



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

15 MAY 2019 (WEDNESDAY)
[FOR THE PERIOD 15.05.2019-19.05.2019]



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.

Please Contact: Farhana Hoque, Sabuj Roy | E-mail: pdamisdp@dae.gov.bd
Phone No.: 02-55028414, 02-55028418

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

General Advisory: As the temperature will be relatively high, it is advised for deep ploughing of fields after harvesting of Rabi crops. It helps in destroying the eggs and pupating stages of insects and weed seeds. After the harvest of the rabi crops, incorporation of crop residues @ 5t/ha improves the soil physical, property, infiltration rate and soil water holding capacity moisture around root zone. Some of the salient advisories for the districts where there will be light or no rainfall is expected for next few days are given below

Rice:

BoroPaddy

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

As there is chance of no significant rainfall next one week, harvest the matured crop.

Deep summer ploughing should be done in harvested boro paddy field to destroy eggs and pupa of insects –

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

If the nurseries in the seedbed becomes yellowish, apply 7 gram urea per sq. meter.

If the nurseries in the seedbed is not green in color, apply 10 gm gypsum per sq. meter.

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.

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.

Apply light irrigation.

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 Imidocholoprid/Chlorocyryn/ Nitro @ 1ml/litre of water.

There is a chance of incidences of Semiloper. Spray Imidocholoprid/Chlorocyryn/ Nitro @ 1ml/litre of water.

Vegetables:

1. Keeping in view of high temperature forecast, farmers are advised for harvesting of mature vegetables at morning and evening hours and keep harvested crops in shadow.
2. Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop. Need based irrigation and intercultural operation should be done in tomato, brinjal, chilli, okra and other vegetable crops. Increase frequency of irrigation as per environmental temperature.

- Due to increase in rate of evaporation, provide irrigation regularly to, new planted vegetable crops.

Need based timely irrigation is advisable to vegetables, irrigating in the early morning or evening hours.

Due to increasing temperature, less availability of water, increase in rate of evaporation as well as transpiration the vegetable crops should be irrigated by micro irrigation system. The crops should be irrigated during early morning to avoid loss of water by evaporation

Maize:

Apply irrigation as there will be more evaporation due to increased temperature.

- Weeding and earthing up operations may be continued.
- Arrange thinning operations if the plants are in densely populated

If rabi maize could not be harvested, harvest the crop as there is no chance of significant rainfall during next few days

Green Gram

There is a chance of incidences of cercospora disease. If found, spray 1 gm Carbendazyme group fungicide mixing with one

- litre water in 10 days intervals
- There is a chance of incidence of leaf rot disease. If found, apply 2 ml tebuconazole group fungicide mixing with 1 litre
- There is a chance of incidence of powdery mildew. If found, apply 1 ml propinazole group fungicide mixing with 1 litre water
- Under warm & humid condition, there is a chance of incidences of thrips. If found, apply 1 ml diacylhydrazine group insecticides like intrepid mixing like with 1 litre water

Due to occurrence of rainfall for a prolonged period in last few weeks preceded by gradual increase in temperature and relative humidity, incidence of blight may be observed in the green gram crops. To control this disease apply Carbendazim 0.05% @ 300-500 g in 600-700 lit of water at an interval of 12-15 days

Monitoring is advised against attack of hairy caterpillars in the crop. The caterpillars which are profusely covered with long greyish hairs eat foliage, soft portion of stem and branches. In severe cases of infestation, the plants may be completely denuded of leaves. For management of insect-pest, spraying of Methyl parathion 50EC@2.0ml/liter or Chlorpyrifos 20 EC@2.5ml/liter of water is advised.

Groundnut

- Harvest the crop as there is no chance of significant rain during next few days.

Livestock

There is forecast for increase in temperature, 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 aside curtains to protect animals from direct hot winds. Provide sufficient watering facility to the animals in shed for control respiration rate. Protect the animals against direct warm air flow with hanging gunny bags in open ventilated animal shed.

Buffalo should be kept in the water-filled pond for at least half an hour every day. If possible arrange the fogger in animal shed and sprinkling should be done at an interval of every four to five hours.

If animal suffering from heat stroke it is advised to move the animal in shady place and whole body mop should be done frequently with wet cloth.

Farmers are advised to cover animal and poultry sheds with wet gunny bags.

1. Provide clean, hygienic and plenty amount of drinking water to farm animals and poultry birds. To reduce the stress of heat in farm animals, provide roughages by mixing with solution of 1% gaggery and 0.5% salt separately.
2. Vaccination against foot and mouth disease in farm animals under supervision of veterinary officers is advocated.

Poultry

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.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 15 May'19) and maximum temperature on 14 May, minimum temperature on 15 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	Trace	35.2	24.7	Rajshahi	Rajshahi	00	35.5	23.4
	Tangail	11	35.5	22.6		Ishurdi	00	34.8	23.0
	Faridpur	03	34.8	23.0		Bogura	00	33.7	23.6
	Madaripur	03	35.7	22.8		Badalgachhi	00	33.0	22.8
	Gopalganj	08	34.5	22.0		Tarash	00	34.3	24.0
	Nikli	Trace	33.5	22.2					
Mymensingh	Mymensingh	Trace	32.9	24.6	Rangpur	Rangpur	29	33.2	20.0
	Netrokona	01	32.0	24.6		Dinajpur	00	34.2	22.5
						Sayedpur	00	33.3	20.5
Chattogram	Chattogram	00	34.0	25.2		Tetulia	01	30.7	23.4
	Sandwip	00	34.1	25.0		Dimla	06	32.0	20.7
	Sitakunda	06	33.8	23.5		Rajarhat	08	32.0	20.9
	Rangamati	17	32.8	23.0	Khulna	Khulna	02	36.0	23.5
	Cumilla	00	33.4	24.0		Mongla	00	35.8	24.4
	Chandpur	00	34.6	24.4		Satkhira	06	35.3	22.8
	M.Court	36	35.2	22.8		Jashore	13	35.6	22.8
	Feni	00	34.6	23.4		Chuadanga	56	34.0	21.5
	Hatiya	00	35.2	25.0	Kumarkhali	03	33.8	23.0	
	Cox's Bazar	04	33.8	27.6	Barishal	Barishal	21	35.5	23.2
Kutubdia	00	34.0	27.5	Patuakhali		Trace	36.0	25.1	
Teknaf	00	xx	27.0	Khepupara		00	35.0	25.6	
Sylhet	Sylhet	14	32.5	22.4		Bhola	17	34.5	23.9
	Srimangal	20	34.0	22.2					

Highlights:

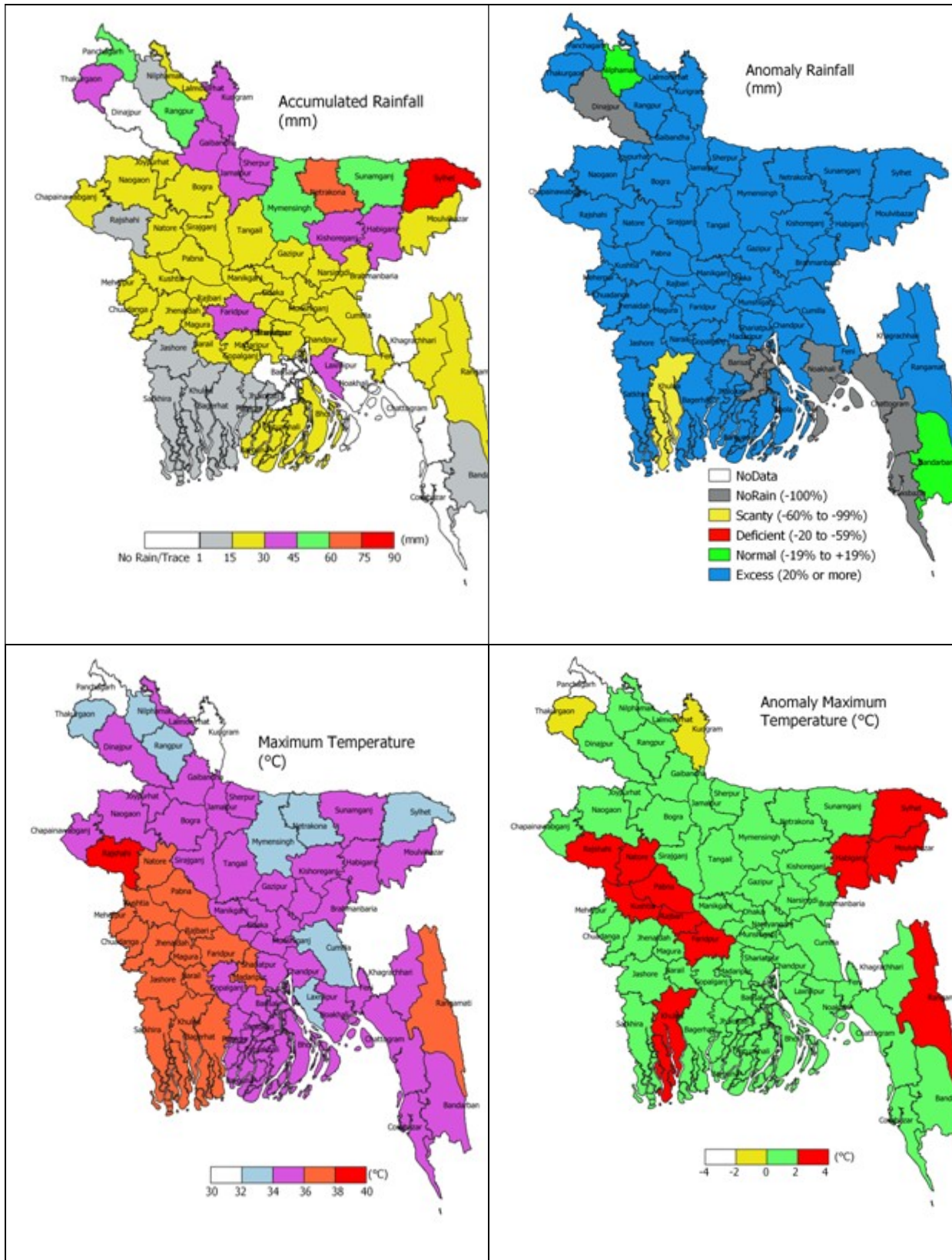
- Country average of bright sunshine hour was 7.13 hours per day during last week.
- Country average of free water loss during the previous week was 4.37 mm per day.

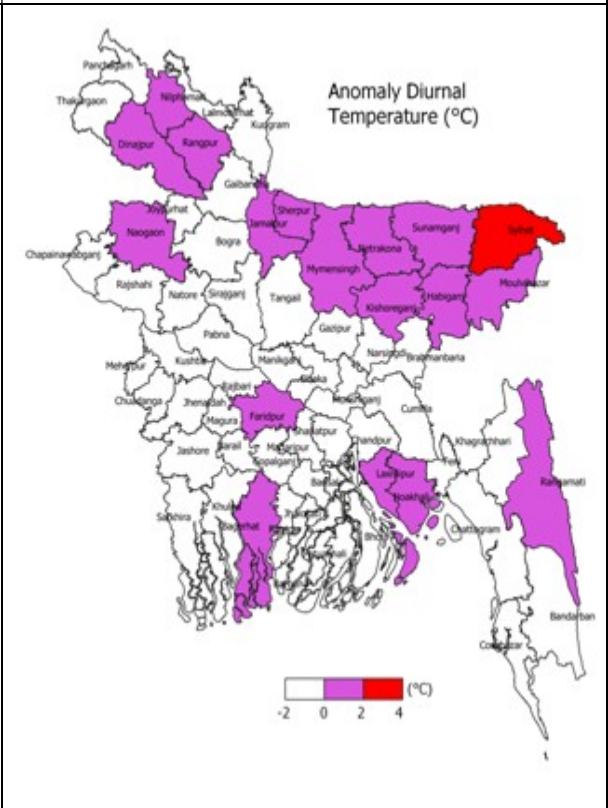
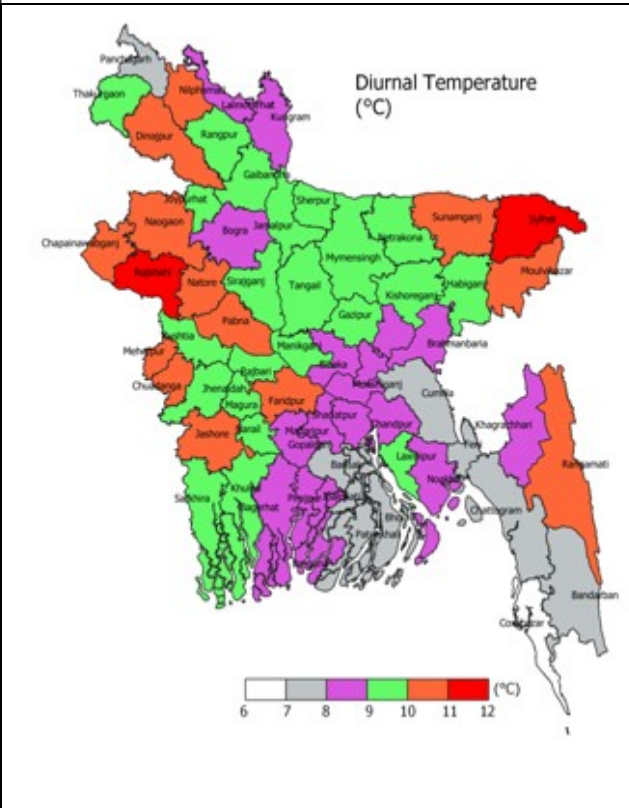
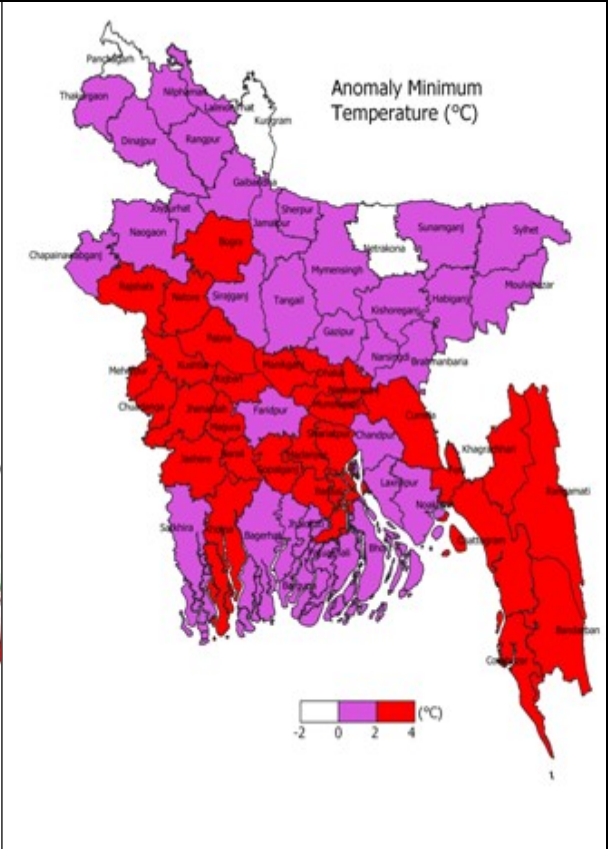
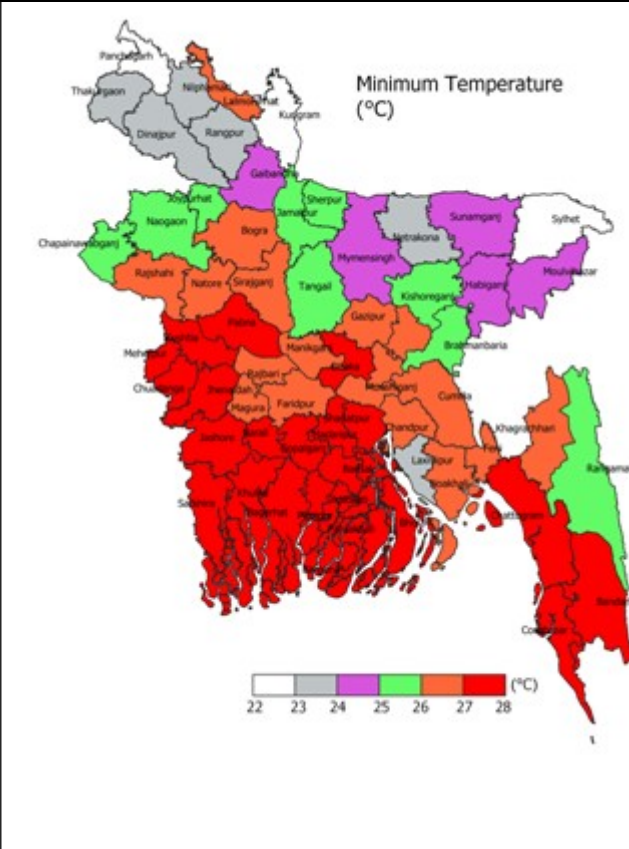
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

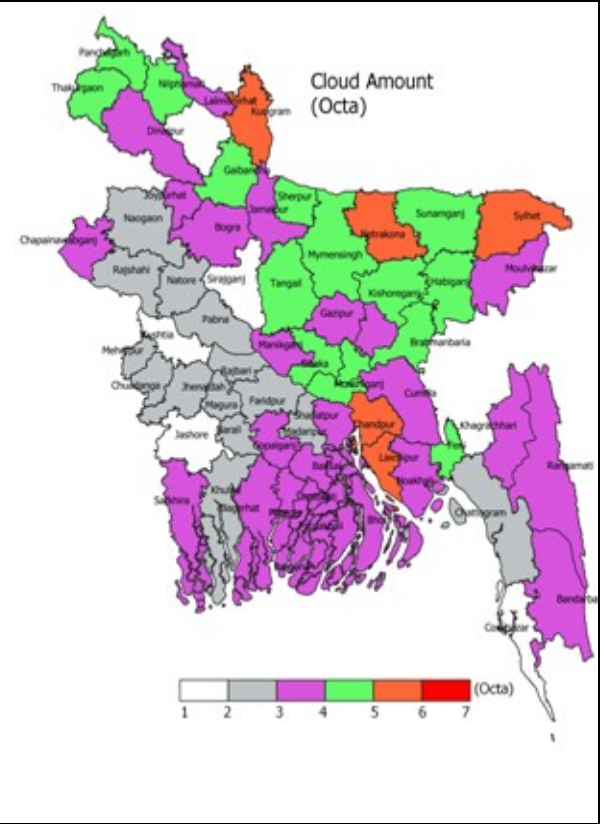
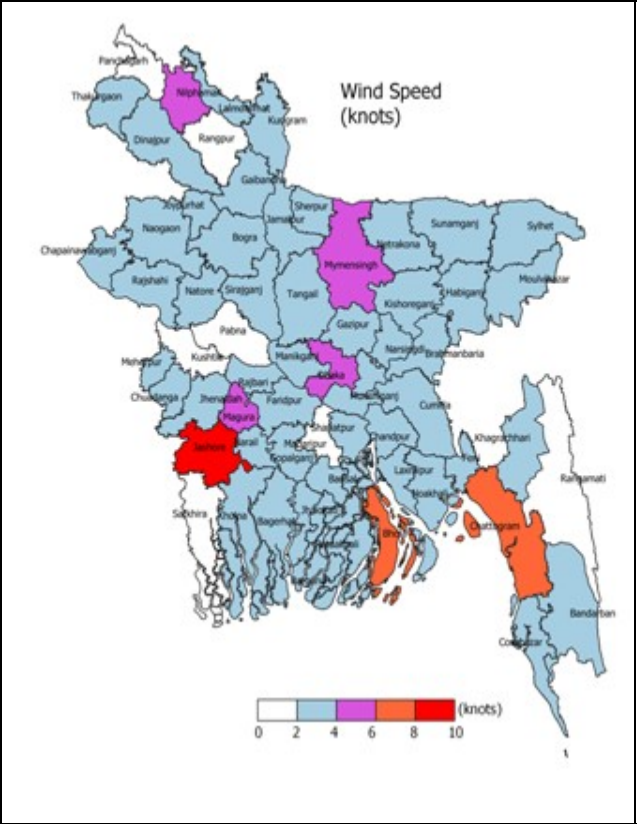
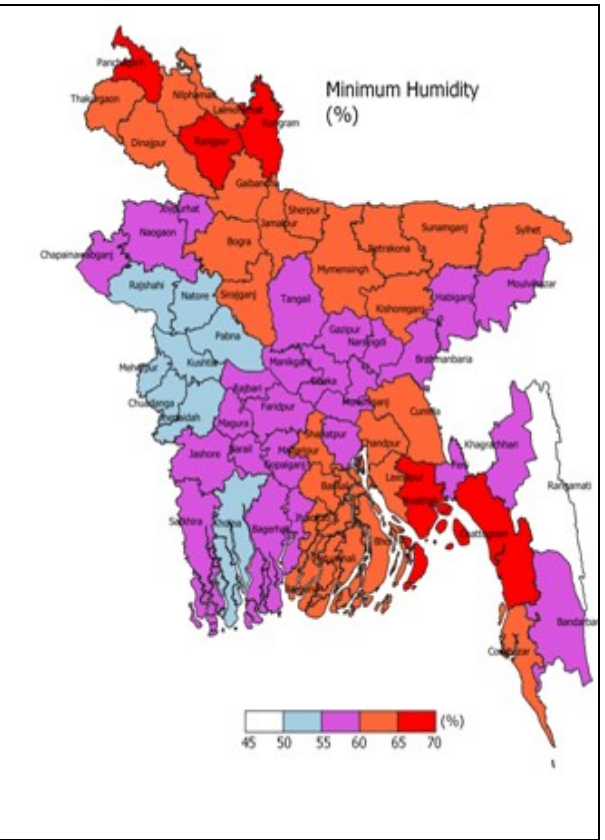
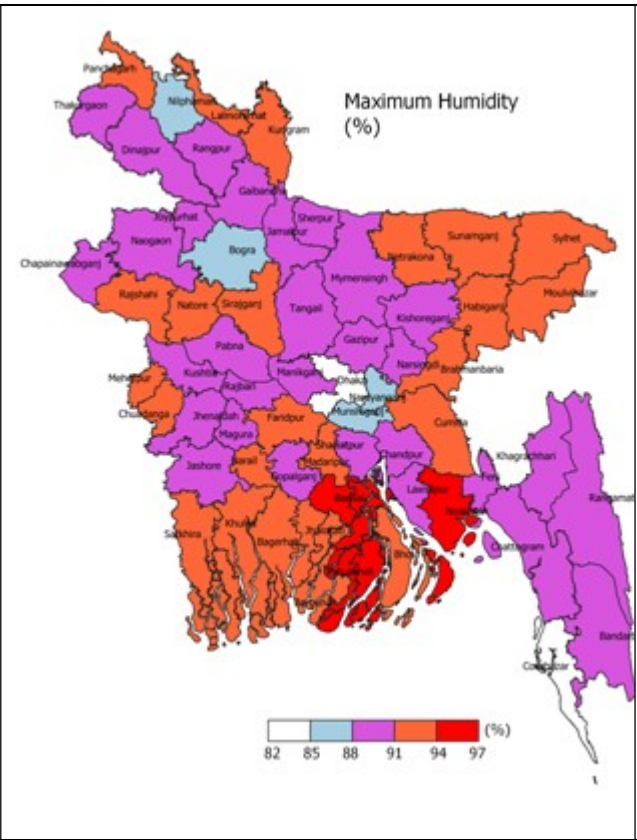
Forecast: Rain/thunder showers accompanied by temporary gusty/squally wind is likely to occur at many places over Rangpur, Mymensingh, Dhaka & Sylhet divisions and at a few places over Rajshahi, Khulna, Barishal & Chattogram divisions.

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

Spatial Distribution of weather parameters for the Week ending 14th May 2019







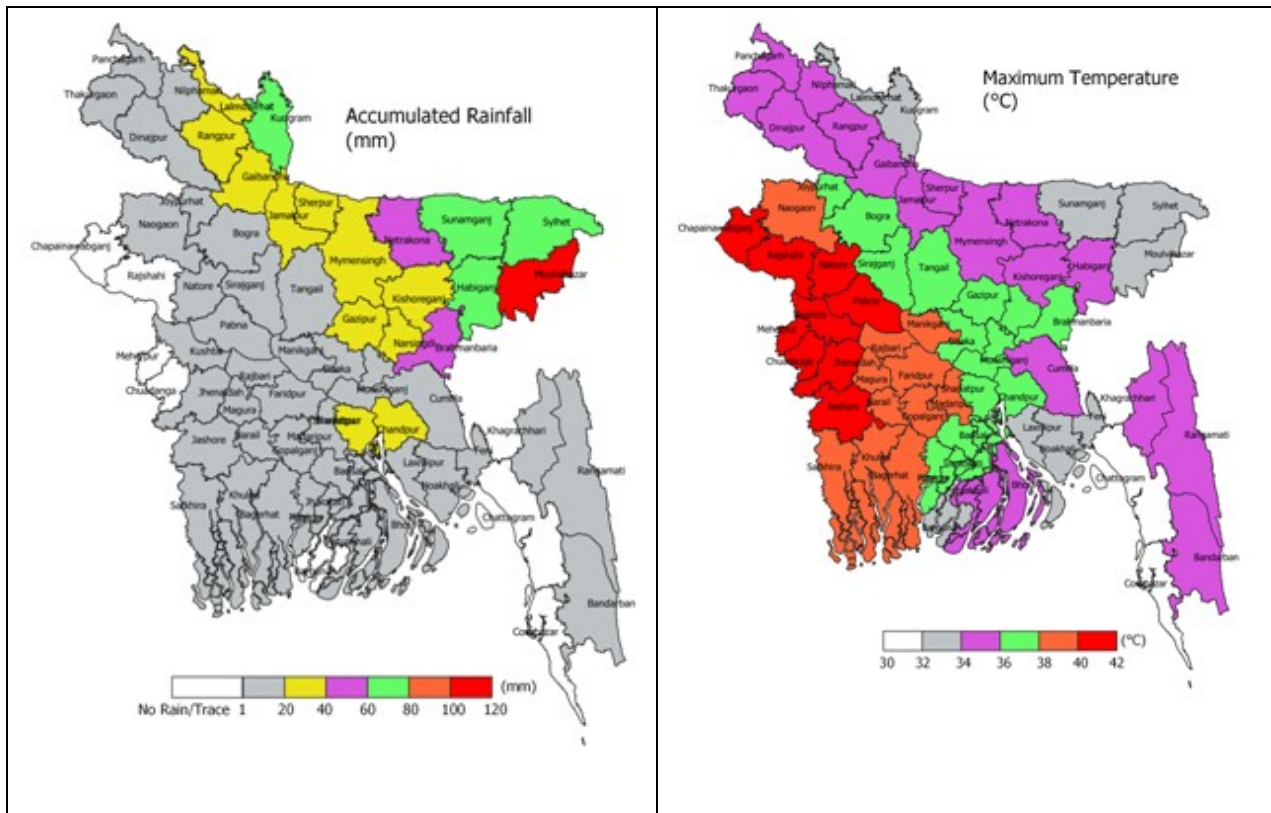
Weather Forecast and Advisory for the Period of 02.05.2019 to 07.05.2019

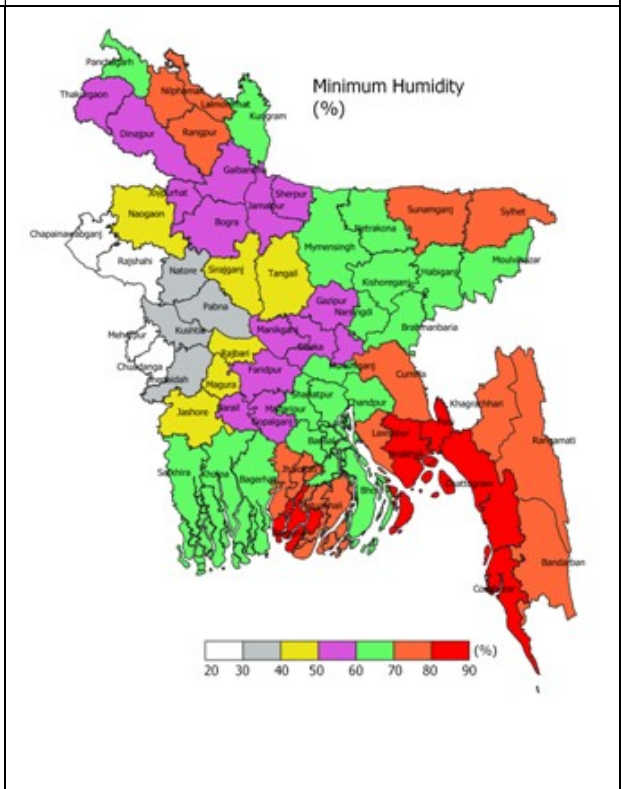
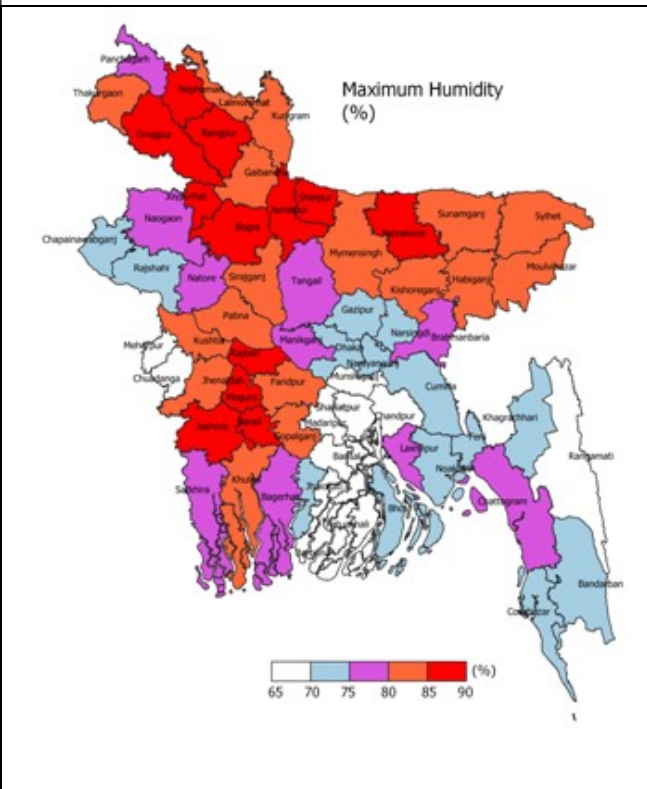
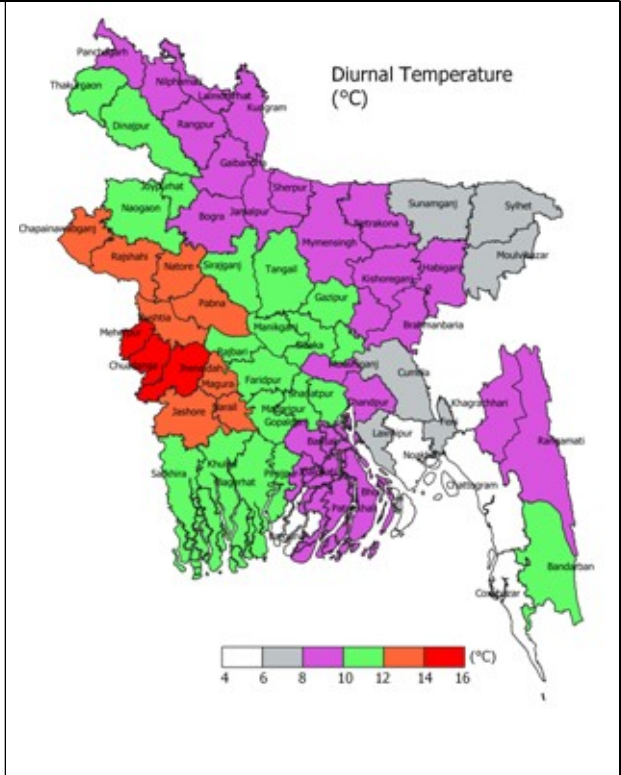
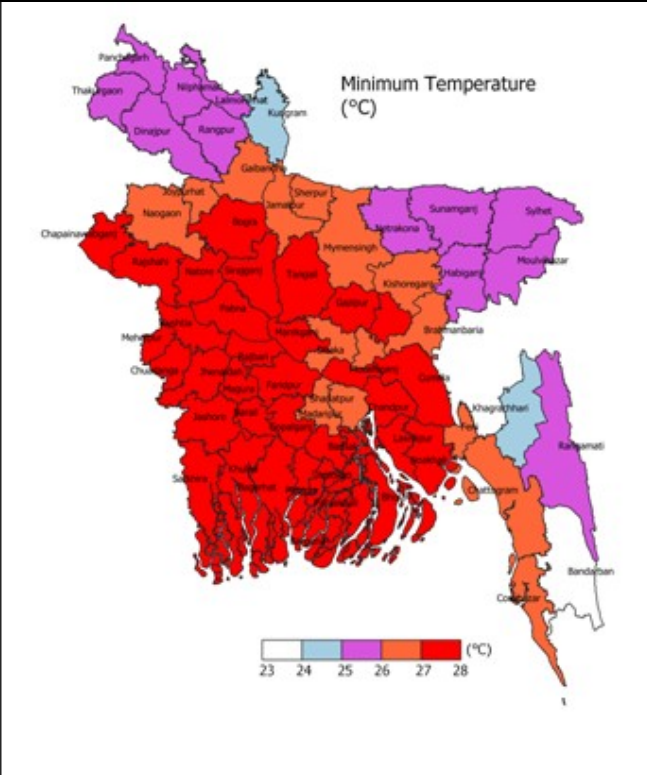
Bright sunshine hour is likely to be from 6.50 to 8.00 hours per day during this week. Average of free water loss during the next week is likely to be from 3.75 to 4.75 mm per day.

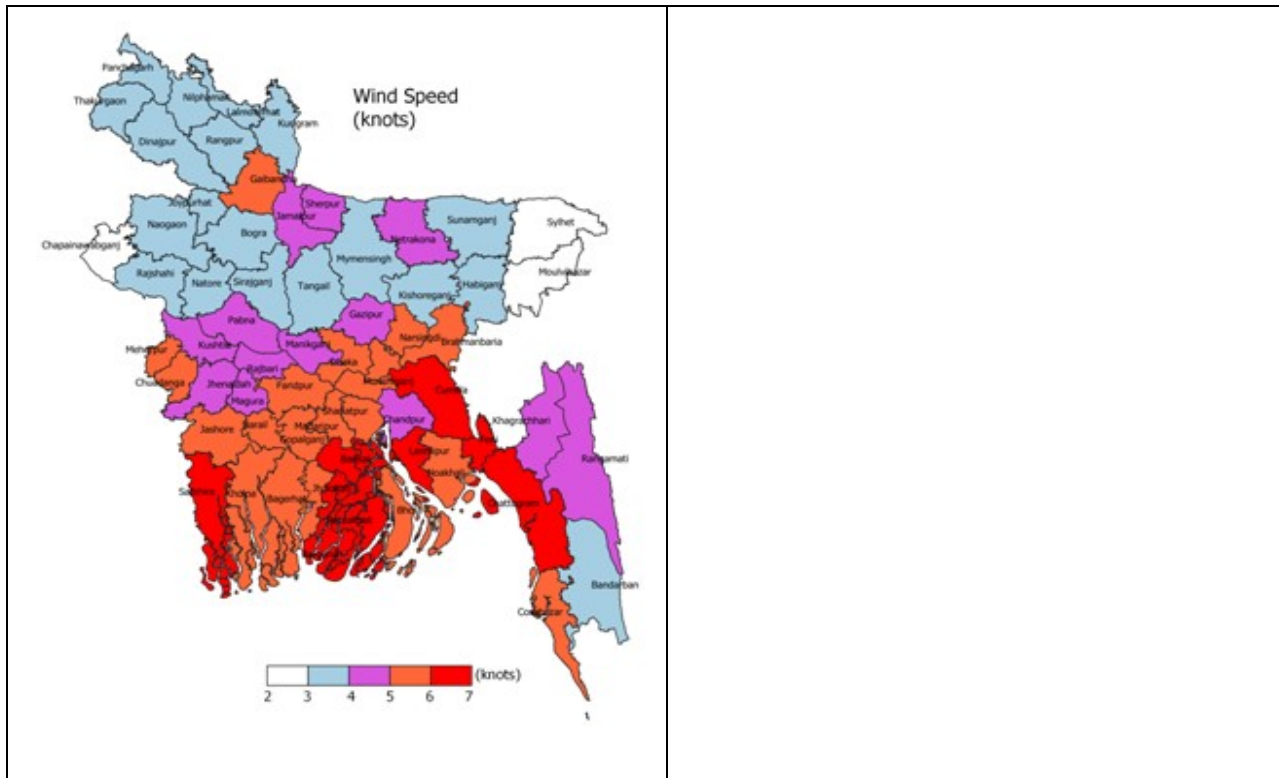
- Light (04-10 mm/d) to moderate (11-22 mm/d) rain/thunder showers with hail is likely to occur at many places over Dhaka, Mymensingh, Chattogram and Sylhet divisions and one or two places elsewhere over the country, With a chance of moderately heavy (23-43 mm/d) Rain at places over the country during this period.

Day and Night temperature may remain nearly unchanged during this period.

District wise Quantitative Weather Forecast for next Five days from 15 May -19 May'19

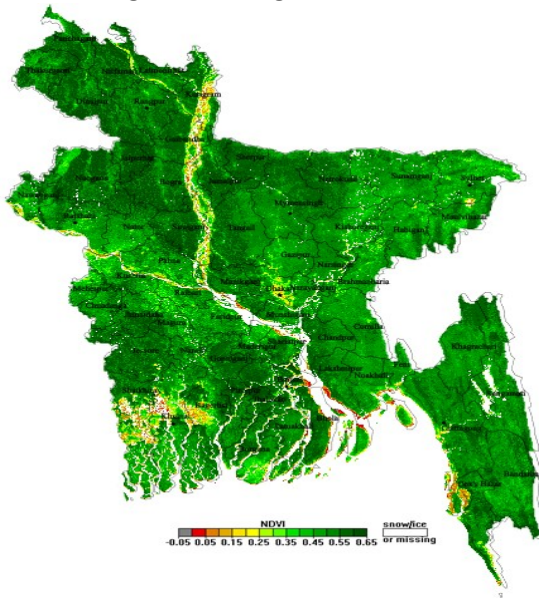




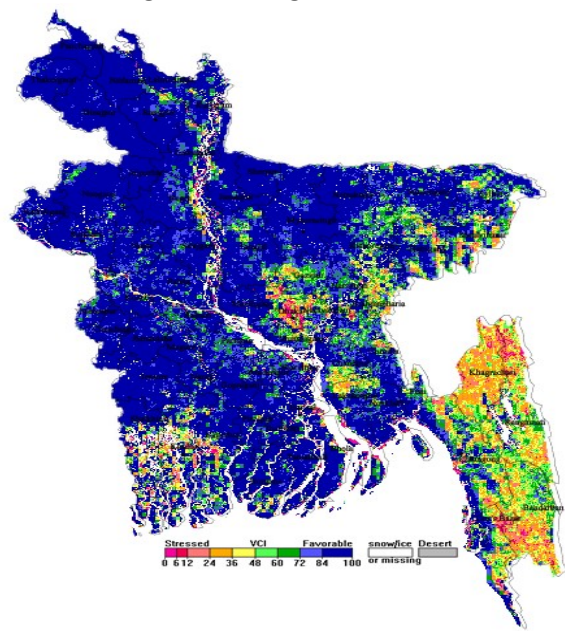


Different Satellite Products over Bangladesh

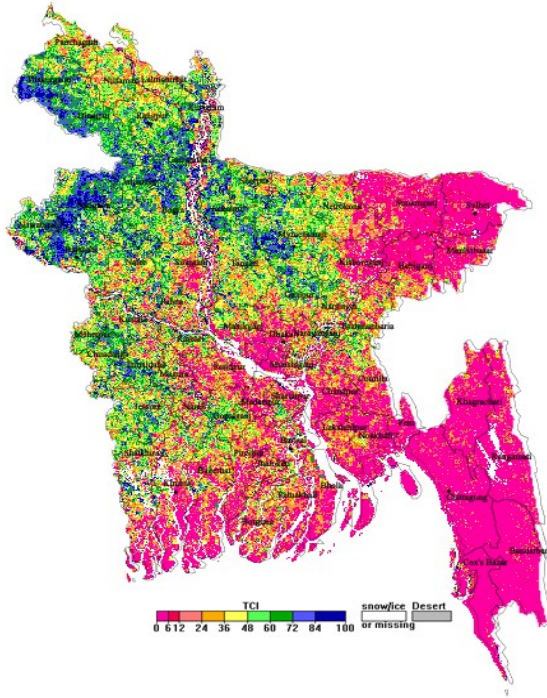
NOAA/VIIRS BLENDED NDVI composite for the week number No. 18 (08 May -14 may) over Agricultural regions of Bangladesh



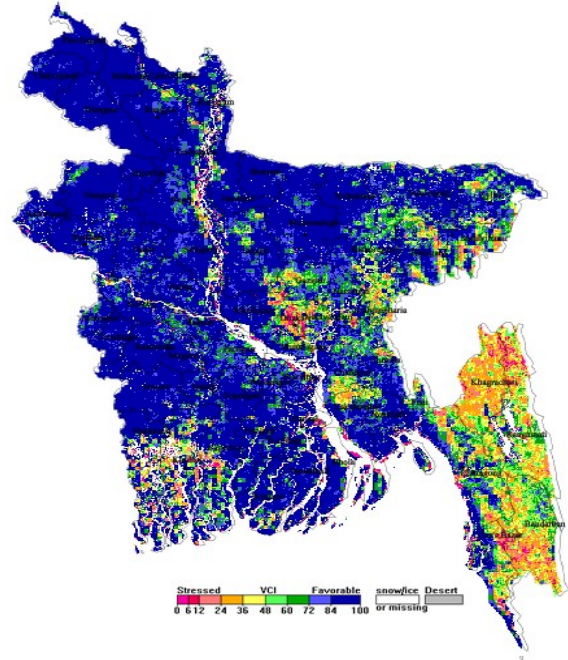
NOAA/ AVHRR BLENDED VCI composite for the week number No. 18 (08 May -14 may) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 18 (08 May -14 may) over Agricultural regions of Bangladesh

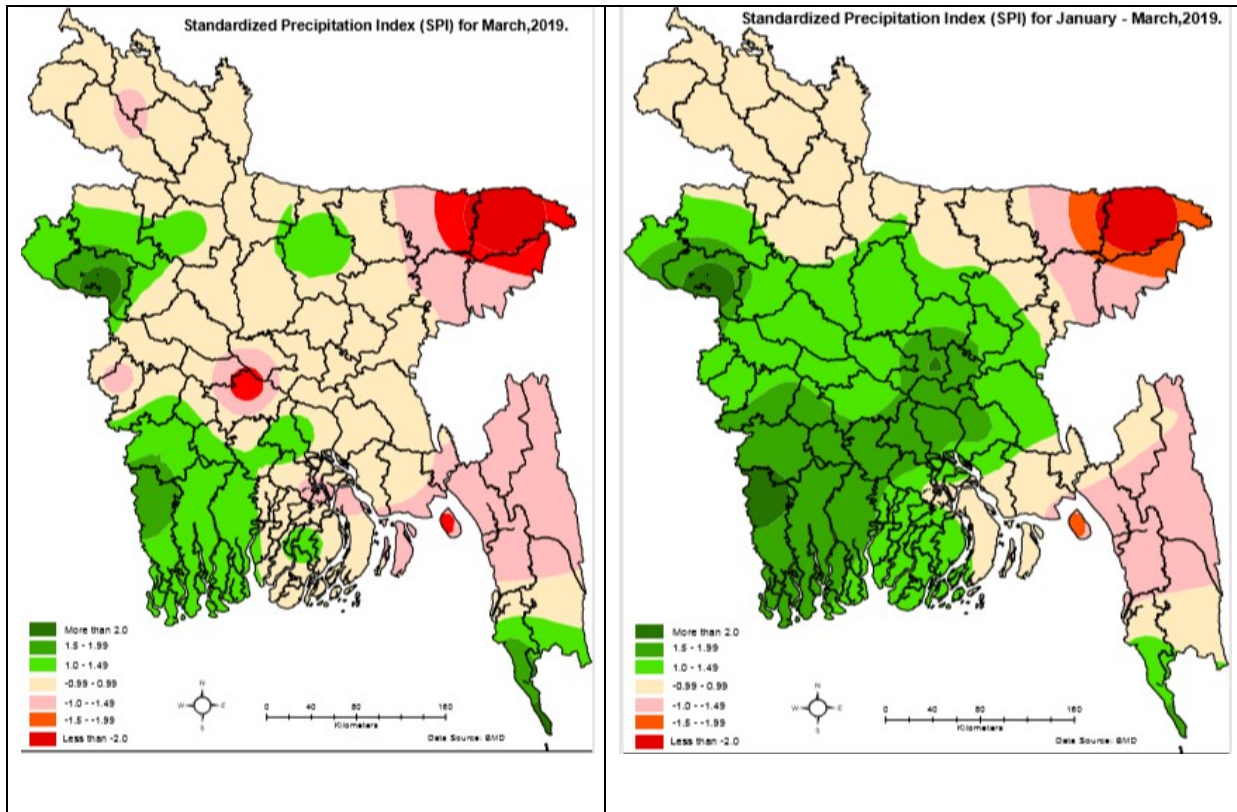


NOAA/ AVHRR BLENDED VHI composite for the week number No. 18 (08 May -14 may) over Agricultural regions of Bangladesh



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

It has been observed that during last three months as well as in March, normal conditions prevails in districts located in southern, northwest and central parts of Bangladesh whereas the districts in southeast and a few districts near central parts are under dry condition and some districts in northeast parts are wet conditions .



Source: Bangladesh Meteorological Department

Flash Flood Monitoring in Haor Region (Source: Bangladesh Water Development Board)

RIVER SITUATION SUMMARY AS ON May 15, 2019

- The major rivers of the Country are in falling trend except Ganga.
- According to the information of Bangladesh Meteorological Department and Indian Meteorological Department, there is chance of medium to heavy rainfall at some places in the North-Eastern region of Bangladesh and adjacent Indian regions in next 24 hours.
- The water level of the major rivers may remain steady in next 24 hours.

General River Condition

Monitored Water Level Station	94	Inactive Gauge	01
Rise	23	Gauge Reading Missing	14
Fall	50	Total Not Reported	15
Steady	06	Above Danger Level	02