



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

26 June 2019 (WEDNESDAY)
[FOR THE PERIOD 26.06.2019 - 02.07.2019]



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 information received from Bangladesh Meteorological Department (BMD), monsoon trough runs through Bihar to Assam across Sub-Himalayan West Bengal and northern part of Bangladesh. Monsoon is fairly active over northern part and less active elsewhere Bangladesh and weak 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, Mymensingh & Sylhet divisions, at a few places over Rajshahi, Dhaka and Chattogram divisions at one or two places over Khulna & Barishal divisions with moderately heavy to heavy falls at places over Rangpur, Mymensingh & Sylhet divisions. More rainfall over different parts of Bangladesh is likely after 30th June. Besides, mild heat wave is sweeping over Khulna division and the regions of Tangail, Faridpur, Madaripur, Rajshahi, Pabna & Dinajpur and it may abate from some places. Based on the realized rainfall and medium range weather forecast for next five days, agromet advisories for different districts have been prepared. Agromet advisories for the districts likely to receive significant rainfall are given below

<p>Paddy</p>  <p>Land Preparation for Aman Paddy</p>  <p>Transplanting of Aus Paddy</p>	<p>Aman Paddy</p> <ul style="list-style-type: none"> • Advise for preparation of seedbed. • Seedbed may be well exposed and high land and less chance of submergence due to water. Arrange for floating seedbed in absence of high land. • Promising variety BIRRI DHAN 33, 49,51,52,39 and 87 may be taken up. • Apply 2 kg gobar, 10 gm Urea and 10 gm gypsum per square meter seedbed to get good seedlings. • Construct mini pond close to the main field so that rain water may be harvested and the water may be used during the dry condition <p>Aus Paddy: Tillering Stage</p> <ul style="list-style-type: none"> • Apply need based irrigation and maintain 5-7 cm water level in the crop field • Remove weeds either by hand or application of weedicides after the current spells of rainfall. • Monitor the incidences of stem borer and leaf roller and also blast and bacterial leaf blight diseases and contact nearby office at upazila level for further information and advice.
<p>Jute</p>	<p>Jute: Growing stage</p>

 <p>Jute in growing condition</p>	<p>Avoid irrigation.</p> <p>There is a chance of incidences of Hairy Caterpillar. Following control measures is advised.</p> <ol style="list-style-type: none"> 1. Collect the egg mass and destroy 2. Use light traps. 3. Spray Imidocholoprid/Chlorocyrin/ Nitro @ 1ml/litre of water after current spells of rainfall. <p>There is a chance of incidences of Semiloper. Spray Imidocholoprid/Chlorocyrin/ Nitro @ 1ml/litre of water after current spells of rainfall.</p>
 <p>Ladys Finnger in Fruit Setting/ Vegetative</p>	<p>Brinjal, Pointed Gourd, Cucumber, Bitter gourd, Ridge gourd, Yard long bean & Lady's finger</p> <ul style="list-style-type: none"> • Avoid irrigation. • Monitoring is advised for infestation of mites in okra. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised after current spells of rainfall. • For pointed gourd, cucumber, ridge gourd and bitter gourd periodic hand weeding should be followed. • Hand pollination in pointed gourd, teasle gourd, sweet gourd early in the morning and during evening in ridge gourd helps to set cent percent fruit
<p style="text-align: center;">Fishery</p> <p>√ Maintain a good height of embankment around the pond. If possible, provide net or bamboo chatai around the pond to protect from flowing out with flash flood.</p> <p>√ As water has already started to accumulate in the ponds, farmers are advocated to go for stocking with fingerlings.</p> <p>√ Contact nearby office of fishery in the upazila office for further advise</p>	
<p style="text-align: center;">Livestock</p> <p>√ Prevailing condition is favorable for the incidences of different diseases.</p> <p>√ Vaccination & deworming may be done at regular interval.</p> <p>√ Prevailing climate may cause the for Hemorrhagic Septicemia, Anthrox, Black Quarter Foot & Mouth diseases. Farmers are advised to vaccination of animal.</p> <p>√ Ensure proper cross ventilation to avoid ammonia accumulation.</p> <p>√ Contact office of livestock in upazila office for further advise</p>	
<p style="text-align: center;">Poultry</p> <p>√ Keep the ckicken in dry place and spray pesticide in frequent intervals.</p> <p>√ Vaccination against Ranikhet disease in one week old chicks and against Gamboro disease in two weeks old chicks may be carried out.</p>	

√ Contact office of livestock in upazila office for further advise.

As mild heat wave is sweeping over many districts, as mentioned above, following agromet advisories are also issued.

Livestock

√As mild heat wave is sweeping over the district, hence protect animals from heat by covering roof of the shed with insulating materials such as paddy straw, dry coconut leaves and make arrangement for sprinkle cold water on the roof of shed during afternoon time.

√ Use wet gunny bags as side curtains to protect animals from direct hot winds.

√ Provide sufficient watering facility to the animals in shed for control respiration rate.

Poultry

To avoid heat stress due to mild heat wave in poultry birds:

√Feeding should be done during early morning and late evening,

√ Avoid overcrowding and maintain proper ventilation inside the shed.

√ Cover the cage with gunny bags and sprinkle water to main the cage relatively cold.

** Detail District level bulletin is available in DAE website

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 26 June'19) and maximum temperature on 25 June, minimum temperature on 26 June' 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	35.5	28.6	Rajshahi	Rajshahi	00	38.0	28.8
	Tangail	00	36.2	27.2		Ishurdi	00	36.4	28.5
	Faridpur	00	35.9	27.3		Bogura	Trace	35.5	28.2
	Madaripur	00	36.0	28.0		Badalgachhi	04	35.6	28.0
	Gopalganj	00	36.0	28.0		Tarash	00	35.5	28.4
	Nikli	00	35.0	28.4					
Mymensingh	Mymensingh	00	33.5	28.8	Rangpur	Rangpur	27	34.0	25.0
	Netrokona	00	33.3	27.9		Dinajpur	00	36.0	27.7
						Sayedpur	17	35.0	24.9
Chattogram	Chattogram	00	34.5	26.1		Tetulia	26	31.0	24.5
	Sandwip	00	34.5	28.7		Dimla	07	32.2	25.0
	Sitakunda	00	34.6	28.0		Rajarhat	54	32.2	23.6
	Rangamati	29	32.5	26.0	Khulna	Khulna	00	37.8	29.0
	Cumilla	00	34.3	28.0		Mongla	00	37.0	28.0
	Chandpur	00	36.2	27.3		Satkhira	00	36.4	29.0
	M.Court	00	35.6	28.5		Jashore	00	37.6	28.0
	Feni	01	35.2	28.4		Chuadanga	00	36.7	28.0
	Hatiya	00	35.6	28.1		Kumarkhali	00	36.4	28.8
	Cox's Bazar	00	34.5	29.2	Barishal	Barishal	00	35.5	28.0
	Kutubdia	01	34.0	29.1		Patuakhali	Trace	35.9	28.4
Teknaf	00	34.0	26.0	Khepupara		00	34.7	29.3	
Sylhet	Sylhet	88	32.9	25.0		Bhola	00	35.0	28.3
	Srimangal	00	35.4	28.3					

Highlights:

- Country average of bright sunshine hour was 4.30 hours per day during last week.
- Country average of free water loss during the previous week was 3.43 mm per day.

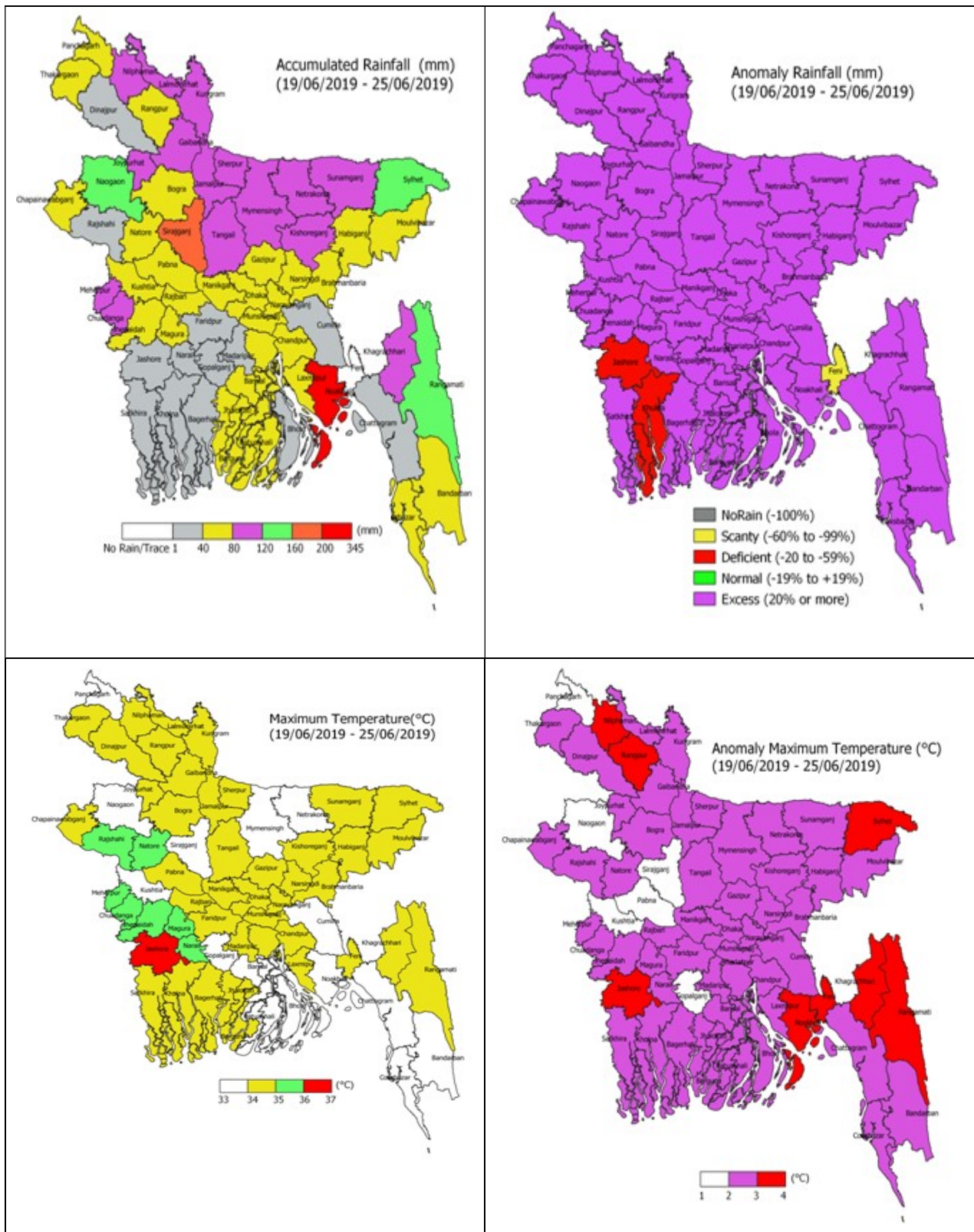
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

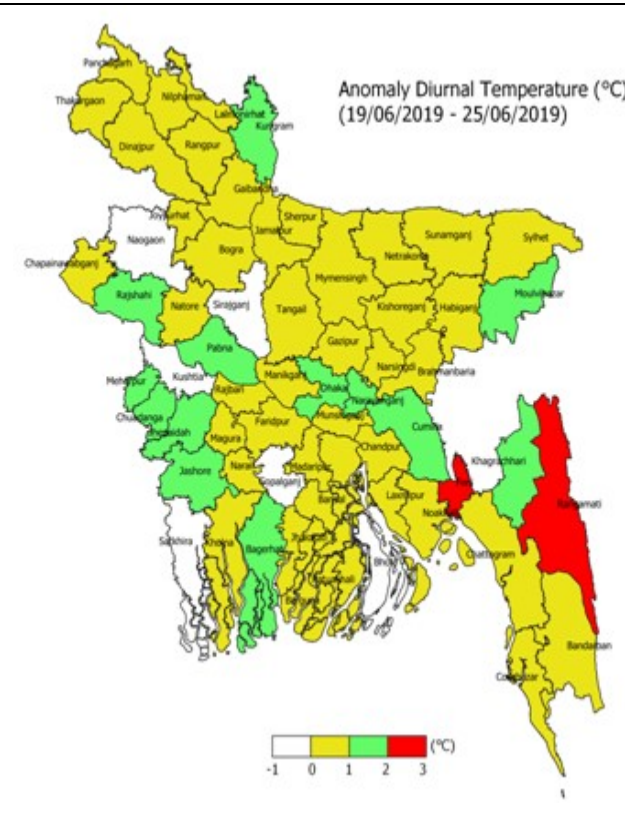
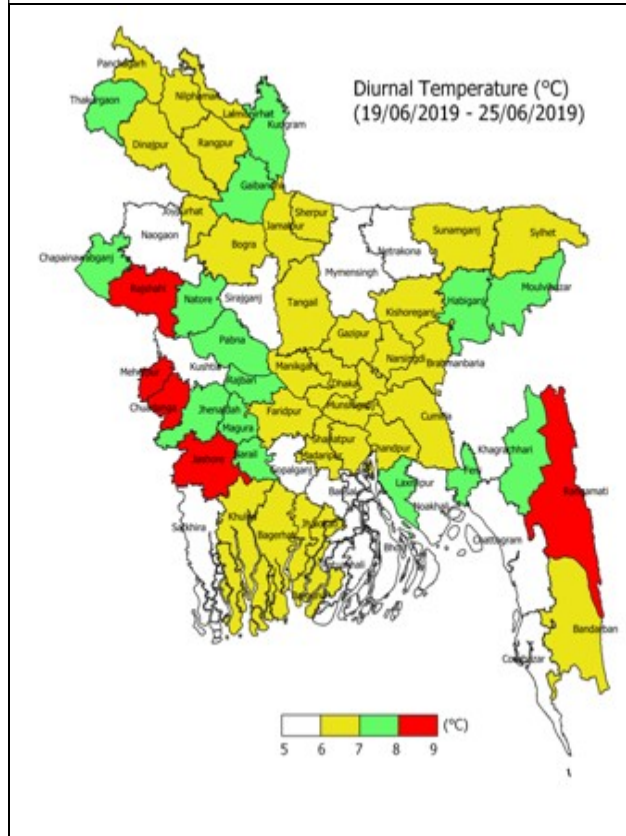
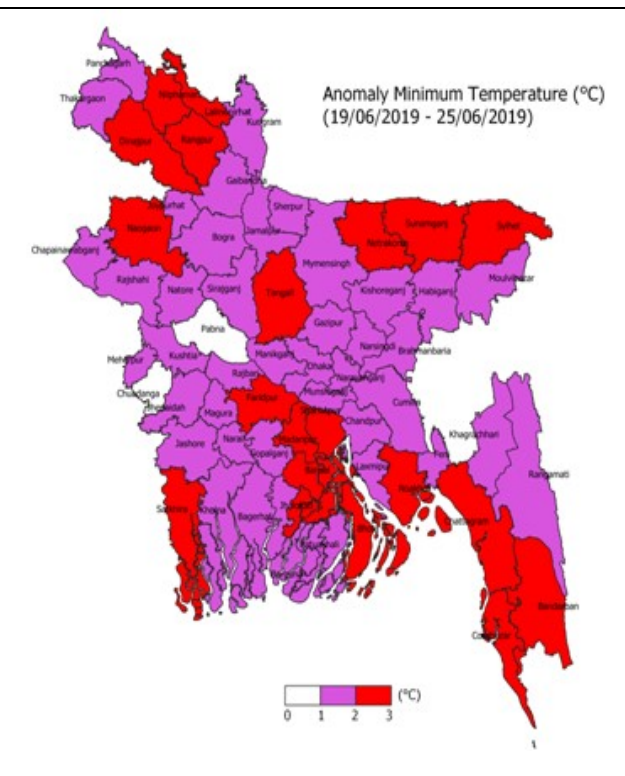
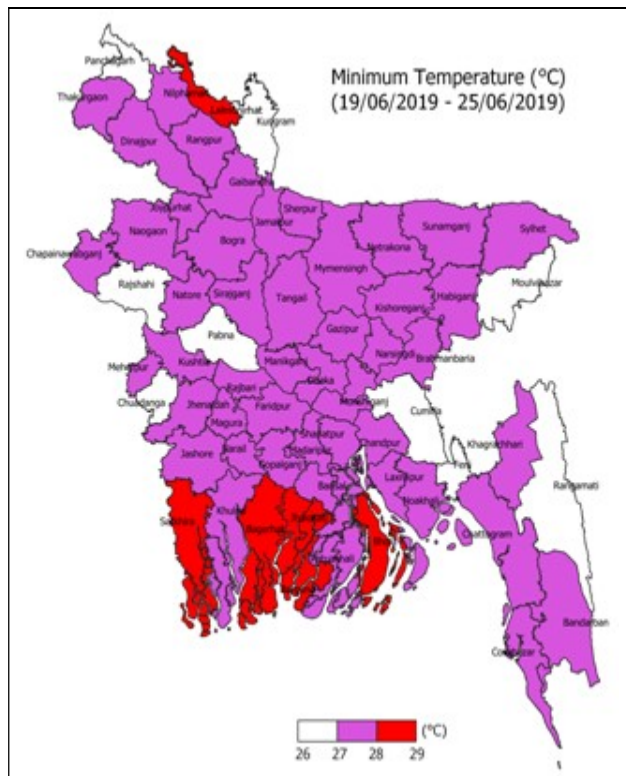
Forecast: Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Rangpur, Mymensingh & Sylhet divisions, at a few places over Rajshahi, Dhaka and Chattogram divisions at one or two places over Khulna & Barishal divisions with moderately heavy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

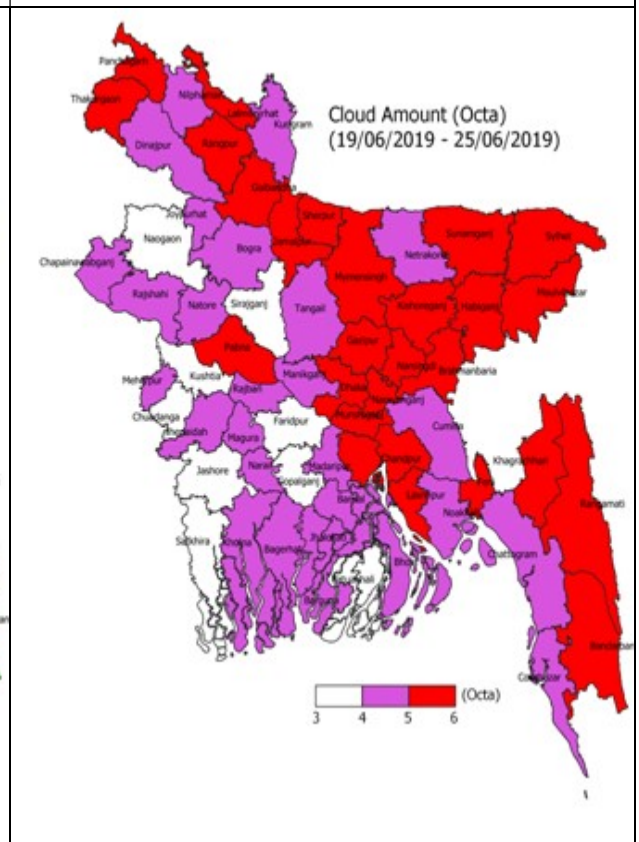
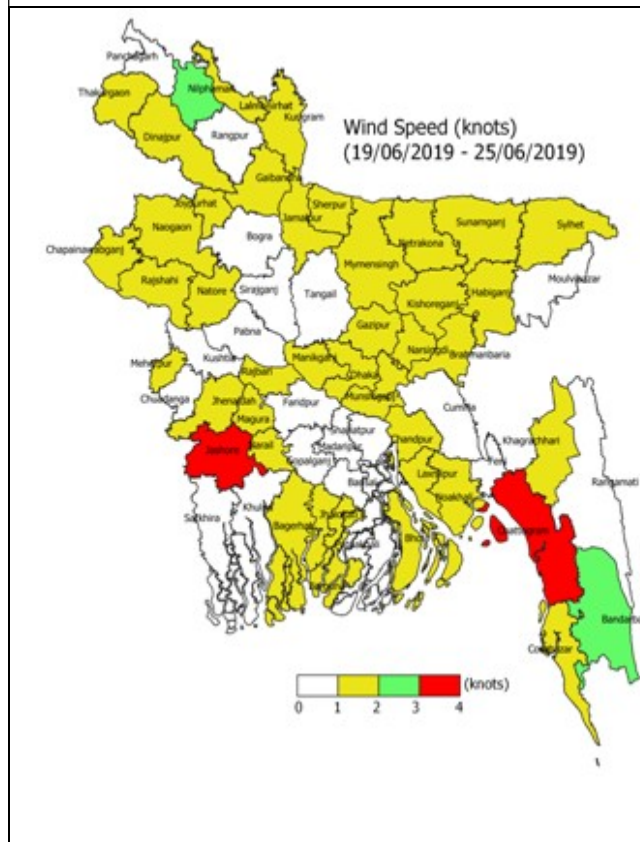
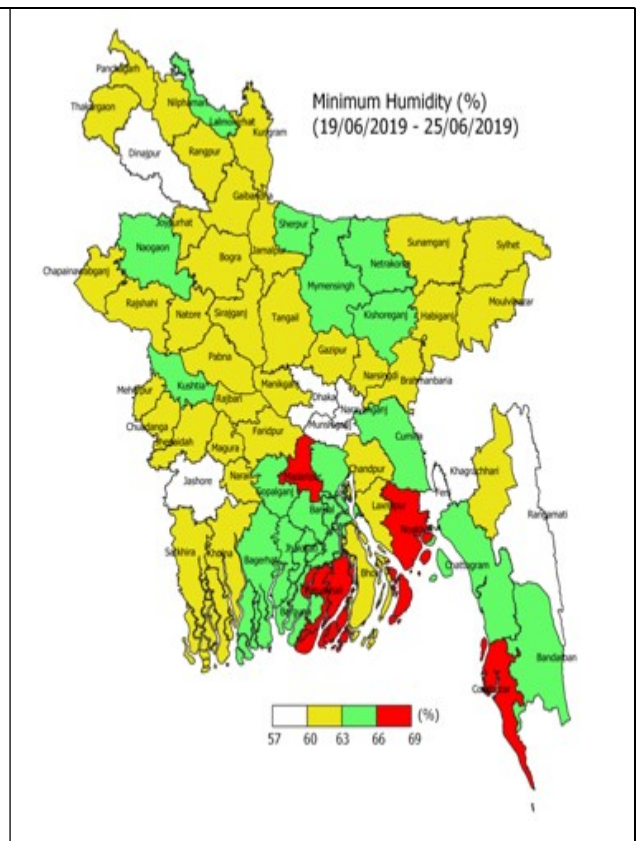
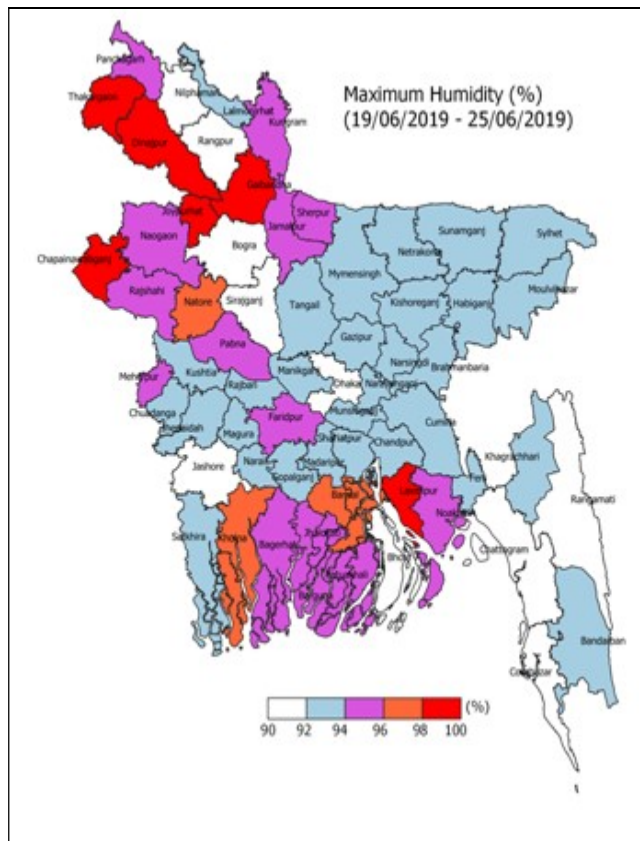
Heat wave: Mild heat wave is sweeping over Khulna division and the regions of Tangail, Faridpur, Madaripur, Rajshahi, Pabna & Dinajpur and it may abate from some places

Temperature: Day and night temperature may fall by (1-2)°C over the country.

Spatial Distribution of weather parameters for the Week ending 26th June 2019





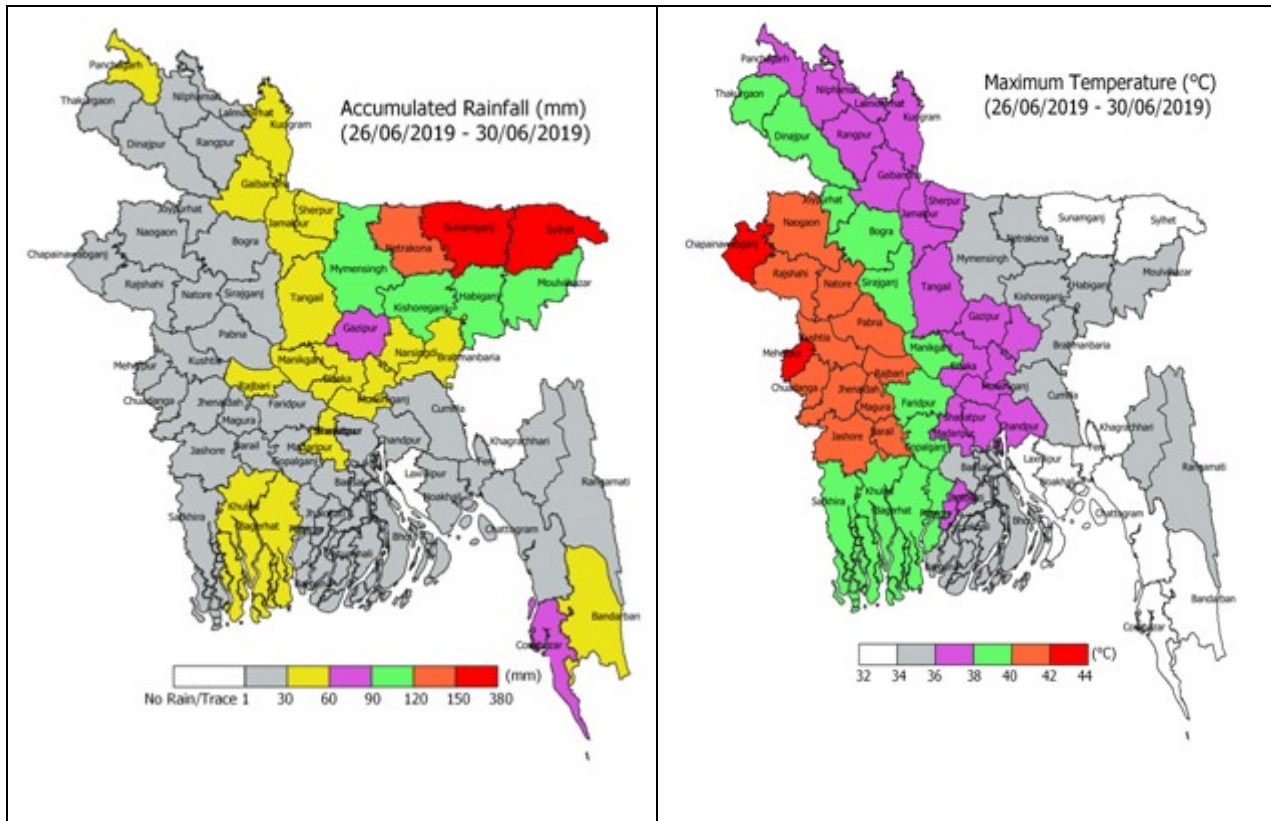


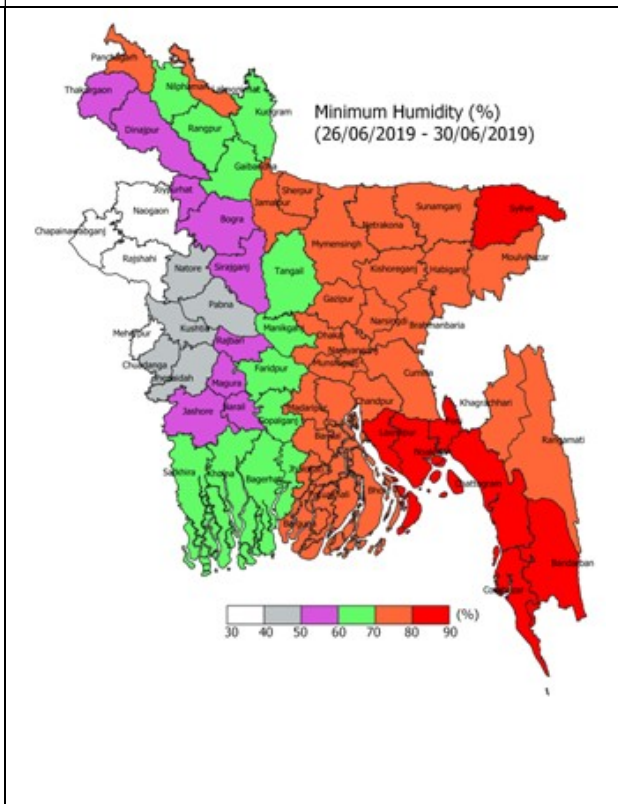
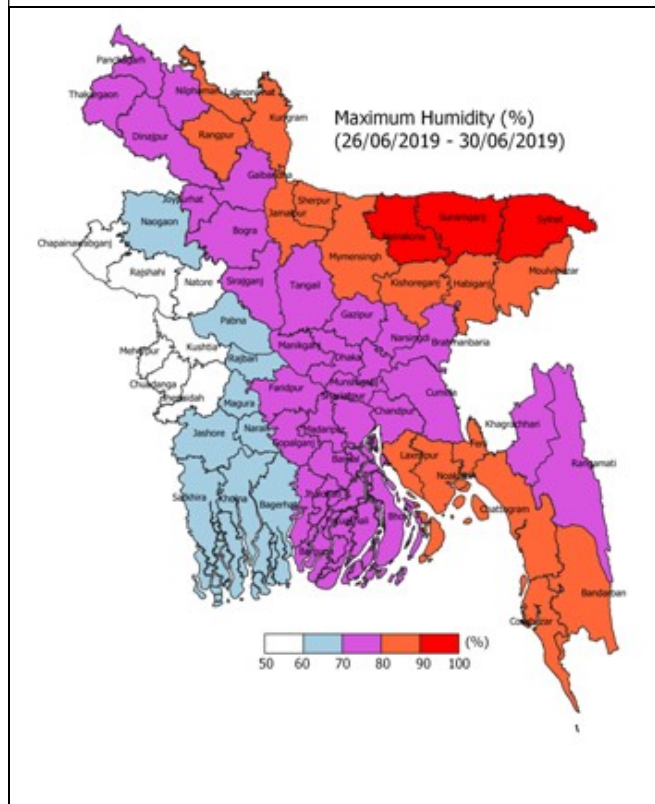
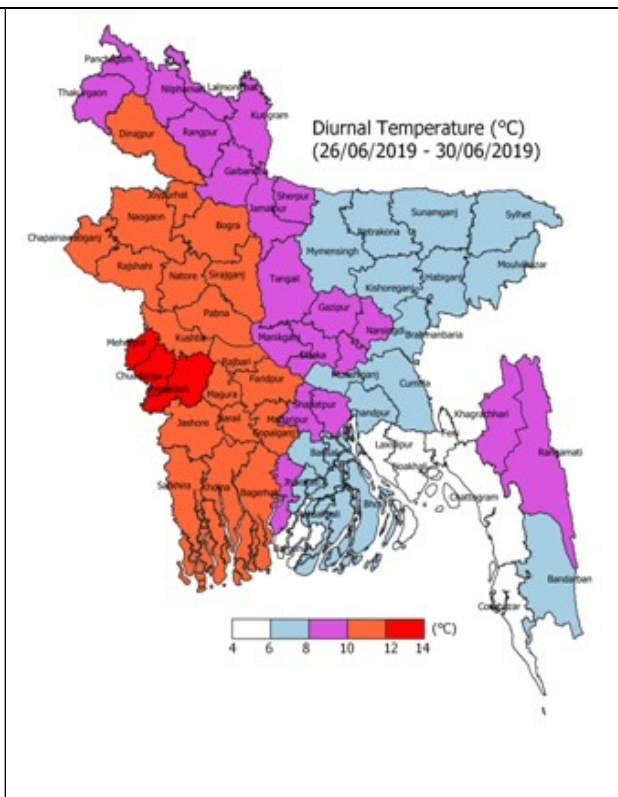
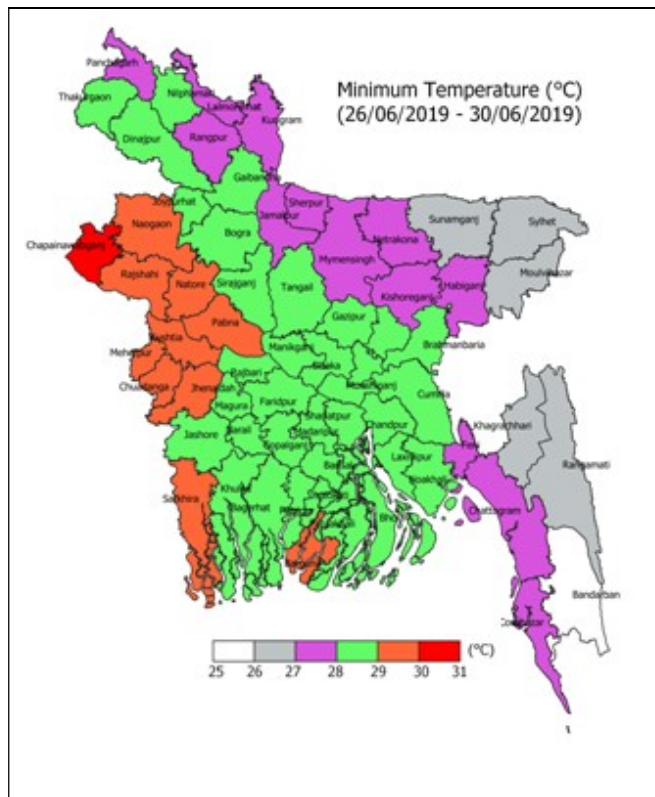
Weather Forecast and Advisory for the Period of 23.06.2019 to 30.06.2019

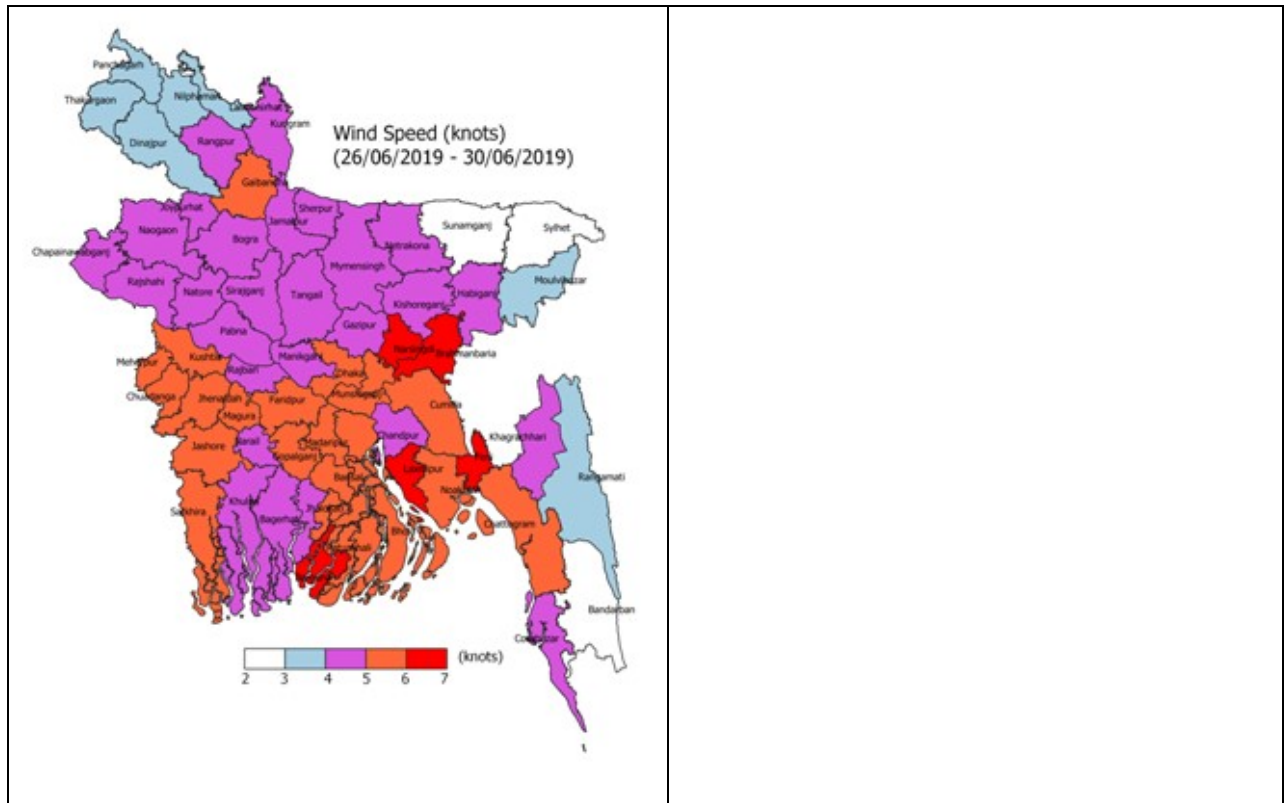
Bright sunshine hour is likely to be from 4.50 to 5.50 hours per day during this week. Average of free water loss during the next week is likely to be from 3.25 to 4.25 mm per day.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder shower is likely to occur at many places over Dhaka, Mymensingh, Sylhet and Rangpur divisions and a few places over Rajshahi, Chattogram, Khulna, and Barisal divisions, with a chance of moderately heavy (23-43 mm/d) falls at places over the country during this period.
- Rainfall activities may increase during the second half of this period.
- Day and night temperature may rise slightly during the first half and slight fall during the second half of this period.

District Wise Quantitative Weather Forecast for next Five days from 26 June -30 June'19

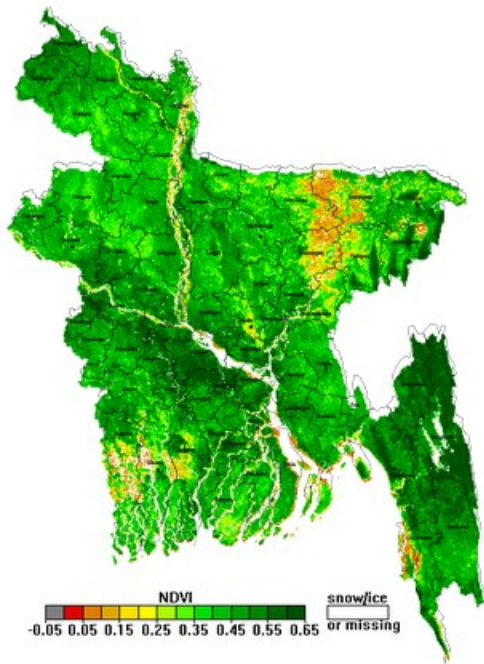




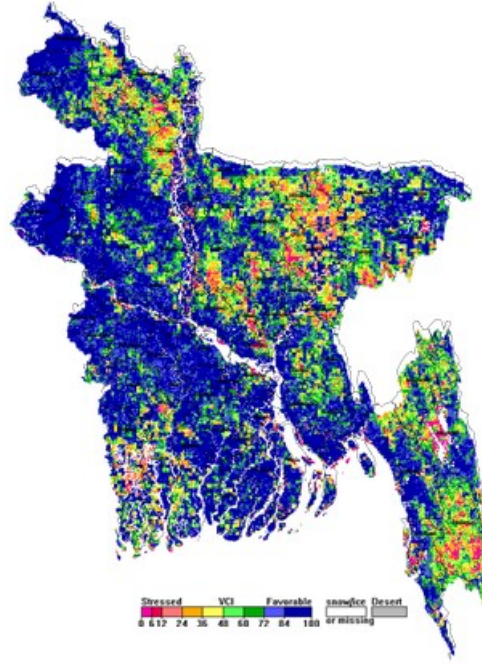


Different Satellite Products over Bangladesh

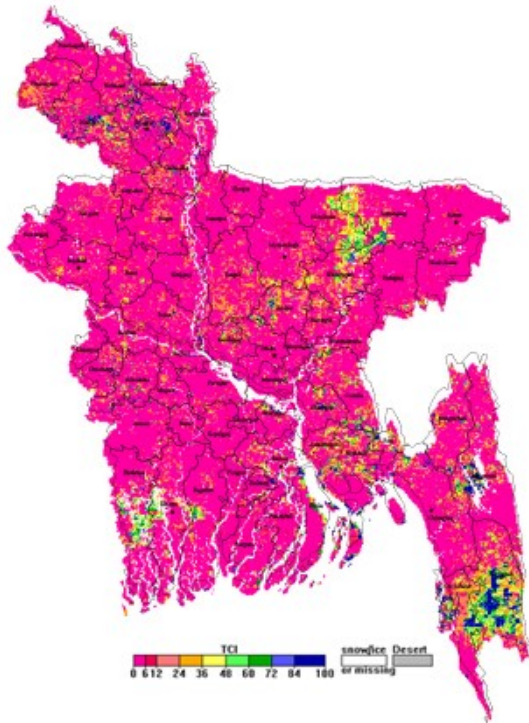
NOAA/VIIRS BLENDED NDVI composite for the week number No. 24 (11 June -17 June) over Agricultural regions of Bangladesh



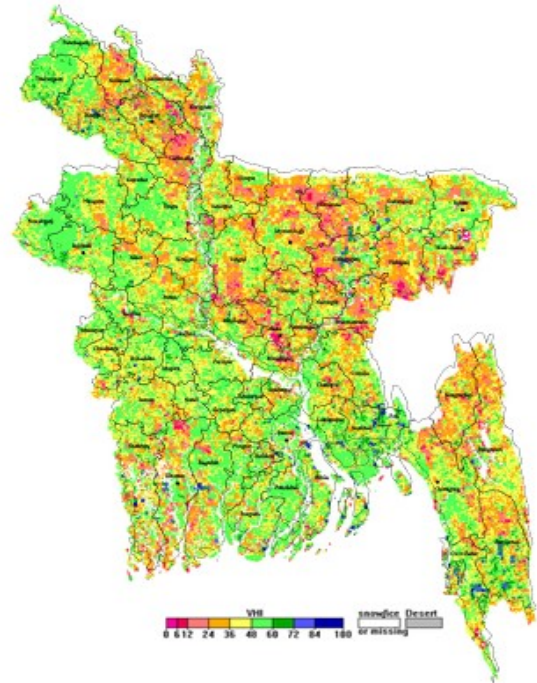
NOAA/AVHRR BLENDED VCI composite for the week number No. 24 (11 June -17 June) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 24 (11 June -17 June) over Agricultural regions of Bangladesh

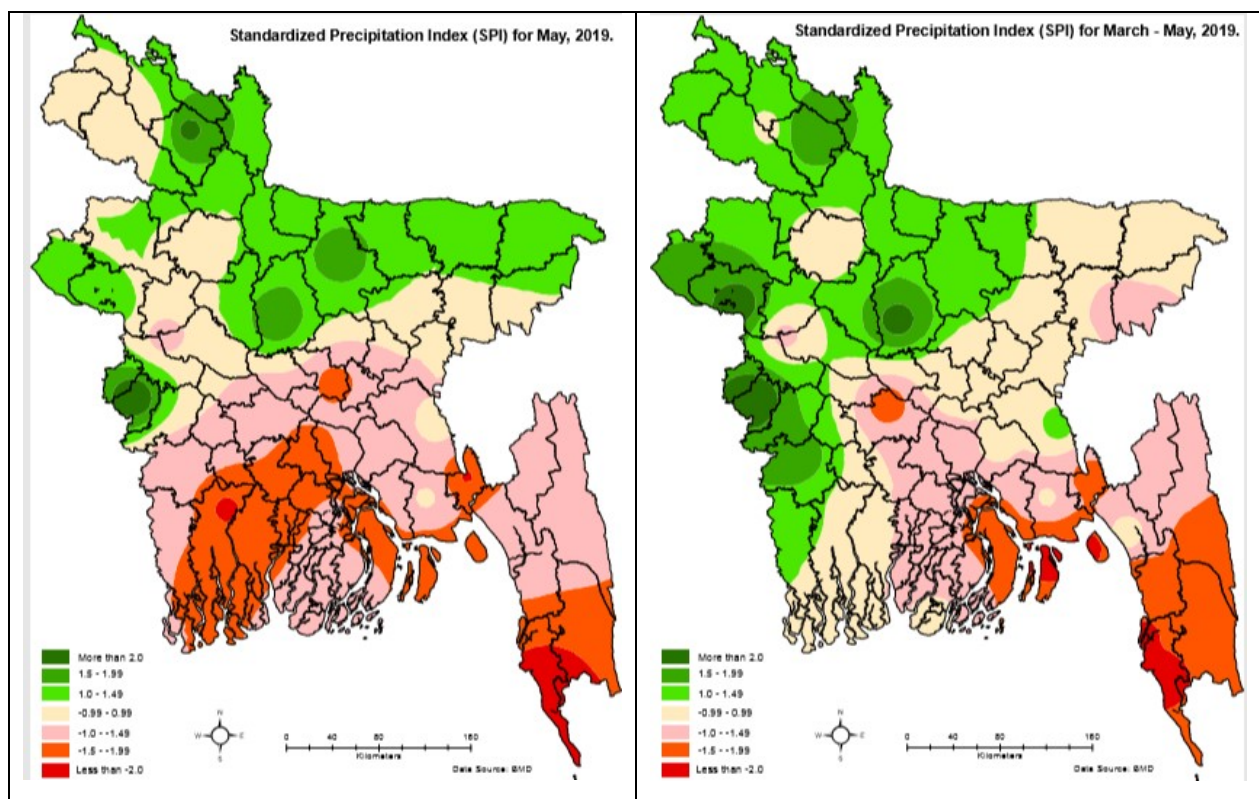


NOAA/ AVHRR BLENDED VHI composite for the week number No. 24 (11 June -17 June) over Agricultural regions of Bangladesh



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 JUNE 26, 2019

- The Brahmaputra, Dharla and Surma-Kushiyara rivers are in rising trend, while the Jamuna and Ganges rivers are in falling trend. The Padma river is in steady state.
- According to the information of Bangladesh Meteorological Department and India Meteorological Department, there is chance of heavy to very heavy rainfall at some places in the Northern and North-Eastern part of Bangladesh along with adjoining Assam and Meghalaya states of India in next 24 to 48 hours.
- The Brahmaputra and Surma-Kushiyara rivers may continue rising in next 24 hours, while the Jamuna river may rise in next 24 hours.
- The Ganges river may continue falling, while the Padma river may remain steady in next 24 hours.

General River Condition

Monitored Water Level Station	94	Inactive Gauge	01 (Gowainghat)
Rise	43	Gauge Reading Not Started	01 (Jagir)
Fall	44	Gauge Reading Missing	00
Steady	05	Total Not Reported	02
		Above Danger Level	00