



# NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

12 June 2019 (WEDNESDAY)  
[FOR THE PERIOD 12.06.2019 - 16.06.2019]



## 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

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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. Southwest monsoon has advanced upto Chattogram coast from Teknaf coast. Rain/thunder showers accompanied by temporary gusty wind is likely to occur at one or two places over Rangpur, Mymensingh, Dhaka, Barishal, Chattogram & Sylhet divisions and weather may remain dry with temporary partly cloudy sky elsewhere over the country. Due to these weather conditions and the medium range weather forecast issued by BMD, moderate to heavy rainfall is expected for the districts of Banderban, Brahmanbaria, Chattogram, Cox;s bazar, Cumilla, Feni, Jamalpur, Habiganj, Khagrachhari, Kurigram, Moulivbazar, Netrokona, Patuakhali, Rangamati, Sunamganj and Sylhet during next five days Besides, a number of districts have received good amount of rainfall during last four days. Mild heat wave is also sweeping over the regions of Rajshahi, Khulna, Mongla, Satkhira, Jashore & Sylhet and it may continue. Day and night temperature may rise slightly over the country. 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 temperature is relatively high and 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>Advise for preparation of seeded for Aman paddy in <i>kharif season</i></li> </ul> <p><b>Aus Paddy: Seedbed to Transplanting</b></p> <p>If the nurseries in the seedbed become yellowish, apply 7 gram urea per sq. meter after the current spells of rainfall.</p> <p>If the nurseries in the seedbed are not green in color, apply 10 gm gypsum per sq. meter after the current spells of rainfall.</p> <p>Remove weeds by hand after the current spells of rainfall. Avoid irrigation and also drain out excess water from the field.</p> <p>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..</p> <p>If the seedlings are ready for transplanting, this is the ideal time for transplanting as good amount of rainfall is expected and also monsoon will shortly advance to this district</p>
<p><b>Jute</b></p>	<p>Following are the advisories where crops have already been sown.</p>



**Jute in growing condition**

Weeding may be done after the current spells of rainfall..

After weeding, apply rest of the urea's (100kg/hectare) as top dressing after the current spells of rainfall.

Farmers are advised to carry out thinning operation in early sowing jute crop after the current spells of rainfall

There is a chance of incidences of Hairy Caterpillar.

Following control measures is advised.

0. Collect the egg mass and destroy
1. Use light traps.
2. Spray Imidocholoprid/Chlorocyrin/ Nitro @ 1ml/litre of water.

There is a chance of incidences of Semiloper. Spray Imidocholoprid/Chlorocyrin/ Nitro @ 1ml/litre of water after the current spells of rainfall

**Brinjal, Pointed Gourd, Cucumber, Bitter gourd, Ridge gourd, Yard long bean & Lady's finger**



**Ladys Finnger in Fruit Setting/ Vegetative**

Avoid irrigation and also drain out excess water from the field.



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.

**Mango**



Spraying with the potassium nitrate @10g/lit is recommended at early hours in fruit development stage after the current spells of rainfall.

- 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
- Fruit fly: hanging traps containing 1 ml Methylugenol/litre of water and 1 ml Melothion 50 EC. use 100 ml solution / trap and 10 traps per hectare.
- Fully matured fruits can be harvested.

	<p>Bark eating caterpillar may attack Mango, Ber &amp; Guava. This insect eats bark of these trees &amp; makes tunnels in them. To control this insect spray Malathion 50 E.C. @ 1 ml per litre water after the current spells of rainfall.</p> <p>Harvest the fruit and keep in safe place after the current spells of rainfall.</p>
<p style="text-align: center;"><b>Banana</b></p>  <p style="text-align: center;"><b>Mechanical Support with Bamboo under gusty wind</b></p>	<p>Farmers are advised to cut the dried and yellowish leaves so that transpiration rate will decrease. Also provide mechanical support due to expected gusty wind</p>
<p style="text-align: center;"><b>Livestock</b></p>  <p style="text-align: center;"><b>Cattles under shed during heat wave condition</b></p>	<p>Provide the cattle/animal 50 grams iodized salt and 50 to 100 grams mineral mixture daily with feed &amp; green fodder to keep them health --Avoi or black gram mash and sesame or linseed cake --Increase water intake by keeping stored water near feeding bucket . Keep the animal in shed</p>
<p><b>Poultry</b></p>	<p>Feeding should be done during early morning. Avoid overcrowding and maintain proper ventilation inside the shed. → Cover the cage with gunny bags and sprinkle water to main the cage relatively cold. Apply only fresh tap water for drinking purpose --Use electrolyte in wate --Arrange fan beside the cage -- Increase number of water pot per cage</p>



**Management oh poultry under heat wave condition**

**Fishery**



**Water level increase under heat wave condition**

There may be low oxygen in the pond, increase water level and supply less feed. Do not depend solely on rainwater to fill your pond as when it does not rain

\*\* 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 12 June'19) and maximum temperature on 11 June, minimum temperature on 12 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	36.0	27.5
	Tangail	00	35.5	27.7		Ishurdi	00	34.6	27.5
	Faridpur	00	35.9	27.0		Bogura	11	33.6	25.6
	Madaripur	00	35.6	27.3		Badalgachhi	05	33.0	26.6
	Gopalganj	00	35.0	27.3		Tarash	03	34.5	27.0
	Nikli	00	35.2	27.4					
Mymensingh	Mymensingh	01	34.2	26.5	Rangpur	Rangpur	15	30.0	24.6
	Netrokona	00	34.0	28.0		Dinajpur	15	30.2	24.0
						Sayedpur	20	30.2	24.5
Chattogram	Chattogram	00	33.4	27.7		Tetulia	01	30.3	24.9
	Sandwip	00	34.0	27.4		Dimla	00	32.0	25.0
	Sitakunda	00	34.5	27.5		Rajarhat	04	30.0	25.2
	Rangamati	00	35.4	27.2	Khulna	Khulna	00	36.7	28.0
	Cumilla	00	35.5	28.6		Mongla	00	36.2	27.4
	Chandpur	00	35.6	28.4		Satkhira	00	36.2	27.8
	M.Court	00	35.4	28.0		Jashore	00	36.8	27.6
	Feni	00	35.5	28.0		Chuadanga	00	35.8	27.5
	Hatiya	00	33.8	27.2	Kumarkhali	00	35.6	28.2	
	Cox's Bazar	00	34.5	26.3					
Kutubdia	00	33.8	27.0	Barishal	Barishal	00	35.0	26.8	
Teknaf	00	33.6	xx		Patuakhali	Trace	35.3	28.1	
					Khepupara	00	35.0	27.8	
Sylhet	Sylhet	Trace	36.0	25.5		Bhola	00	34.3	27.6
	Srimangal	00	35.0	26.8					

### Highlights:

- Country average of bright sunshine hour was 4.11 hours per day during last week.
- Country average of free water loss during the previous week was 3.34 mm per day.

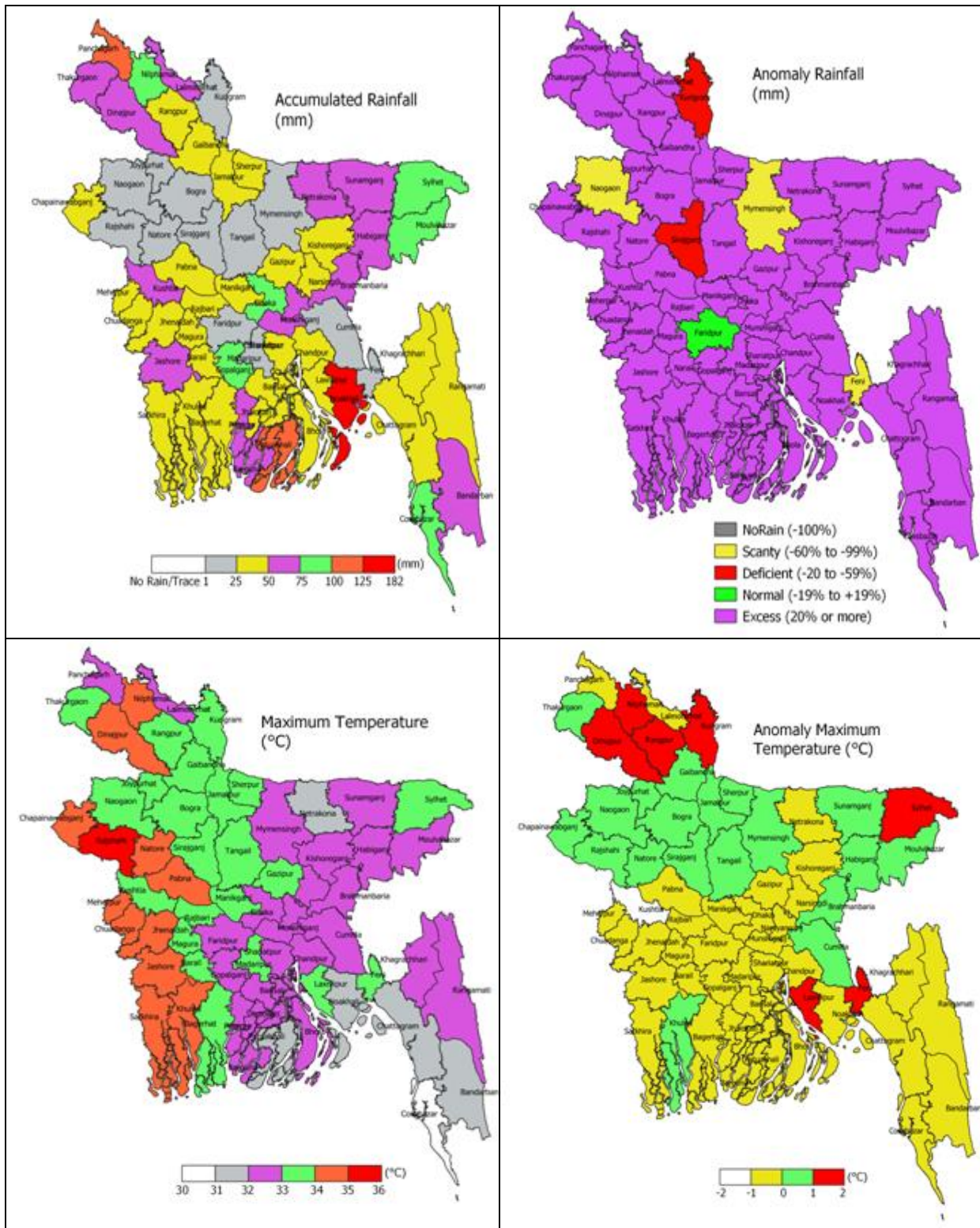
### Weather Forecast Valid for 24 Hours commencing 06 PM Today:

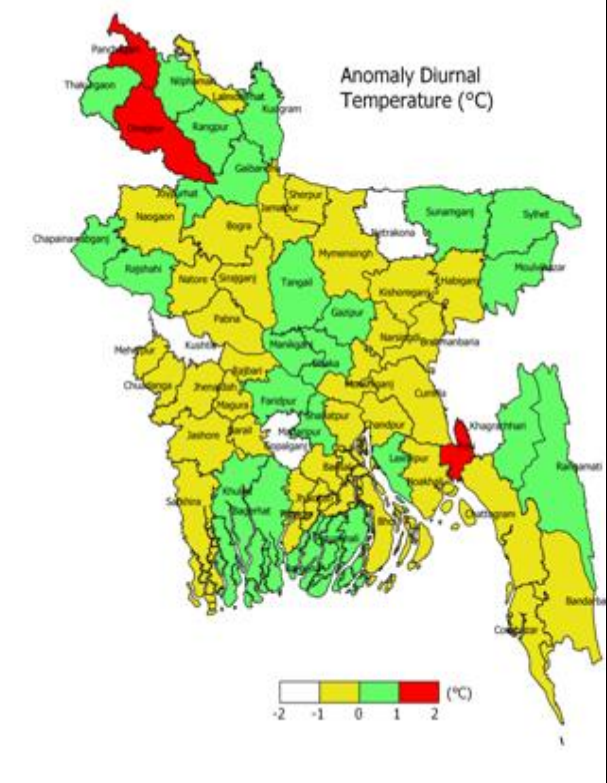
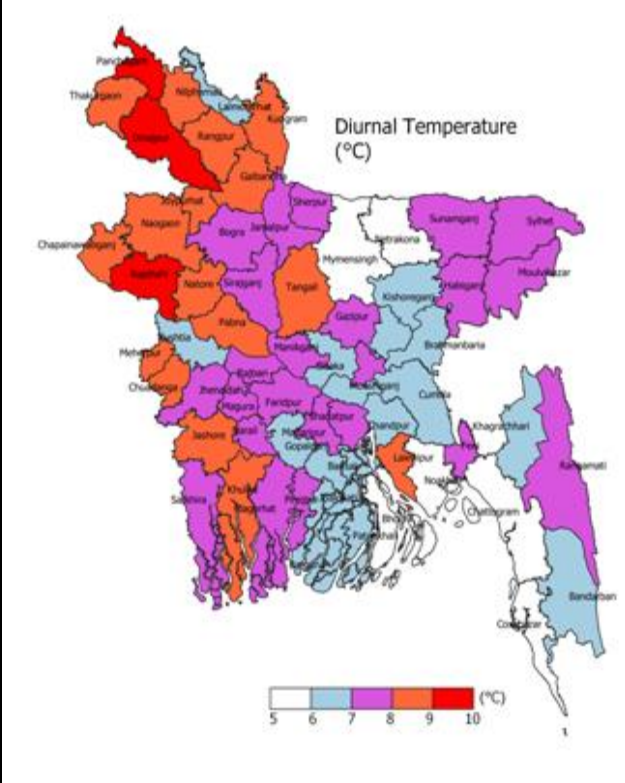
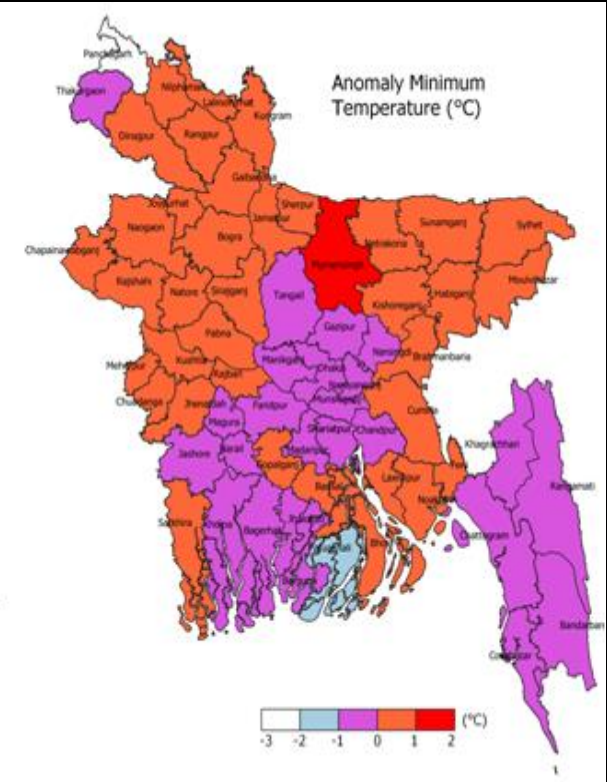
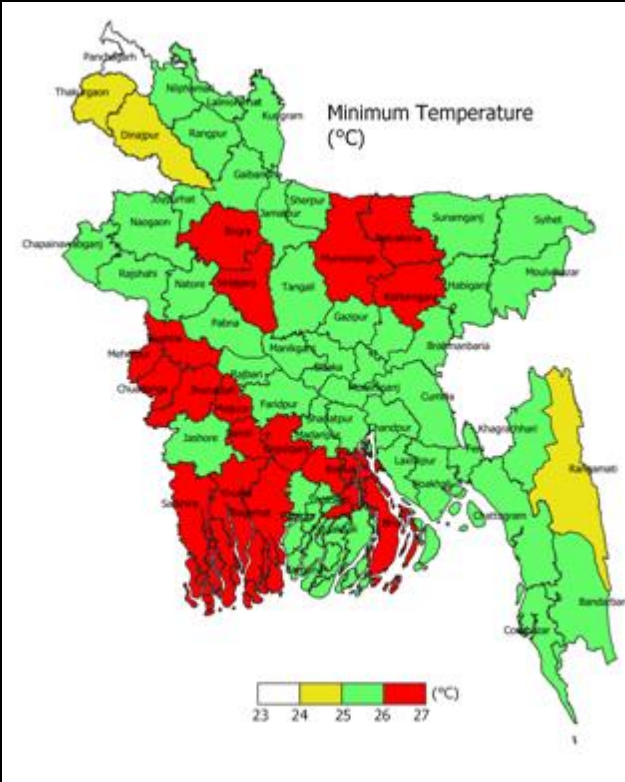
**Forecast:** Rain/thunder showers accompanied by temporary gusty wind is likely to occur at one or two places over Rangpur, Mymensingh, Dhaka, Barishal, Chattogram & Sylhet divisions and weather may remain dry with temporary partly cloudy sky elsewhere over the country.

**Heat wave:** Mild heat wave is sweeping over the regions of Rajshahi, Khulna, Mongla, Satkhira, Jashore & Sylhet and it may continue.

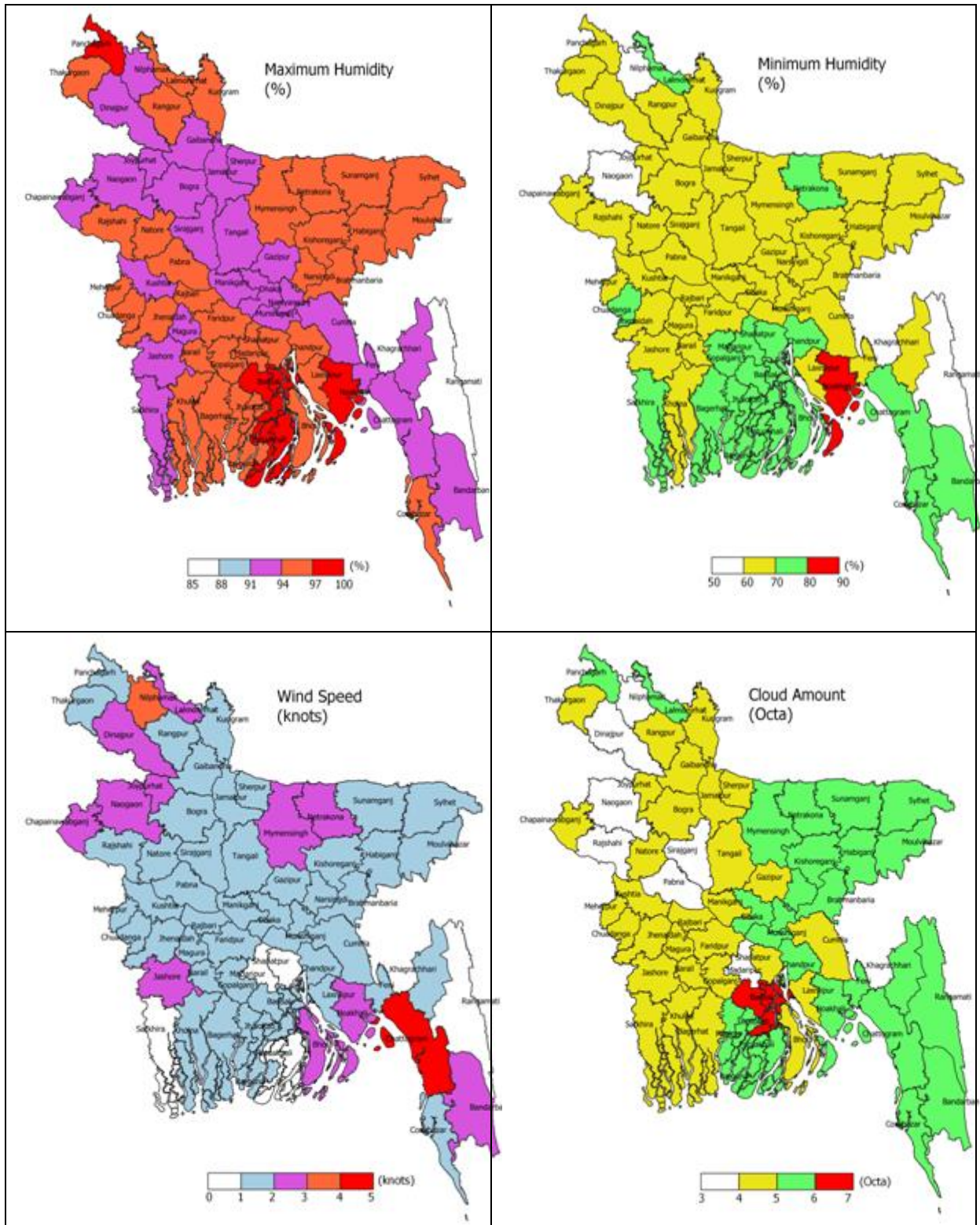
**Temperature:** Day and night temperature may rise slightly over the country.

## Spatial Distribution of weather parameters for the Week ending 11<sup>th</sup> June 2019







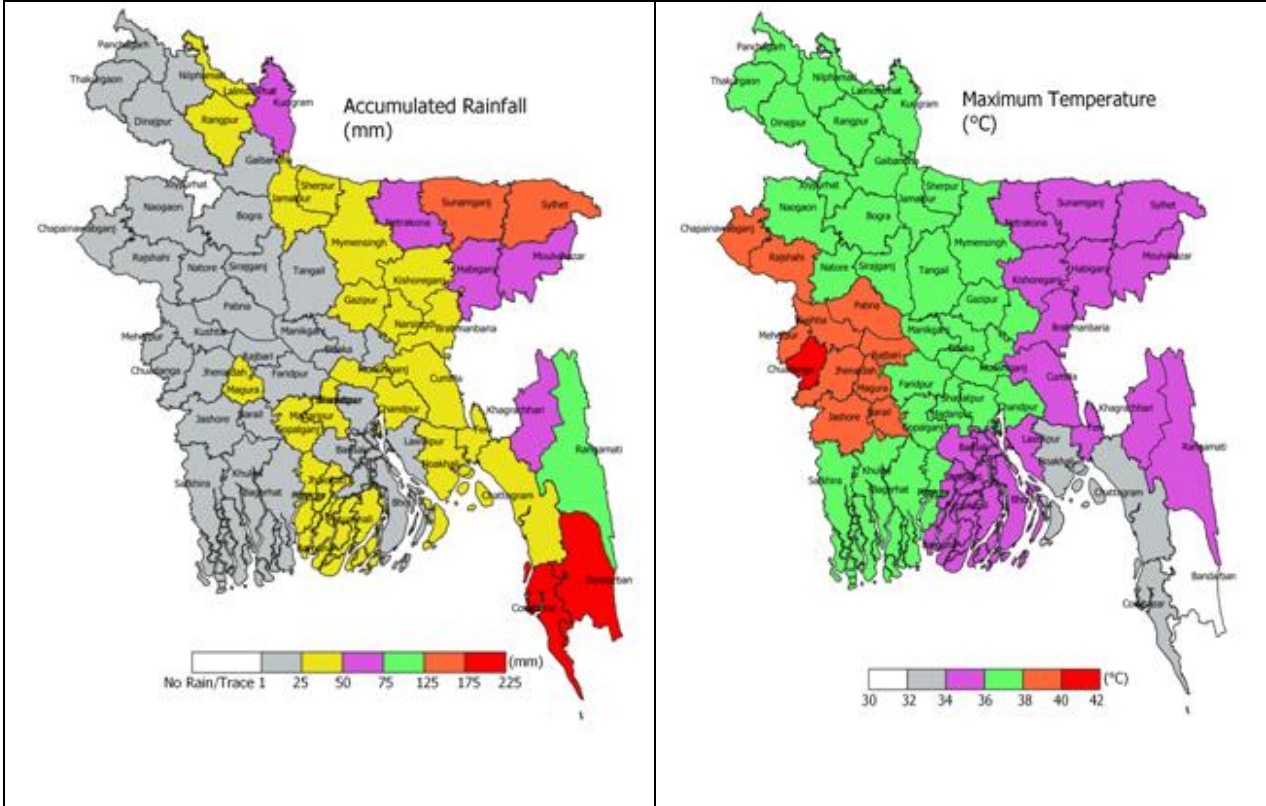


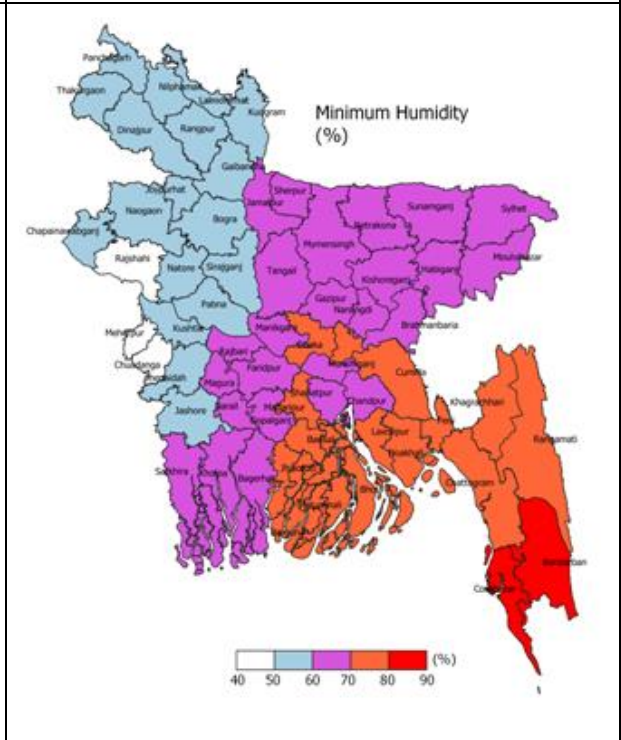
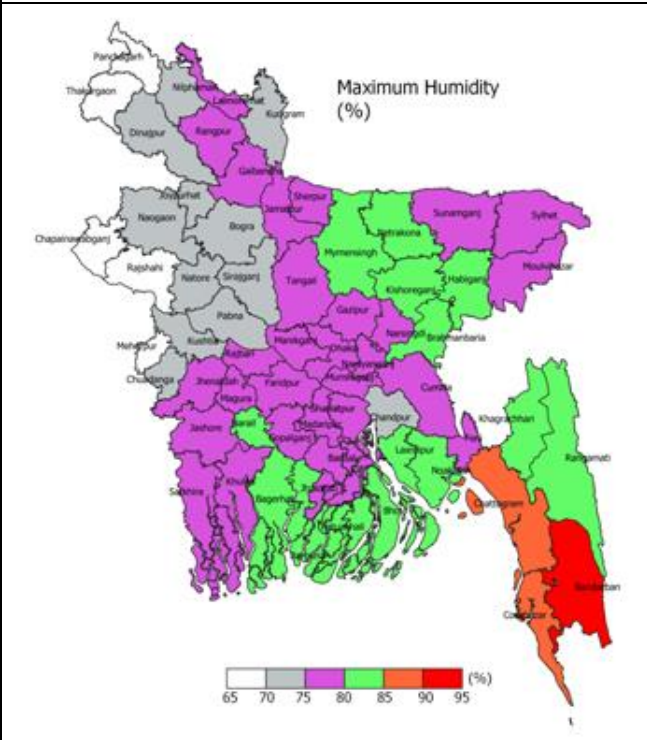
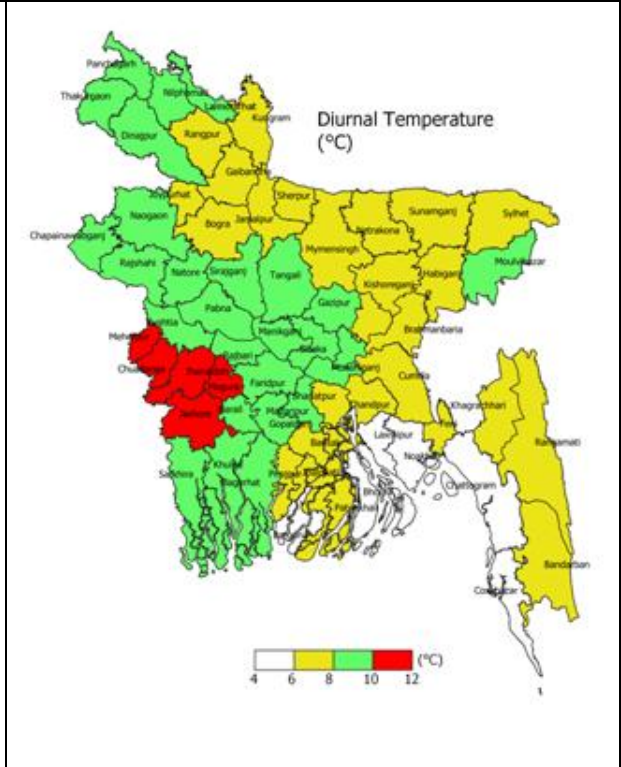
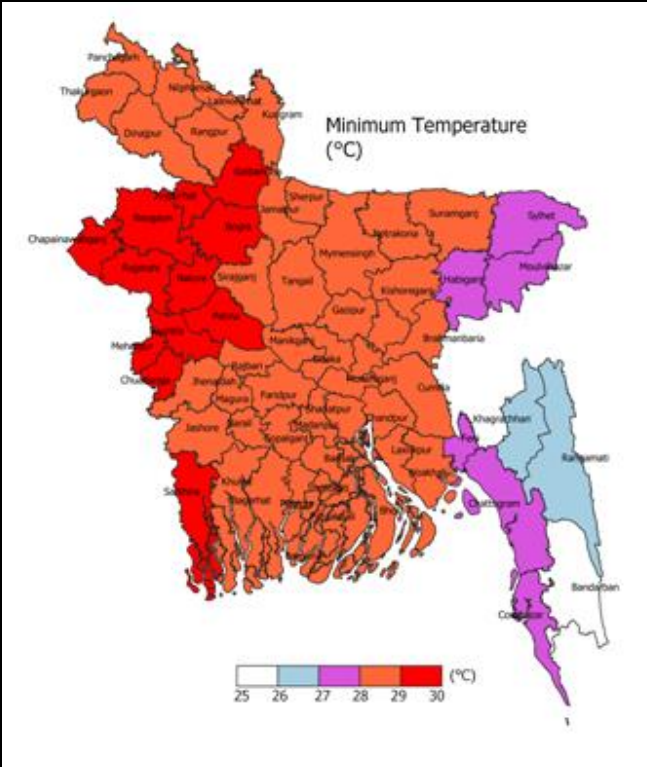
**Weather Forecast and Advisory for the Period of 09.06.2019 to 15.06.2019**

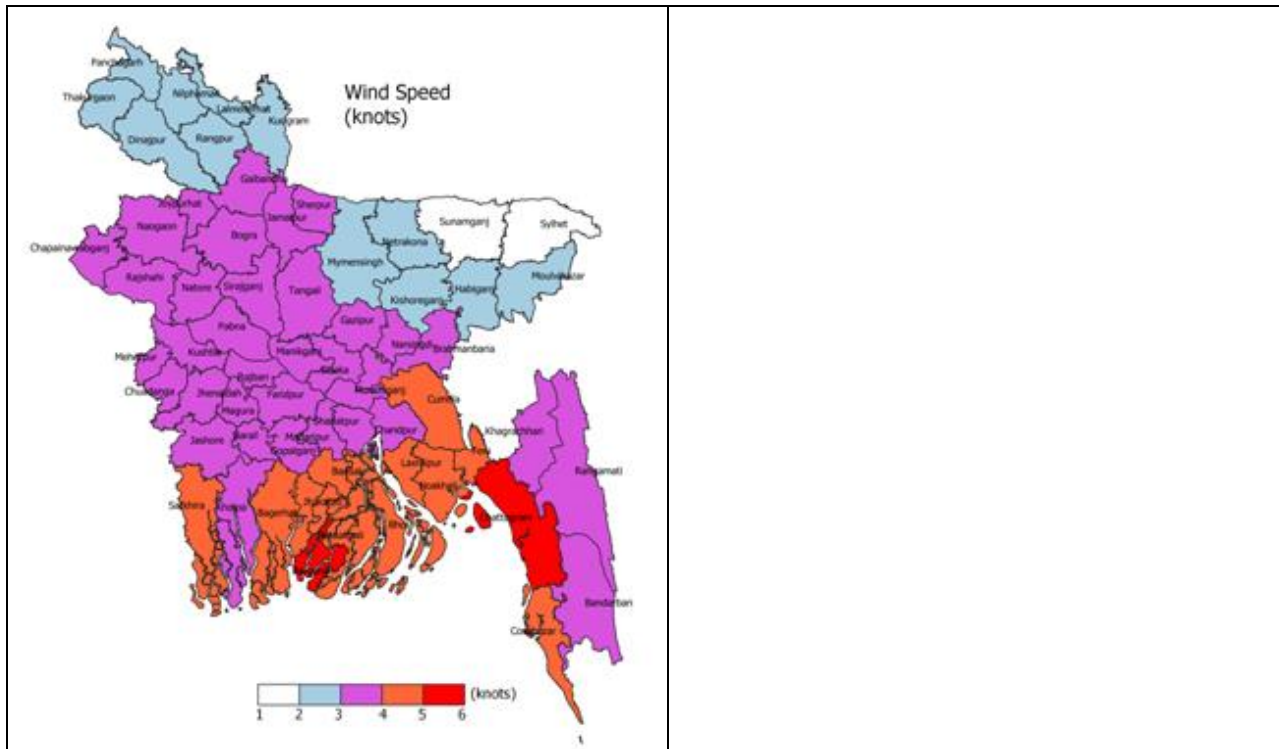
Bright sunshine hour is likely to be from 5.00 to 6.00 hours per day during this week. Average of free water loss during the next week is likely to be from 3.50 to 4.50 mm per day.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder showers likely to occur at many places over Dhaka, Mymensingh, Chattogram and Sylhet divisions and few places over Khulna, Rajshahi, Rangpur and Barishal 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 this period.

**District Wise Quantitative Weather Forecast for next Five days from 12 June -16 June'19**

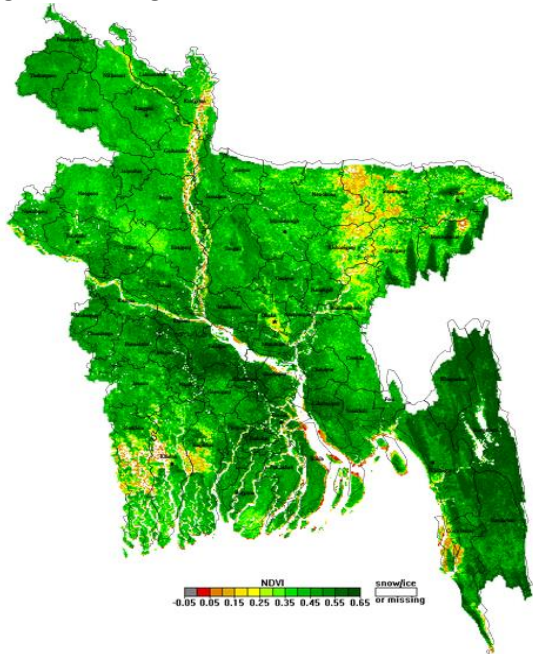




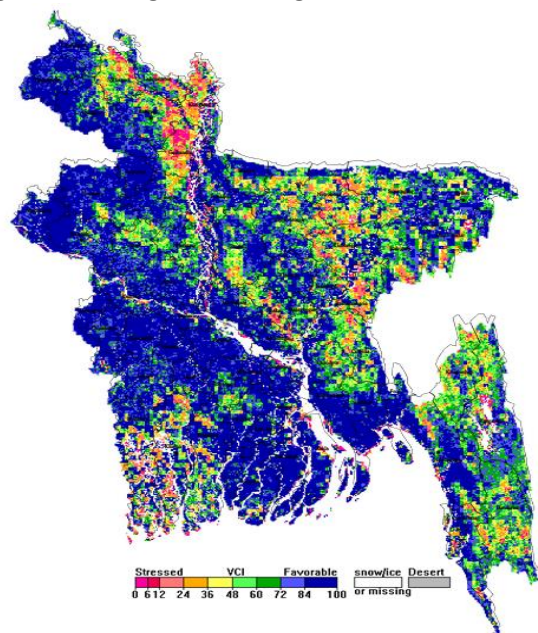


## Different Satellite Products over Bangladesh

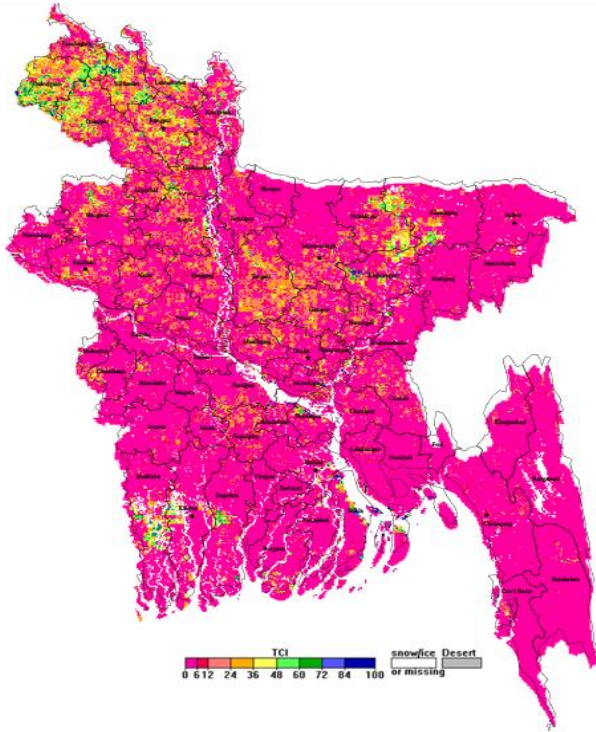
NOAA/VIIRS BLENDED NDVI composite for the week number No. 22 (28 May -3 June) over Agricultural regions of Bangladesh



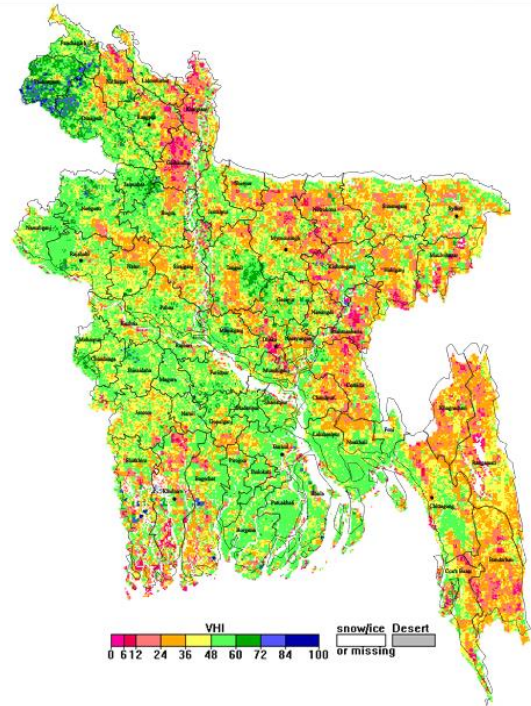
NOAA/AVHRR BLENDED VCI composite for the week number No. 22 (28 May -3 June) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 22 (28 May -3 June) over Agricultural regions of Bangladesh

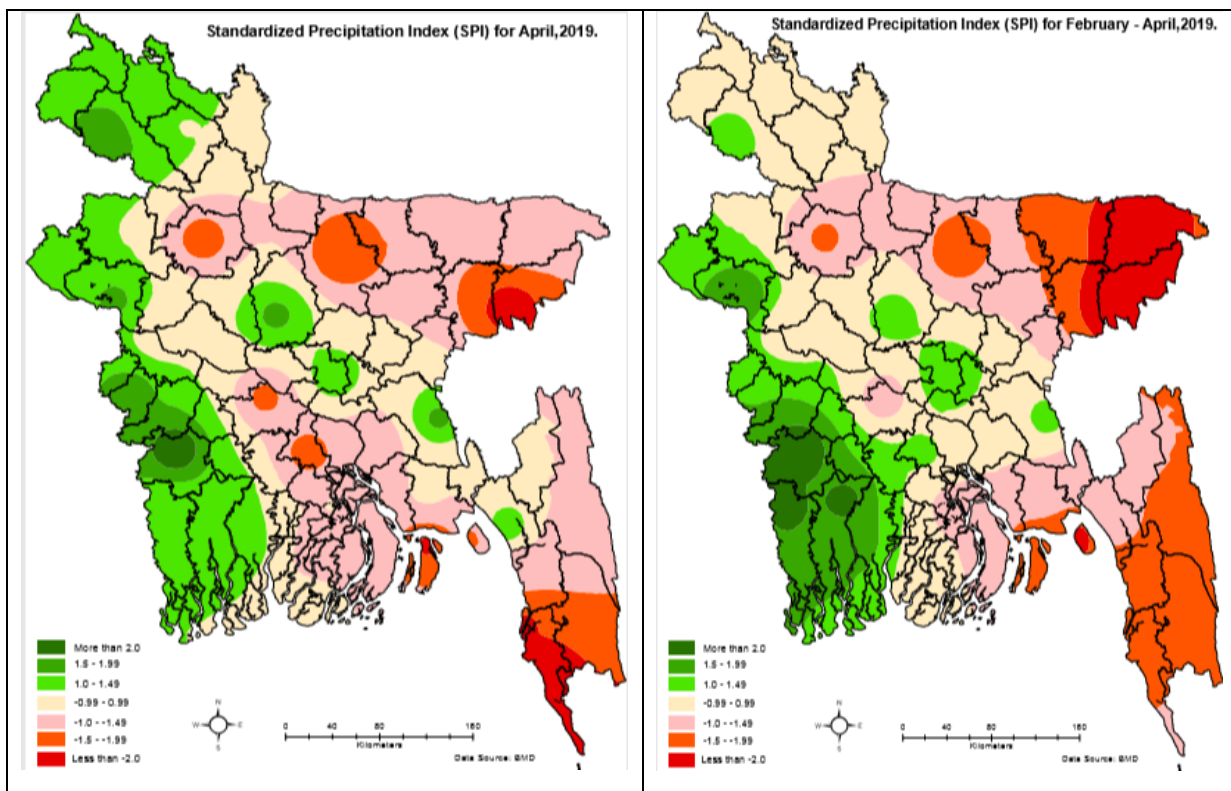


NOAA/ AVHRR BLENDED VHI composite for the week number No. 22 (28 May -3 June) over Agricultural regions of Bangladesh



### 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 12, 2019

- The Brahmaputra-Jamuna river is in steady state which may rise in the next 24 hours.
- The Ganges river is in rising trend which may continue rising in the next 24 hours, While the Padma river may remain steady in next 24 hours.
- Water levels of the Surma-Kushiyara river and all major rivers of North-Eastern region in the Country may continue falling in the next 24 hours.
- Water levels of the all major rivers of the country are below their respective danger levels.

### General River Condition

Monitored Water Level Station	94	Inactive Gauge (Gowainghat)	01
Rise	33	Gauge Reading Not Started (Jagir)	01
Fall	55	Gauge Reading Missing	00
Steady	04	Total Not Reported	02
		<b>Above Danger Level</b>	<b>00</b>