



# NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

19 June 2019 (WEDNESDAY)  
[FOR THE PERIOD 19.06.2019 - 25.06.2019]



## 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.


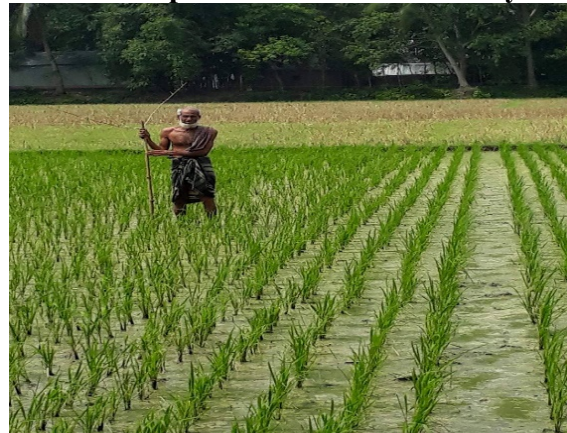
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## ISSUED BY

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), Trough of low lies over West Bengal to Northeast Bay across southern part of Bangladesh. Southwest monsoon has advanced up to northwestern part of Bangladesh covering Barishal, Chattogram, Dhaka, Sylhet & Mymensingh divisions. Due to these weather conditions and the medium range weather forecast issued by BMD, significant rainfall along with temporary gusty wind is likely at Rangpur, Mymensingh & Sylhet Division and the districts of Rangamati, Joypurhat, Khagrachari, Brahmanbaria, Chandpur & Gazipur, Narsingdi, Munshiganj & Banderban. Based on the realized weather during last few days and expected weather next five days along with the sensitivities of weather parameters on crops and package of practices, advisories for major standing crops in the country were issued. Some of the salient advisories for the districts where good amount of rainfall is expected are mentioned below.

<p><b>Paddy</b></p>  <p><b>Land Preparation for Aman Paddy</b></p>  <p><b>Transplanting of Aus Paddy</b></p>	<ul style="list-style-type: none"> <li>• <b>Aman Paddy:</b> Advise for preparation of seedbed for Aman paddy in <i>kharif season</i>.</li> <li>• 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.</li> <li>• Promising variety BIRRI DHAN 33, 49,51,52,39 AND 87 may be taken up.</li> <li>• Apply 2 kg gobar, 10 gm Urea and 10 gm gypsum per square meter seedbed to get good seedlings.</li> <li>• Construct mini pond close to the main field so that water harvesting of rain water can be made and the water may be used during the dry condition</li> </ul> <p><b>Aus Paddy: Seedbed to Transplanting</b></p> <ul style="list-style-type: none"> <li>• Remove weeds by hand after the current spells of rainfall. Avoid irrigation and also drain out excess water from the field.</li> <li>• If the population of Thrips and Green Leaf Hopper exceeds 25%, apply Malathion group insecticide at the rate of 1ml/1 litre of water after the current spells of rainfall.</li> <li>• If the seedlings are ready for transplanting, this is the ideal time for transplanting as good amount of rainfall is expected and also monsoon has already advanced to this district</li> </ul>
<p><b>Jute</b></p>	<p>Following are the advisories where crops have already been sown.</p>

 <p style="text-align: center;"><b>Jute in growing condition</b></p>	<ul style="list-style-type: none"> <li>• Weeding may be done after the current spells of rainfall.</li> <li>• Farmers are advised to carry out thinning operation in early sowing jute crop after the current spells of rainfall</li> </ul> <p>There is a chance of incidences of Hairy Caterpillar. Following control measures is advised.</p> <ol style="list-style-type: none"> <li>1. Collect the egg mass and destroy</li> <li>2. Use light traps.</li> <li>3. Spray Imidocholoprid/Chlorocyrin/ Nitro @ 1ml/litre of water.</li> </ol> <p>There is a chance of incidences of Semiloper. Spray Imidocholoprid/Chlorocyrin/ Nitro @ 1ml/litre of water after the current spells of rainfall</p>
<p><b>Brinjal, Pointed Gourd, Cucumber, Bitter gourd, Ridge gourd, Yard long bean &amp; Lady's finger</b></p>  <p style="text-align: center;"><b>Ladys Finnger in Fruit Setting/ Vegetative</b></p>	<ul style="list-style-type: none"> <li>• Avoid irrigation and also drain out excess water from the field.</li> <li>• Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised after the current spells of rainfall.</li> <li>• For pointed gourd, cucumber, ridge gourd and bitter gourd periodic hand weeding should be followed. Hand pollination in pointed gourd, cucumber, bitter gourd early in the morning and during evening in ridge gourd helps to set cent percent fruit.</li> </ul>
<p style="text-align: center;"><b>Mango</b></p>	<ul style="list-style-type: none"> <li>• In case of attack of shoot borer, find the hole and put kerosene into the hole and plug the hole with mud. Occasional high wind may break the branches of tree; provide support to the branch to prevent breakage and wastage of fruit</li> <li>• Fruit fly: hanging traps containing 1 ml Methyl ugenol/litre of water and 1 ml Melothion 50 EC. use 100 ml solution / trap and 10 traps per hectare after the current spells of rainfall.</li> </ul>



- Fully matured fruits can be harvested either on non rainy days or after the current spells of rainfall..
- Bark eating caterpillar may attack Mango, Ber & Guava. This insect eats bark of these trees & makes tunnels in them. To control this insect spray Malathion 50 E.C. @ 1 ml per litre water after the current spells of rainfall.
- Harvest the fruit and keep in safe place after the current spells of rainfall.

### **Banana**



**Mechanical Support with Bamboo under gusty wind**

Provide mechanical support due to expected gusty wind

\*\* 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 19 June'19) and maximum temperature on 18 June, minimum temperature on 19 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	02	34.8	27.7	Rajshahi	Rajshahi	00	35.9	27.0
	Tangail	01	34.4	26.5		Ishurdi	00	35.0	27.2
	Faridpur	00	34.3	26.6		Bogura	00	33.5	27.8
	Madaripur	00	34.0	24.4		Badalgachhi	00	33.2	27.1
	Gopalganj	00	32.0	25.5		Tarash	00	33.6	28.4
	Nikli	00	33.6	28.7					
Mymensingh	Mymensingh	00	33.8	27.4	Rangpur	Rangpur	30	34.6	25.2
	Netrokona	00	34.5	28.0		Dinajpur	11	34.3	27.5
						Sayedpur	23	34.0	24.8
				Tetulia		05	31.5	25.8	
Chattogram	Chattogram	04	34.2	26.4		Dimla	02	32.2	24.2
	Sandwip	00	34.6	27.4		Rajarhat	27	33.0	26.0
	Sitakunda	01	35.0	27.0	Khulna	Khulna	00	34.0	26.5
	Rangamati	19	<u>36.2</u>	25.4		Mongla	01	33.0	26.3
	Cumilla	02	33.0	26.2		Satkhira	00	32.5	28.5
	Chandpur	04	34.2	26.5		Jashore	00	<u>36.2</u>	27.8
	M.Court	00	35.6	28.0		Chuadanga	00	35.7	27.5
	Feni	00	35.6	26.2		Kumarkhali	00	33.0	27.6
	Hatiya	00	34.3	27.1	Barishal	Barishal	22	32.6	26.6
	Cox's Bazar	03	33.0	26.5		Patuakhali	26	32.4	24.3
	Kutubdia	03	33.2	27.5		Khepupara	<u>72</u>	31.8	<u>23.1</u>
	Teknaf	24	31.6	24.5		Bhola	Trace	33.8	27.4
Sylhet	Sylhet	00	35.5	26.8					
	Srimangal	00	35.5	26.4					

### Highlights:

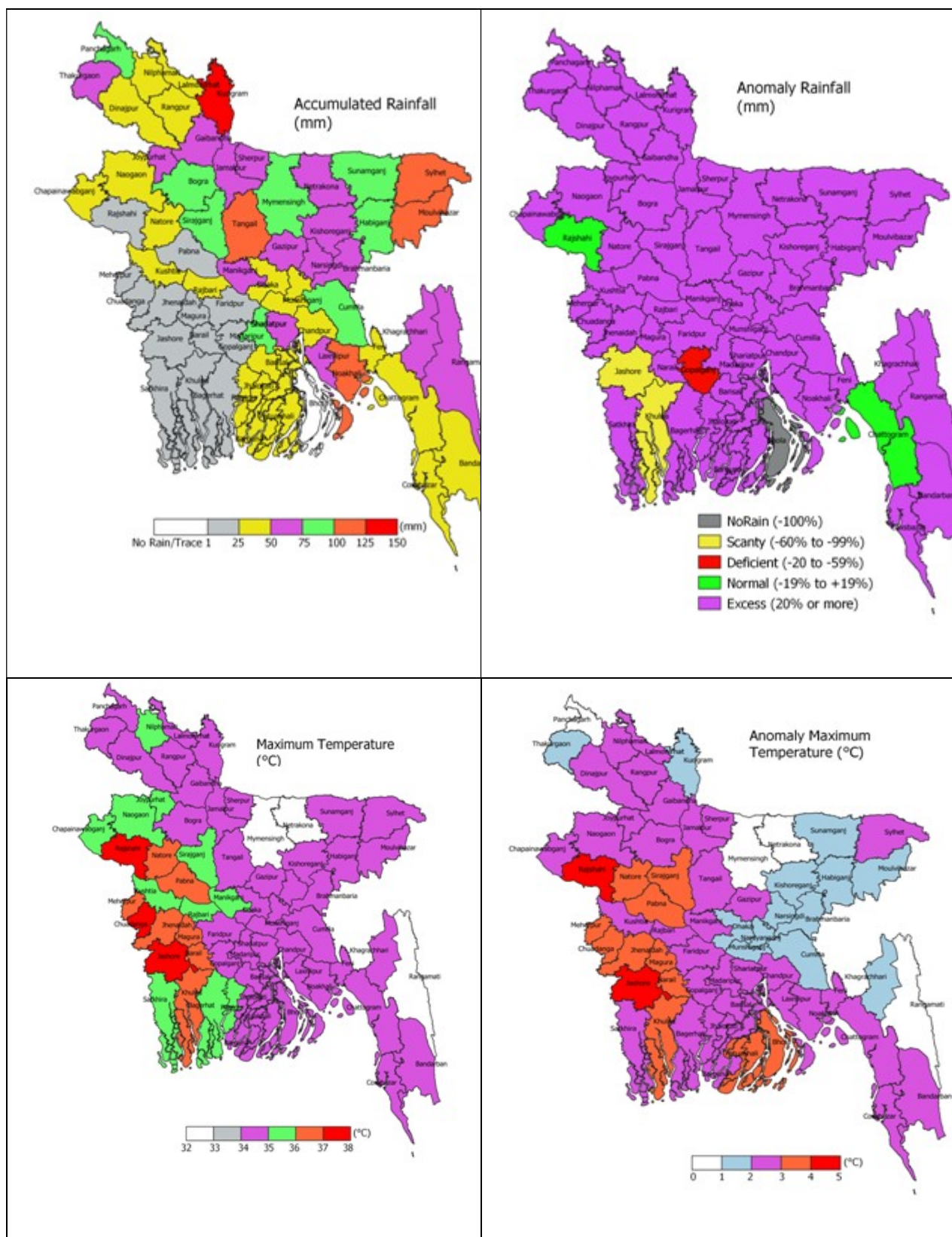
- Country average of bright sunshine hour was 5.63 hours per day during last week.
- Country average of free water loss during the previous week was 3.72 mm per day.

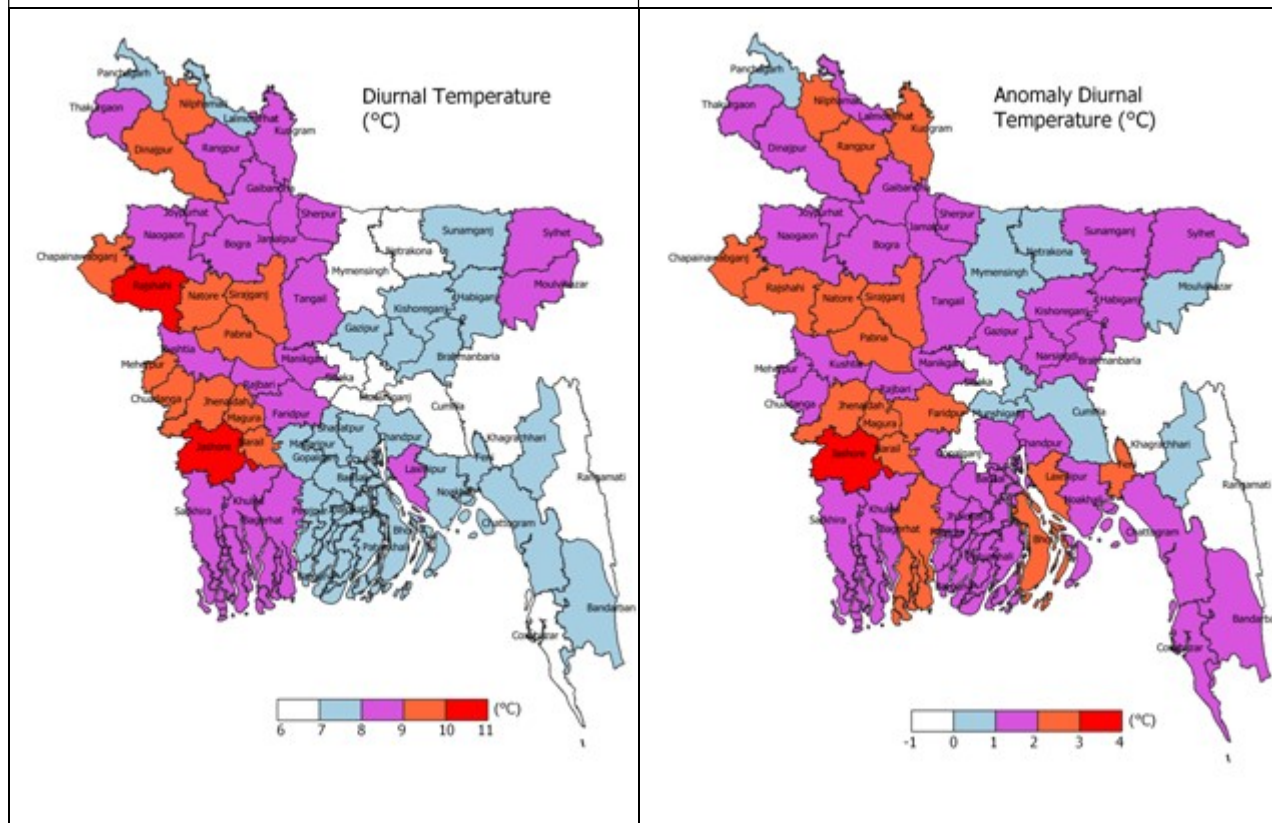
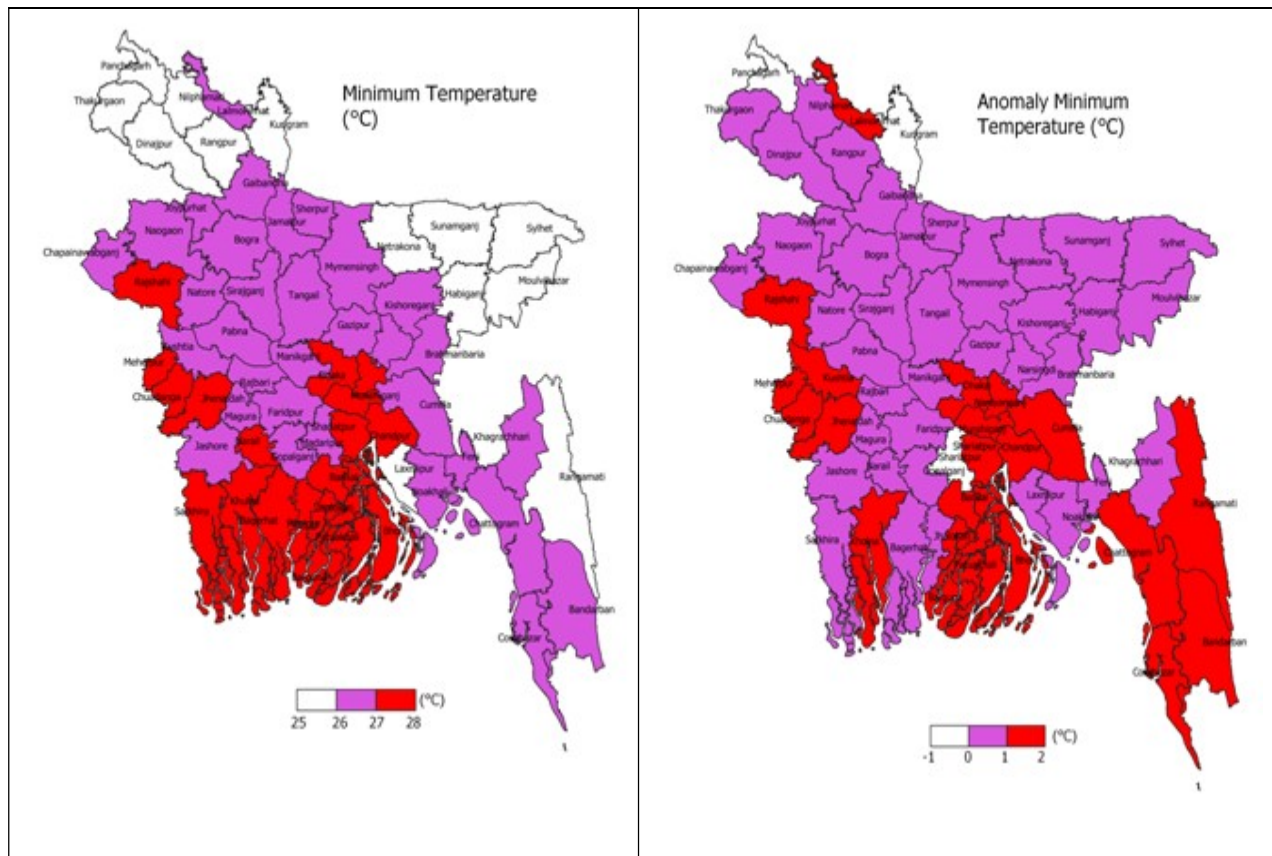
### Weather Forecast Valid for 24 Hours commencing 06 PM Today:

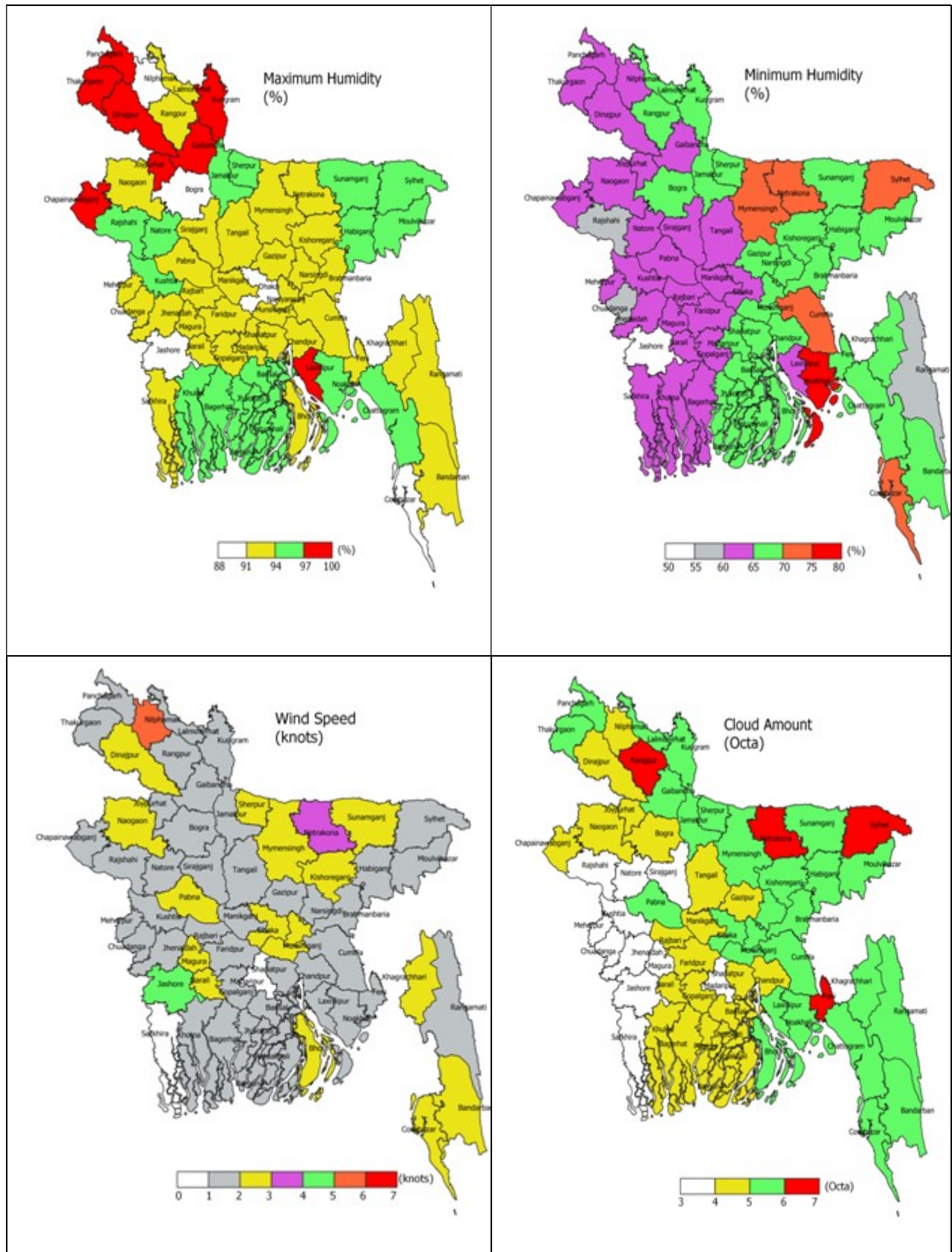
**Forecast:** Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Rangpur, Chattogram & Sylhet divisions, at a few places over Rajshahi, Mymensingh & Barishal divisions and at one or two places over Dhaka & Khulna divisions with moderately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

**Temperature:** Day temperature may fall slightly over Chattogram & Sylhet divisions and may remain nearly unchanged elsewhere over the country & night temperature may remain nearly unchanged over the country.

### Spatial Distribution of weather parameters for the Week ending 19<sup>th</sup> June 2019







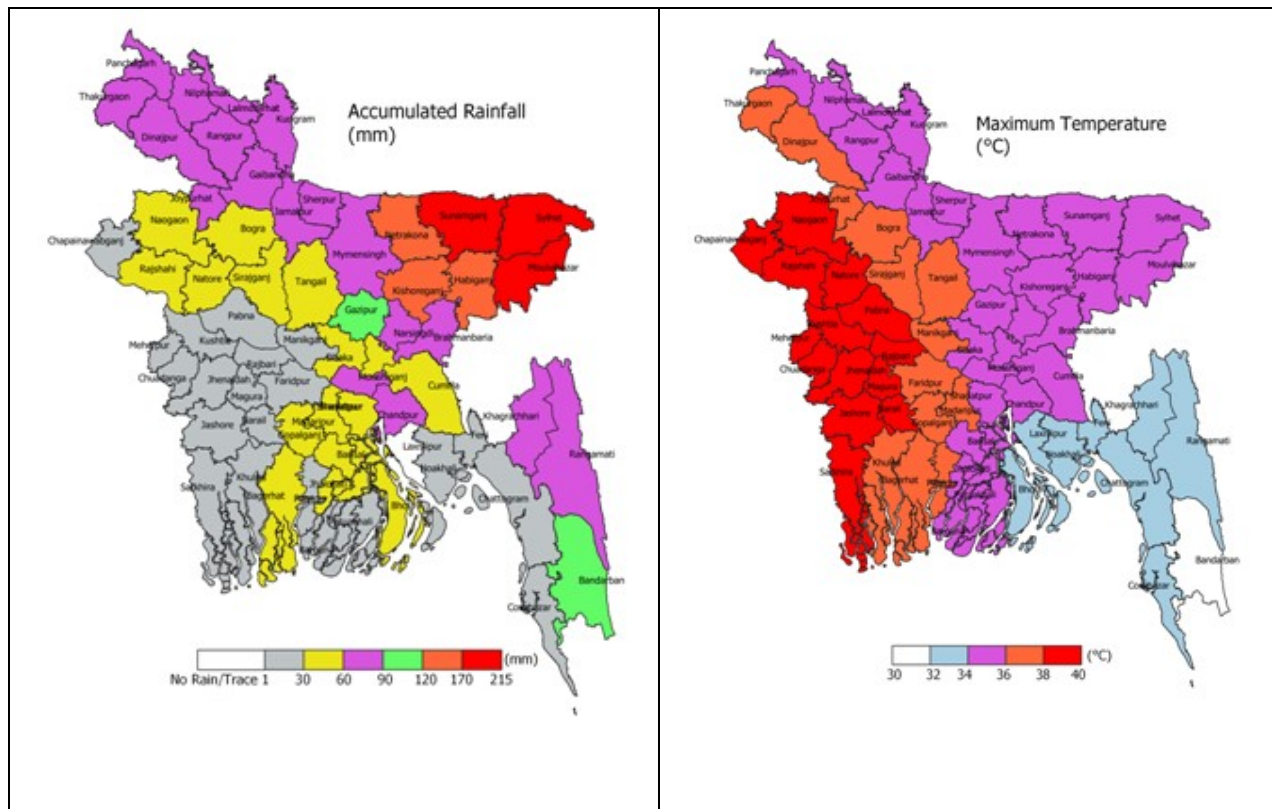


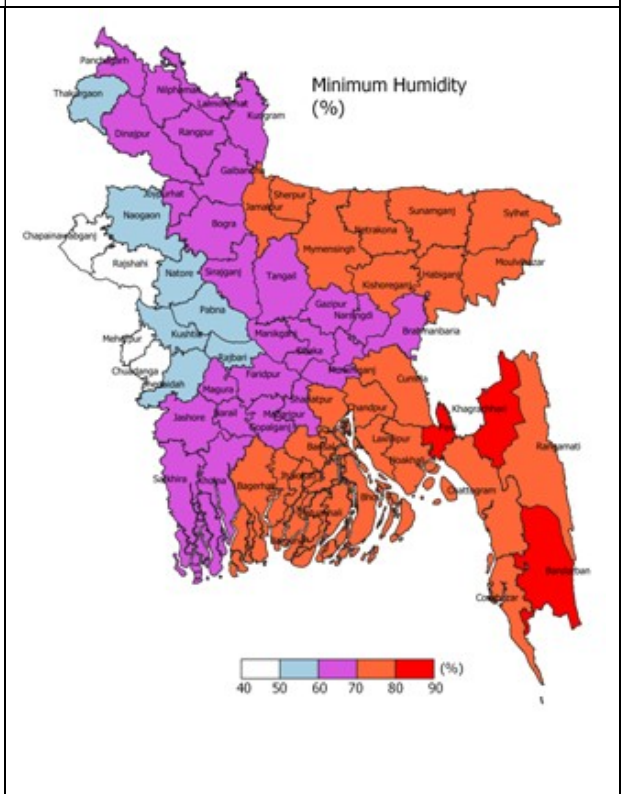
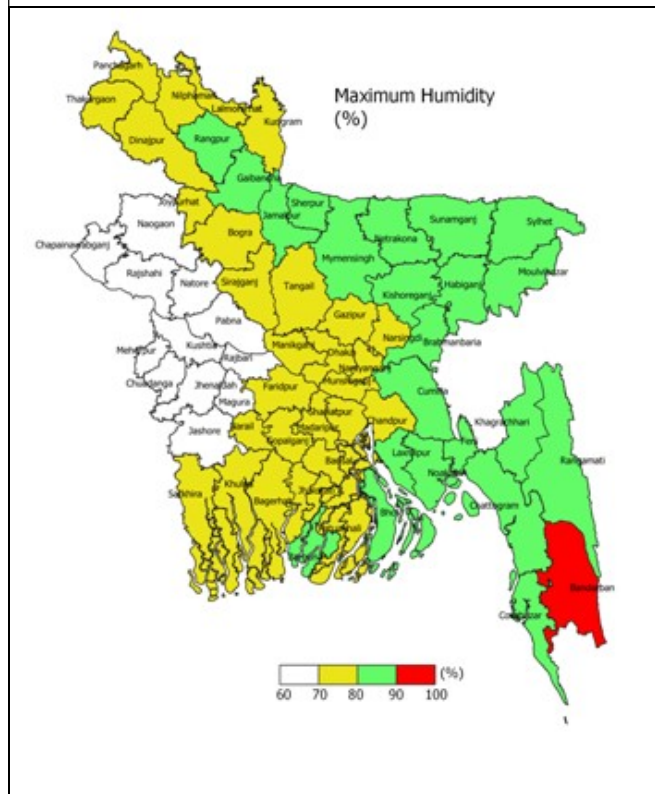
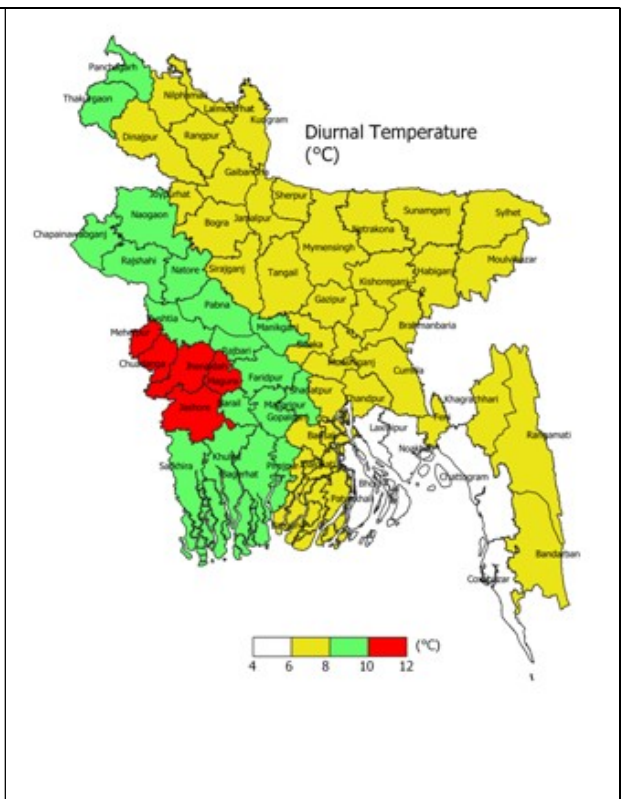
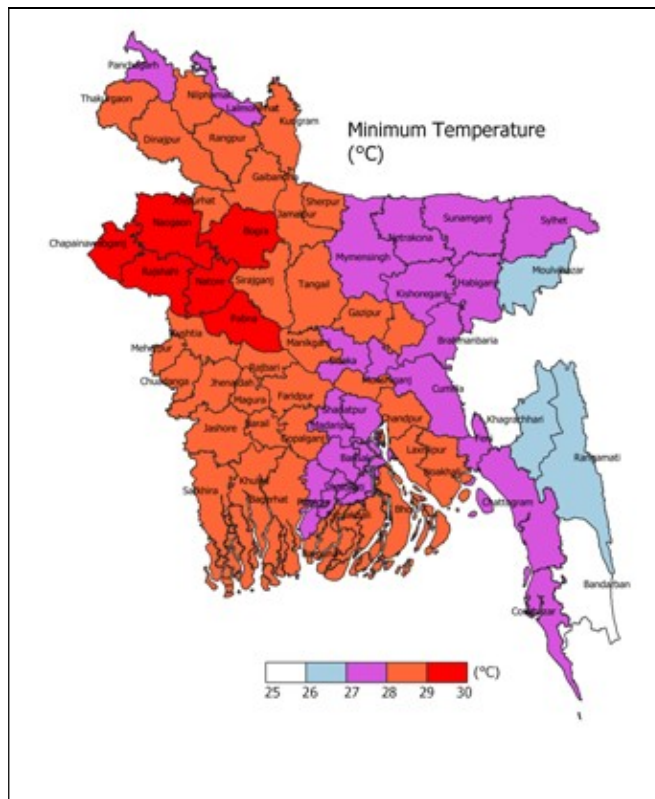
**Weather Forecast and Advisory for the Period of 16.06.2019 to 22.06.2019**

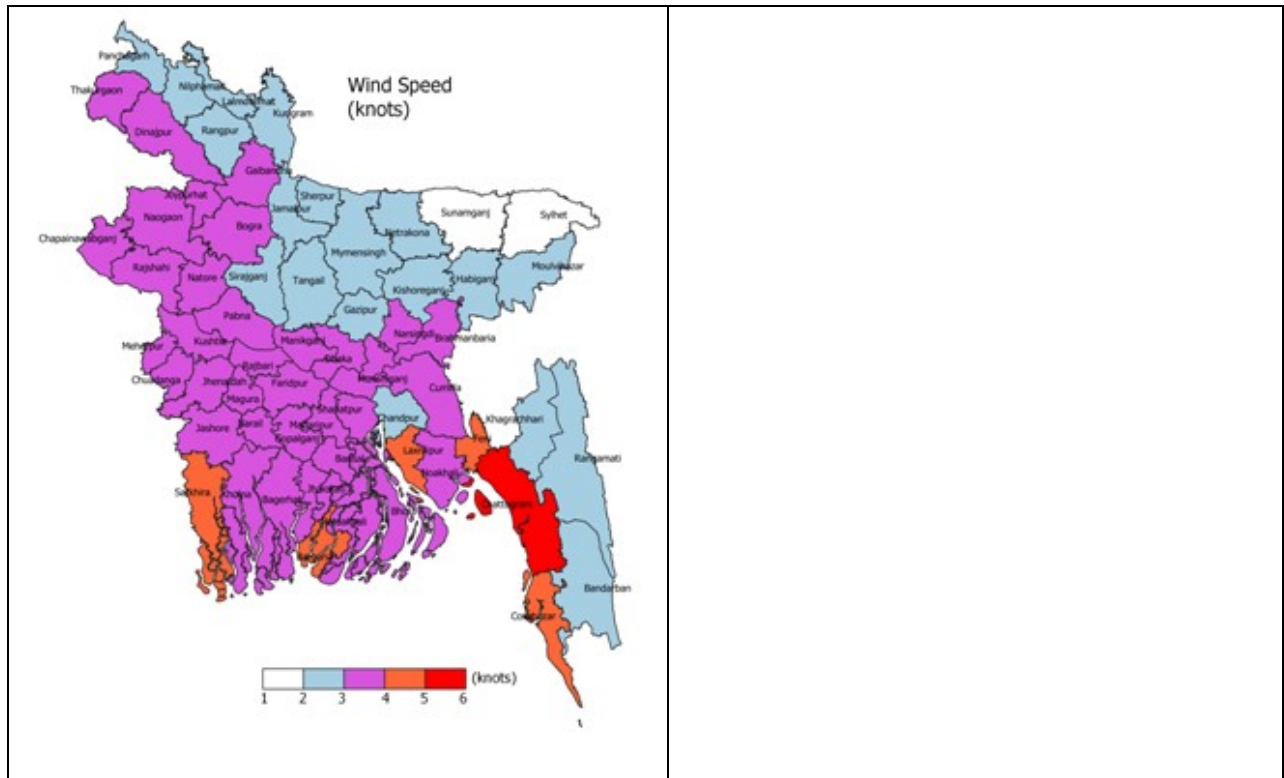
Bright sunshine hour is likely to be from 4.75 to 5.75 hours per day during this week. Average of free water loss during the next week is likely to be from 3.25 to 4.25 mm per day.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder shower is likely to occur at many places over Dhaka, Mymensingh, Chattogram, Sylhet and Rangpur divisions and a few places over Rajshahi, Khulna, and Barisal divisions, with a chance of moderately heavy (23-43 mm/d) falls at places over the country during 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 19 June -25 June'19**

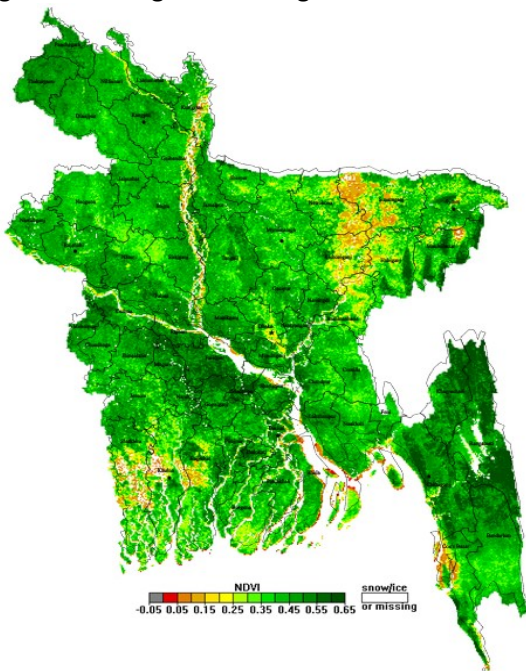




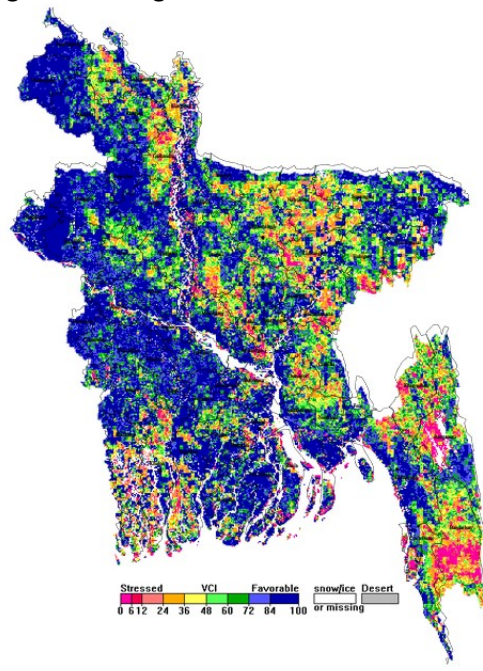


## Different Satellite Products over Bangladesh

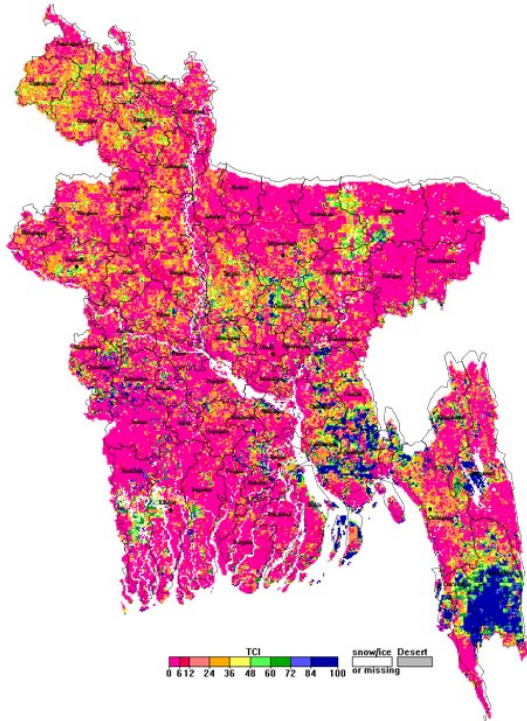
NOAA/VIIRS BLENDED NDVI composite for the week number No. 23 (4 June -10 June) over Agricultural regions of Bangladesh



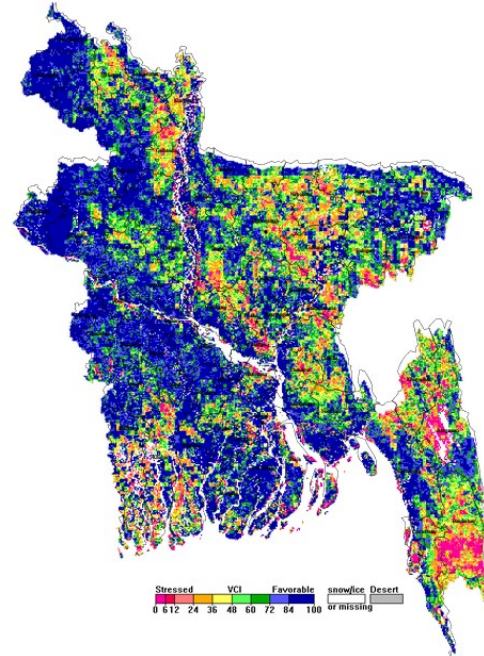
NOAA/AVHRR BLENDED VCI composite for the week number No. 23 (4 June -10 June) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 23 (4 June -10 June) over Agricultural regions of Bangladesh

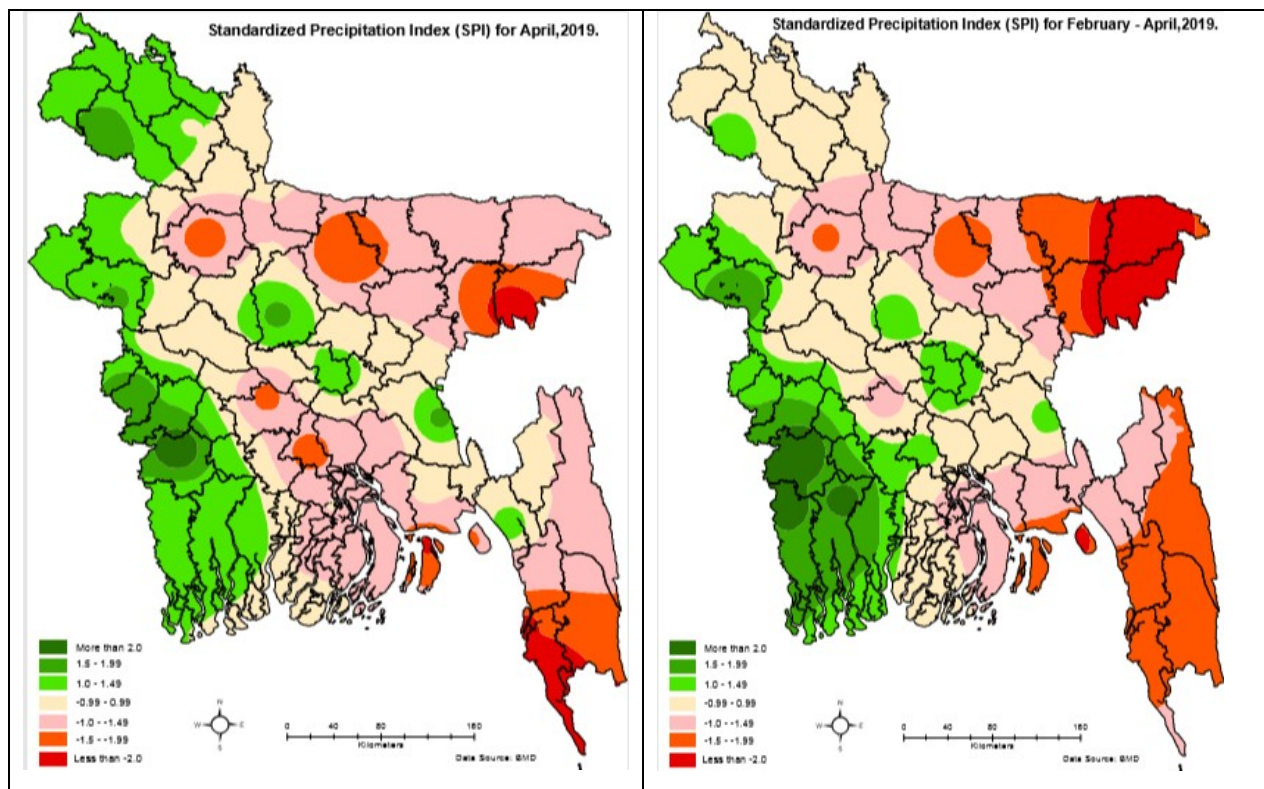


NOAA/ AVHRR BLENDED VHI composite for the week number No. 23 (4 June -10 June) over Agricultural regions of Bangladesh



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

It has been observed that during last three months as well as in April, normal conditions prevails in districts located in southwest, northwest and central parts of Bangladesh whereas the districts in south, southeast, northeast and a few districts of north 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 19, 2019

- The Brahmaputra-Jamuna, Ganges-Padma and Kushiyara rivers are in steady state which may continue in next 24 hours.
- The Teesta and Surma rivers are in falling trend which may continue in next 24 hours.

### General River Condition

Monitored Water Level Station	94	Inactive Gauge	01 (Gowainghat)
Rise	38	Gauge Reading Not Started	01 (Jagir)
Fall	45	Gauge Reading Missing	00
Steady	09	Total Not Reported	02
		<b>Above Danger Level</b>	<b>00</b>