



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

10 July 2019 (WEDNESDAY)
[FOR THE PERIOD 10.07.2019 - 14.07.2019]



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

Salient Agromet Advisories

Special Agromet Advisories for Flood like situations for the districts of Habiganj, Moulvibazar, Sunamganj, Netrokona, Barisal, Chattogram, Rangamati, Banderban, Cox's bazar, Jamalpur, Sirajganj, Kurigram, Gaibandha, Bogura, Tangail, Manikganj in Bangladesh

Heavy Rainfall forecast for Assam & Meghalaya for next three days by India Meteorological Department (IMD):

10th July: Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Assam & Meghalaya;

11th July: Heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Assam & Meghalaya

Weather Forecast issued by Bangladesh Meteorological Department (BMD):

Monsoon is active over Bangladesh and strong over North Bay. Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at most places over Rangpur, Rajshahi, Dhaka, Mymensingh, Barishal, Chattogram & Sylhet divisions and at many places over Khulna division with moderately heavy to very heavy falls at places over the country.

As per the weather forecast received from India Meteorological Department & Bangladesh Meteorological Department, Bangladesh, Water Development Board issued flood warning for the districts of Habiganj, Moulvibazar, Sunamganj, Netrokona, Barisal, Chattogram, Rangamati, Banderban, Cox's bazar, Jamalpur, Sirajganj, Kurigram, Gaibandha, Bogura, Tangail, Manikganj. Under this circumstance, following Agromet Advisories have been issued.

- Drain out excess water from the nursery as well as crop field. To prevent water stagnation in the nursery bed, construct channels around the seed bed for drainage.
- Clean the irrigation channel for draining out extra water from the field.
- Raise the bund around the crop field.
- Hold on all agricultural operations like transplanting, application of irrigation, fertilisers, pesticides etc.
- Immediately harvest the matured vegetables.
- Immediately harvest the matured kharif maize.
- Provide mechanical support to banana & standing vegetables.
- Arrange for popping of sugarcane.
- Arrange boats for migration of essential food items and others from low to high land.
- Arrange for migration of livestock and poultry birds to high land.

As extremely heavy rainfall is expected in Feni, Noakhali & Sylhet, it is advised to take immediate following actions on the standing crops.

- Avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields as well as nursery of aman paddy.
- Further agricultural operation may be started after the recede of excess water from the crop fields.

As this is the time for transplanting of Aman paddy, following advisories are issued for number of districts where good amount of rainfall is expected for next few days.

- Farmers may start the preparation of main land for transplanting.
- At the last stage of land preparation of field for transplanting of aman paddy, apply per hectare 90 kg TSP, 70 kg MOP, 11 kg Zinc, and 60 kg gypsum.
- This is the ideal time for transplanting of 25-30 days old nursery in the main field. Avoid deep planting for better crop establishment and fill up the gaps within a week. Maintain 5-7 cm standing water up to maximum tillering stage. Keep the rice nursery and field bunds free from weeds either by hand weeding or by application of herbicide. Apply recommended herbicide as per recommendation within 1-3 days of transplanting.

This is also the time for harvesting of jute. Following advisories on the standing jute crop are issued.

- Harvesting and retting of jute may be done preferably at pre-flowering stage (120days after sowing) to get better quality fibre. At present the water temperature in the retting tanks/ nalas may ideal for retting of jute. Early and timely sown capsularis jute may be harvested during this week and kept in the field in standing position for 3-4 days before retting for proper defoliation.

Detail Agromet Advisories for different crops in the respective district are available in BAMIS Portal (<https://www.bamis.gov.bd>) launched by the Department of Agricultural Extension, Ministry of Agriculture, Government of Bangladesh.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 10 July'19) and maximum temperature on 09 July, minimum temperature on 10 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	01	32.6	28.0	Rajshahi	Rajshahi	03	33.5	25.8	
	Tangail	04	32.4	26.5		Ishurdi	35	33.3	26.0	
	Faridpur	12	33.5	26.8		Bogura	15	32.2	26.0	
	Madaripur	00	32.0	27.3		Badalgachhi	01	32.0	25.3	
	Gopalganj	00	32.5	28.2		Tarash	52	33.0	27.0	
	Nikli	09	30.5	26.2						
Mymensingh	Mymensingh	49	31.3	26.2	Rangpur	Rangpur	112	30.3	26.0	
	Netrokona	71	30.6	25.2		Dinajpur	31	31.2	26.3	
						Sayedpur	30	30.6	25.6	
Chattogram	Chattogram	146	31.0	25.2			Tetulia	32	28.2	25.0
	Sandwip	37	29.2	25.5			Dimla	105	30.0	25.5
	Sitakunda	91	29.0	25.7			Rajarhat	78	29.0	25.8
	Rangamati	71	28.3	24.5	Khulna	Khulna	00	33.5	28.2	
	Cumilla	09	30.3	26.1		Mongla	00	33.5	28.0	
	Chandpur	48	31.7	27.1		Satkhira	00	35.0	28.4	
	M.Court	24	29.2	26.2		Jashore	07	34.0	28.0	
	Feni	55	28.0	25.0		Chuadanga	Trace	34.5	26.5	
	Hatiya	45	29.3	25.5		Kumarkhali	00	32.8	26.8	
	Sylhet	Cox's Bazar	50	30.5	24.8	Barishal	Barishal	04	30.8	27.5
Kutubdia		22	30.0	25.5	Patuakhali		20	29.3	25.3	
Teknaf		27	29.5	24.5	Khepupara		16	30.0	27.6	
Sylhet		06	30.0	26.4	Bhola		10	31.5	25.8	
Srimangal		09	30.0	25.7						

Highlights:

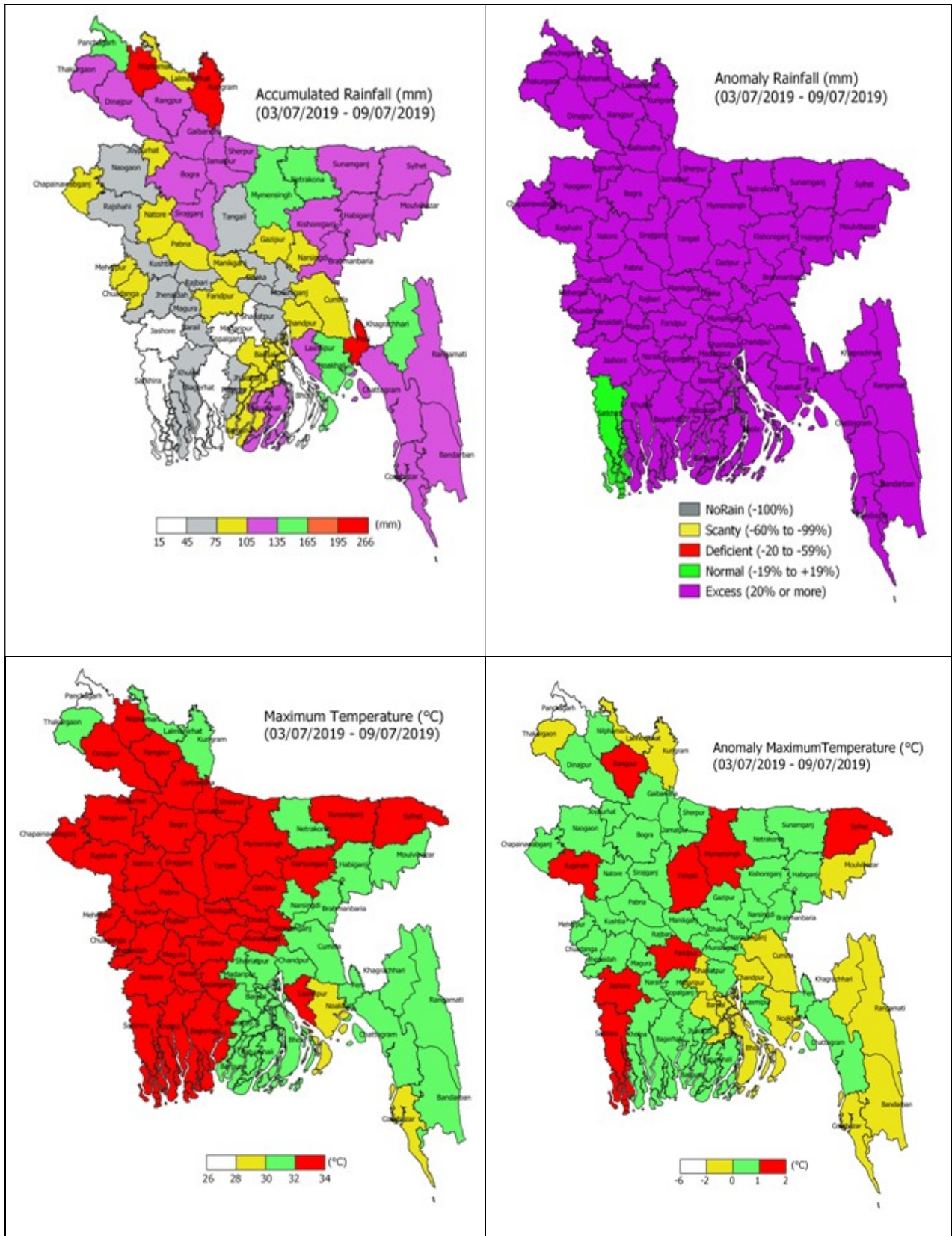
- Country average of bright sunshine hour was 4.02 hours per day during last week.
- Country average of free water loss during the previous week was 3.50 mm per day.

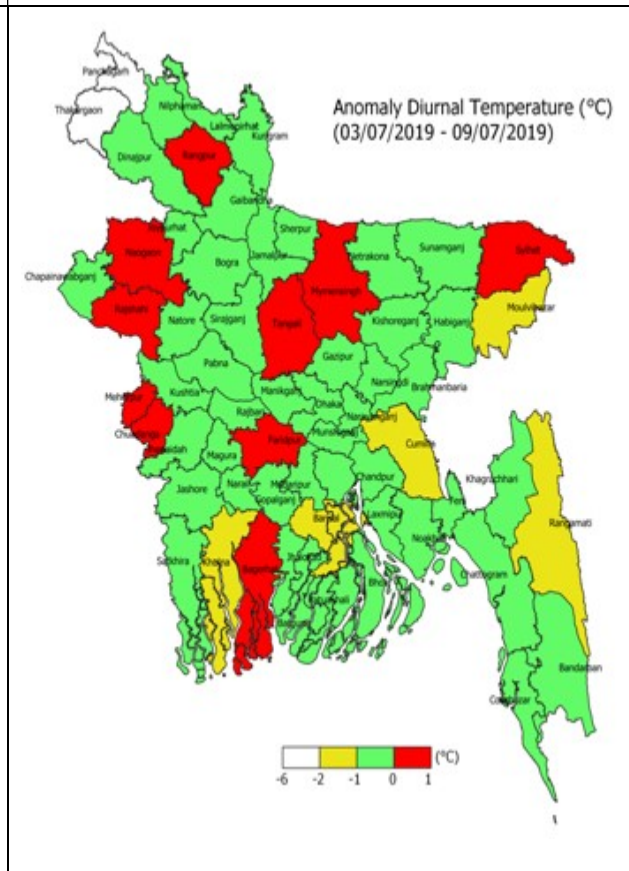
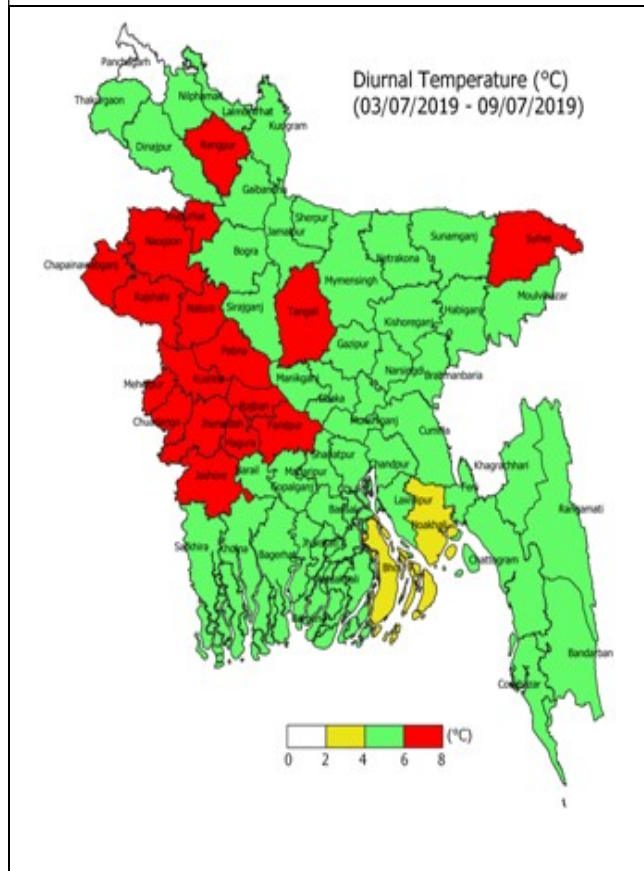
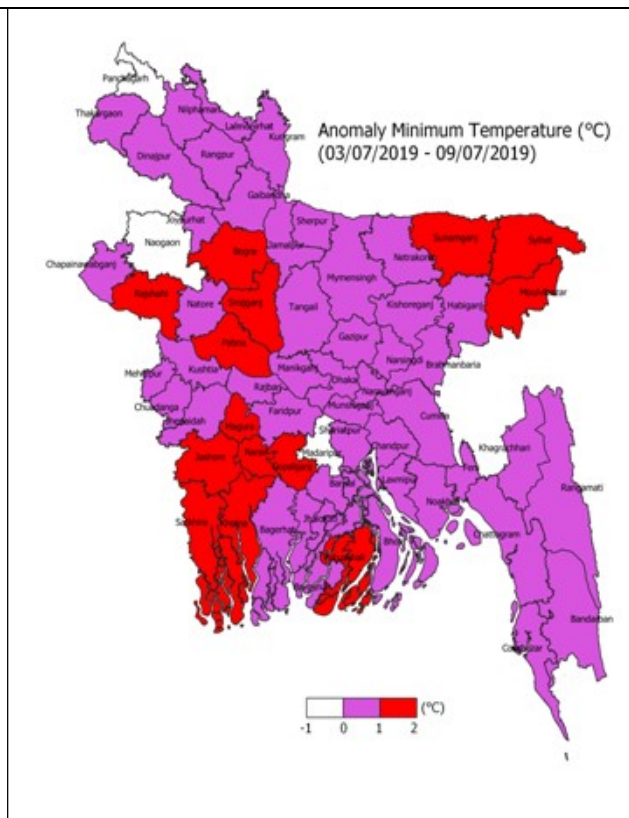
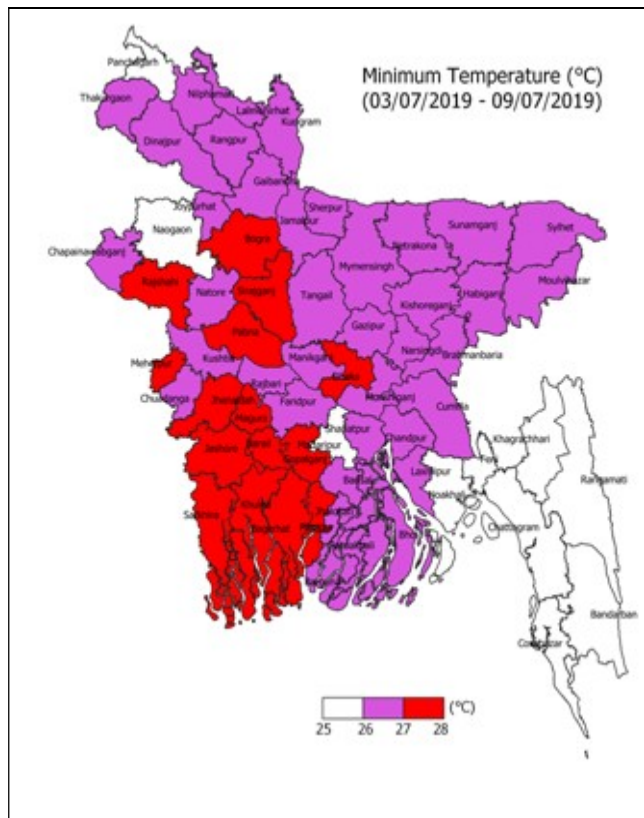
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

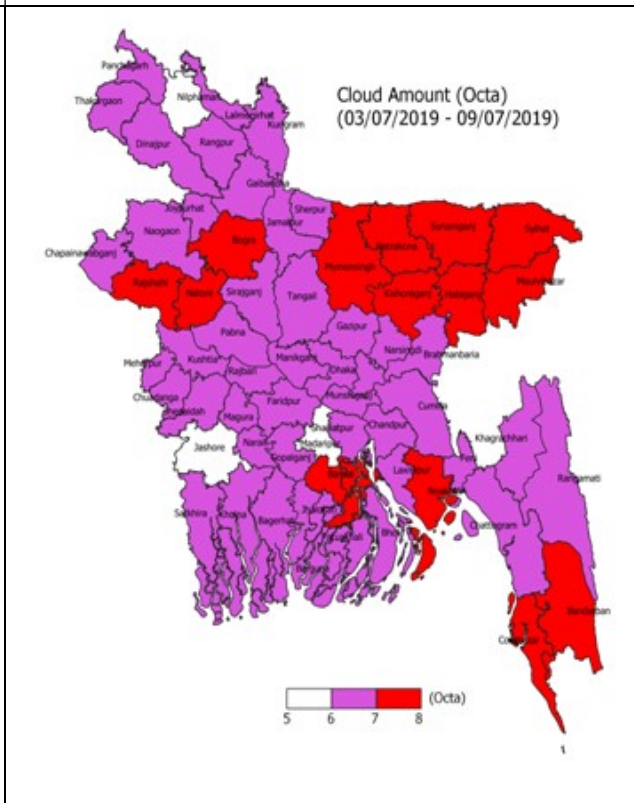
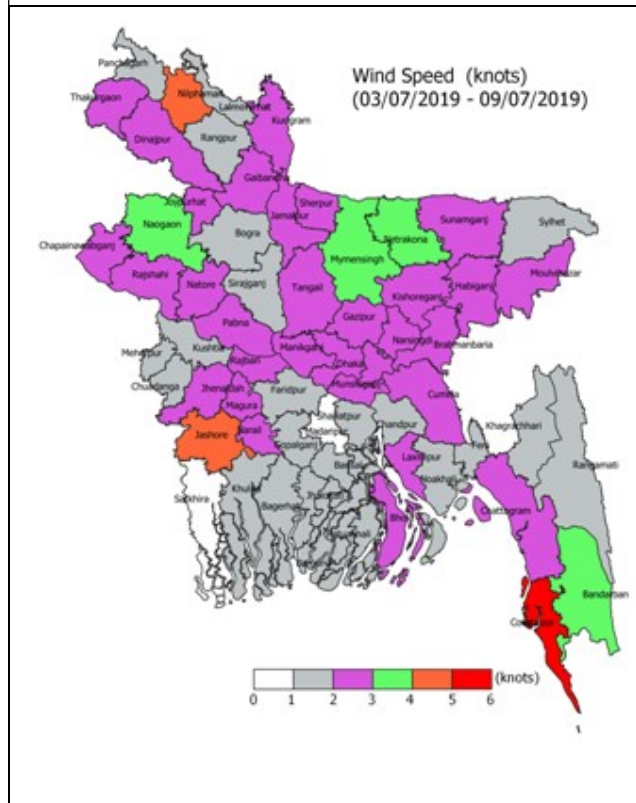
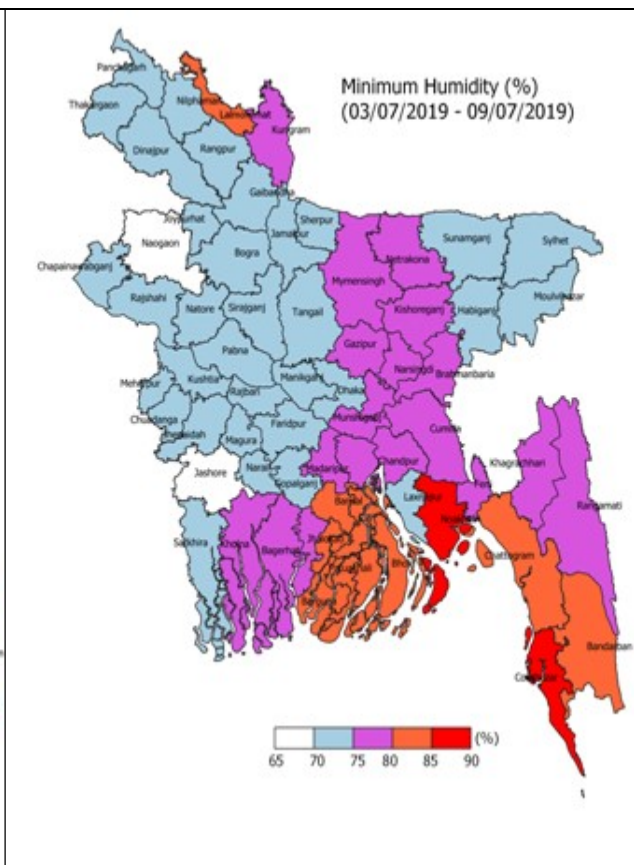
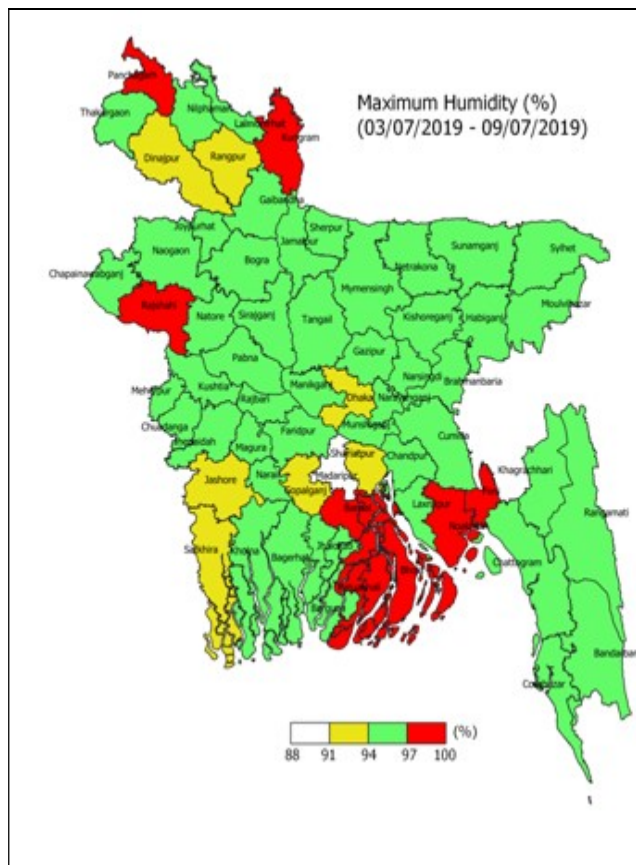
Forecast: Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at most places over Rangpur, Mymensingh, Barishal, Chattogram & Sylhet divisions and at many places over Rajshahi, Dhaka & Khulna divisions with moderately heavy to very heavy falls at places over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

Temperature: Day and night temperature may remain nearly unchanged over the country.

Spatial Distribution of weather parameters for the Week ending 09th July 2019





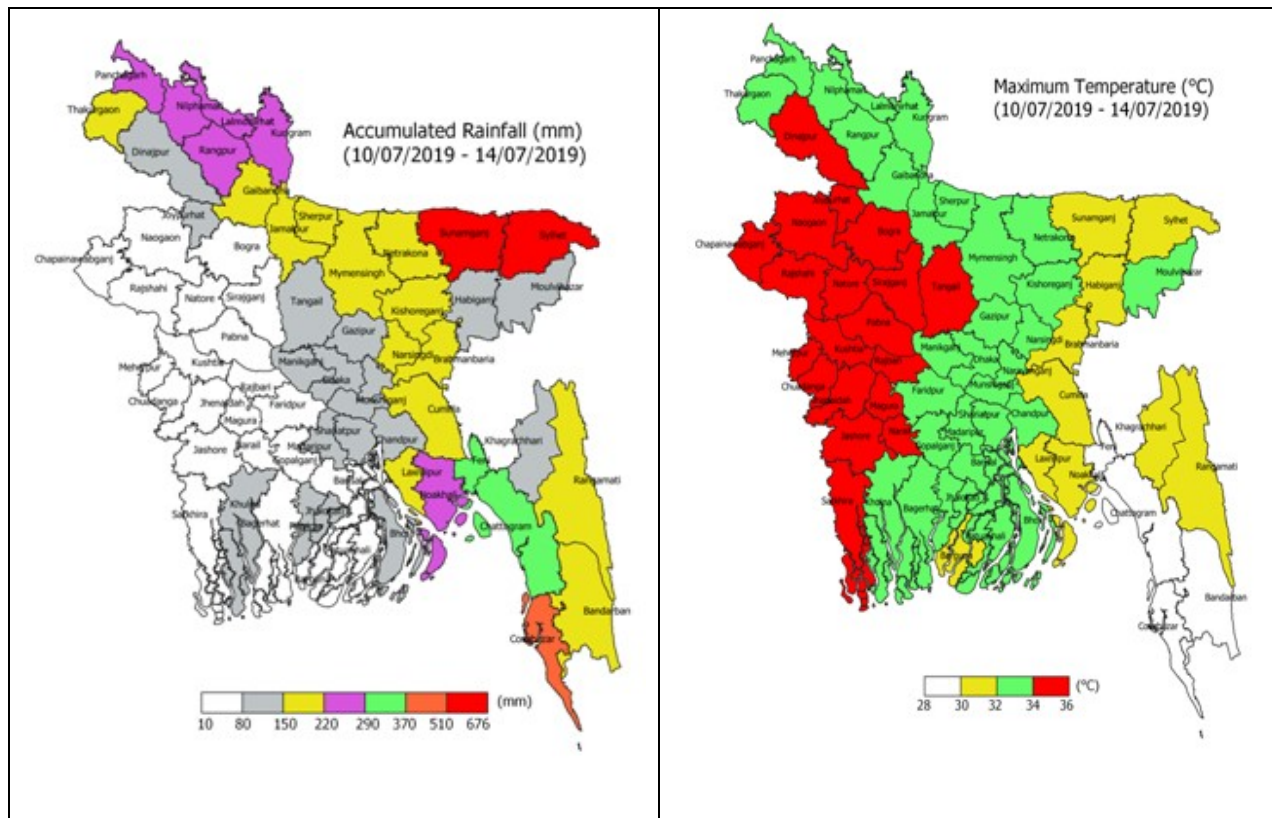


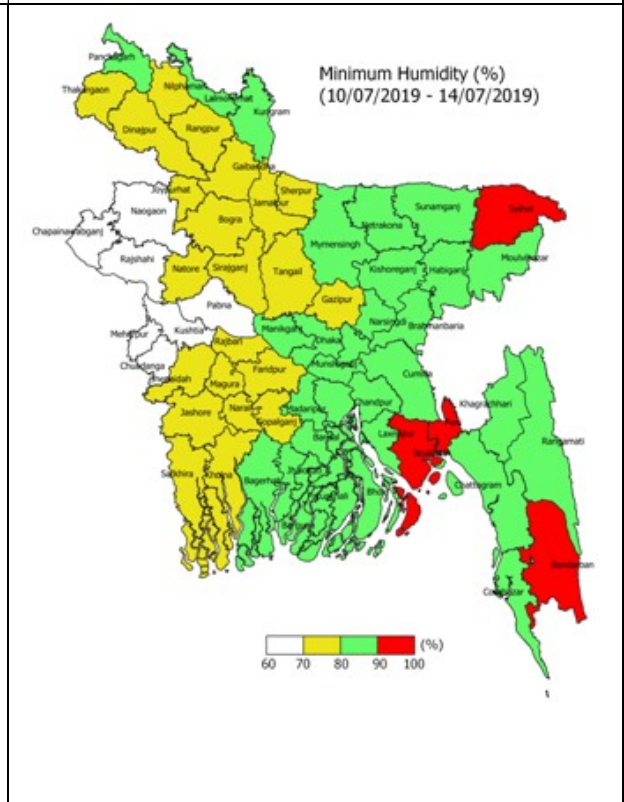
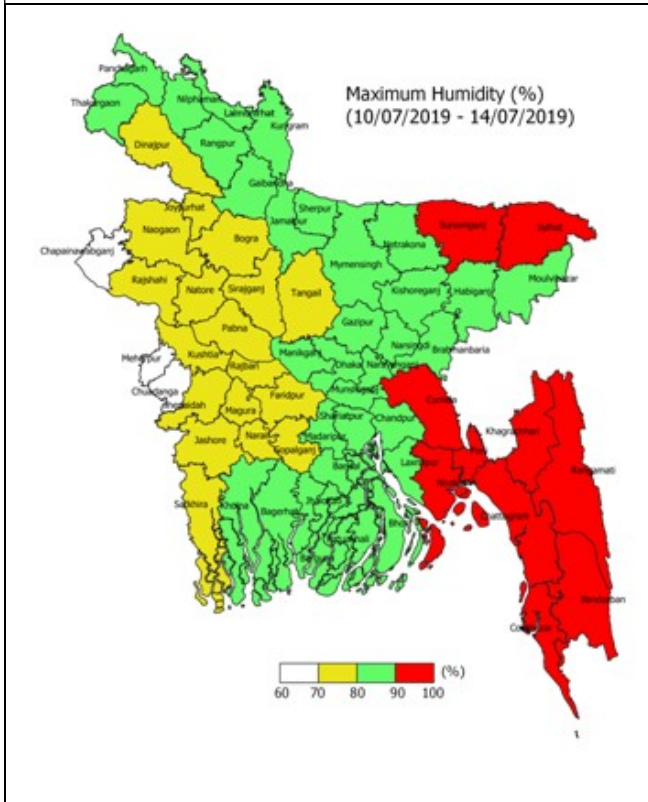
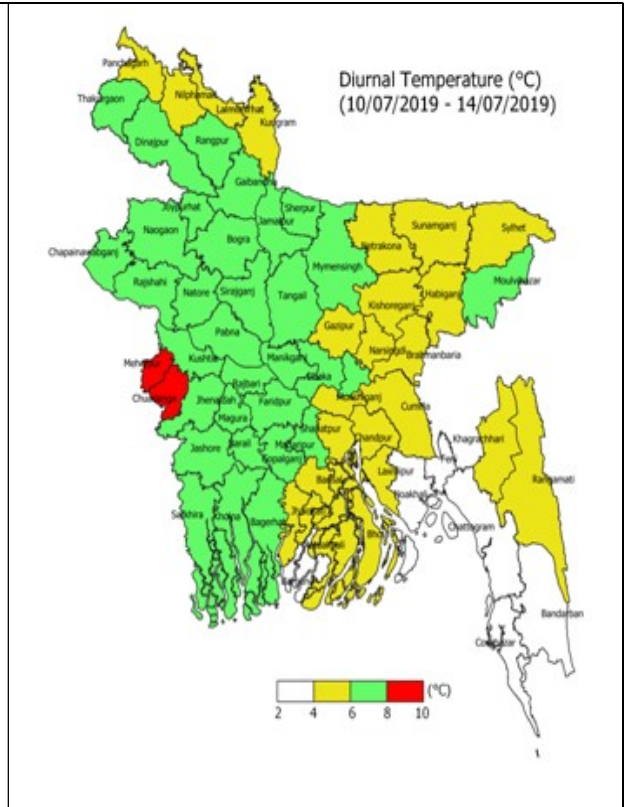
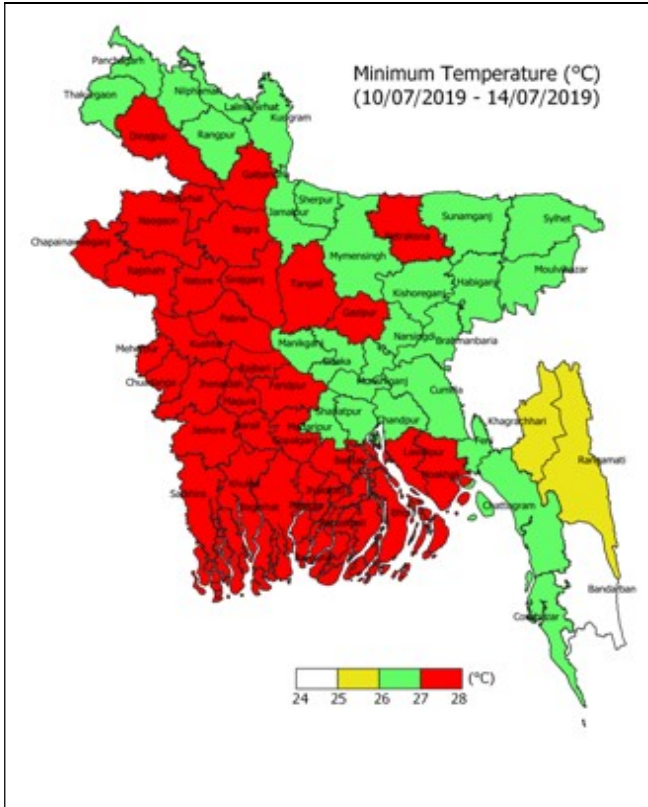
Weather Forecast and Advisory for the Period of 08.07.2019 to 14.07.2019

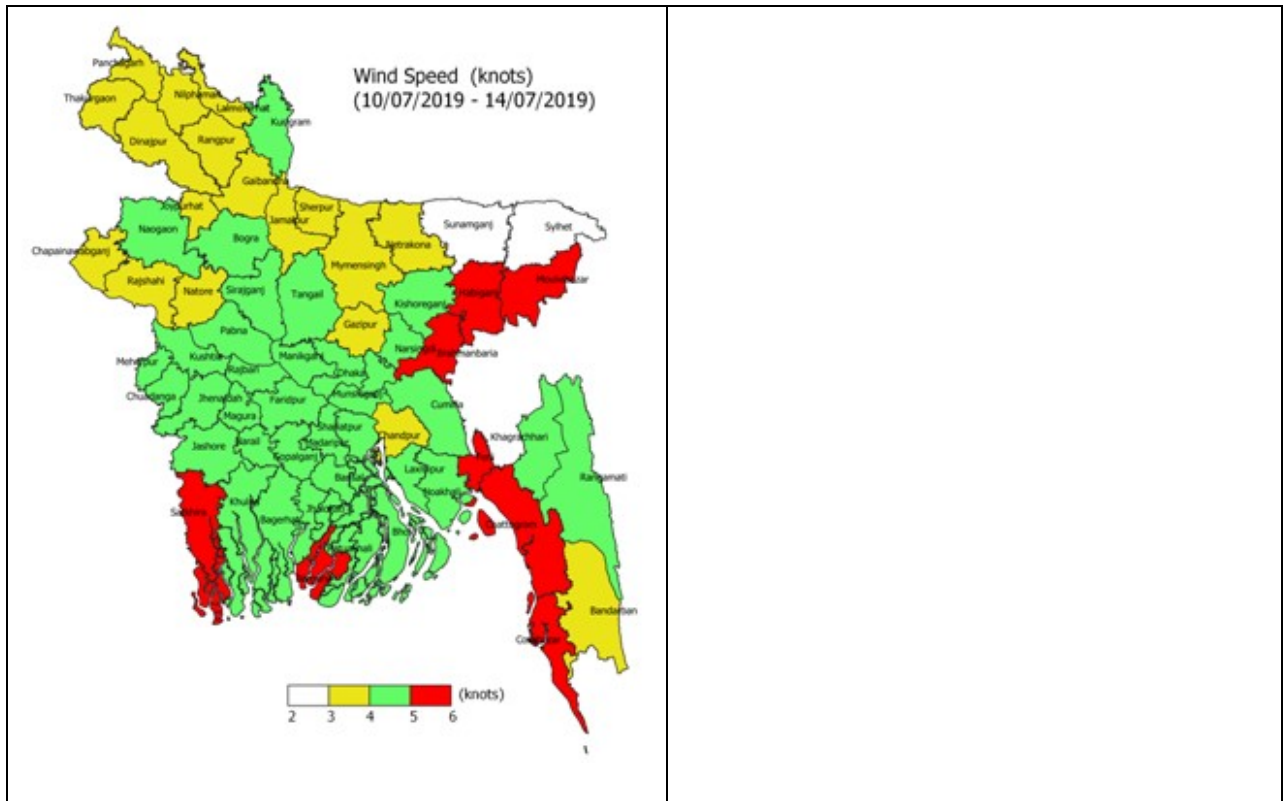
Bright sunshine hour is likely to be from 4.50 to 5.50 hours per day during this week. Average of free water loss during the next week is likely to be from 3.25 to 4.25 mm per day.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder shower is likely to occur at most places over the country, with a chance of moderately heavy (23-43 mm/d) to heavy (44-88 mm/d) falls at places over the country during this period.
- Slight fall in day and night temperature over the country during this period.

District Wise Quantitative Weather Forecast for next Five days from 10 July -14 July'19

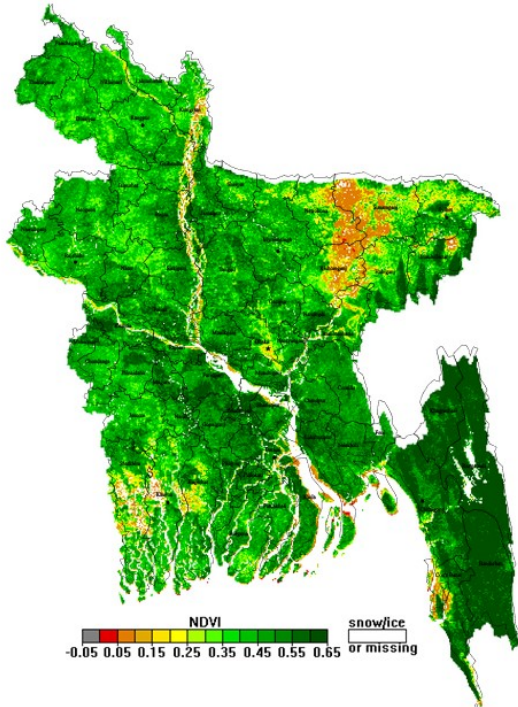




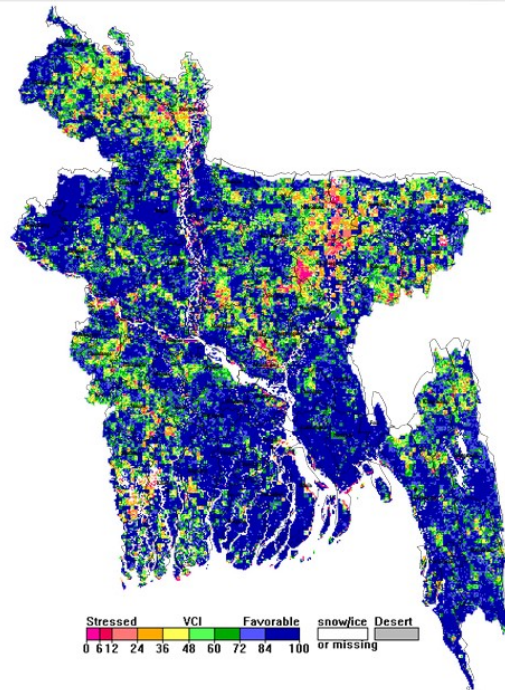


Different Satellite Products over Bangladesh

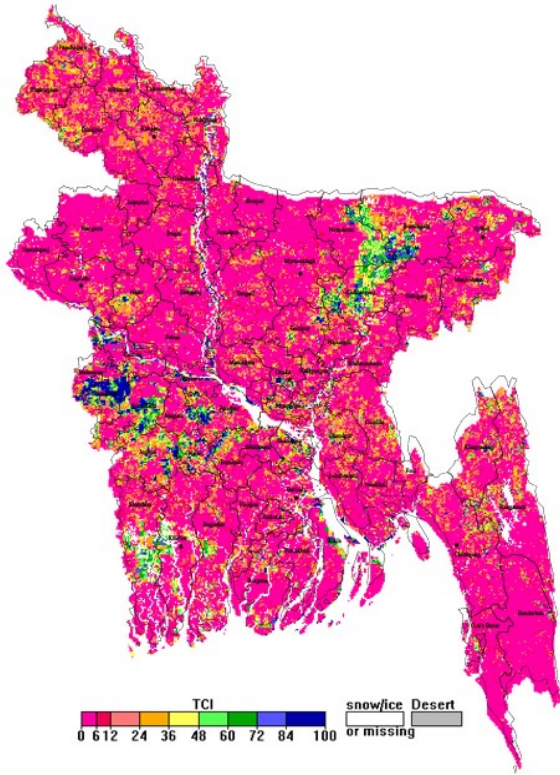
NOAA/VIIRS BLENDED NDVI composite for the week number No. 26 (25 June -01 July) over Agricultural regions of Bangladesh



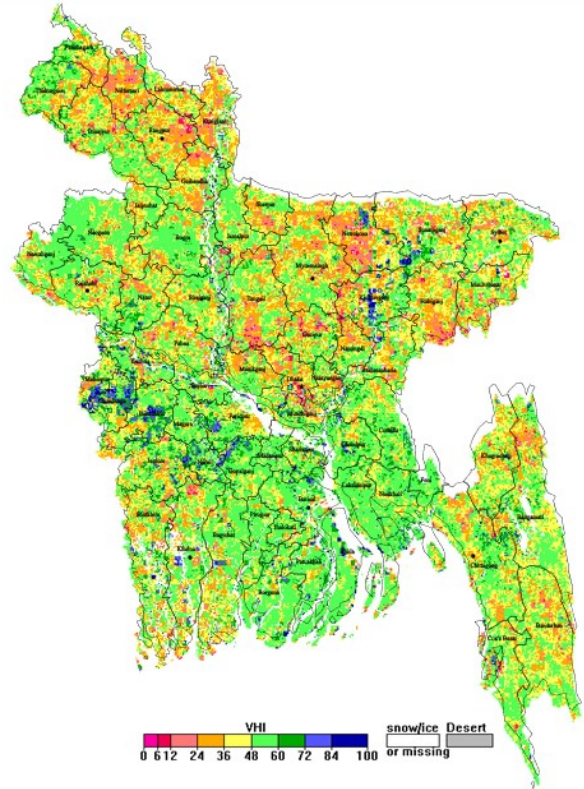
NOAA/ AVHRR BLENDED VCI composite for the week number No. 26 (25 June -01 July) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 26 (25 June -01 July) over Agricultural regions of Bangladesh

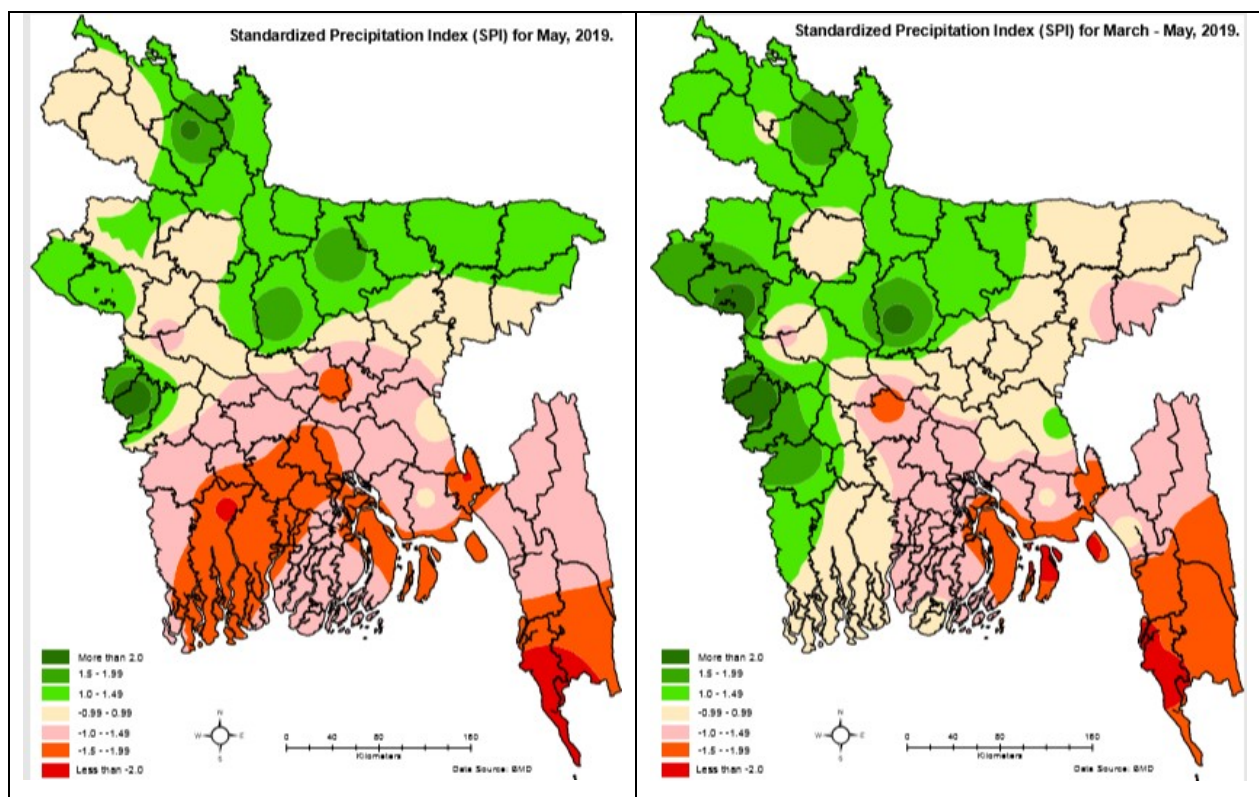


NOAA/ AVHRR BLENDED VHI composite for the week number No. 26 (25 June -01 July) over Agricultural regions of Bangladesh



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 10, 2019

- All the major rivers are in rising trend.
- According to the information of Bangladesh Meteorological Department and India Meteorological Department, there is chance of medium to heavy rainfall & in some places very heavy rainfall in the Northern, North-Eastern and South-Eastern part of Bangladesh along with adjoining Assam, Meghalaya and Tripura states of India in next 24 to 48 hours. Also medium to heavy rainfall may occur in North West region and adjoining Bihar, West Bengal and Nepal.
- All the major rivers may rise in next 72 hours.
- The major rivers in Chattogram, Sylhet and Barishal division including the Surma, Kushiara, Kangsha, Manu, Khowai, Feni, Haldha, Matamuhuri & Sangu may rise rapidly in next 24 hours.

General River Condition

Monitoring Water Level Station	93	Water Level Steady in last 24 hours	01
Water Levels Rise in last 24 hours	75	*Total not Reported	01
Water Levels Fall in last 24 hours	16	Above Danger Level	04