



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

21 August 2019 (WEDNESDAY)
[FOR THE PERIOD 21.08.2019 - 25.08.2019]



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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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 weather forecast received from the Bangladesh Meteorological Department (BMD), monsoon is less active over Bangladesh and weak to moderate over North Bay. Thus it is expected reduction in rainfall activities in different districts of Bangladesh next few days. During next 24 hours, Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at a few places over Chattogram and Sylhet divisions and at one or two places over Dhaka, Mymensingh, Rajshahi, Rangpur, Khulna & Barishal divisions with moderately heavy falls at places over the country. As per the medium range quantitative district level forecast issued by BMD, moderate to very rainfall is expected in Rangamati, Sunamganj, Sylhet, Patuakhali, Moulvibazar, Jhalokati and Barishal district during next five days. As on today, substantial improvement in flood condition was reported by Bangladesh Water Development Board (BWDB). According to BWDB, all the major rivers of the country are in falling trend except the Ganges. Considering the realized weather along with weather forecast and information received on water level on major rivers in the country, Following salient agromet advisories are issued for different districts in the country on the standing crops, livestock, poultry and fishery.

Agromet Advisories

Aus Paddy

Maturity to Harvesting Stage:

- Harvest the crop on sunny days & keep in safe place.
- Drain out water from the fully matured crop field 15 days before harvesting.

Soft Dough to Ripening Stage:

- Apply irrigation & maintain 2-5 cm water level upto hardening of grain
- Due to high humidity (warm and humid weather) possibility of pest and disease build up is more in crop. Take prophylactic measures accordingly.
- To control of insects like stem borer, gall midge and white & brown hopper apply Corbofuron 3 G@33 kg or phorat 10G @ 10 kg per /hectare and for cut worm Clorpyrifos or Daiclorovash.
- Since cloudy weather is prevailed, there is a chance of leaf folder attack in Paddy. It can be controlled by using Trichogramma cards.
- To save the rice crop from sheath blight, keep the bunds of the field clean by removing grasses.
- To control infestation of leaf blast & leaf spot in Aus rice, spray Carbendazim @2g/litre of water.

Aman Paddy

- Apply irrigation & maintain 5-7 cm standing water up to maximum tillering stage.
- Undertake intercultural operations Weeding should be done at regular interval as per requirement. However, first weeding should be done 10-15 days after transplanting. Second weeding should be done 30-35 days after transplanting. Weeding may be done either by hand or using weedicides. 2-4 D Amine or Butachlor may be used for weeding
- Apply 1/3rd nitrogen as top dressing 15-20 days after transplanting.
- Make proper surveillance of the incidences of the stem borer, rice hispa, rice caseworm, gall midge as well as sheath blight and sheath rot and if noticed, apply appropriate insecticides/fungicides to control the pests & diseases incidences.
- In low land areas, still there is scope for transplanting the crop after receding water. As there is delay in transplanting, cultivation of BR22, BR23, BRRI DHAN 38, BRRI 46, Benisal, Nigersal and local varieties may be suitable under such circumstances.

- After receding of flood water, in advance prepare seed bed in high land and also arrange for floating seed bed.

Other Advisories

1. Complete drain out of water from vegetable field , if any, after the flood
2. Start cultivating of early winter vegetables after receding of flood water.
3. Prevent feeding the livestock with rotten grasses after flood. Instead, feed the animals with concentrate and green grasses along with vitamins and mineral supplements.
4. In flood affected areas of the district, vaccinate domestic livestock like cattle, goat and sheep against BQ, HS, Foot and mouth disease as well as anthrax disease..
5. There is possibility of muddy water influx from the surrounding areas into the fishery resulting reduction of dissolved oxygen contents. Stirring the water with a bamboo pole will help in increasing the gaseous exchange and protect the fishes from suffocation.
6. Changing weather condition could lead to viral diseases to the birds. So, farmers may provide sufficient water with 1% salt and mineral mixture. Farmers are also advice to clean the sanitary condition of poultry.

Detail Districtwise Agromet Advisories are available in BAMIS Portal (www.

<https://www.bamis.gov.bd/>)

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 21 August'19) and maximum temperature on 20 August, minimum temperature on 21 August' 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	34.4	27.6	Rajshahi	Rajshahi	01	34.6	27.3
	Tangail	00	35.5	27.2		Ishurdi	00	35.0	27.0
	Faridpur	00	35.3	26.6		Bogura	00	35.0	28.2
	Madaripur	00	34.0	26.8		Badalgachhi	00	33.6	27.0
	Gopalganj	00	34.2	26.7		Tarash	00	33.8	28.5
	Nikli	04	34.0	28.0					
Mymensingh	Mymensingh	00	34.5	28.3	Rangpur	Rangpur	00	34.0	27.6
	Netrokona	Trace	33.2	27.6		Dinajpur	00	36.0	27.7
						Sayedpur	00	35.0	27.0
Chattogram	Chattogram	03	33.0	26.5		Tetulia	05	33.7	25.5
	Sandwip	00	32.8	26.9		Dimla	00	33.8	27.5
	Sitakunda	00	33.3	26.5		Rajarhat	00	34.3	27.2
	Rangamati	00	34.0	25.0	Khulna	Khulna	00	35.0	27.2
	Cumilla	00	33.3	27.5		Mongla	20	34.0	27.0
	Chandpur	00	35.0	27.5		Satkhira	Trace	34.5	27.0
	M.Court	14	33.2	27.6		Jashore	00	35.2	27.4
	Feni	00	34.0	27.0		Chuadanga	00	34.7	27.0
	Hatiya	05	32.7	27.0	Kumarkhali	00	34.0	27.8	
	Cox's Bazar	00	32.0	26.6	Barishal	Barishal	41	33.4	26.1
Kutubdia	03	32.2	26.5	Patuakhali		23	33.9	26.8	
Teknaf	03	32.4	25.5	Khepupara		00	33.8	27.0	
Sylhet	Sylhet	Trace	31.9	26.6		Bhola	00	33.2	26.7
	Srimangal	00	34.6	26.5					

Highlights:

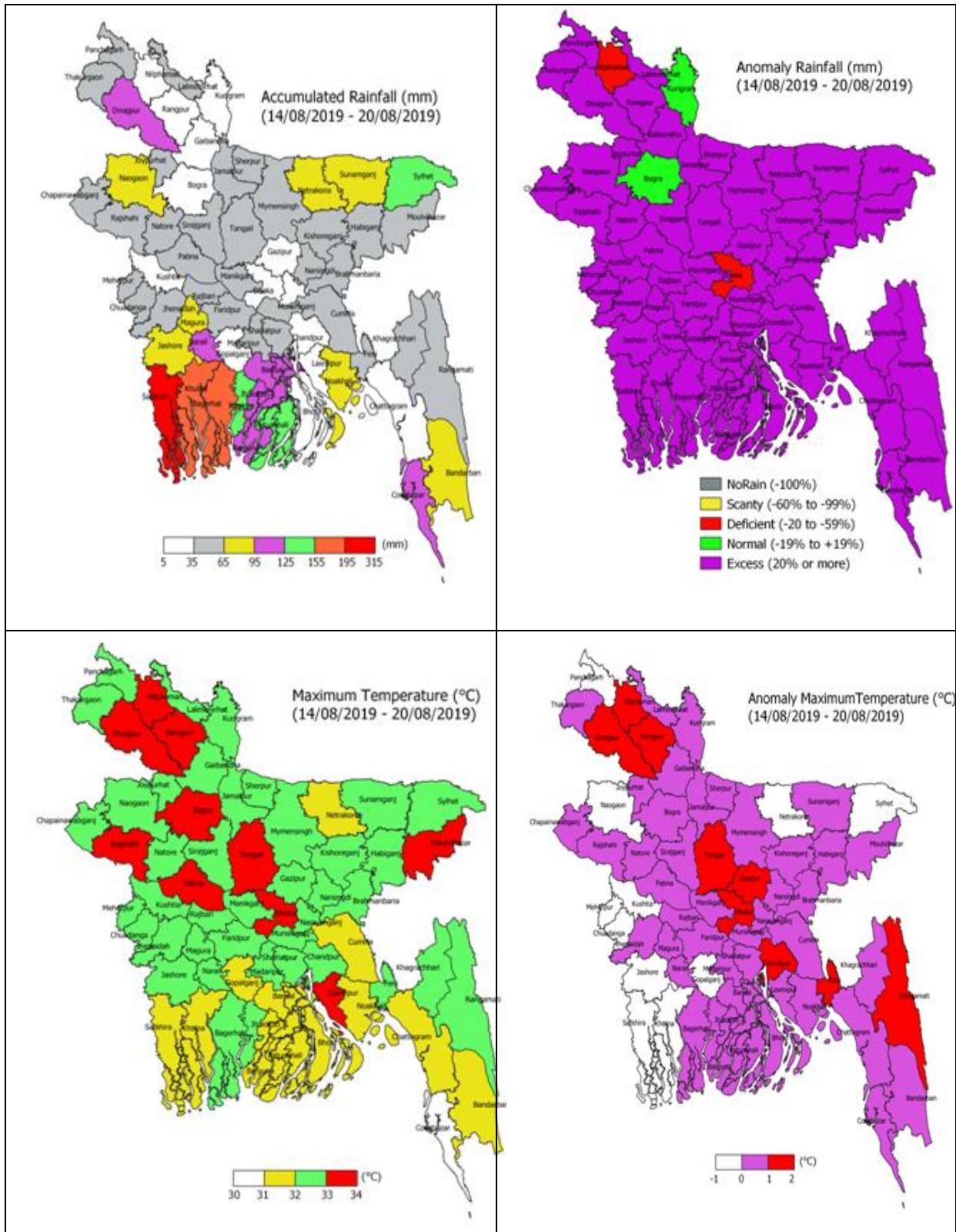
- Country average of bright sunshine hour was 3.92 hours per day during last week.
- Country average of free water loss during the previous week was 3.11 mm per day.

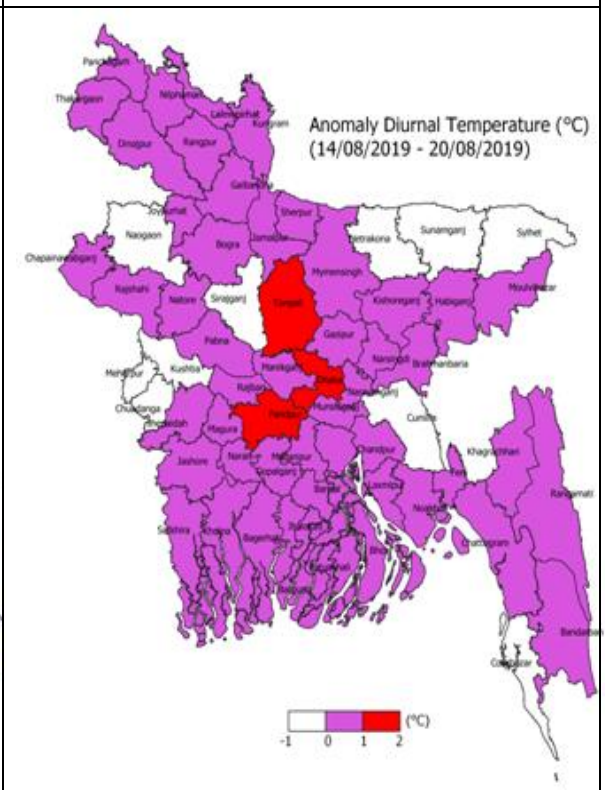
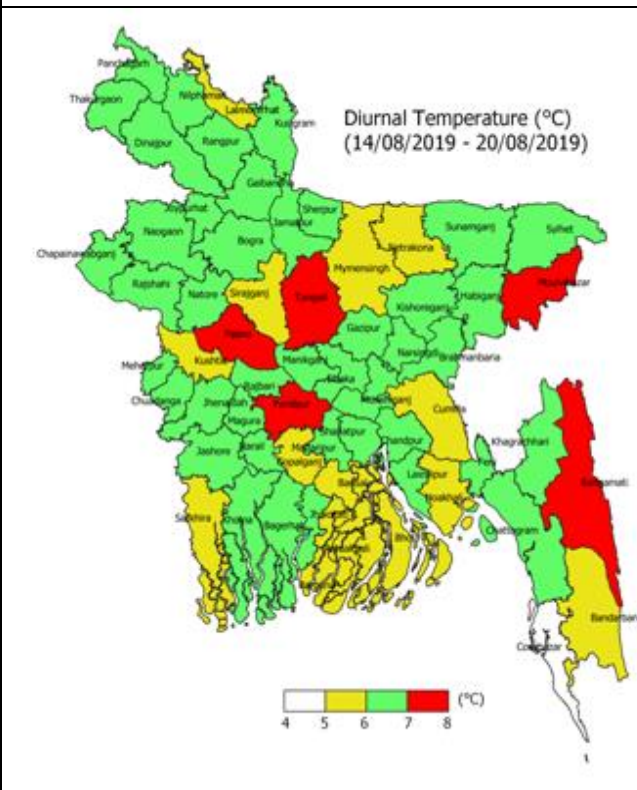
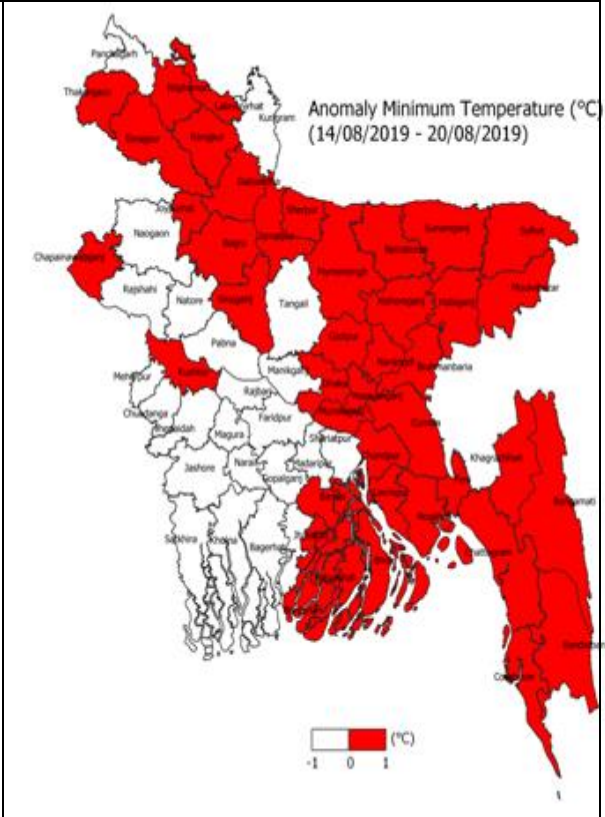
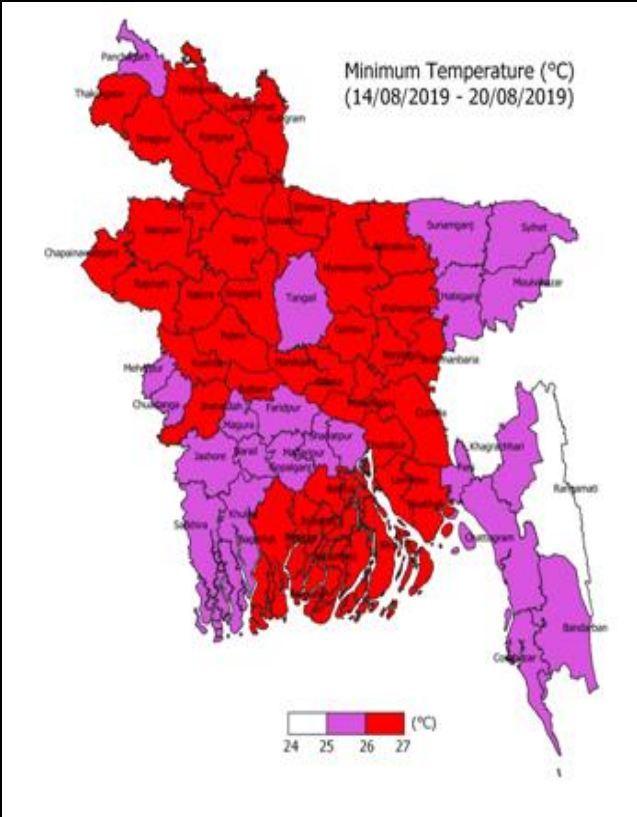
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

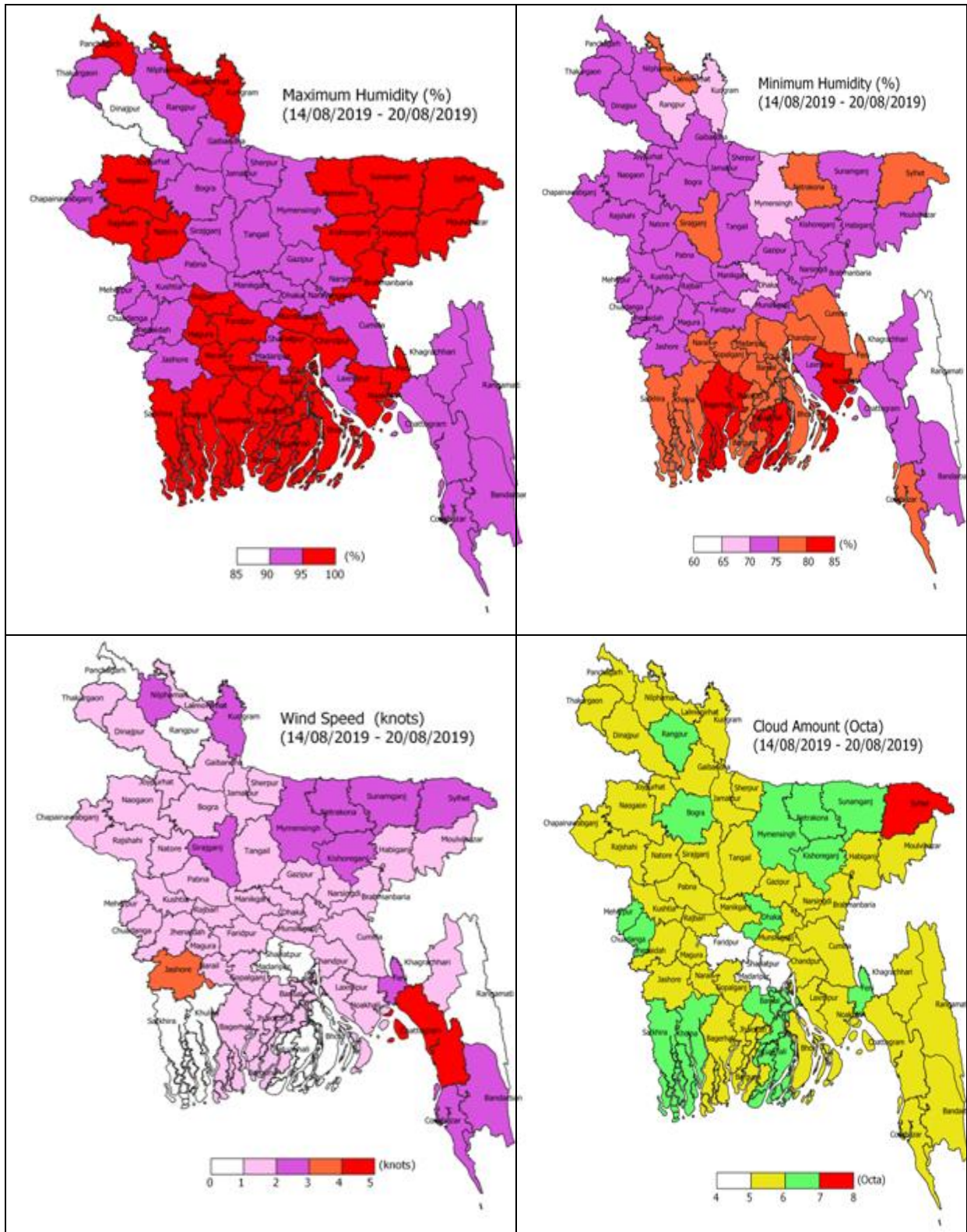
Forecast: Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at a few places over Chattogram and Sylhet divisions and at one or two places over Dhaka, Mymensingh, Rajshahi, Rangpur, Khulna & Barishal divisions with moderately heavy falls at places over the country.

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

Spatial Distribution of weather parameters for the Week ending 20th August 2019





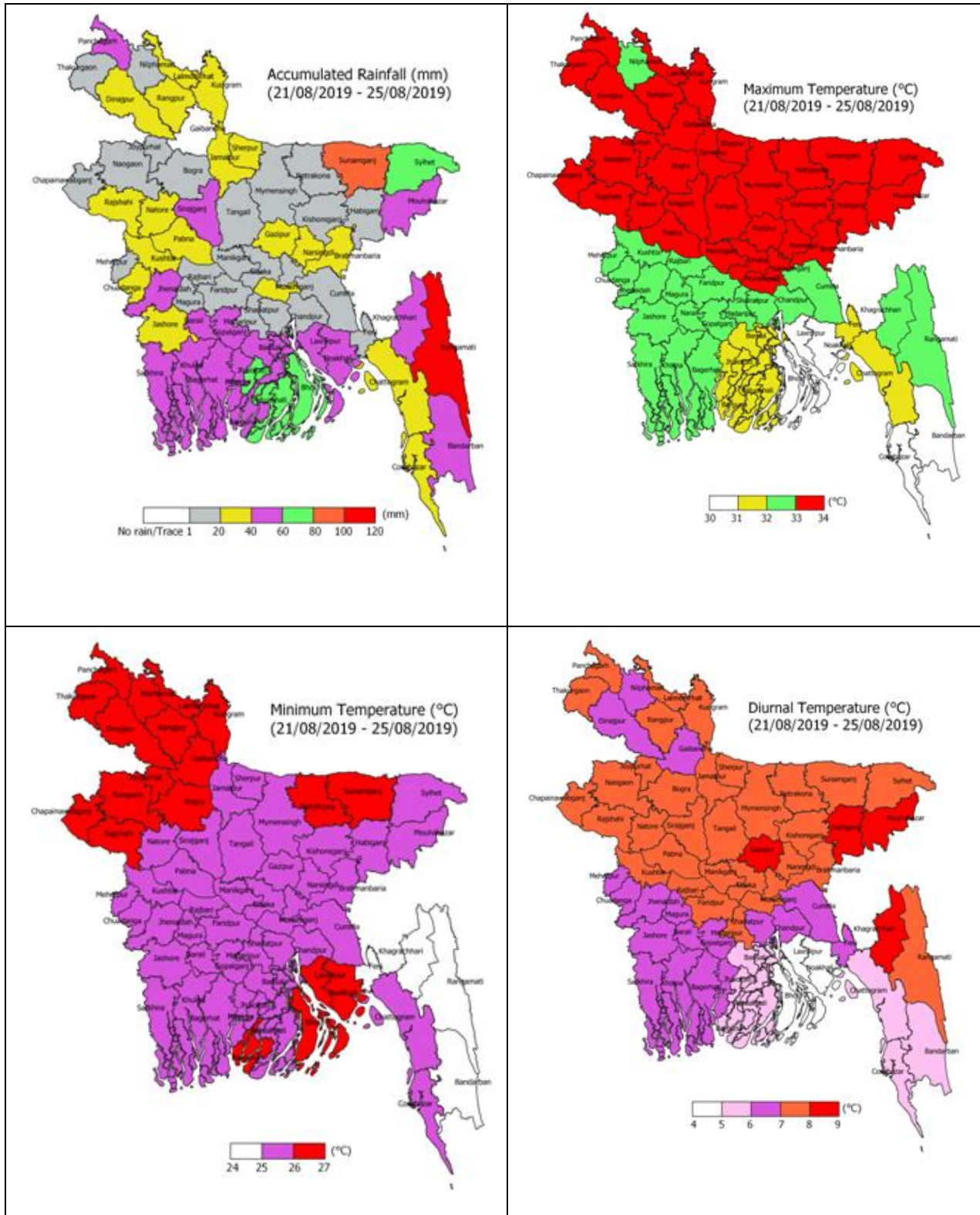


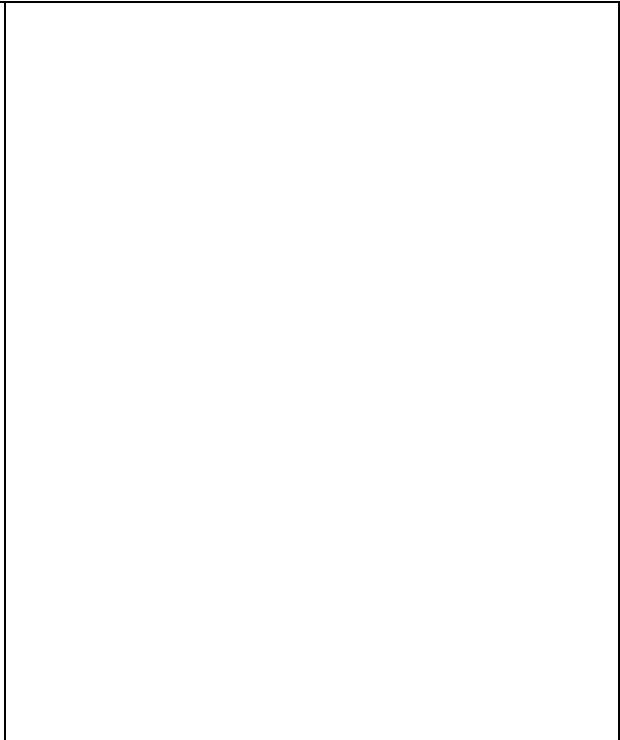
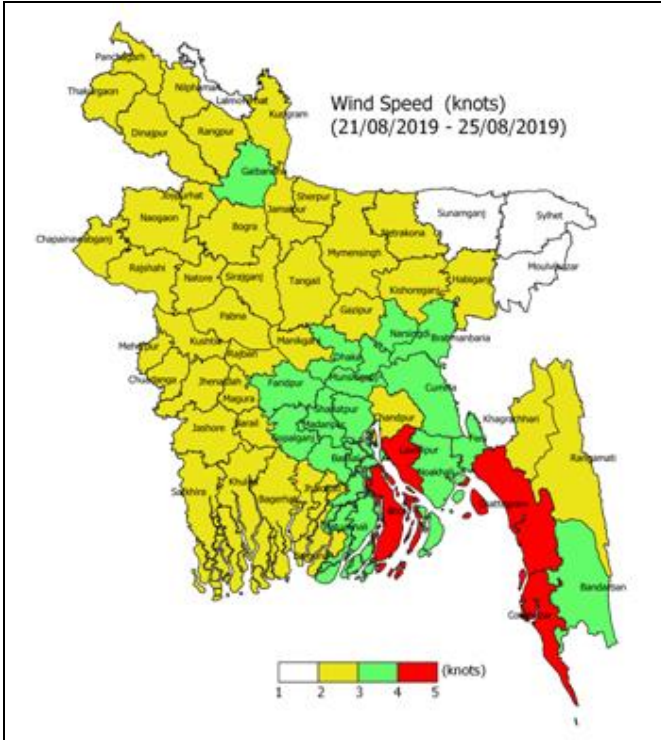
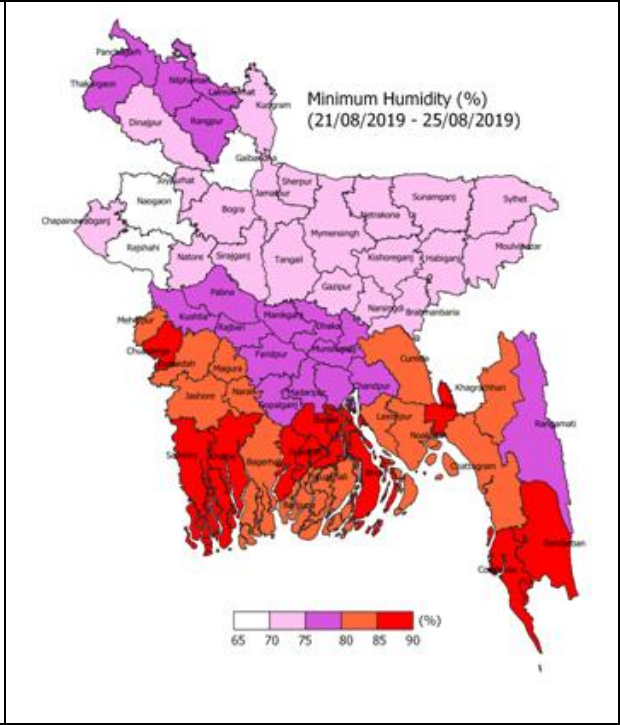
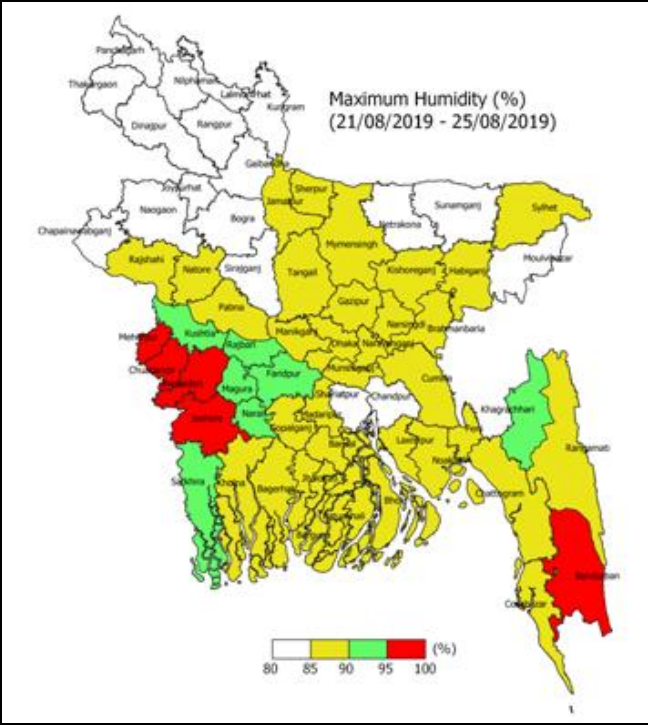
Weather Forecast and Advisory for the Period of 18.08.2019 to 24.08.2019

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 3.00 to 4.00 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, Khulna, Barishal, Chattogram and Sylhet divisions and at a few places over Rangpur and Rajshahi divisions, with chances of moderately heavy (23-43 mm/d) to heavy (44 -88 mm/d) falls at places over the country during this period.
- Day and night temperature may rise slightly over the country during this period.

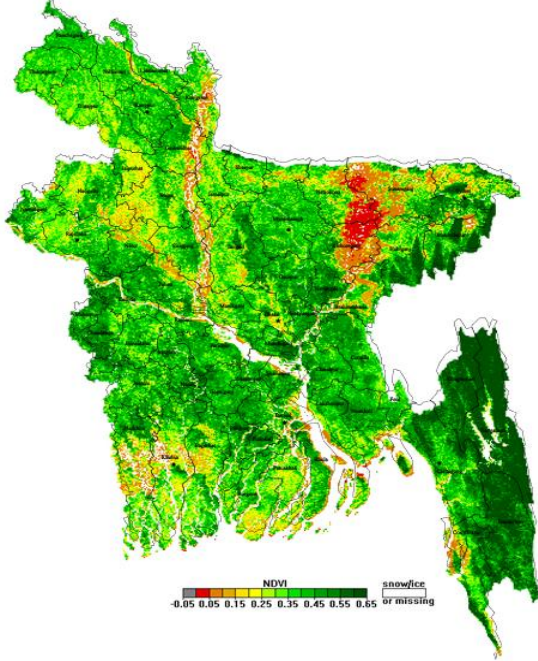
District Wise Quantitative Weather Forecast for next Five days from 21 August -25 August'19



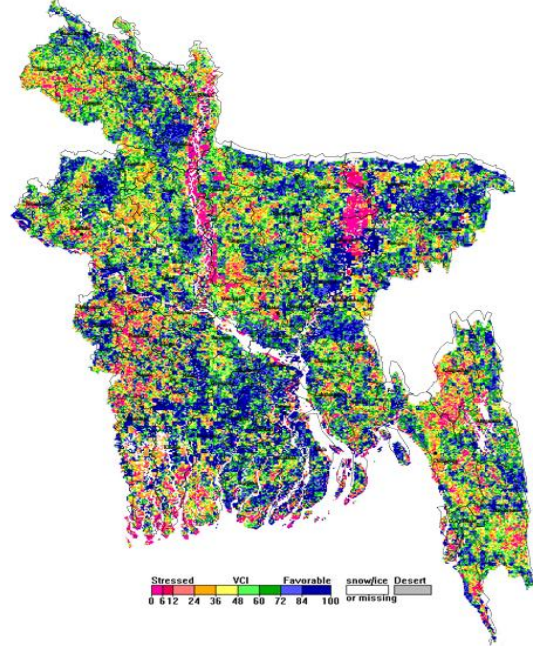


Different Satellite Products over Bangladesh

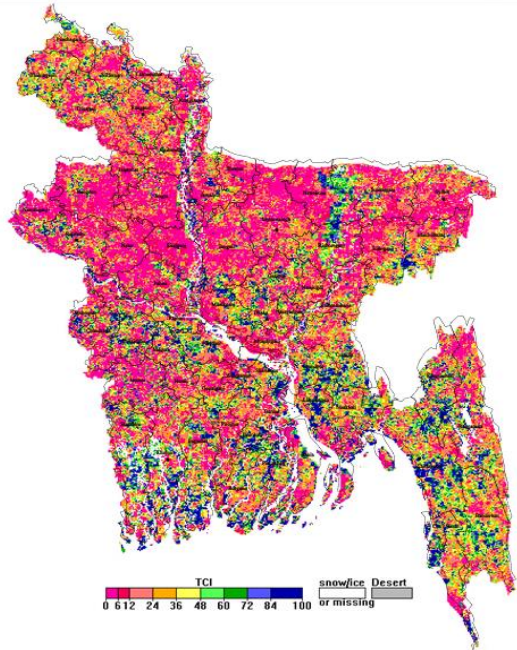
NOAA/VIIRS BLENDED NDVI composite for the week number No. 32 (04 August -10 August) over Agricultural regions of Bangladesh



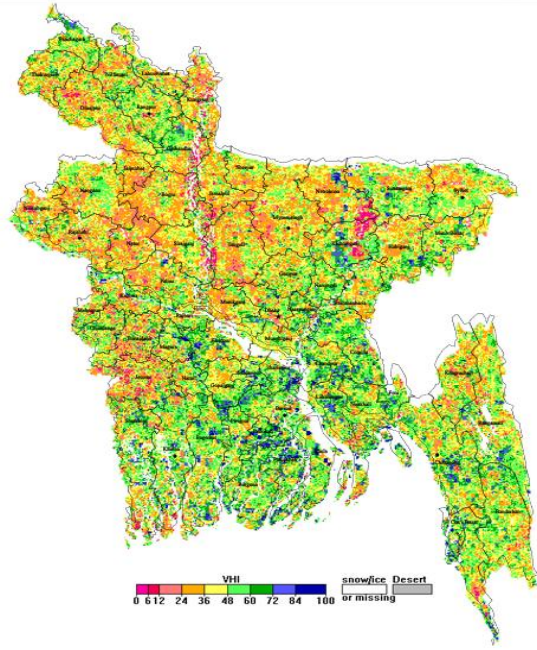
NOAA/ AVHRR BLENDED VCI composite for the week number No. 32 (04 August -10 August) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 32 (04 August -10 August) over Agricultural regions of Bangladesh

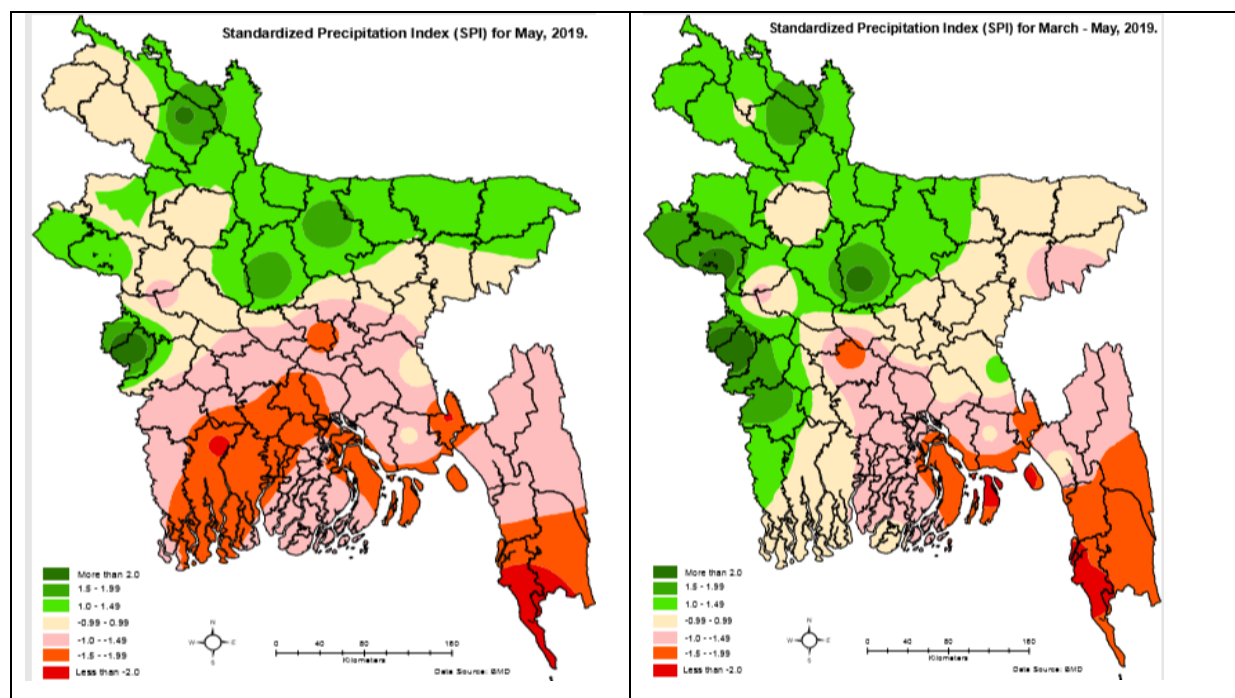


NOAA/ AVHRR BLENDED VHI composite for the week number No. 32 (04 August -10 August) over Agricultural regions of Bangladesh



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

RAINFALL AND RIVER SITUATION SUMMARY AS ON AUGUST 21, 2019

(Source: Bangladesh Water Development Board)

Outlook:

- All the major rivers of the Country are in falling trend except the Ganges.
- The Brahmaputra-Jamuna and Surma-Kushiyara rivers may continue falling in next 48 hours.
- The Padma river may remain steady in next 24 hours.
- The Ganges river may continue rising in next 48 hours

General River Condition

Monitoring Water Level Stations	93	Water Level Steady in last 24 hours	03
Water Level Rise in last 24 hours	19	Total not Reported	00
Water Level Fall in last 24 hours	71	Above Danger Level	00