



# NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

24 July 2019 (WEDNESDAY)  
[FOR THE PERIOD 24.07.2019 - 28.07.2019]



## 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), monsoon is fairly active over Bangladesh and moderate over North Bay and light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at most places over Rangpur division; at many places over Rajshahi, Mymensingh, Sylhet & Chattogram divisions and at a few places over Dhaka, Khulna & Barishal divisions with moderately heavy to heavy falls at places over the country. According to the medium range weather forecast issued by BMD, substantial amount of rainfall is likely almost entire Bangladesh especially on 26<sup>th</sup> & 27<sup>th</sup> July 2019. Besides, there was widespread flood condition during last week. According to the outlook on flood condition issued by Bangladesh Water Development Board, flood situation in Gaibandha, Jamalpur, Bogra, Tangail, Serajganj, Manikganj, Rajbari, Faridpur and Munshiganj districts may remain unchanged, while Flood situation in Sylhet and Sunamganj may deteriorate to some extent. In view of the above, following agromet advisories are issued for the flood affected districts of the country to minimise the impact of flood water on the standing crops, livestock, poultry and fishery.

### **Advisories for Paddy Cultivation**

1. Maintain proper drainage channel to drain out the stagnant water. Transplanting of seedlings may be done after lowering of water in the main field. Before transplanting root dip treatment of seedlings should be done with fungicide (Carbendazim) and /or insecticide (cypermethrin) @1-2ml/ litre of water.
2. Flood condition is worsen in large part of the district, at the same time Aman paddy transplanting is going on so, in this regards some farmers are already transplanted the seedling in the main filed and some are still to transplant but flood water may kill the seedling in the main field and seedling in the nursery bed .If there is the total damage of seedlings or crops in the main field, farmers are advised to sowing seeds for replanting with medium to short duration varieties in nursery bed within 1st week of August.
3. Seedlings should be transplanted after receding of flood water.
4. Prepare floating seed bed where flood water is not receding shortly.
5. In order to escape from another flood like situation, submergence tolerant varieties should be considered.
6. Farmers should arrange to inundate their paddy fields by repairing of old bunds/ construction of new bunds. This will facilitate easy puddling and transplanting.
7. Initiative should be taken for raising community nursery for late planting with old seedlings
8. The farmers were suggested to use 21-25 days old seedlings and adopt closer spacing of 15 cm X 15 cm for transplanting with the late sown seedlings.
9. When planted with relatively aged seedlings, the farmers were to be suggested to use a greater number of seedlings (4-5 seedlings per hill) with closer spacing of 20 cm x 15 cm and ensure application of at least recommended dose of fertilizer.
10. Late and staggered planting with the old seedlings (50-60 days old seedlings) (If the field is heavily damaged).
11. Direct seeding with the photo insensitive short duration variety.
12. Adoption of submergence tolerance varieties.

13. In partially affected fields, drain excess water and apply 1/3rd N<sub>2</sub> + 50% K<sub>2</sub>O as top dressing during the tillering stage.

#### **Other Crops**

1. Complete drain out of water from vegetable and other standing crop fields.
2. Start cultivating of early winter vegetables after receding of flood water

#### **Advisories for Fishery**

1. Due to recent flood over the district 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.
  - c. Apply 250-300 kg FYM per bigha of pond.
  - c. If possible, provide net around the pond to protect from flowing out with flash flood.
2. Removal of the unwanted weeds.
3. 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.

#### **Advisories for Livestock**

1. Due to flood, if the flood water is entering in the cow shed then immediately cattle should be transferred from the shed to high land where flood water is not exits.
2. Feeding of concentrate and green grasses along with vitamins and mineral supplements.
3. If grass is not available then supply the leaves of edible tree like banana, bamboo, mango, jack fruit etc.
3. Preparation of urea treated straw.
4. Supply of adequate boiled cool water tom prevents bacterial disease.
5. Feeding of vitamins and mineral supplements.

#### **Advisories for Poultry**

1. Due to flood like situation, poultry may get infected by disease so farmers are advised to feed tetracycline powder with rice to their poultry.
2. 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.
3. Provide balanced feed, fresh water.
4. Making availability of concentrate feed and kitchen waste and feeding of vitamins and mineral supplements.
5. Supply of adequate pure & clean drinking water.

## Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 24 July'19) and maximum temperature on 23 July, minimum temperature on 24 July' 2019 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	35.6	28.6	Rajshahi	Rajshahi	17	34.8	25.0
	Tangail	Trace	34.2	26.0		Ishurdi	19	35.0	25.5
	Faridpur	00	35.4	26.7		Bogura	17	32.5	26.0
	Madaripur	00	34.8	27.3		Badalgachhi	65	33.5	25.0
	Gopalganj	Trace	34.2	27.0		Tarash	32	33.8	25.8
	Nikli	06	34.0	26.0					
Mymensingh	Mymensingh	14	33.0	25.5	Rangpur	Rangpur	85	30.8	25.0
	Netrokona	17	32.3	25.5		Dinajpur	57	33.3	26.0
						Sayedpur	28	32.5	25.0
Chattogram	Chattogram	16	31.7	25.5		Tetulia	36	30.2	25.4
	Sandwip	22	31.0	25.6		Dimla	31	30.4	25.6
	Sitakunda	29	30.5	25.8		Rajarhat	69	28.8	24.4
	Rangamati	17	30.8	25.0	Khulna	Khulna	00	36.3	27.8
	Cumilla	00	32.5	26.9		Mongla	02	35.5	27.3
	Chandpur	00	34.8	27.9		Satkhira	00	36.2	27.5
	M.Court	06	34.0	27.4		Jashore	00	36.8	27.2
	Feni	79	34.0	25.5		Chuadanga	00	36.2	26.5
	Hatiya	09	31.0	26.5		Kumarkhali	00	35.4	27.5
	Cox's Bazar	91	32.0	24.8	Barishal	Barishal	01	34.4	27.0
Kutubdia	69	31.2	25.0	Patuakhali		01	33.9	27.5	
Teknaf	47	32.2	24.5	Khepupara		01	32.8	27.2	
				Bhola		00	33.2	27.4	
Sylhet	Sylhet	50	32.0	24.4					
	Srimangal	07	34.0	25.8					

### Highlights:

- Country average of bright sunshine hour was 1.51 hours per day during last week.
- Country average of free water loss during the previous week was 1.85 mm per day.

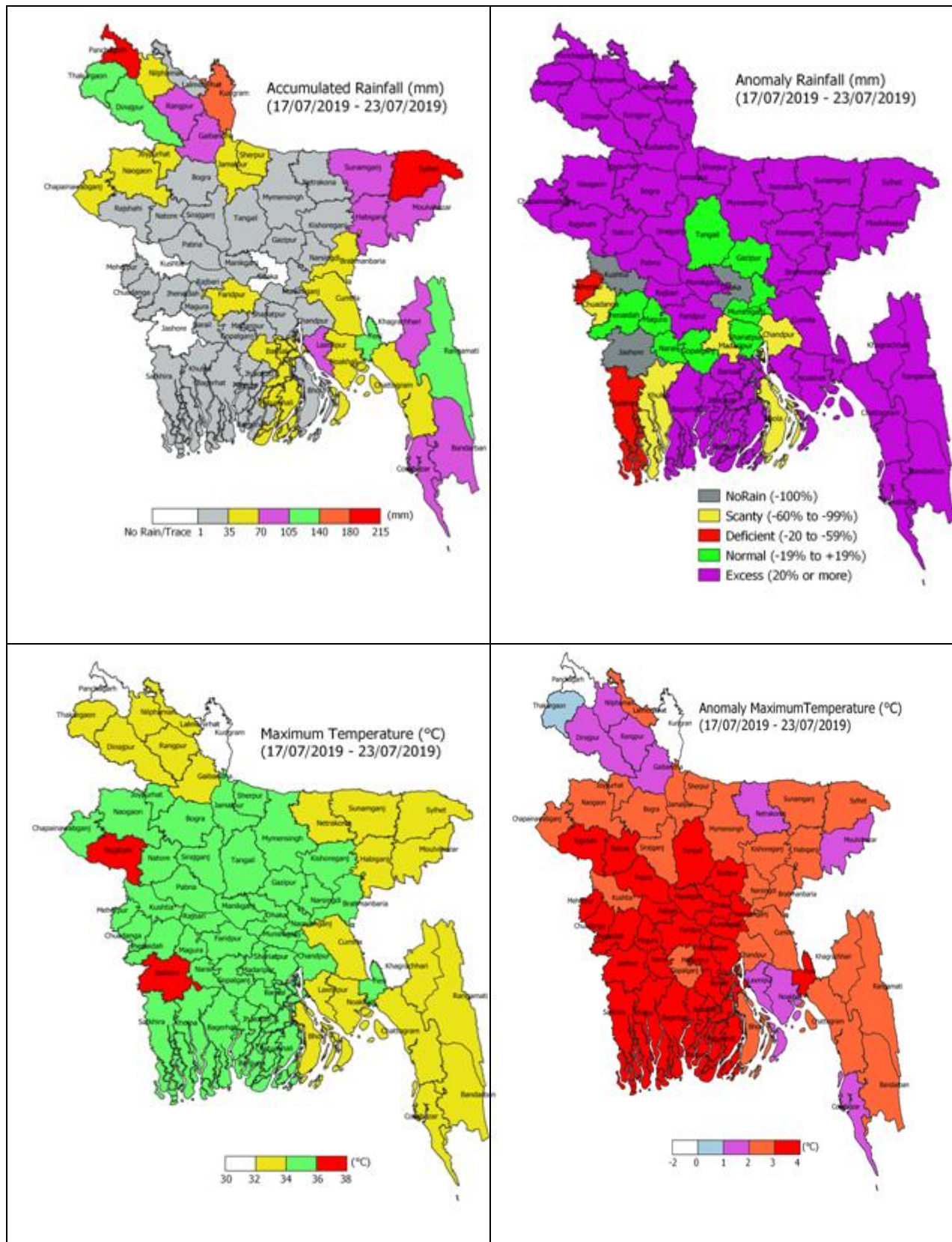
### Weather Forecast Valid for 24 Hours commencing 06 PM Today:

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

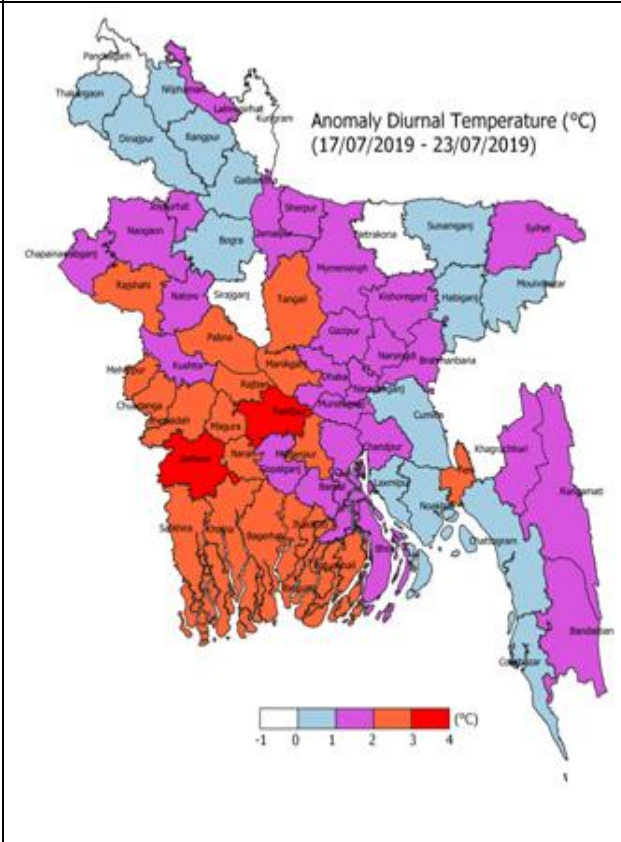
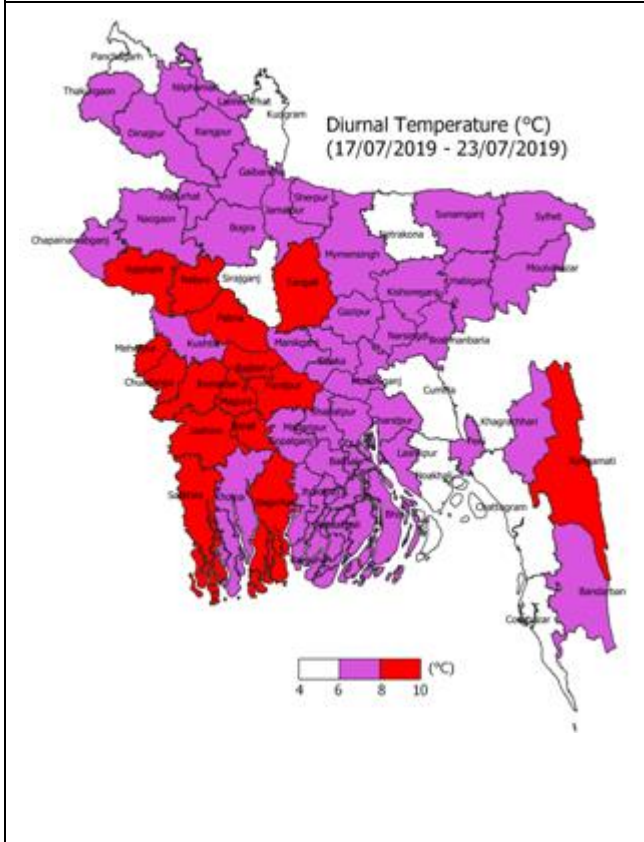
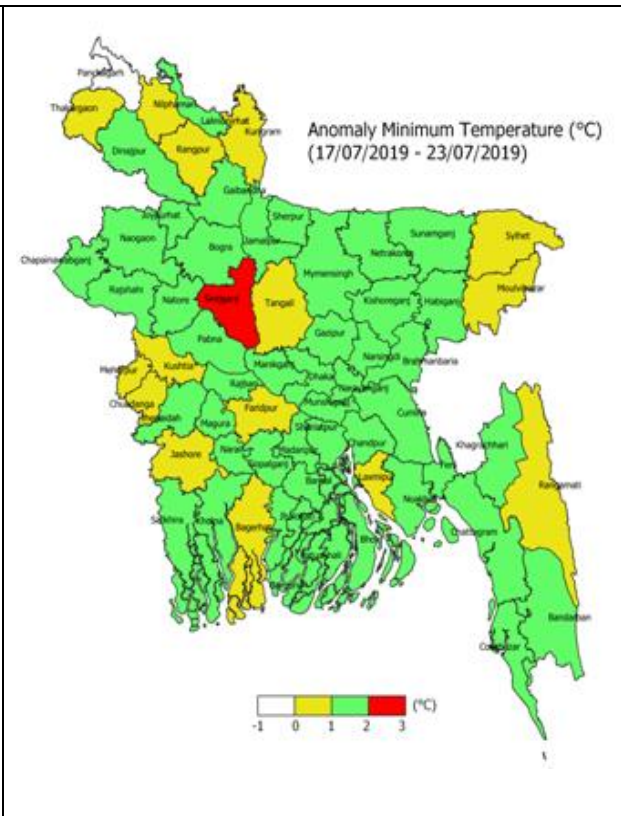
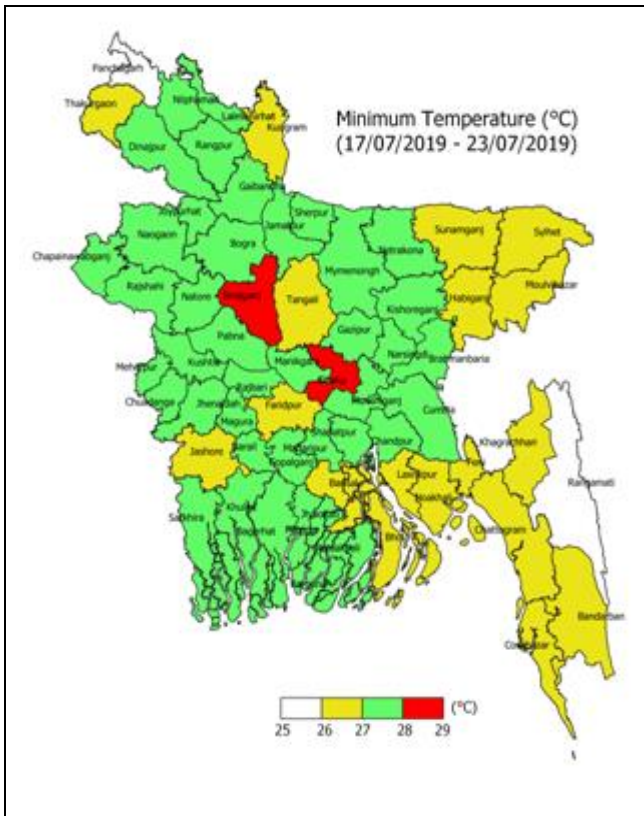
**Heat Wave:** Mild heat wave is sweeping over the regions of Khulna, Satkhira, Jashore & Chuadanga and it may abate.

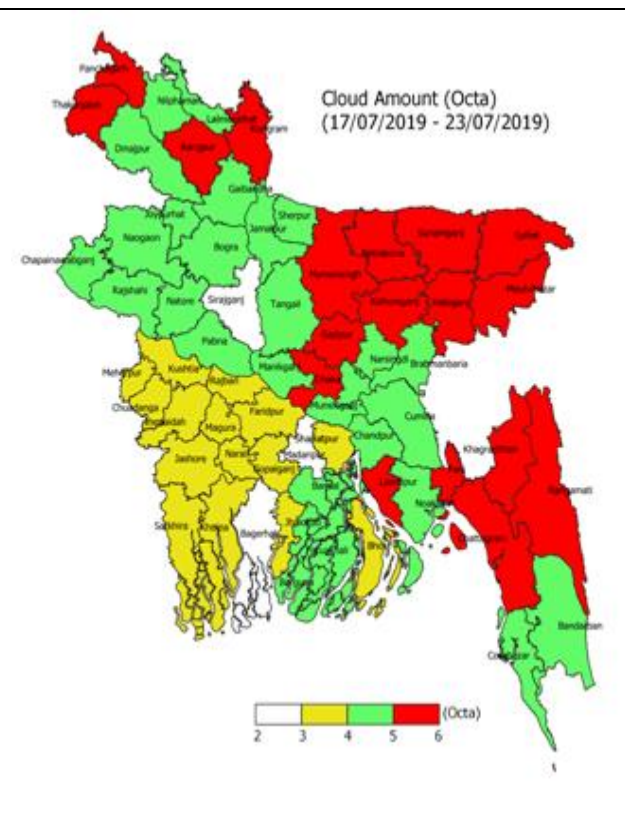
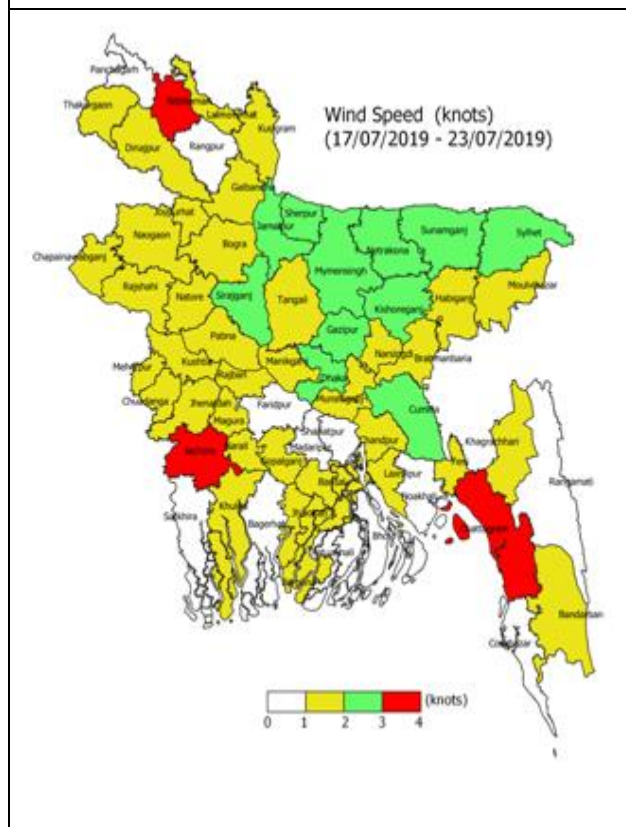
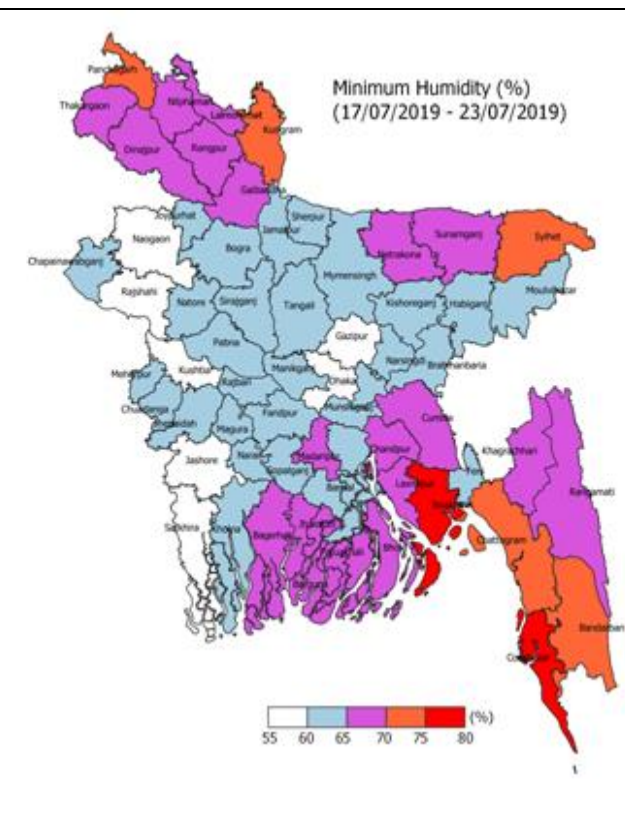
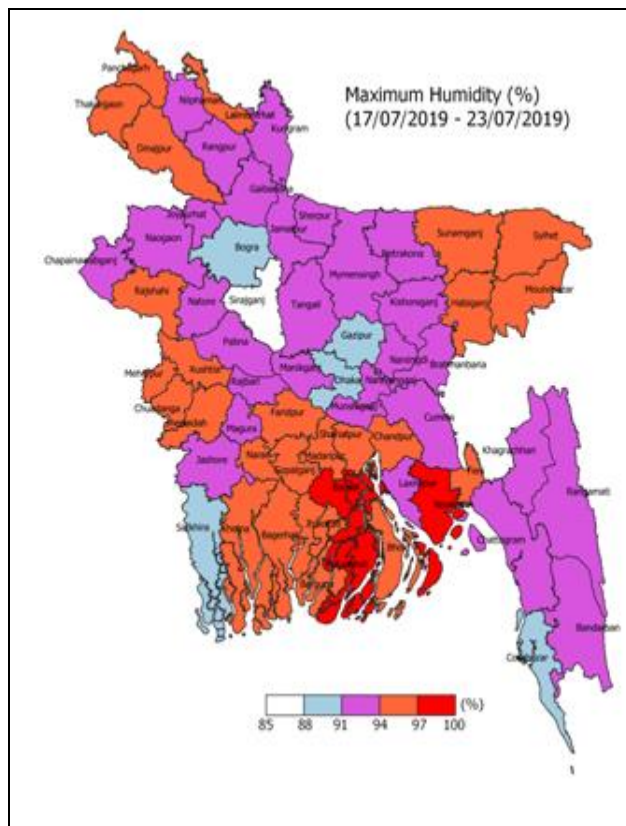
**Temperature:** Day and night temperature may fall slightly over the country.

## Spatial Distribution of weather parameters for the Week ending 23<sup>th</sup> July 2019









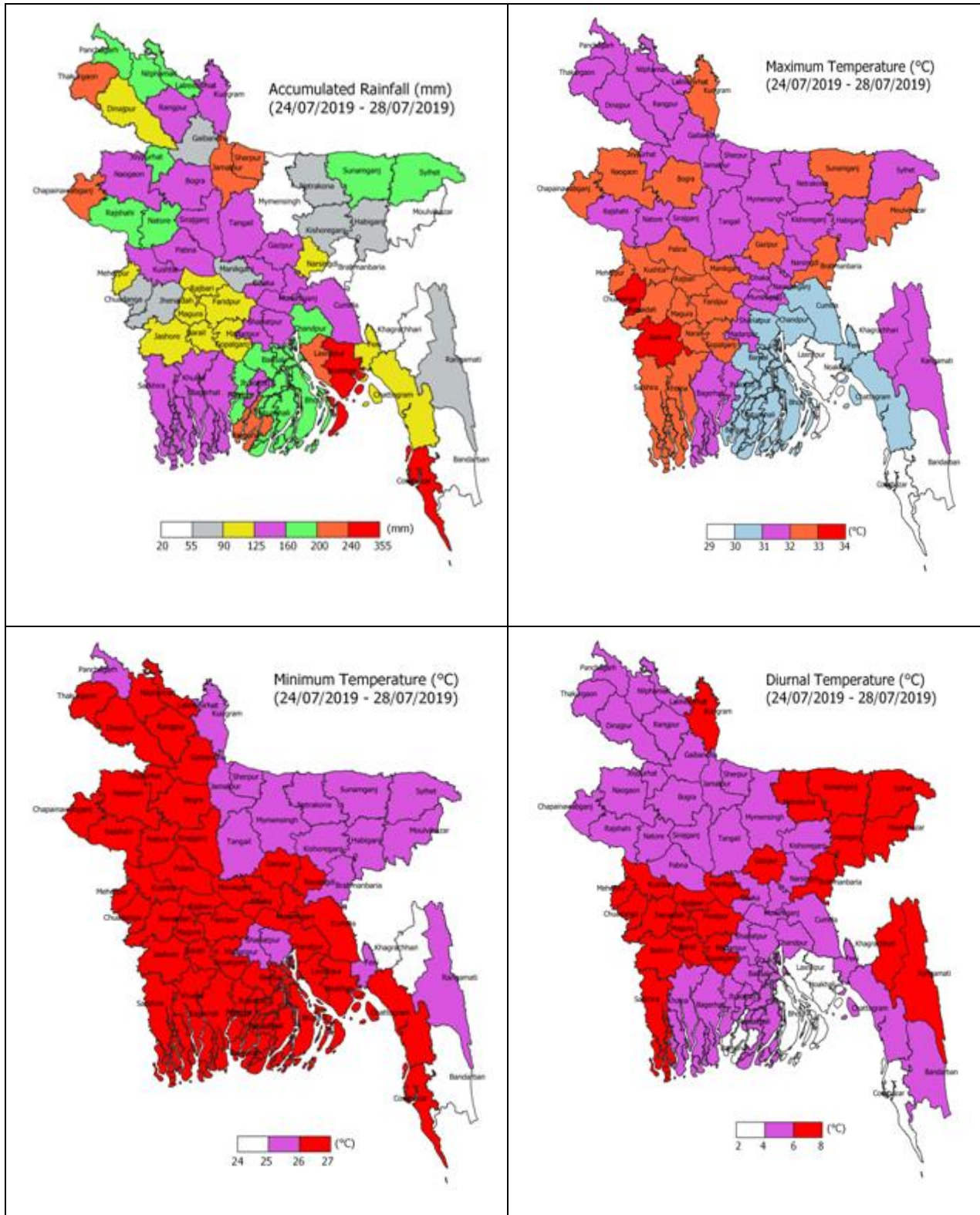
### **Weather Forecast and Advisory for the Period of 22.07.2019 to 31.07.2019**

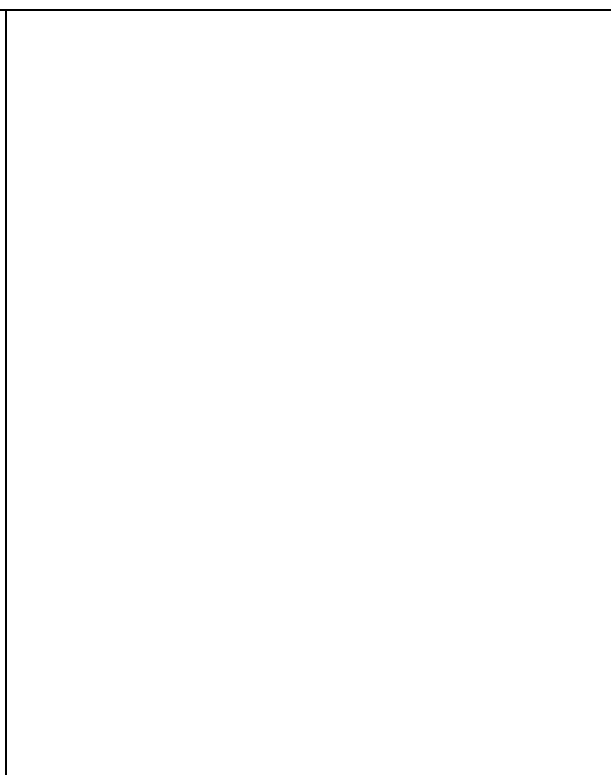
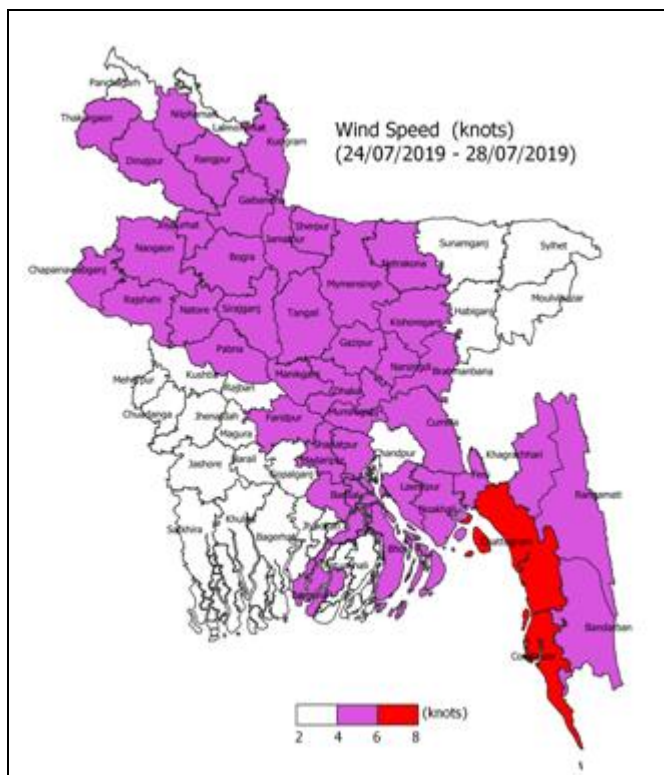
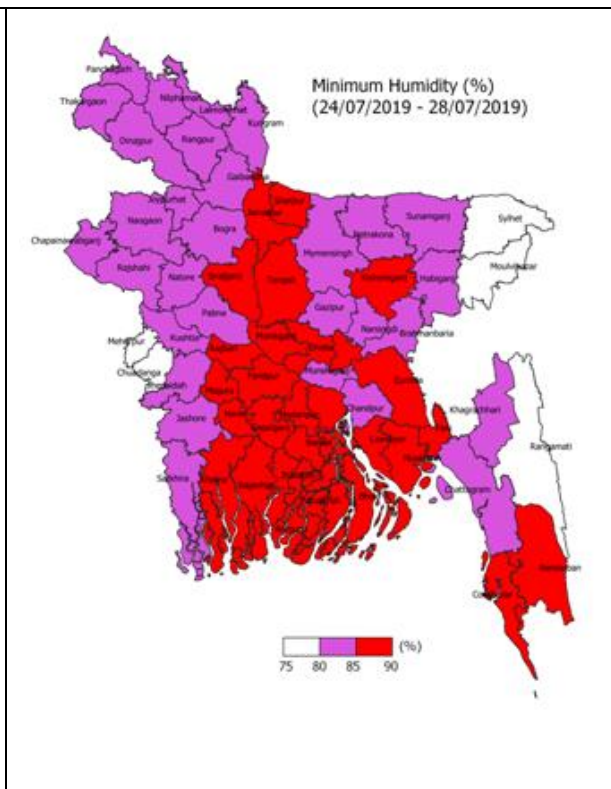
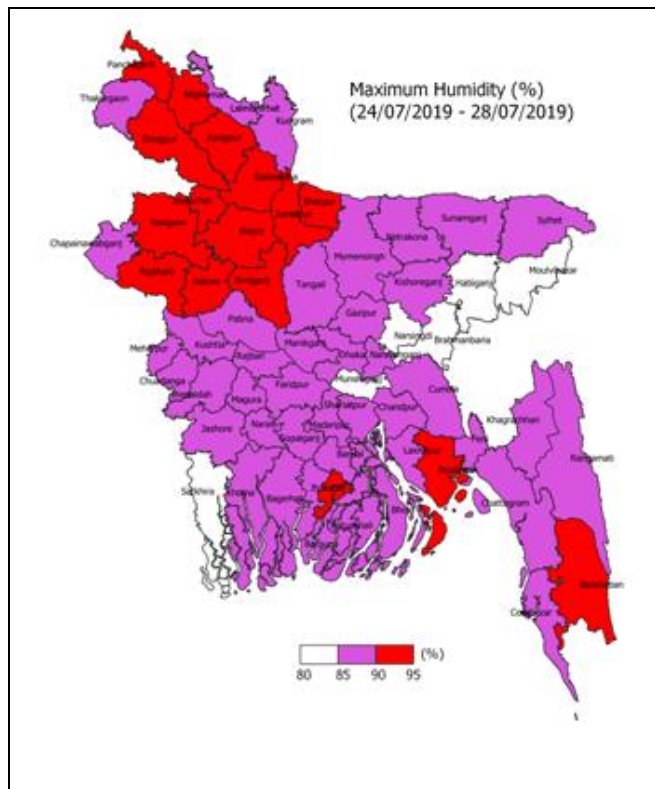
Bright sunshine hour is likely to be from 5.00 to 6.00 hours per day during this week. Average of free water loss during the next week is likely to be from 3.00 to 4.00 mm per day.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder showers is likely to occur at many places over Sylhet, Mymensingh, Chattogram, Rangpur, Barisal and Dhaka divisions and a few places over Khulna and Rajshahi divisions, With a chance of moderately heavy (23-43 mm/d) to heavy falls (44-88 mm/d) at places over the country during this period.
- Rainfall activities may increase gradually during this period.
- Slight falls in day and night temperature during this period.



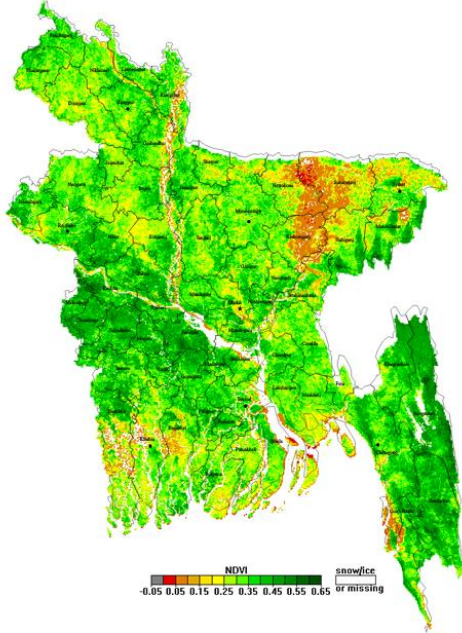
District Wise Quantitative Weather Forecast for next Five days from 24 July -28 July'19



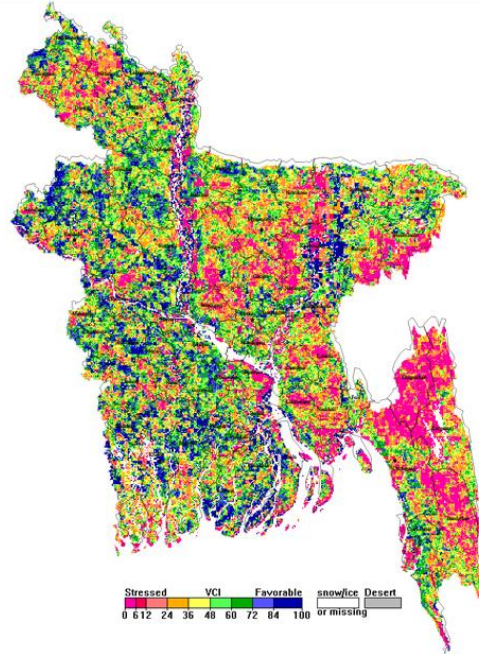


## Different Satellite Products over Bangladesh

NOAA/VIIRS BLENDED NDVI composite for the week number No. 28 (08 July -14 July) over Agricultural regions of Bangladesh



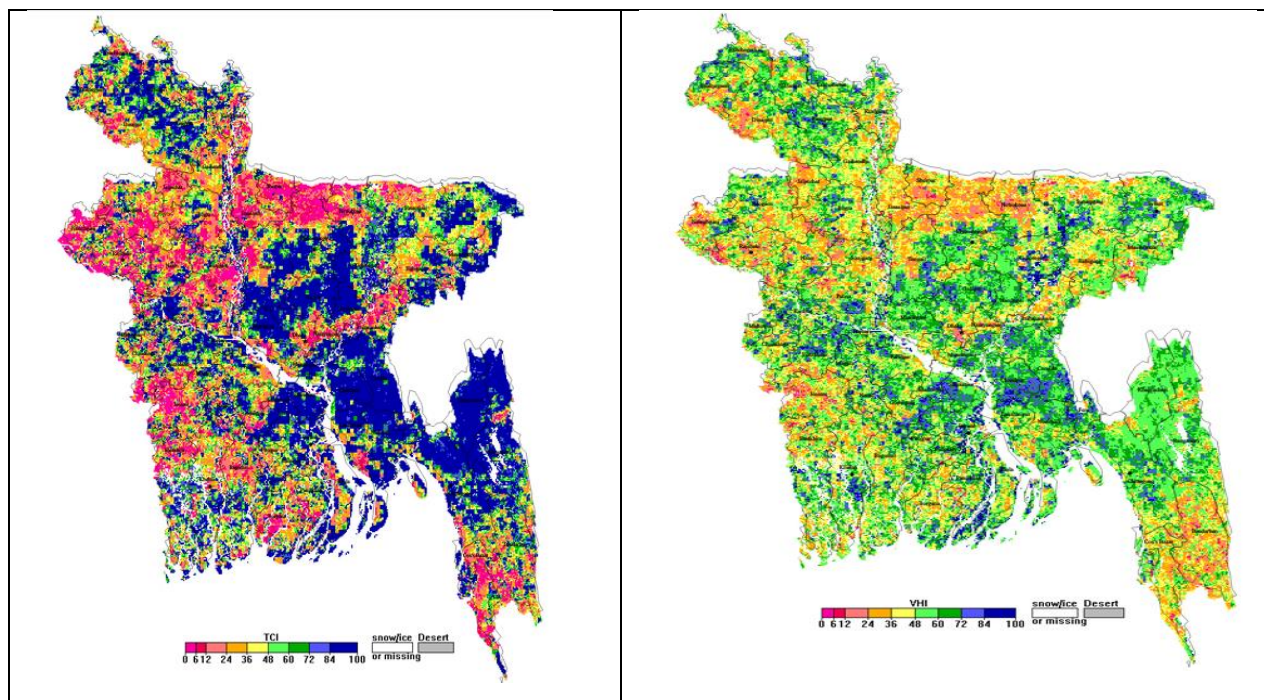
NOAA/ AVHRR BLENDED VCI composite for the week number No. 28 (08 July -14 July) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 28 (08 July -14 July) over Agricultural regions of Bangladesh

NOAA/ AVHRR BLENDED VHI composite for the week number No. 28 (08 July -14 July) over Agricultural regions of Bangladesh

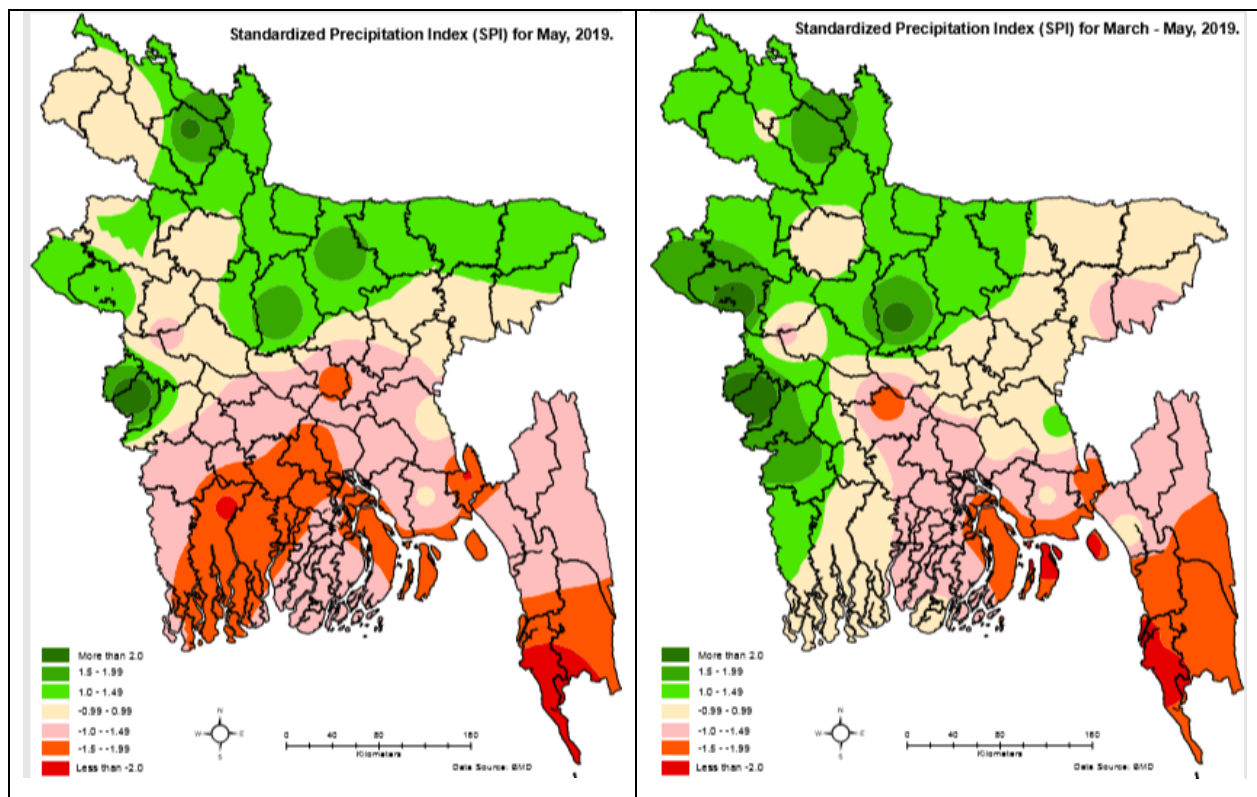




### Monitoring Meteorological Drought in Bangladesh using Standardized Precipitation Index (SPI)

It has been observed that during last three months as well as in May, normal conditions prevails in districts located in northwest, north as well as northeast parts of Bangladesh whereas the districts in south, southeast, southwest and some districts of central parts are under dry condition.





Source: Bangladesh Meteorological Department

## Flash Flood Monitoring in Haor Region (Source: Bangladesh Water Development Board)

### RIVER SITUATION SUMMARY AS ON JULY 24, 2019

- The Brahmaputro, Dharla, Teesta, Ghaghot and Surma-Kushiyara rivers are in rising trend, while the Ganges-Padma rivers are in falling trend.
- According to the information from Bangladesh Meteorological Department and India Meteorological Department, there is a chance of heavy to very heavy rainfall in the Northern, North-Eastern parts of Bangladesh and adjoining Assam, Northern part of West Bengal and Meghalaya of India in next 24 hours.
- The Brahmaputra and Surma Kushiyara rivers may continue rising, while the Ganges-Padma Rivers may continue falling in next 24 hours. The Jamuna river may remain steady in the next 24 hours.
- The Teesta, Dharala and rivers of Northern part may rise rapidly in the next 24 hours.
- Flood situation in Gaibandha, Jamalpur, Bogura, Tangail, Sirajganj, Manikganj, Rajbari, Faridpur and Munshiganj districts may remain unchanged, while Flood situation in Sylhet and Sunamganj may deteriorate to some extent.

**General River Condition**

Monitoring Water Level Station	93	Water Level Steady in last 24 hours	04
Water Levels Rise in last 24 hours	46	Total not Reported	00
Water Levels Fall in last 24 hours	43	<b>Above Danger Level</b>	<b>18</b>