



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

17 July 2019 (WEDNESDAY)
[FOR THE PERIOD 17.07.2019 - 21.07.2019]



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 Bangladesh Meteorological Department, monsoon is less active over Bangladesh & weak over North Bay. Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at a few places over Rajshahi & Chattogram divisions and at one or two places over Rangpur, Mymensingh, Sylhet, Dhaka, Khulna & Barishal divisions. Thus, there will be substantial reduced in rainfall activities in many districts. The Agromet Advisories for the districts which experiences heavy rainfall during last four days and also expected to get more rainfall during next five days.

Agromet Advisories

Paddy

- Drain out excess water and maintain 5-7 cm water level in the Aus Paddy field.
- To control infestation of leaf blast & leaf spot in Aus rice, spray Carbendazim @2g/litre of water after current spell of heavy rain.
- Monitor other pest & diseases incidences on Aus Paddy.
- Complete the sowing operations of aman paddy as soon as possible. Ensure weed free seed bed.
- 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 after current spell of heavy rain.
- This is the ideal time for transplanting of 25-30 days old nursery in the main field after current spell of heavy rain. 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

Jute:

- Drain out excess rainfall from the field.
- Harvesting and retting of jute may be done preferably at pre-flowering stage (120 days 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.
- Prevailing water conditions are favourable for incidences of Hairy Caterpillar & Semilooper in Jute Monitor the incidences of these pests. If observed, apply Spray Imidocholoprid/Chlorocyryn/ Nitro @ 1ml/litre of water for Hairy Caterpillar & Imidocholoprid/Chlorocyryn/ Nitro @ 1ml/litre of water for Semilooper after current spell of heavy rain.
- There may be incidences of stem weevil in jute. To control, apply Dichlorvos @ 3 ml per 4 litre of water or Endosulphan 2 ml per litre of water after current spell of heavy rain.

Vegetables:

- Make arrangement to avoid plant damage (particularly staked creeper) from anticipated gusty winds. Make arrangement to raise new orchard during monsoon season.

- If seedlings of brinjal are ready for transplanting, transplant the seedlings on ridges and furrow with spacing of 60 x 60 cm. Sowing of kharif vegetables such as lady's finger, pumpkin, cucumber, sponge gourd, bottle gourd after the current spells of heavy rainfall.
- In pumpkin, ridge-gourd, pointed gourd and cucumber, there is a chance of attack of Red-Pumpkin Beetle during current weather condition. To control, apply Dimecron or rogor (1ml per litre of water) after the current spells of heavy rainfall.
- The prevailing weather conditions are congenial for incidence sucking pests in vegetables. To control, spray Dimethoate @ 2 ml or Acephate @ 1.5 g per litre of water. Undertake nursery sowing of Tomato, Brinjal and Chillies and direct sowing of Gourds, Beans and Bhendi with assured irrigation after current spell of heavy rain.
- In Western Zone, high relative humidity may cause leaf spot in turmeric and downy mildew in cucurbits and onion, spray Mancozeb 1 kg/ha after current spell of heavy rain.

Horticultural crops

- Farmers are advised to go for inter cultural operations in mango orchard after current spell of heavy rain.
- The farmers are advised to take up plant protection measures carefully in horticultural crops like, pomegranate for bacterial blight and lime for leaf minor.
- For the orchards of the guava, add 20-25 kg cow dung and 50 gms of heptachlor in the soil extracted from the pit and fill it again. For mango, amla and berry orchards add 30 kg of cow dung, 250 grams of single super phosphate and 50-100 g heptachlor in the soil extracted from the pit and fill it again. These operations may be done after current spell of heavy rain.
- Farmers are advised to start digging of pit of appropriate size and distance for new orchard establishment. Prepare pit for plantation of saplings of mango, guava and coconut as sufficient rainfall is expected.

Kharif Maize:

- Harvest the crop after the current spell of rainfall. After the current spell of rainfall harvest the crop immediately and dry under sunny days so that it should not be damaged during next spell of rainfall. If it is not maturely fully, make the cob downwards so that the almost matured cob will not be damaged due to rain.

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 17 July'19) and maximum temperature on 16 July, minimum temperature on 17 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	03	34.6	26.5	Rajshahi	Rajshahi	00	35.7	26.0
	Tangail	00	34.5	25.5		Ishurdi	00	35.0	25.7
	Faridpur	Trace	35.0	25.6		Bogura	00	32.0	26.5
	Madaripur	00	35.2	25.6		Badalgachhi	00	32.2	26.4
	Gopalganj	00	35.6	26.8		Tarash	01	33.3	27.0
	Nikli	00	31.0	26.5					
Mymensingh	Mymensingh	21	30.5	25.5	Rangpur	Rangpur	00	32.5	26.4
	Netrokona	03	30.0	25.5		Dinajpur	00	33.3	25.8
						Sayedpur	00	33.1	26.0
Chattogram	Chattogram	00	33.0	27.6	Khulna	Tetulia	02	31.0	23.5
	Sandwip	00	32.6	27.0		Dimla	06	33.1	25.1
	Sitakunda	00	33.5	26.9		Rajarhat	00	31.0	27.0
	Rangamati	00	34.0	26.0	Khulna	00	36.2	28.0	
	Cumilla	00	33.9	27.8	Mongla	00	36.6	27.4	
	Chandpur	00	35.0	28.0	Satkhira	00	36.6	26.7	
	M.Court	00	34.2	27.8	Jashore	15	37.8	25.0	
	Feni	00	34.2	27.4	Chuadanga	08	36.9	25.7	
	Hatiya	00	33.5	28.0	Kumarkhali	44	34.4	22.8	
	Cox's Bazar	00	31.5	26.8					
Sylhet	Kutubdia	00	32.8	27.6	Barishal	Barishal	00	35.2	27.5
	Teknaf	00	33.0	26.5		Patuakhali	00	35.3	28.2
						Khepupara	00	34.3	27.5
						Bhola	00	33.9	27.9
	Sylhet	05	31.7	25.0					
	Srimangal	00	33.0	26.0					

Highlights:

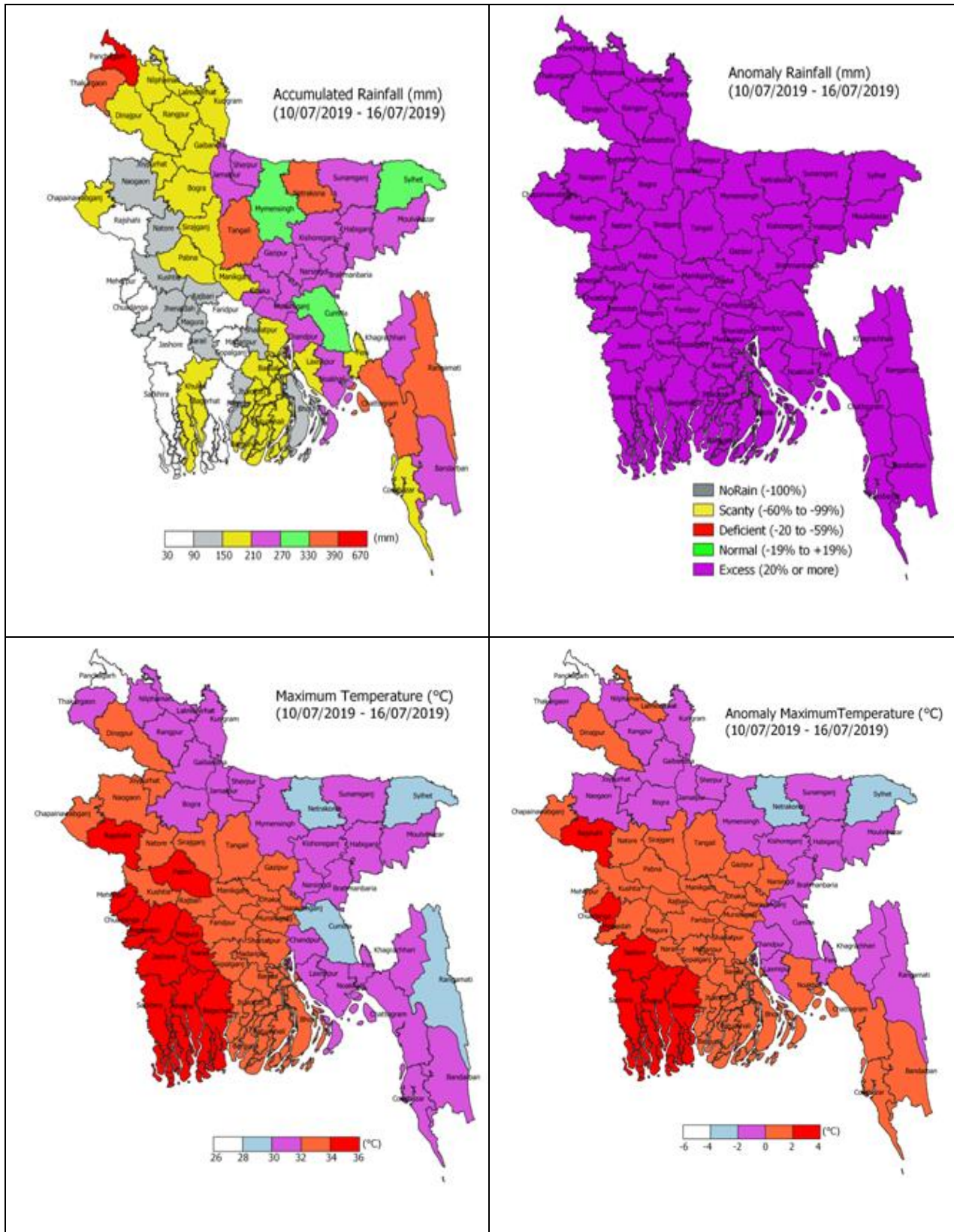
- Country average of bright sunshine hour was 1.51 hours per day during last week.
- Country average of free water loss during the previous week was 1.85 mm per day.

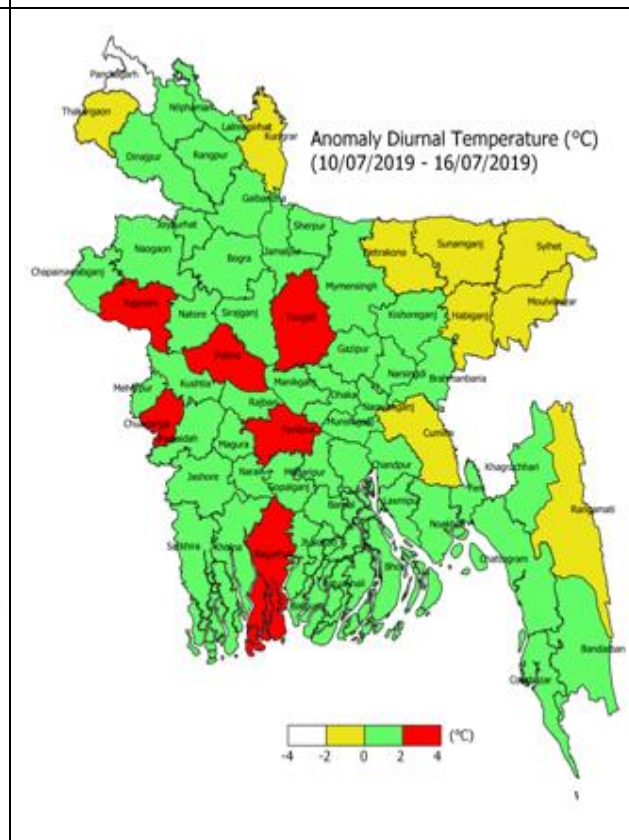
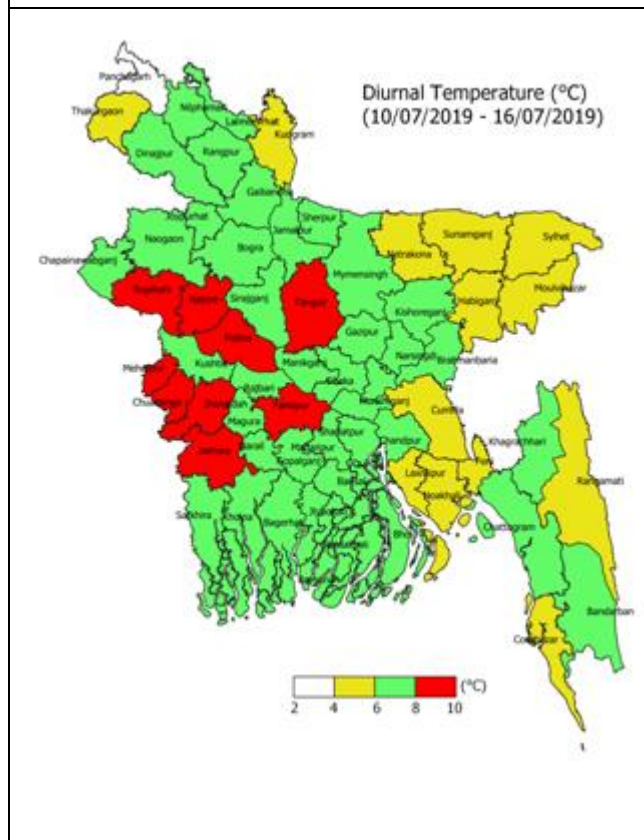
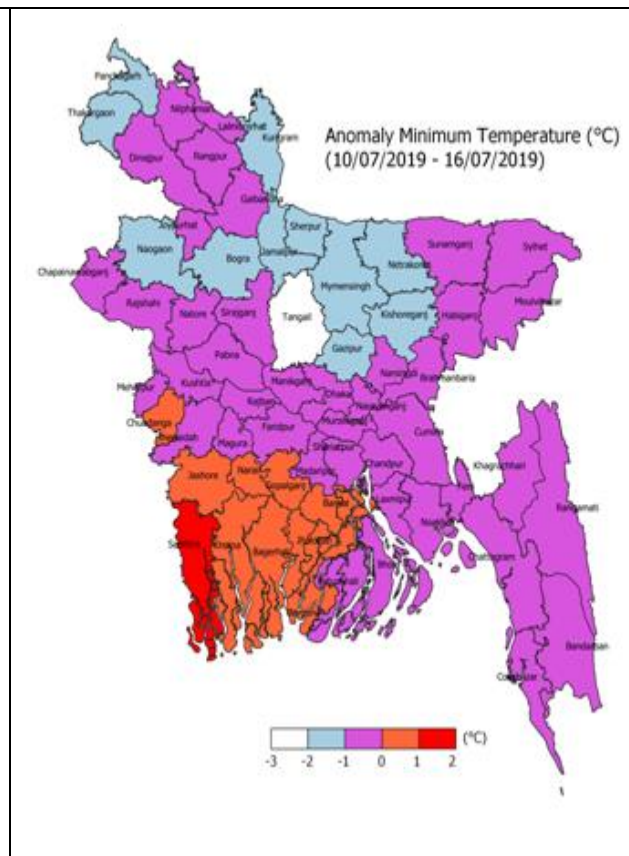
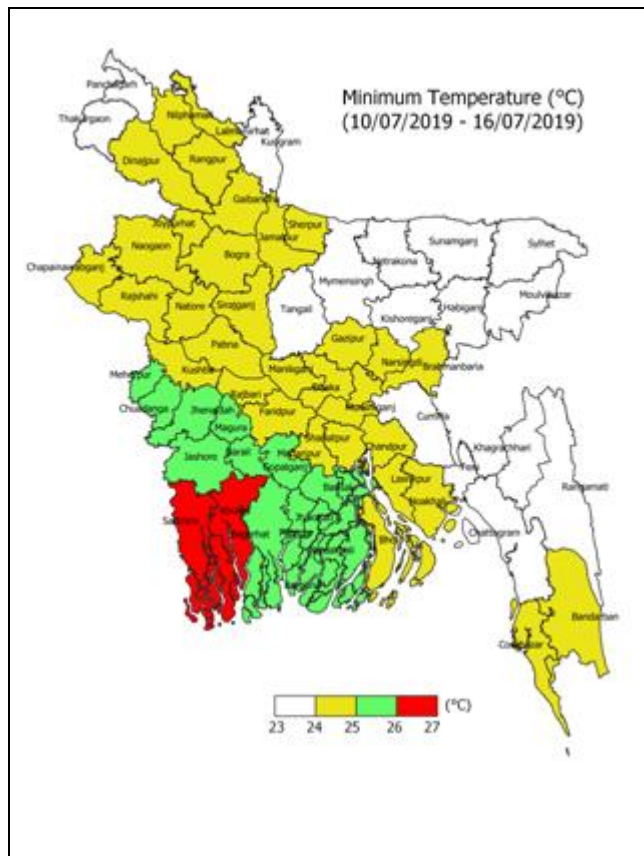
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

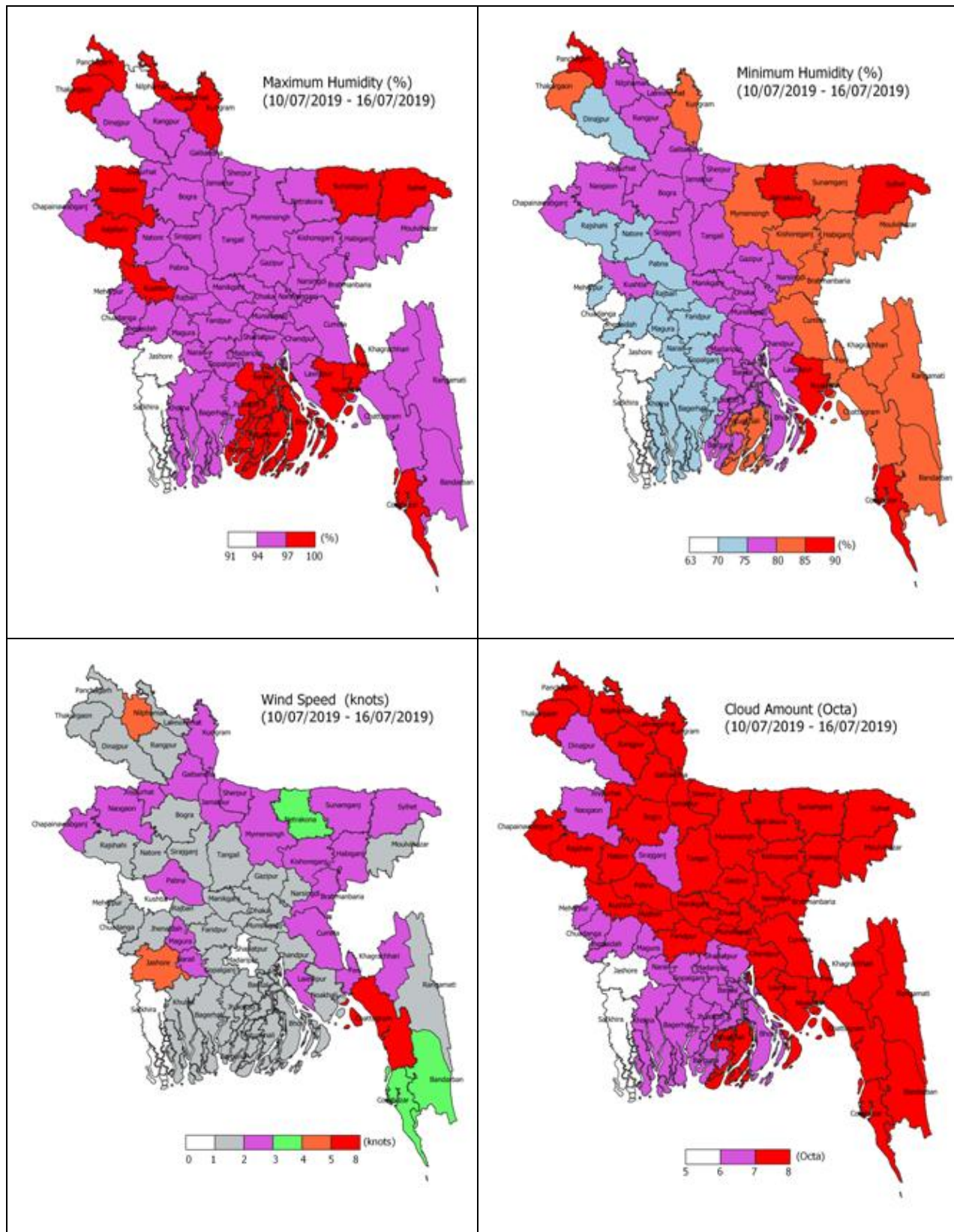
Forecast: Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at a few places over Rangpur, Rajshahi, Mymensingh, Chattogram & Sylhet divisions and at one or two places over Dhaka, Khulna and Barishal divisions.

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

Spatial Distribution of weather parameters for the Week ending 16th July 2019





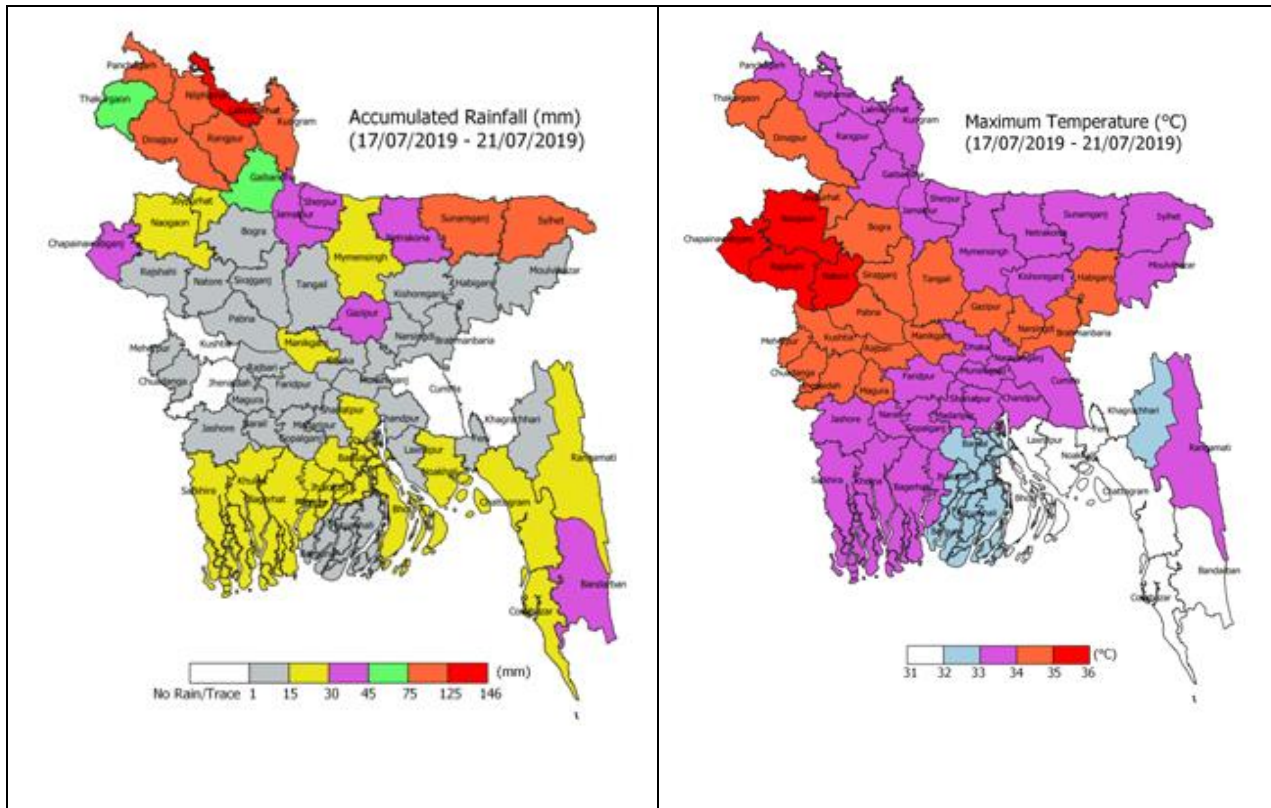


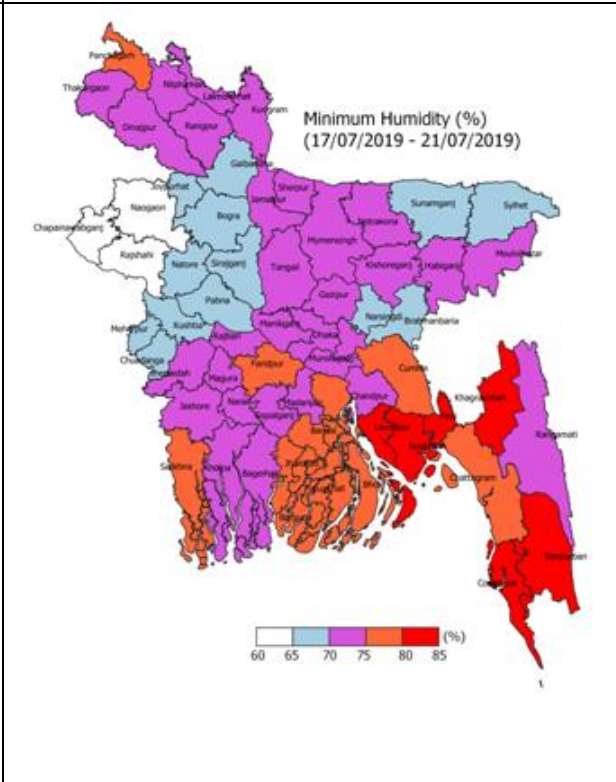
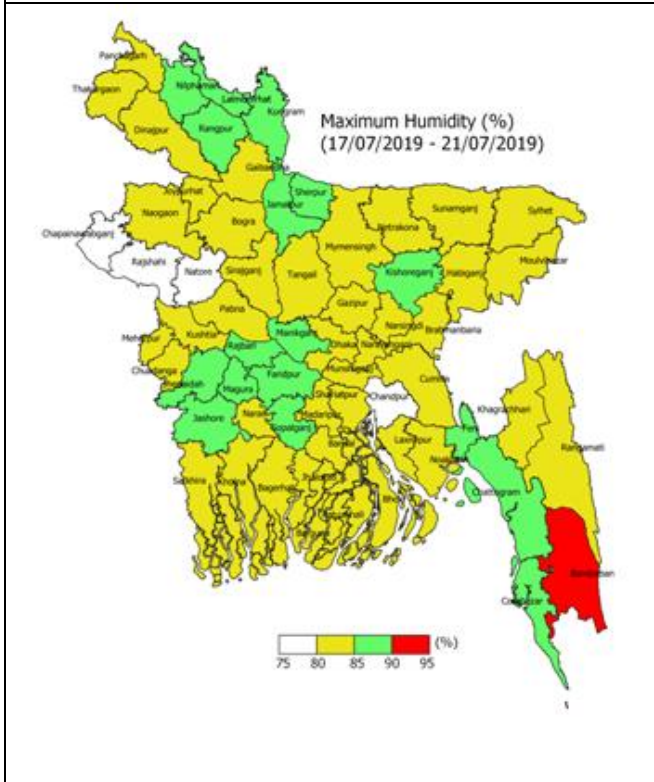
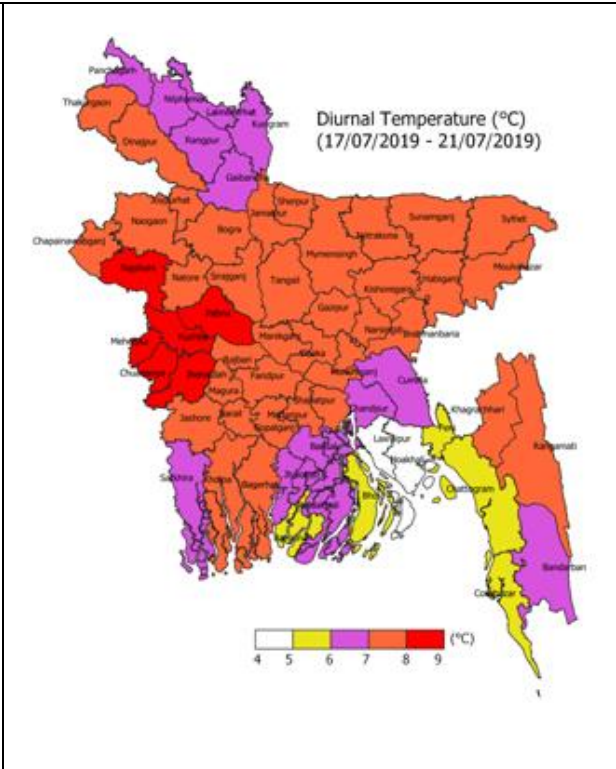
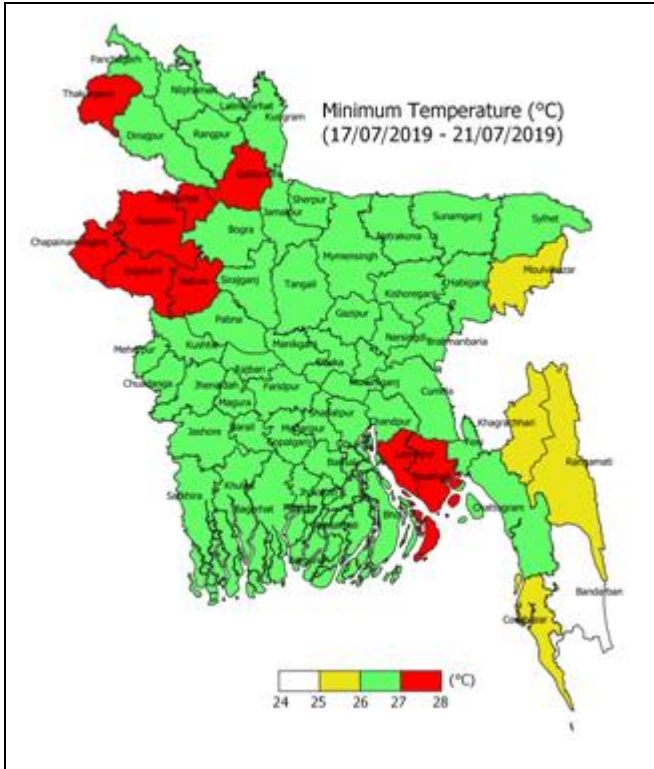
Weather Forecast and Advisory for the Period of 15.07.2019 to 21.07.2019

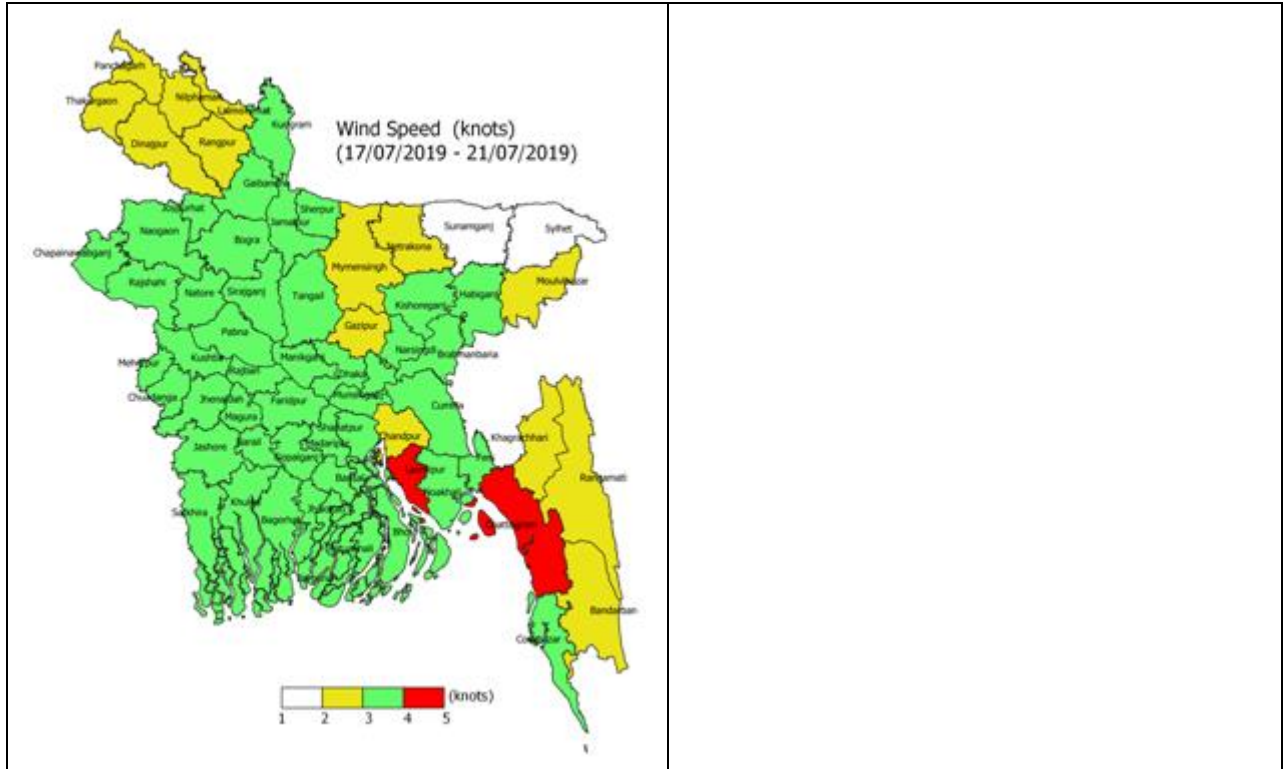
Bright sunshine hour is likely to be from 4.00 to 5.00 hours per day during this week. Average of free water loss during the next week is likely to be from 2.75 to 3.75 mm per day.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder shower is likely to occur at most places over Sylhet, Mymensingh, Rajshahi, Rangpur and Dhaka division and many places elsewhere 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.
- Day and night temperature may remain nearly unchanged over the country during this period.

District Wise Quantitative Weather Forecast for next Five days from 17 July -21 July'19

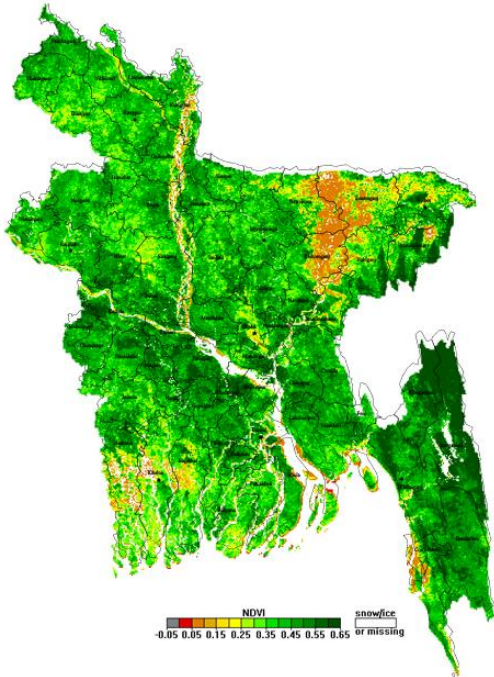




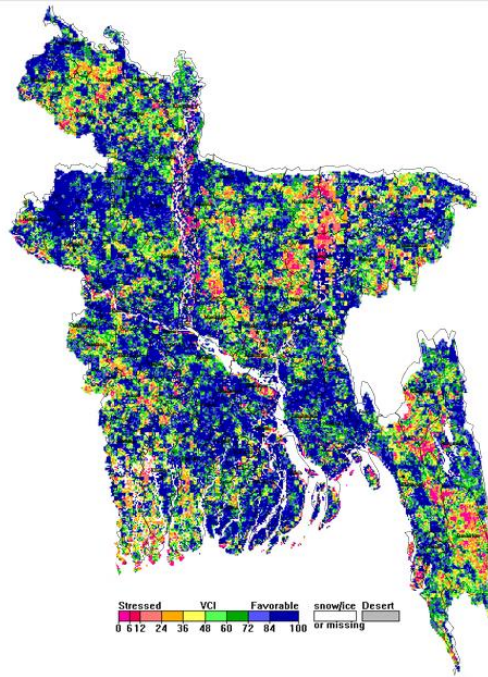


Different Satellite Products over Bangladesh

NOAA/VIIRS BLENDED NDVI composite for the week number No. 27 (02 July -08 July) over Agricultural regions of Bangladesh



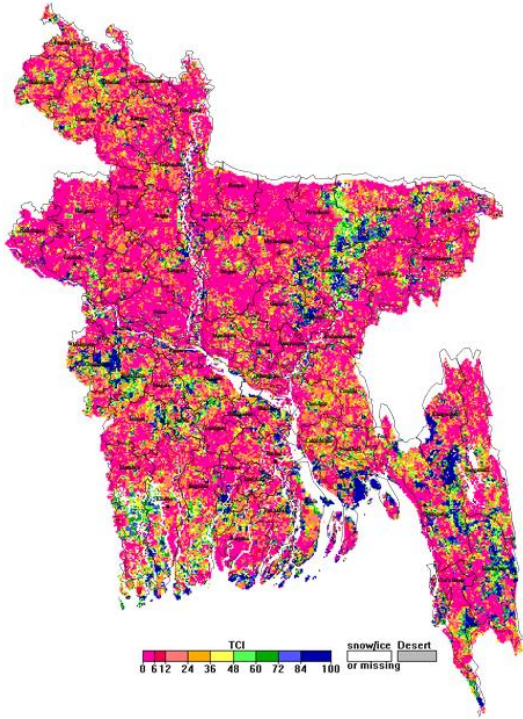
NOAA/ AVHRR BLENDED VCI composite for the week number No. 27 (02 July -08 July) over Agricultural regions of Bangladesh



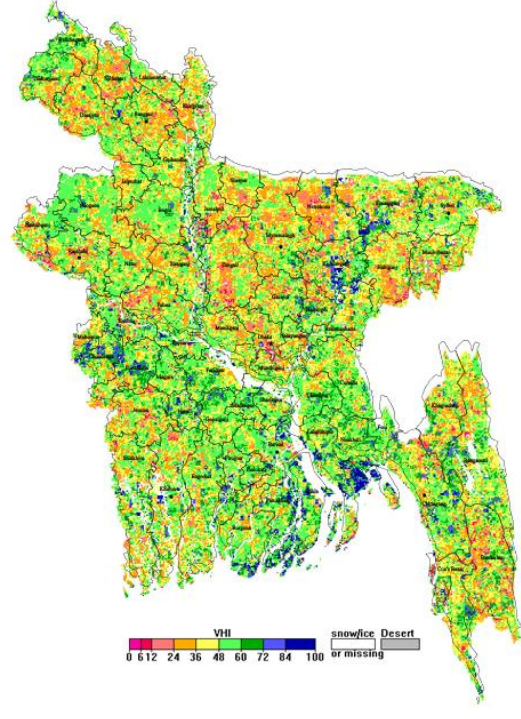
NOAA/ AVHRR BLENDED TCI composite for the

NOAA/ AVHRR BLENDED VHI composite for the week

week number No. 27 (02 July -08 July) over Agricultural regions of Bangladesh

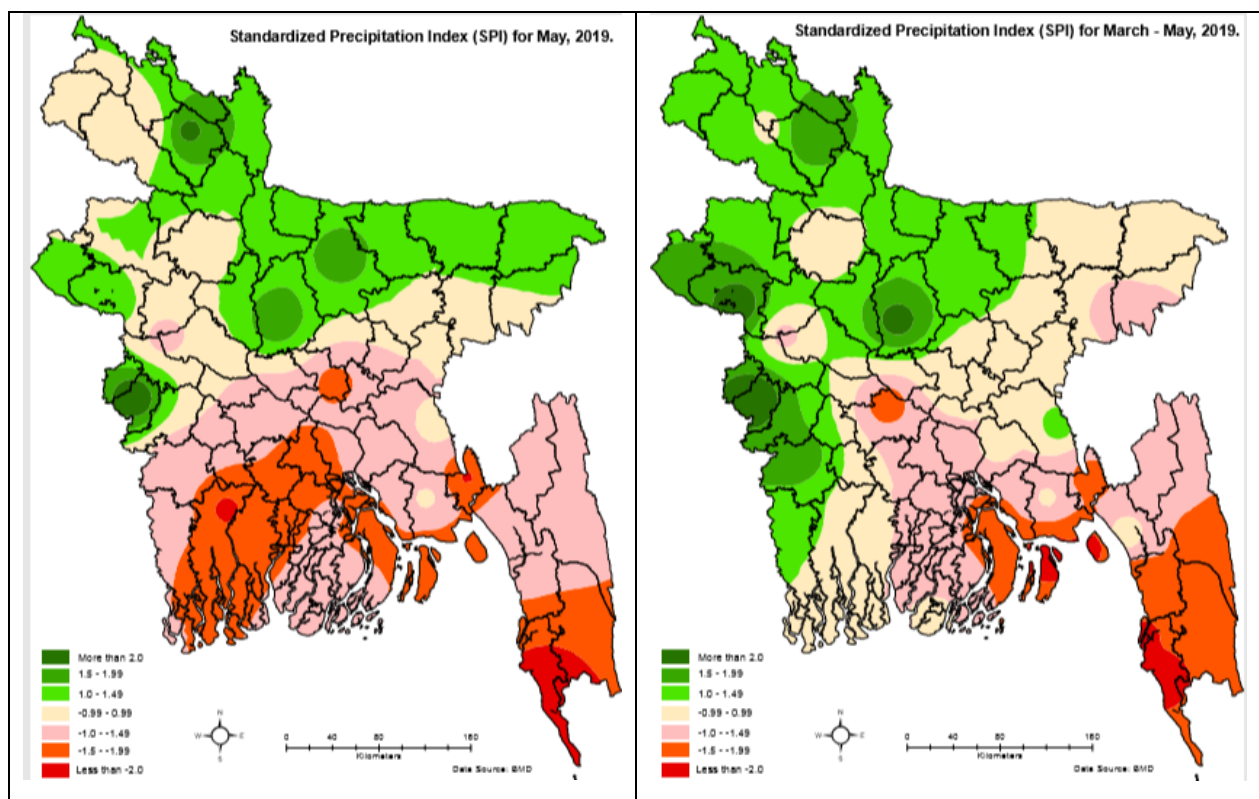


number No. 27 (02 July -08 July) over Agricultural regions of Bangladesh



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 17, 2019

- All the major rivers of the country are in rising trend except upper Meghna and South-Eastern Hilly region.
- According to the information of Bangladesh Meteorological Department and India Meteorological Department, there is no chance of heavy rainfall in the upstream states of Bangladesh in next 48 hours.
- The Brahmaputra-Jamuna and Ganges-Padma rivers may continue rising in next 48 hours and the Padma river at Bhagyakul point may cross danger level in next 24 hours.
- Flood situation in Kurigram, Jamalpur, Gaibandha, Bogra, Sirajganj, Tangail, Manikganj and Faridpur districts may deteriorate in next 24 hours.
- Flood situation in Netrokona, Sunamganj, Sylhet, Habiganj and Moulvibazar districts may improve in next 24 hours.

General River Condition

Monitoring Water Level Station	93	Water Level Steady in last 24 hours	06
Water Levels Rise in last 24 hours	49	*Total not Reported	00
Water Levels Fall in last 24 hours	38	Above Danger Level	23