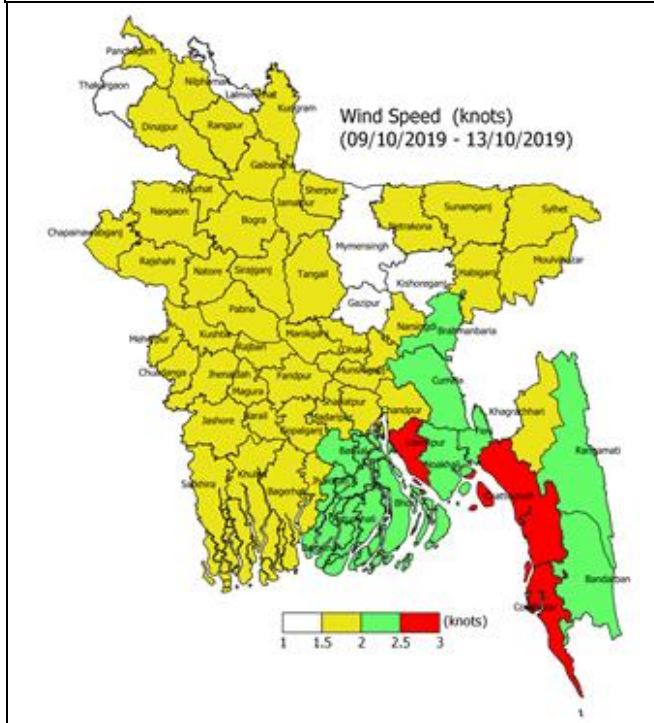
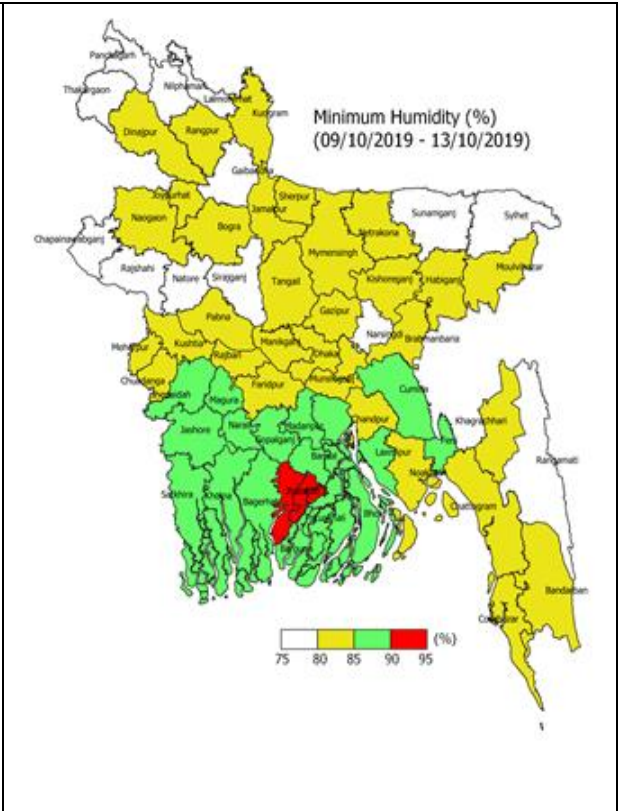
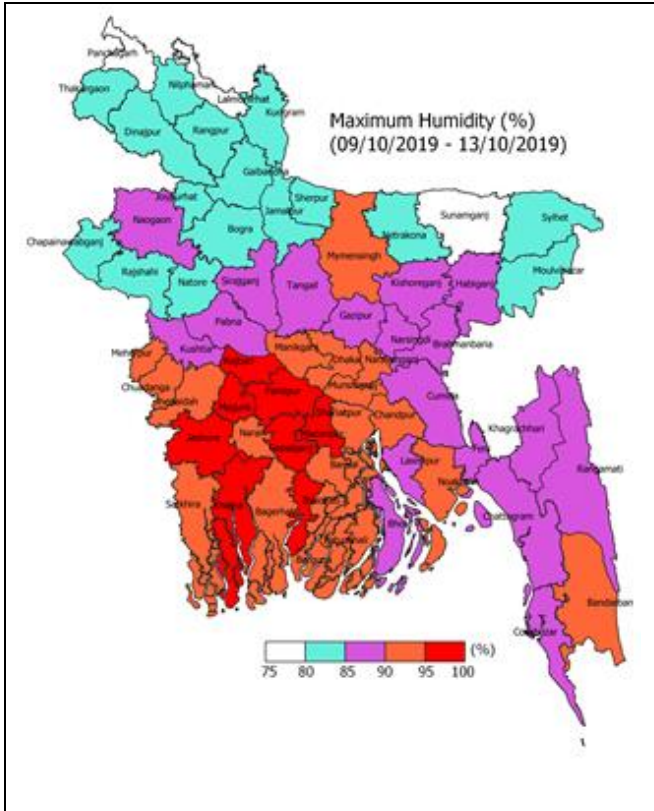
Light (04-10 mm/day) to moderate (11-22 mm/day) rain/thunder shower is likely to occur at many places over Dhaka, Mymensingh, Chattogram, Sylhet, Khulna and Barishal divisions and at a few places over Rajshahi and Rangpur divisions, with chances of moderately heavy (23-43 mm/day) falls at places over the country during the first half of this period.

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

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

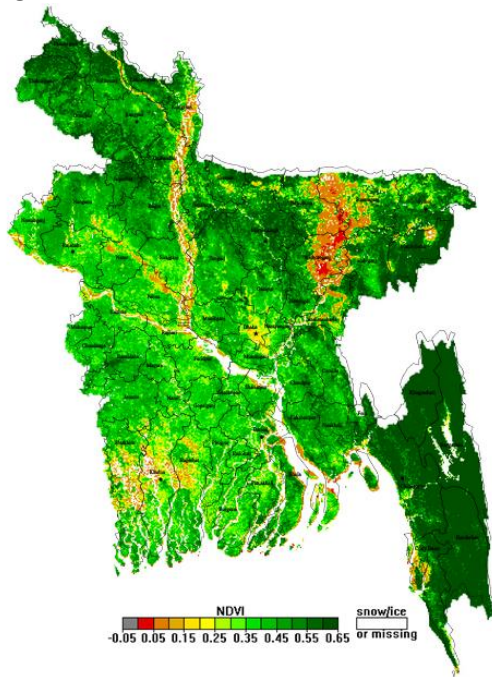
District Wise Quantitative Weather Forecast for next Five days from 09 October -13 October'19



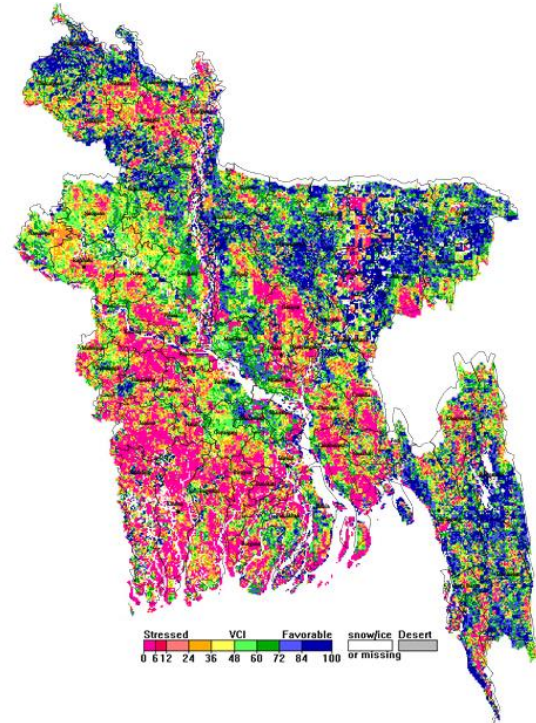


## Different Satellite Products over Bangladesh

NOAA/VIIRS BLENDED NDVI composite for the week number No. 39 (21 September -27 September) over Agricultural regions of Bangladesh

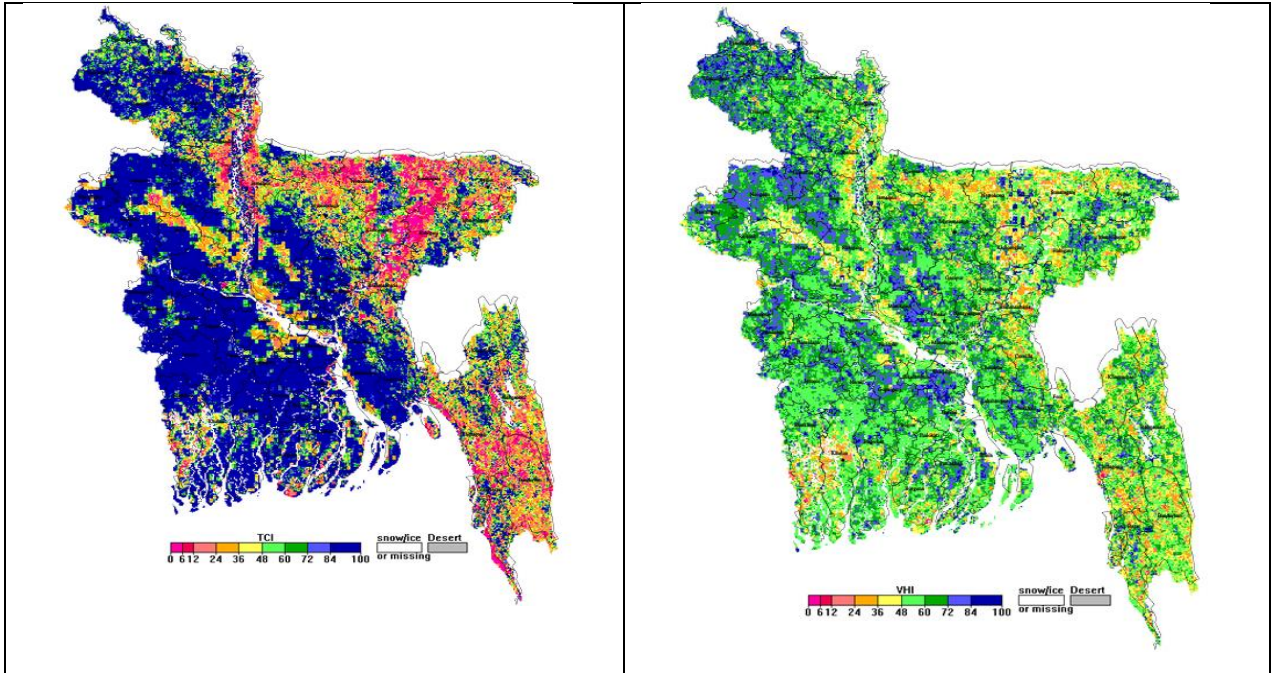


NOAA/ AVHRR BLENDED VCI composite for the week number No. 39 (21 September -27 September) over Agricultural regions of Bangladesh



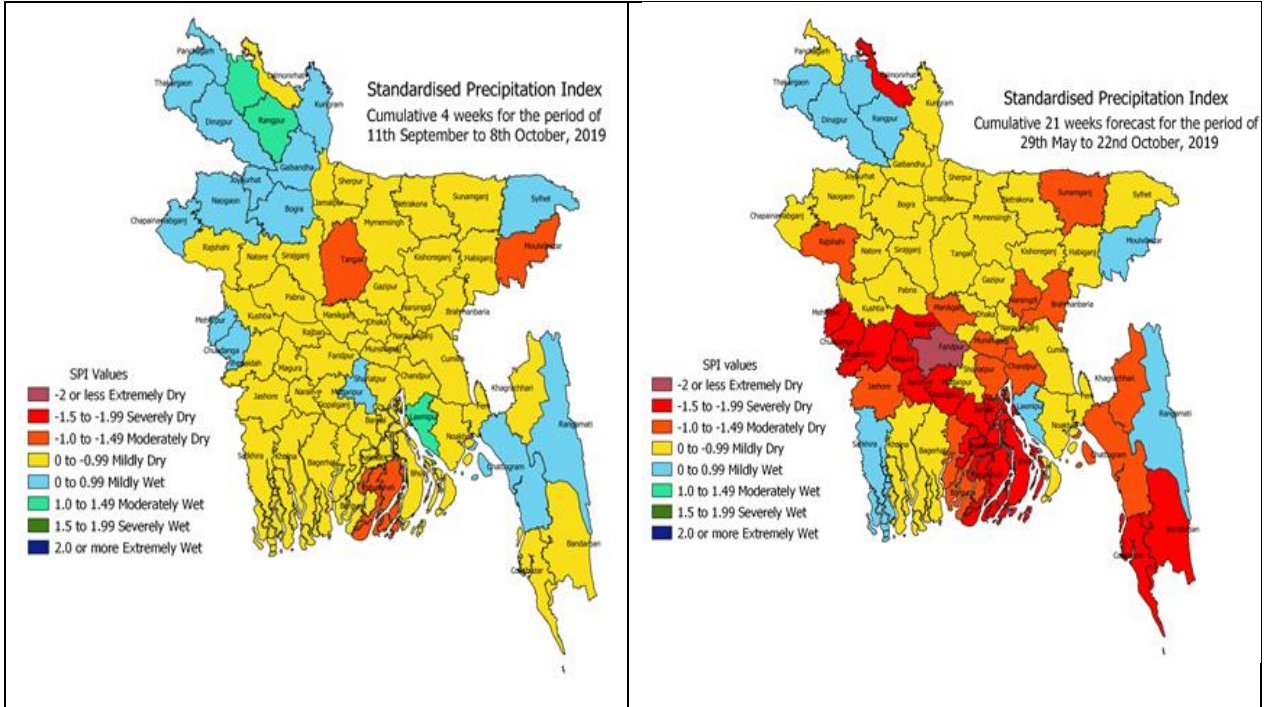
NOAA/ AVHRR BLENDED TCI composite for the week number No. No. 39 (21 September -27 September) over Agricultural regions of Bangladesh

NOAA/ AVHRR BLENDED VHI composite for the week number No. 39 (21 September -27 September) 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 September to October mild wet conditions prevails in districts located in northwest as well as southeast parts of Bangladesh whereas the districts in south, northeast, some parts of western side and central parts of Bangladesh are under mild to moderate dry condition.



Data source: Bangladesh Meteorological Department

## RAINFALL AND RIVER SITUATION SUMMARY AS ON OCTOBER 09, 2019

(Source: Bangladesh Water Development Board)

### Outlook:

All the major rivers are in falling trend except the Kushiyara.

All the major rivers may fall in next 24 hours except the Brahmaputra-Kushiyara.

### General River Condition

Monitoring Water Level Stations	93	Water Level Steady in last 24 hours	02
Water Level Rise in last 24 hours	23	Total not Reported	00
Water Level Fall in last 24 hours	68	<b>Above Danger Level</b>	00