



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

29 MAY 2019 (WEDNESDAY)
[FOR THE PERIOD 29.05.2019 - 02.06.2019]



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

During last five days variable weather conditions were persisted in different districts in the country and similar situations will be there during next five days also . Mild heat wave is sweeping over Khulna & Barishal divisions and the regions of Dhaka, Madaripur, Rangamati, Chandpur, Noakhali, Rajshahi & Pabna and it may continue. Besides, number of districts received good amount of rainfall during last few days and also during next five days rainfall will be received by some districts. Under these weather conditions, agromet advisories were issued separately for each district as per the realized weather conditions and also weather forecast. The districts which have already received good amount of rainfall and rainfall is likely during next five days and where temperature is relatively high, following advisories are issued.

Paddy:

Drain out excess water from the field, if any.

Remove the water from the field 10-15 days before harvesting.

Harvest the matured crop after current spells of rainfall .

Farmers are advised to carry the Tirpal/Covered material during transportation of paddy to grain market to avoid the wetting of grains

Deep summer ploughing should be done in harvested boro paddy field to destroy eggs and pupa of insects after current spells of rainfall

Sow green manuring crop like cluster bean, daincha etc after harvesting of boro paddy in order to fertilize the field and conserve moisture in soil

Aus Paddy: Seedbed

Drain out excess water from the field, if any.

All the following operations may be done after the current spells of rainfall.

If the nurseries in the seedbed becomes yellowish, apply 7 gram urea per sq. mete after draining out excess water from the field.

If the nurseries in the seedbed is not green in colour, apply 10 gm gypsum per sq. mete after draining out excess water from the field.

Remove weeds by hand.

If the population of Thrips and Green Leaf Hopper exceeds 25%, apply Malathion group insecticide at the rate of 1ml/1 litre of water

Jute

Following advisories are given where sowing operations are still going on.

Drain out excess water

All the following operations may be done after the current spells of rainfall.

Apply 100kg urea along with 50 kg TSP, 60 kg MOP, 95 kg Gypsum and 11 kg Zinc Sulphate per hectare at the time of sowing of crop.

Following are the advisories where crops have already been sown.

Weeding may be done.

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

Farmers are advised to carry out thinning operation in early sowing jute crop

There is a chance of incidences of Hairy Caterpillar. Following control measures is advised.

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

There is a chance of incidences of Semilooper. Spray Imidochloprid/Chlorocyrin/ Nitro @ 1ml/litre of water

Vegetables

Intercultural operation is advised in summer vegetables such as lady's finger, pumpkin, cucumber, sponge gourd, bottle gourd.

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.

Farmers are advised to take necessary action against drain out of excess rain water from the vegetables field and harvest the mature vegetables as early as possible

Do not irrigate the field as there may be sufficient rainfall is expected next few days,

Banana

Banana leaves may desiccate due to high temperature. Therefore farmers are advised to cut the dried and yellowish leaves so that transpiration rate will decrease.

Presently the maximum temperature is around 37°C and due to hot and dry winds banana fruits are damaged because of sun scorching. Hence, the farmers are advised to cover the fruits by using leaves or Jute bags to protect the fruits from sun scorching. It is also advised to provide wind breaks in west/north-west direction

Livestock

Looking into increasing temperature farmers are advised to keep their animals in shade and give regularly water to them.

1. Do not graze animal after 10 am and before 3pm in open place.

2. Provide the cattle/animal 50 grams iodized salt and 50 to 100 grams mineral mixture daily with feed & green fodder to keep them health

--Avoid mung mash and mustard cake in their food and supply arhar or black gram mash and sesame or linseed cake

--Increase water intake by keeping stored water near feeding bucket (80liter water/300-400kg body wt.)

--Feed them a mixture of water (15liter)+molasses (250g)+basan (500g)+salt (50g) and sodium carbonate(50g) per cow during noon hours for avoiding high temperature

Poultry

Day Temperature may exceed 37 0C. To avoid heat stress 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.

Apply only fresh tap water for drinking purpose

--Use electrolyte in water

--Arrange fan beside the cage

--Increase number of water pot per cage

Fishery

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, there may not be enough water to keep your pond full and the fish may die. Harvest the fish in pond having less water depth

**** 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 29 May'19) and maximum temperature on 28 May, minimum temperature on 29 May' 2019 are 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	36.1	27.8	Rajshahi	Rajshahi	00	36.3	25.0
	Tangail	05	35.5	22.2		Ishurdi	00	36.0	24.2
	Faridpur	00	36.0	26.2		Bogura	00	34.1	25.0
	Madaripur	00	36.5	26.8		Badalgachhi	00	33.8	24.0
	Gopalganj	00	35.8	27.1		Tarash	00	33.0	25.3
	Nikli	00	34.4	25.8					
Mymensingh	Mymensingh	00	34.2	24.8	Rangpur	Rangpur	01	32.0	23.6
	Netrokona	09	33.2	23.0		Dinajpur	03	33.0	24.5
						Sayedpur	00	32.2	24.3
Chattogram	Chattogram	00	34.6	28.0		Tetulia	00	31.0	23.7
	Sandwip	00	34.6	26.5		Dimla	18	30.6	25.0
	Sitakunda	00	35.5	26.0		Rajarhat	Trace	31.0	25.0
	Rangamati	00	36.3	26.0	Khulna	Khulna	Trace	38.0	26.5
	Cumilla	00	35.0	27.4		Mongla	00	36.6	27.6
	Chandpur	00	36.2	27.3		Satkhira	02	37.6	25.4
	M.Court	00	36.2	27.4		Jashore	06	38.0	23.4
	Feni	00	35.7	26.8		Chuadanga	01	37.7	24.5
	Hatiya	00	35.5	26.5	Kumarkhali	00	36.4	26.4	
	Cox's Bazar	00	35.0	28.0	Barishal	Barishal	00	36.4	26.5
Kutubdia	00	34.2	28.0	Patuakhali		00	36.1	27.3	
Teknaf	00	34.1	27.0	Khepupara		00	35.5	27.4	
Sylhet	Sylhet	00	34.5	23.1		Bhola	00	35.9	27.4
	Srimangal	00	35.0	25.5					

Highlights:

- Country average of bright sunshine hour was 7.23 hours per day during last week.
- Country average of free water loss during the previous week was 4.28 mm per day.

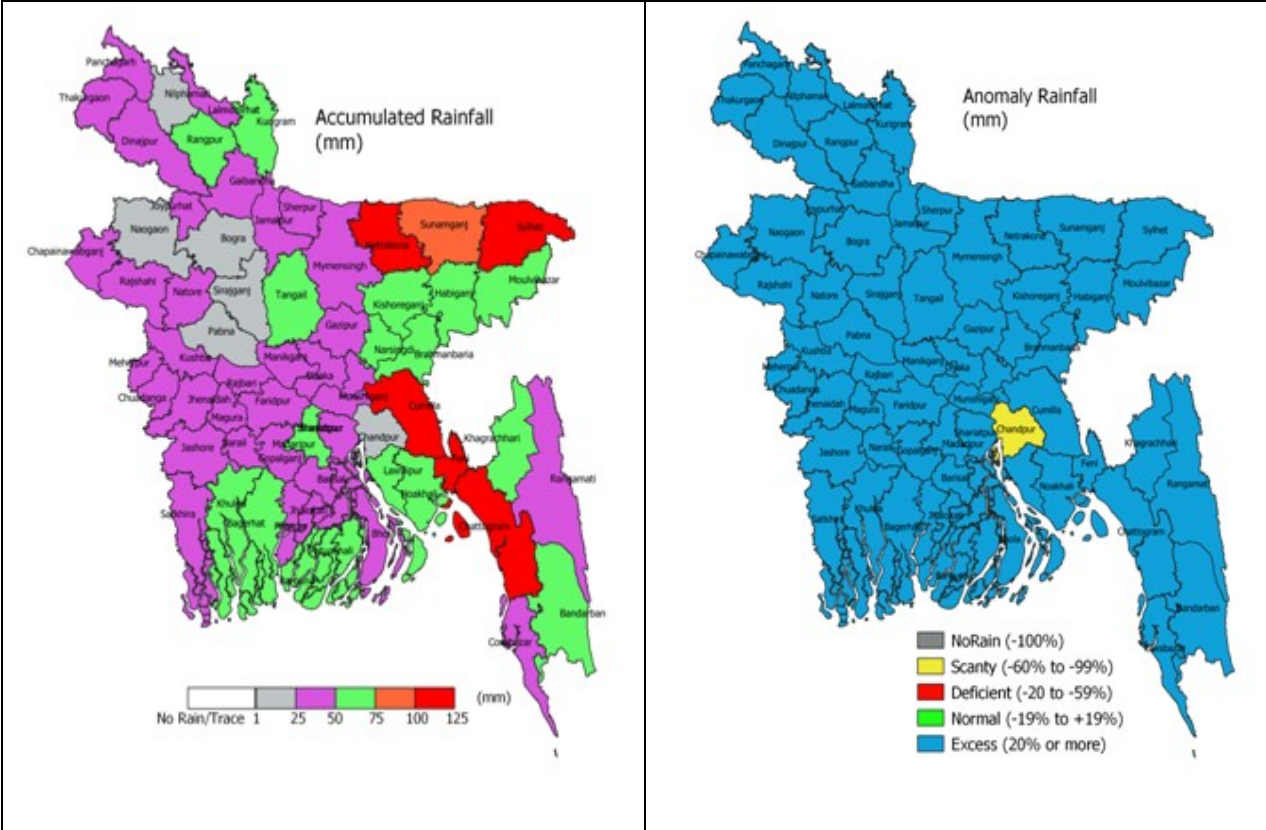
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

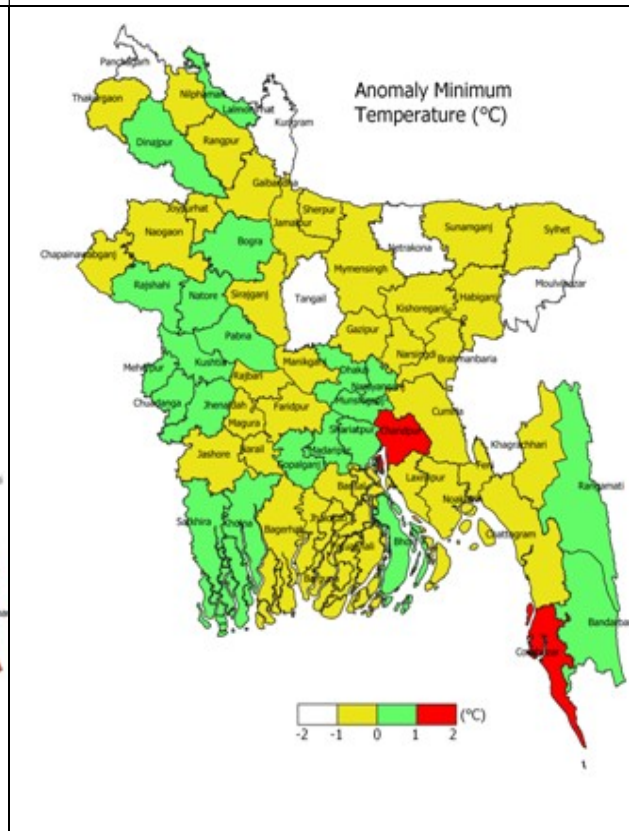
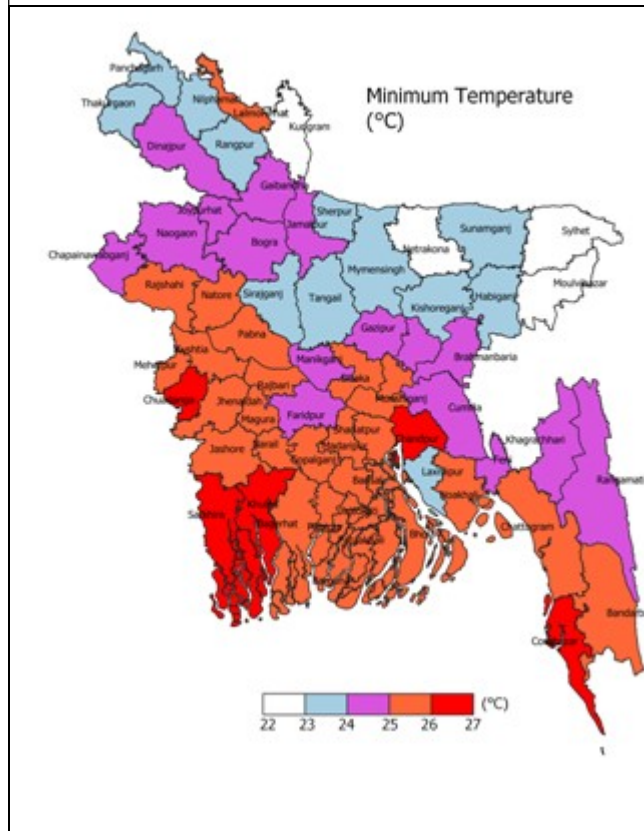
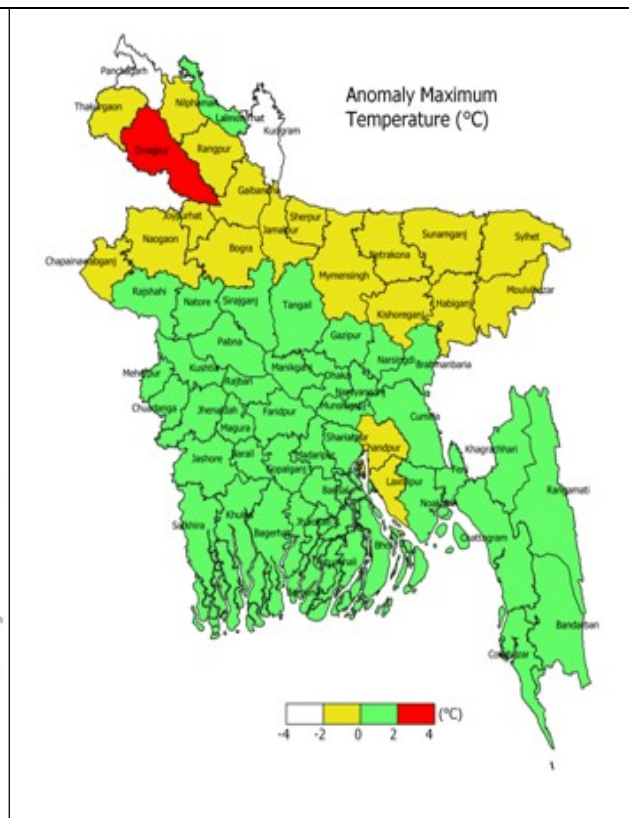
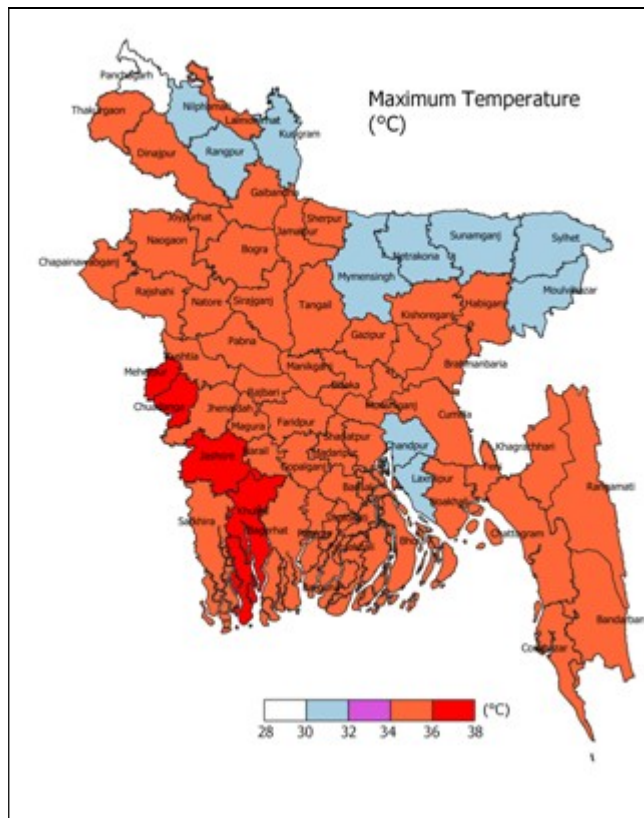
Forecast: Rain/thunder showers accompanied by temporary gusty/squally wind is likely to occur at many places over Rangpur, Mymensingh & Sylhet divisions, at a few places over Rajshahi, Dhaka & Khulna divisions and at one or two places over Chattogram & Barisal divisions.

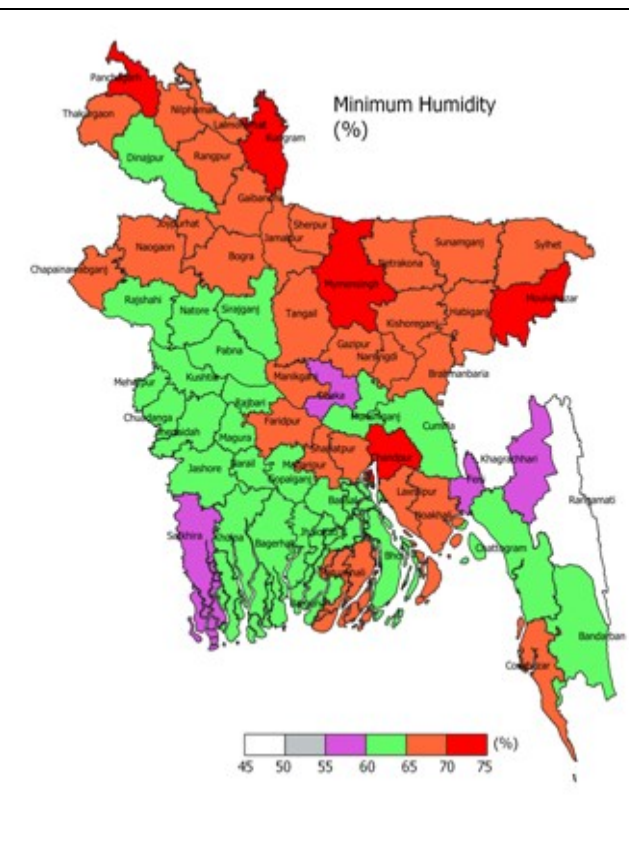
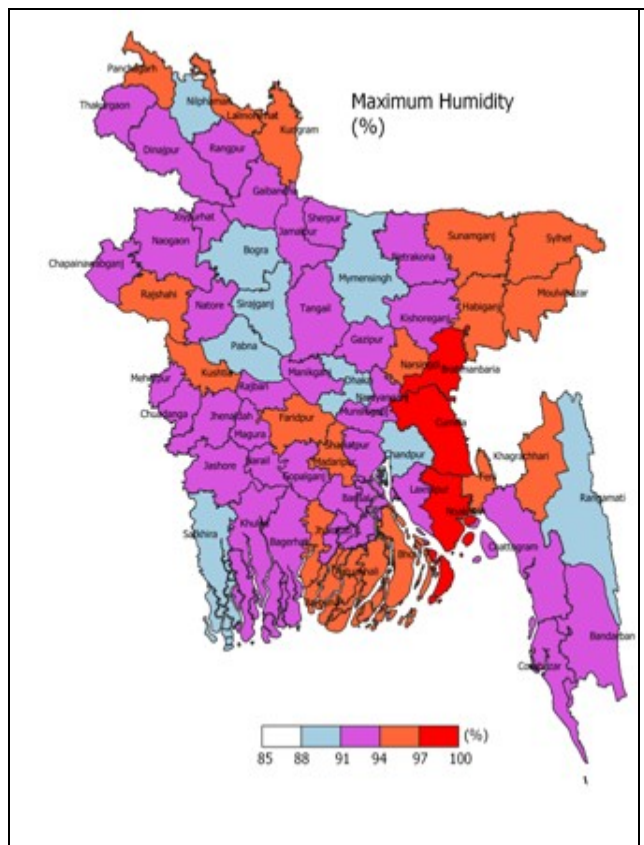
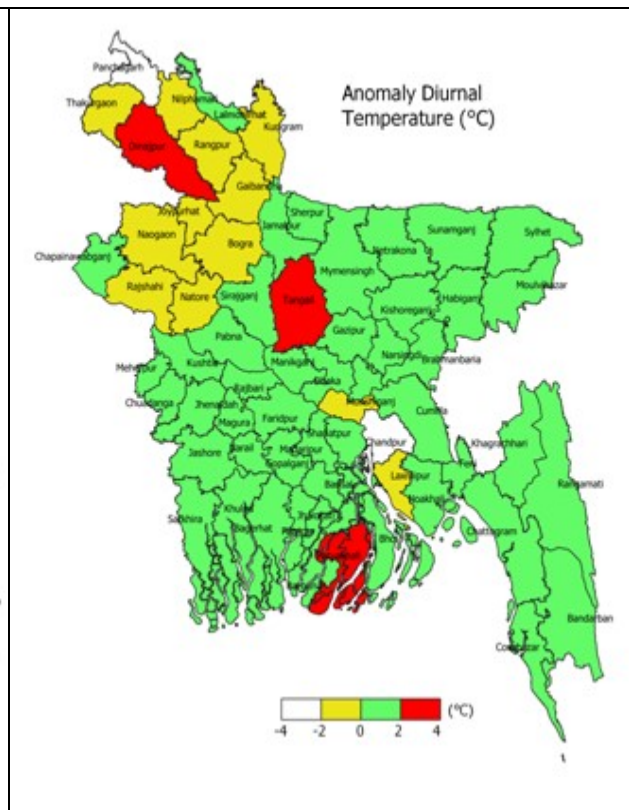
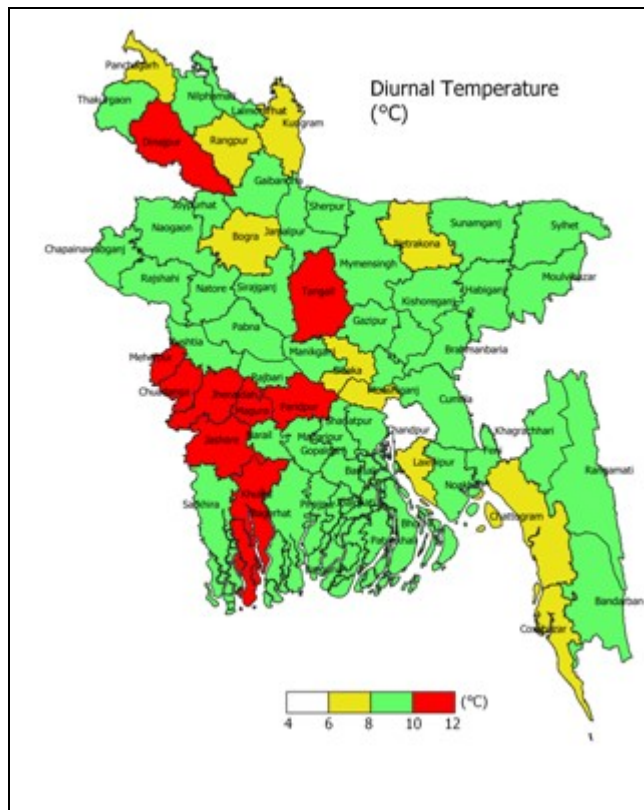
Heat wave: Mild heat wave is sweeping over Khulna & Barishal divisions and the regions of Dhaka, Madaripur, Rangamati, Chandpur, Noakhali, Rajshahi & Pabna and it may continue.

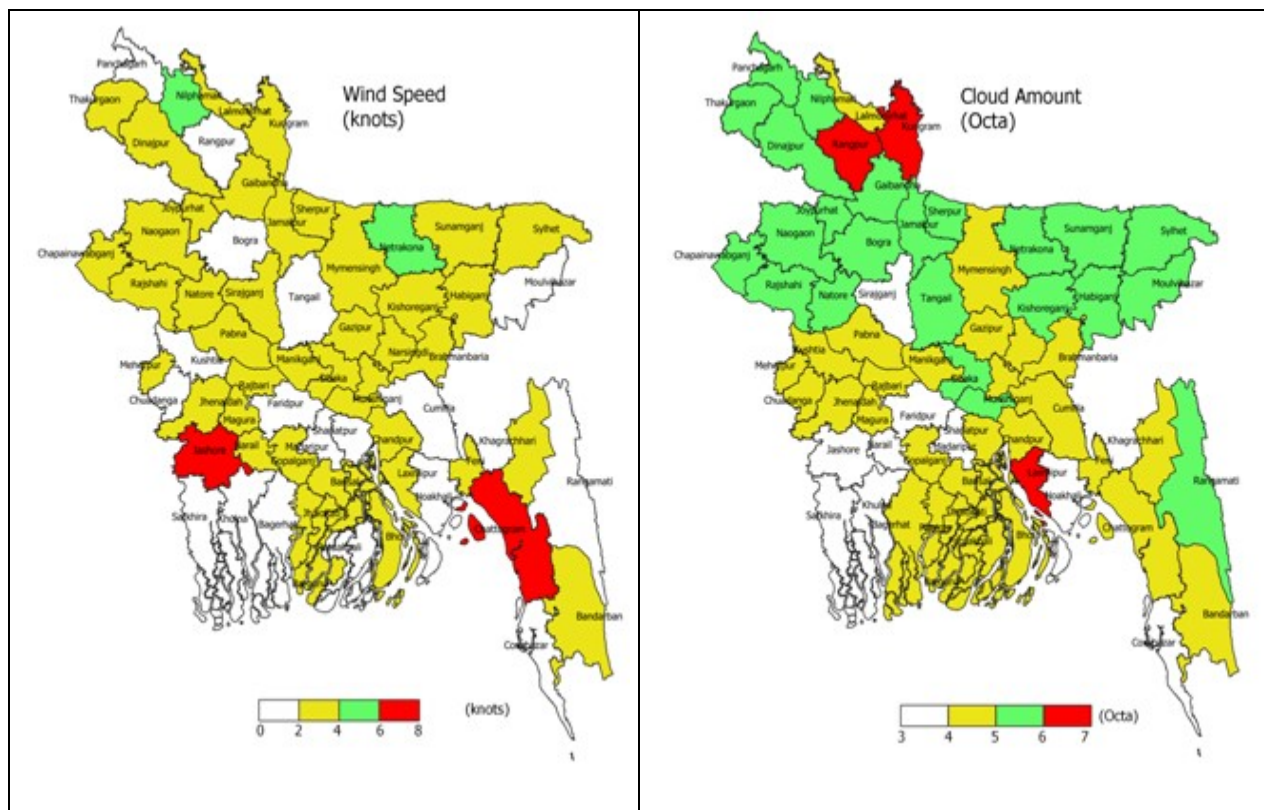
Temperature: Day and night temperature may remain nearly unchanged over the country.

Spatial Distribution of weather parameters for the Week ending 28th May 2019







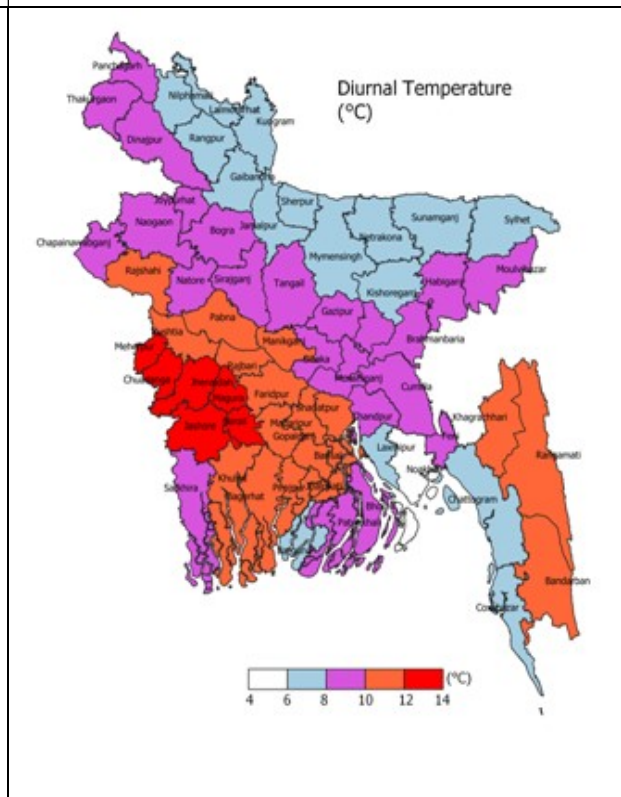
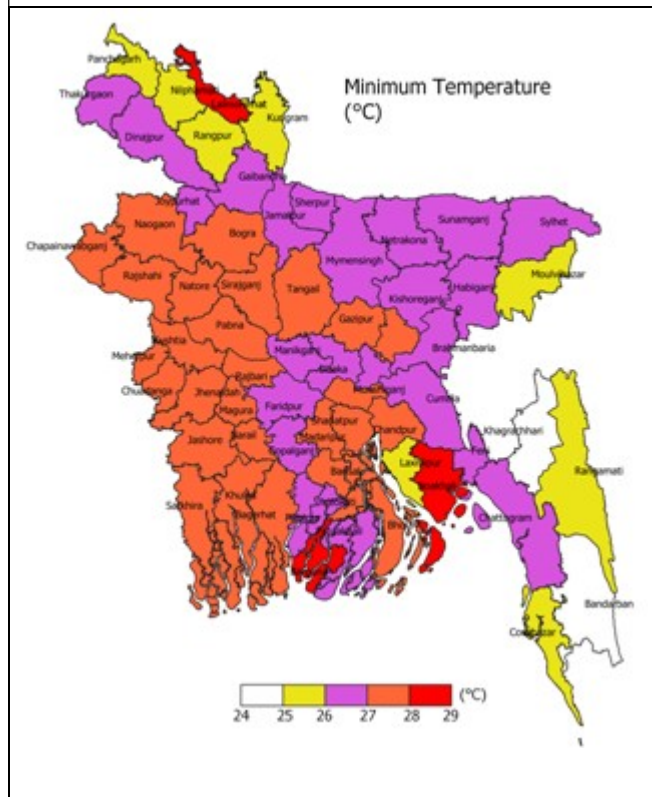
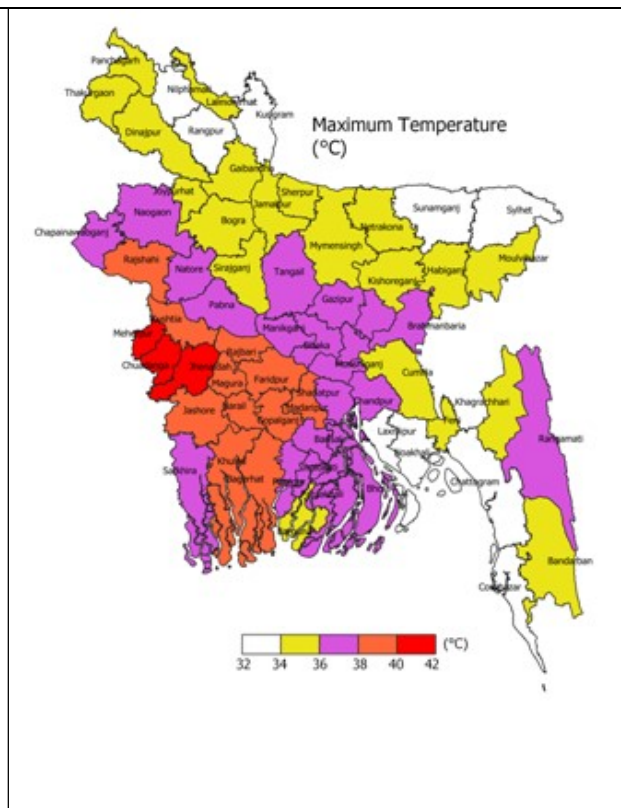
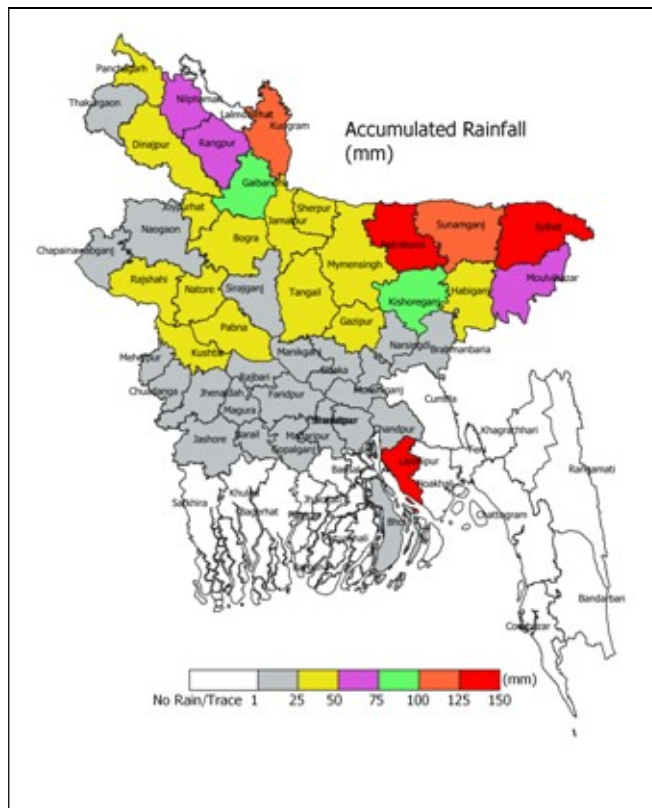


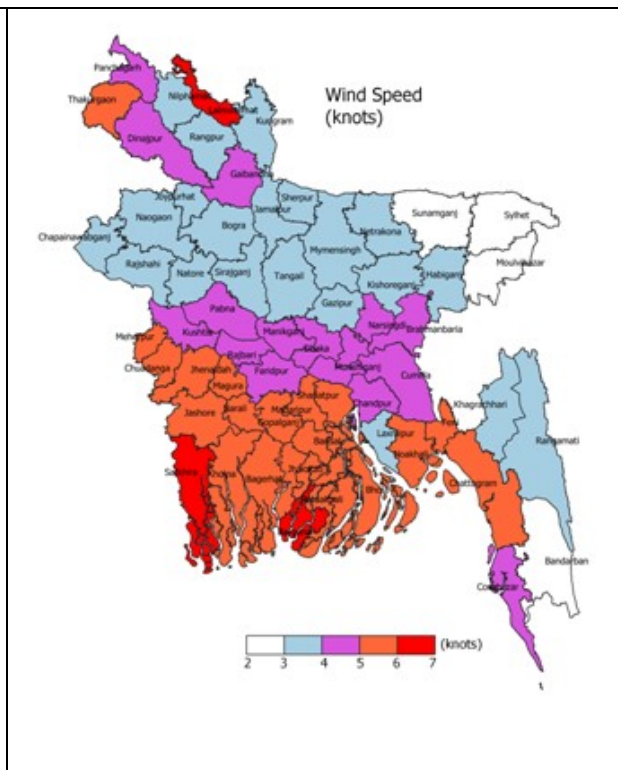
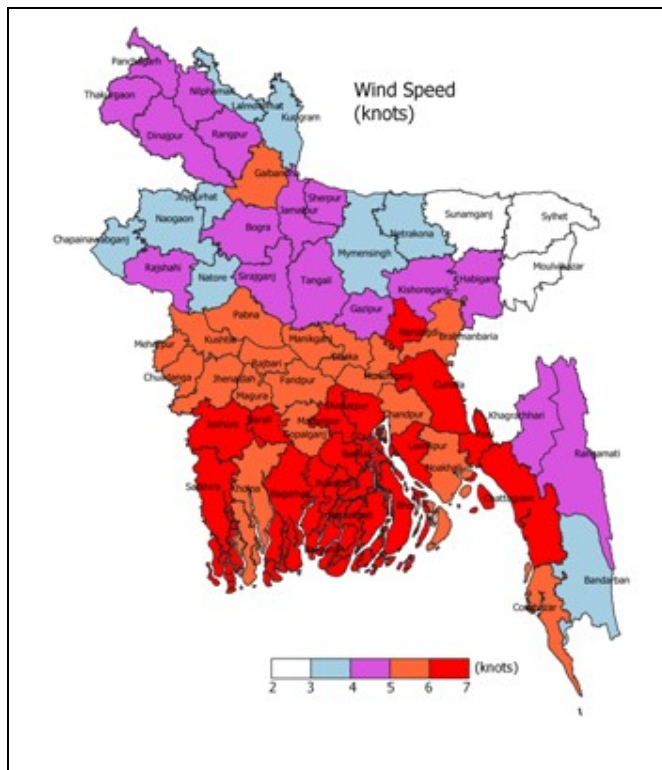
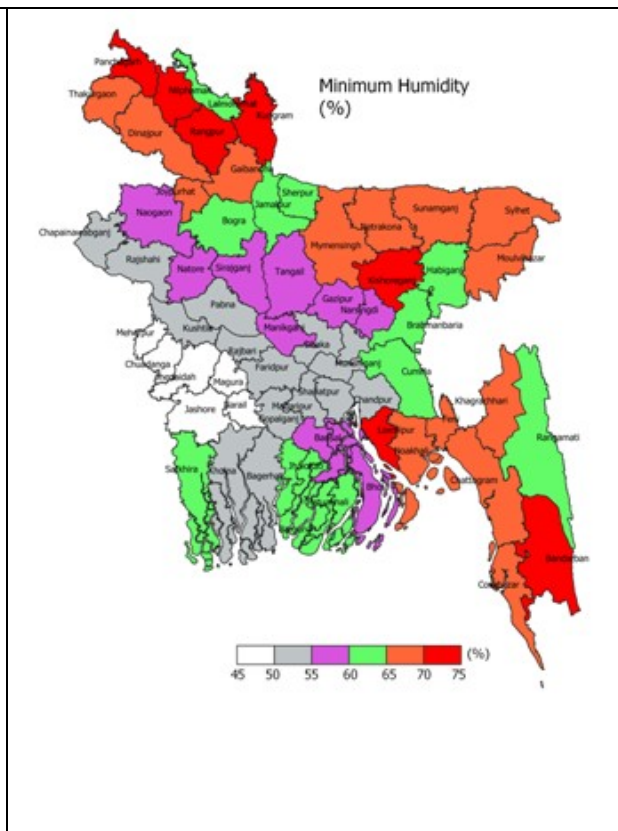
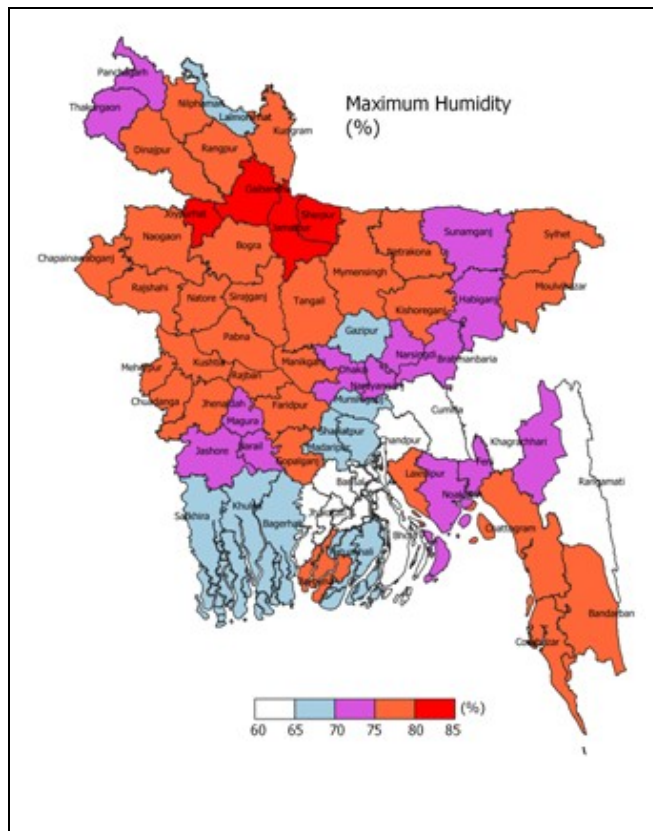
Weather Forecast and Advisory for the Period of 22.05.2019 to 29.05.2019

Bright sunshine hour is likely to be from 6.50 to 8.00 hours per day during this week. Average of free water loss during the next week is likely to be from 3.75 to 4.75 mm per day.

- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder showers with hail is likely to occur two or three days at many places over Dhaka, Mymensingh, Sylhet and Rangpur divisions, few places over Rajshahi and Chattogram divisions and one or two places elsewhere over the country, With a chance of moderately heavy (23-43 mm/d) falls at places over the country during this period.
- Day and Night temperature may remain nearly unchanged during this period.

District Wise Quantitative Weather Forecast for next Five days from 29 May -02 June'19



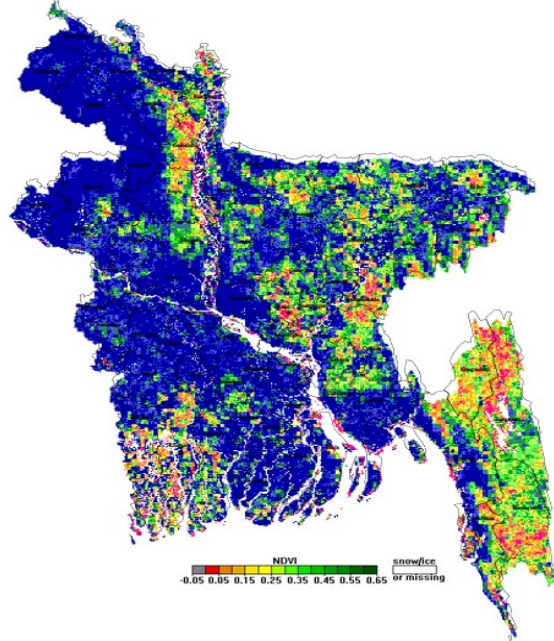


Different Satellite Products over Bangladesh

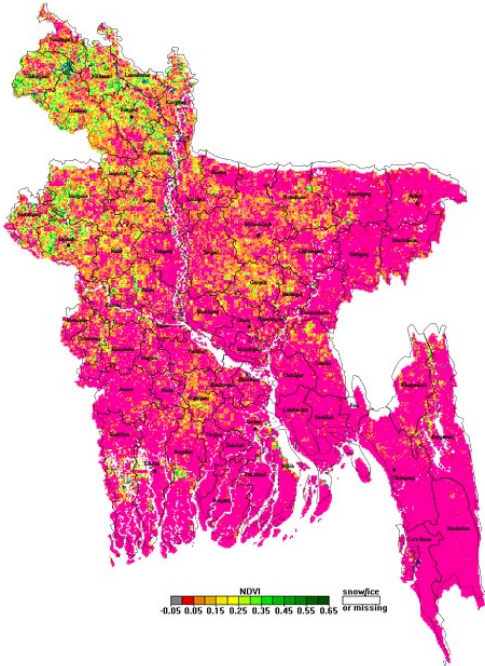
NOAA/VIIRS BLENDED NDVI composite for the week number No. 20 (22 May -28 May) over Agricultural regions of Bangladesh



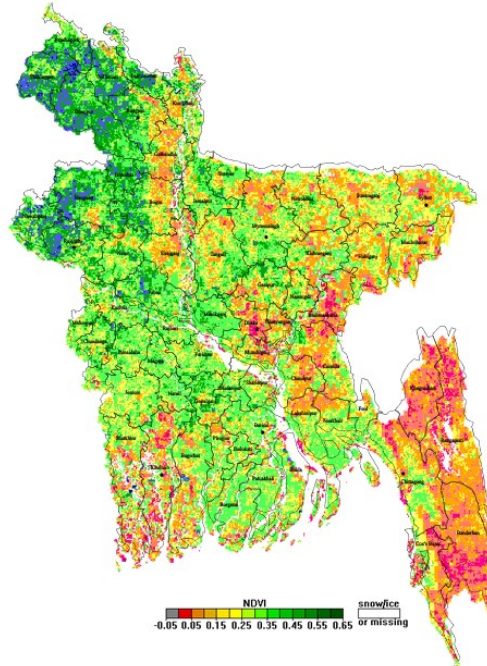
NOAA/ AVHRR BLENDED VCI composite for the week number No. 20 (22 May -28 may) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 20 (22 May -28 may) over Agricultural regions of Bangladesh

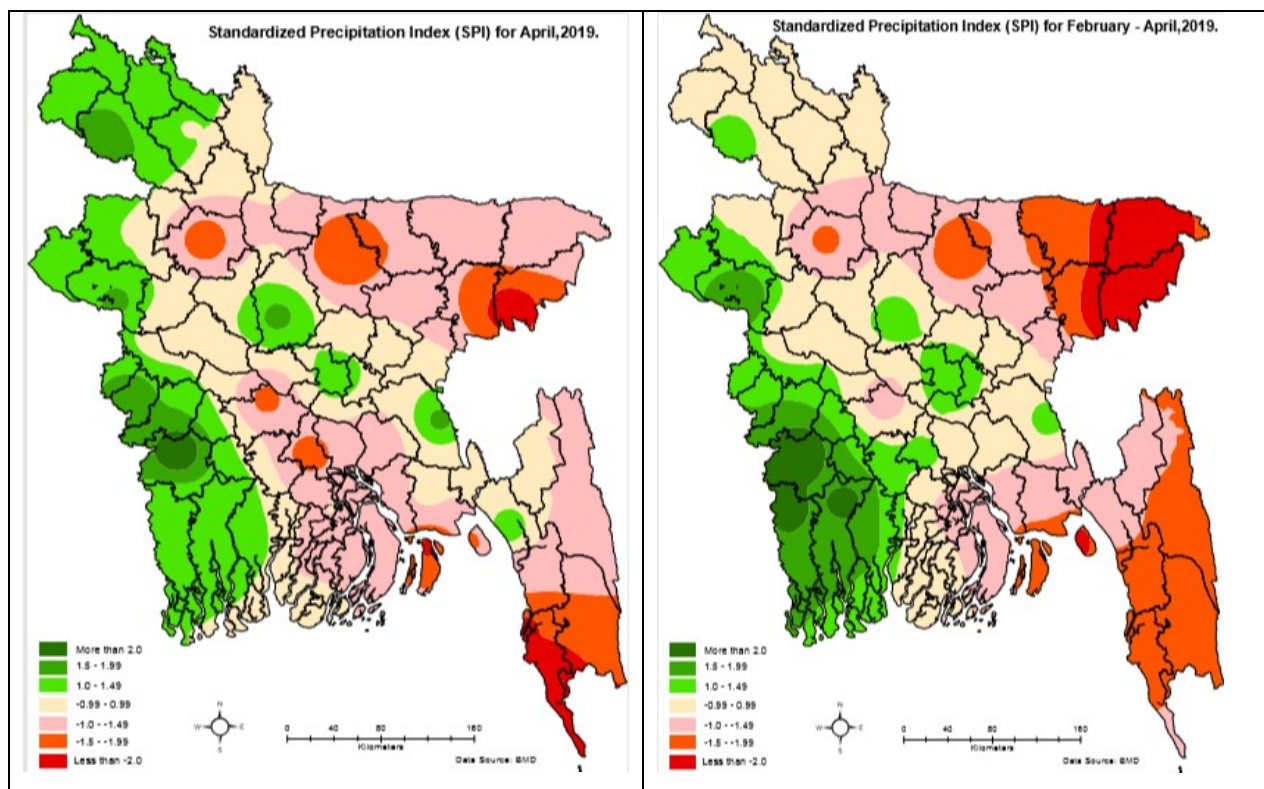


NOAA/ AVHRR BLENDED VHI composite for the week number No. 20 (22 May -28 may) over Agricultural regions of Bangladesh



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 May 29, 2019

- All the major rivers of the Country are in falling tread except the Padma.
- The Brahmaputra-Jamuna, the Ganges and the Surma-Kushiyara rivers may continue falling in next 24 hours.
- The Padma river may fall in next 24 hours.

General River Condition

Monitored Water Level Station	94	Inactive Gauge	02
Rise	28	Gauge Reading Missing	0
Fall	57	Total Not Reported	02
Steady	07	Above Danger Level	00

