



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

16 October 2019 (WEDNESDAY)
[FOR THE PERIOD 16.10.2019 - 20.10.2019]



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As per the weather forecast received from the Bangladesh Meteorological Department (BMD), southwest monsoon has already withdrawn from Bangladesh. According to BMD, during next 24 hours' rain/thunder showers accompanied by temporary gusty wind is likely to occur at one or two places over Dhaka, Mymensingh, Rajshahi, Rangpur, Khulna, Barishal, Chattogram & Sylhet divisions. As per the medium range quantitative district level weather forecast issued by BMD, there will be no rainfall or very less rainfall in different districts of the country. As a result, it is advised to apply irrigation, pesticides and fertilisers and also carry out intercultural operation. Day temperature may remain nearly unchanged and night temperature may fall slightly over the country.

As per the information received from Bangladesh Water Development Board (BWDB), all the major rivers of the Country are following below their respective danger levels. All the major rivers are in falling trend except the Brahmaputra-Jamuna, which may continue in next 72 hours. The Brahmaputra-Jamuna rivers may remain steady in next 24 hours.

Considering the realized weather along with weather forecast, following salient agromet advisories on the standing major crops, livestock, poultry and fishery are issued for different districts where dry condition prevailed during last four days & also dry condition is likely for next five days in the country.

Aman Paddy

As dry condition prevailed during last four days & also dry condition is likely for next five days, apply irrigation and maintain 5-7 cm standing water up to maximum tillering stage. At panicle initiation to flowering stages, 2-5 cm water level should be maintained.

- All the intercultural operations should be done as light rainfall is likely.
- 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.
- Last 1/3 nitrogen as top dressing should be applied 5-7 days before panicle initiation.
- Continuous monitoring of the economically harmful insects like stem borer, rice hispa, rice caseworm, gall midge, leaf roller, sheath blight should be done. For this light trap should be used. Light trap should be placed at some distance from the crop and bulb should be lightened from evening 06.30 PM to 10.30 PM and collected insects should be destroyed in the morning hours.
- For leaf roller attack spray Chlorpyrifos@1.5ml/lit of water
- For sheath blight spray Kopikonazole@0.75ml/liter of water
- For stemborer attack spray Triazophos@1.5ml/lit of water

Vegetables

Ladies finger At fruiting stage there is a chance of incidences of leaf spot, Jassid, white fly In case of spots on leaves with grey and dark margin apply carbendazim 50% WP @ 1 g/lit of water. For managing jassids and white fly Thiomithoxam 1gm/3lit. of water. Cleanliness to be maintained in the field.

Cucurbits: At fruiting stage, there is a chance of incidences of fruit fly, white fly, mosaic Collection and destruction of fruit fly infested fruits. Installation of pheromone trap @ 2/Bigha. For white fly apply clothianidin 50 WDG@ 3g/10lit. of water. For mosaic uproot the infected plant and spray systemic insecticide. Due to poor pollination fruit setting in such case apply Boron 20% @ 2g/lit. of water to enhance fertilization at fruit setting. Do not use any pesticide and insecticide during flowering and fruit setting.

Brinjal: At vegetative & fruiting stages, there is a chance of fruit and shoot borer, nematode, white fly, Jassid, fruit rot. For the management of fruit and shoot borer one application of coragen @ 4 ml/tank. Cleanliness to be maintained. Apply Thiomethoxam 0.3 SG @1g/3lit. of water to manage sucking pests infestation. For nematode problem apply Fipronil 0.3G @1.5 Kg/Bigha followed by a light irrigation or Nimitz 480 EC@ 4-8 lit/ha. could be applied against root knot nematode. For white fly and jassid, apply Acetamiprid 20% SP@1g/3lit or Thiomithoxam 0.3 SG 1g/3lit of water. Avoid touching of fruits with soil to avoid rotting of fruits.

Bitter gourd & Pointed gourd: At vegetative growth and under the present weather condition, attack of Downy mildew may be seen in the field. Mancozeb or Chlorothalonil 2 g/lit twice at 10 days interval may be sprayed to manage the attack.

Agromet Advisories for the Districts affected by recent Floods

1. Start cultivating of early winter vegetables after receding of flood water.
2. In order to minimize the impact of recent flood, it is recommended to start necessary preparation to cultivation of rabi crops.
3. Hold on all agricultural operations like application of irrigation, fertilizers, pesticides etc.
4. Provide mechanical support to banana & standing vegetables.
5. Arrange for popping of sugarcane.
6. During this time, it is advised to plant fruit trees and medicinal plants. If damaged by floods, fill the gaps by replanting. This year it is necessary to put more soil on the base of the plant, remove the infected portion of the plant, fencing with sticks, and replace the dead plants with new plants and other required activities. Advise for pruning of unwanted parts for mango, jackfruits, litchi. Also clean the leaves of coconut plant.
7. Prevent feeding the livestock with rotten grasses after flood. Instead, feed the animals with concentrate and green grasses along with vitamins and mineral supplements.
8. 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 after the receding of floods.
9. After flood livestock are generally infected by parasite, therefore, it is important to provide anthelmintic treatment (After consultation with Registered Vety. Practitioner) to the livestock to prevent parasitic infection after flood.
10. 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 District-wise Agromet Advisories are available in BAMIS Portal ([www. https://www.bamis.gov.bd/](https://www.bamis.gov.bd/))

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 16 October'19) and maximum temperature on 15 October, minimum temperature on 16 October'19 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	34.1	26.7	Rajshahi	Rajshahi	00	34.2	23.2
	Tangail	00	34.7	24.6		Ishurdi	00	33.5	23.8
	Faridpur	00	33.7	24.4		Bogura	00	33.4	25.4
	Madaripur	00	34.0	25.3		Badalgachhi	00	32.5	23.0
	Gopalganj	00	33.2	25.0		Tarash	00	33.5	24.8
	Nikli	00	33.5	24.6					
Mymensingh	Mymensingh	00	33.5	25.1	Rangpur	Rangpur	00	32.8	25.0
	Netrokona	00	32.5	25.0		Dinajpur	00	32.9	25.4
						Sayedpur	00	32.5	22.6
Chattogram	Chattogram	00	33.0	24.6		Tetulia	00	32.4	20.2
	Sandwip	00	33.0	24.9		Dimla	00	32.6	23.0
	Sitakunda	00	34.0	24.0		Rajarhat	00	32.7	23.6
	Rangamati	57	34.0	23.0	Khulna	Khulna	00	34.0	25.8
	Cumilla	00	33.5	24.5		Mongla	00	34.0	25.4
	Chandpur	00	34.2	26.4		Satkhira	00	34.0	24.8
	M. Court	00	32.7	25.5		Jashore	00	34.2	22.6
	Feni	00	33.2	23.8		Chuadanga	00	33.0	23.0
	Hatiya	02	34.0	25.0	Kumarkhali	00	33.0	25.5	
	Cox's Bazar	00	33.0	25.0	Barishal	Barishal	00	33.5	24.8
Kutubdia	00	32.0	24.6	Patuakhali		00	34.0	25.8	
Teknaf	00	33.0	25.5	Khepupara		00	33.2	25.6	
Sylhet	Sylhet	00	35.2	23.1		Bhola	00	32.9	25.1
	Srimangal	32	34.8	22.4					

Highlights:

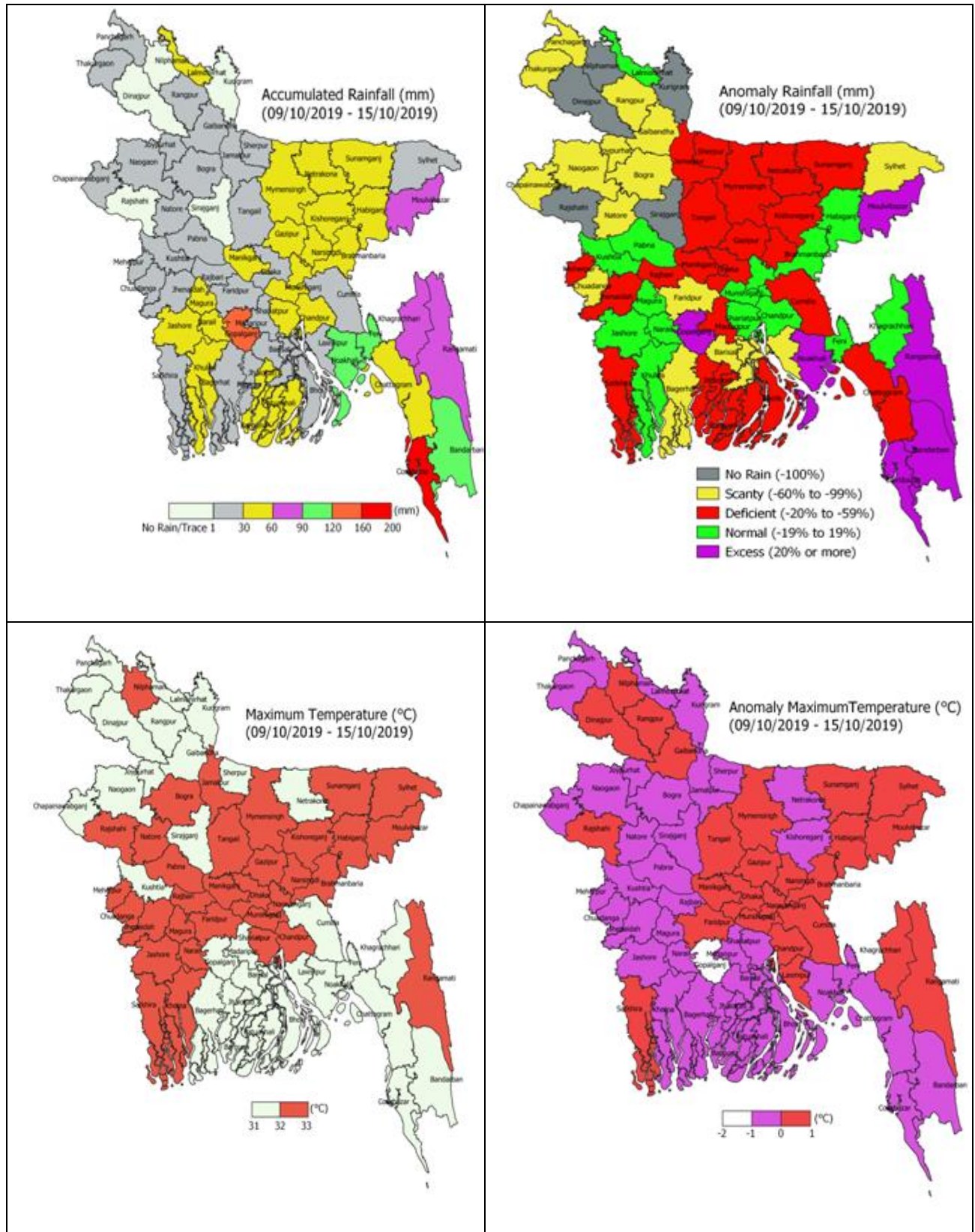
- Country average bright sunshine hour was 6.17 hours per day during last week.
- Country average free water loss during the previous week was 2.87 mm per day.

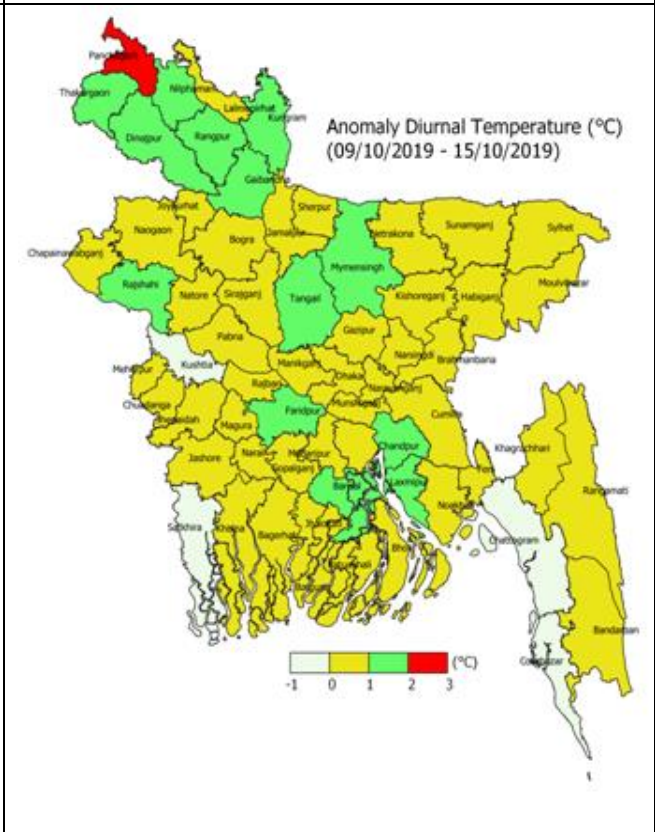
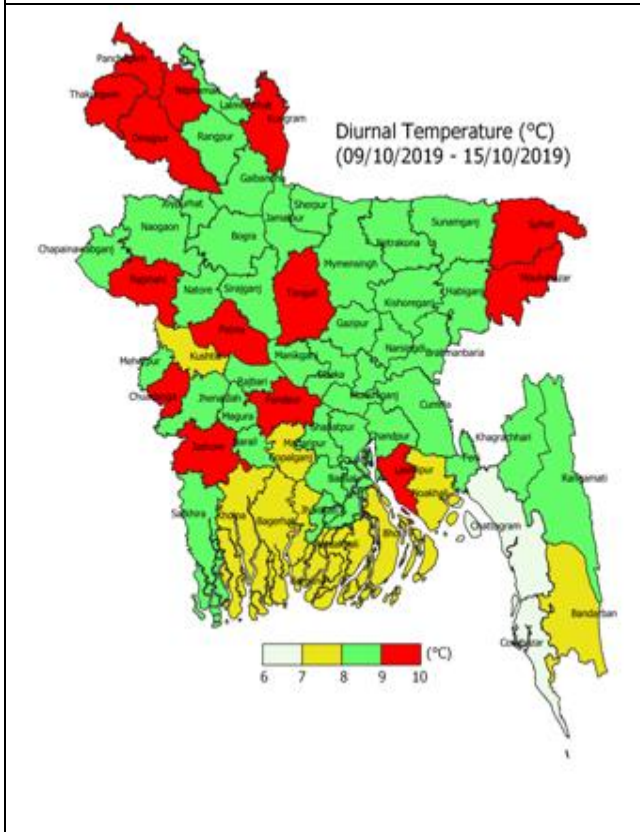
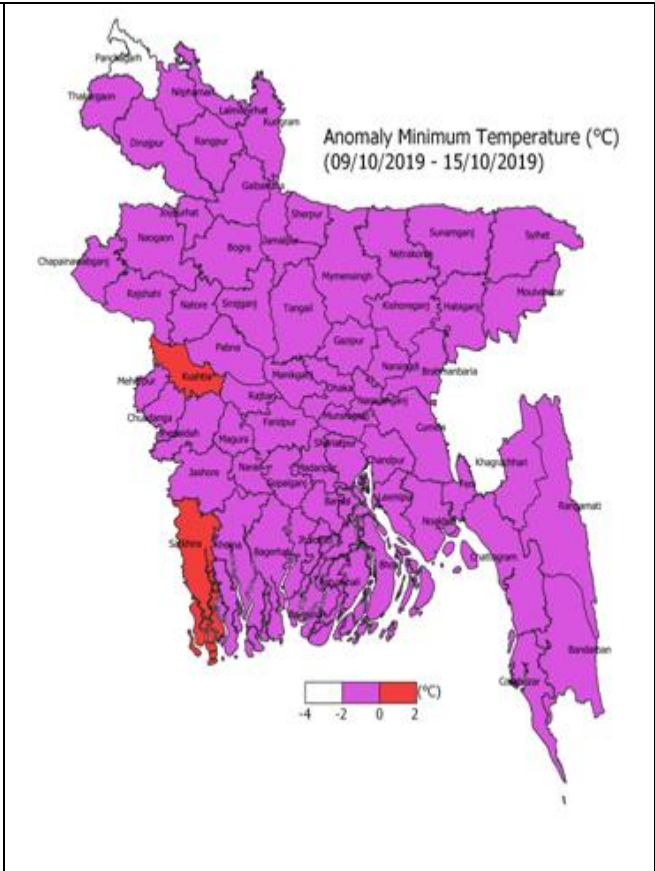
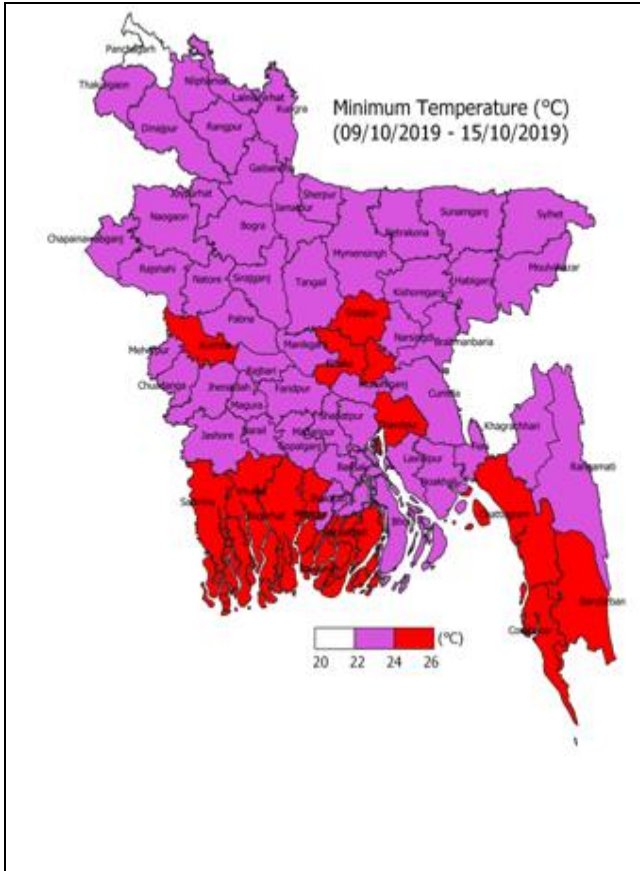
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

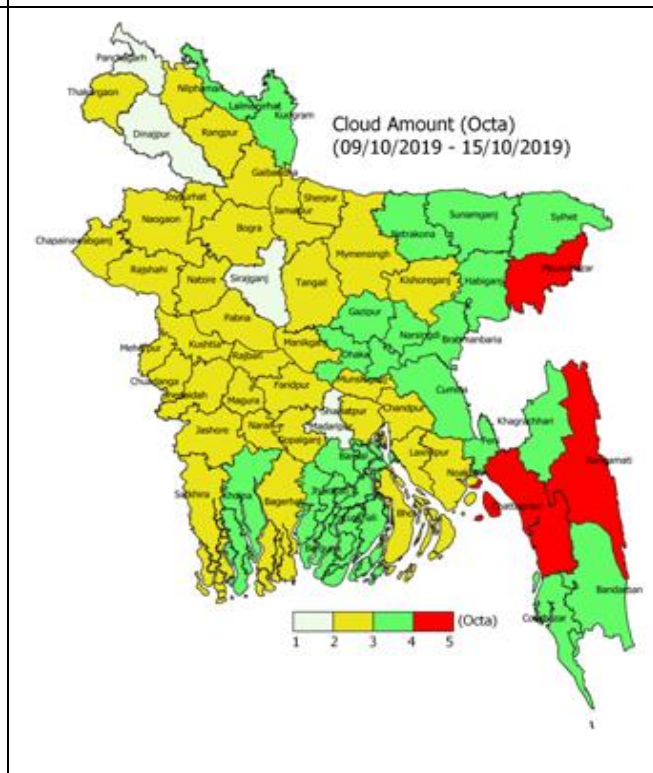
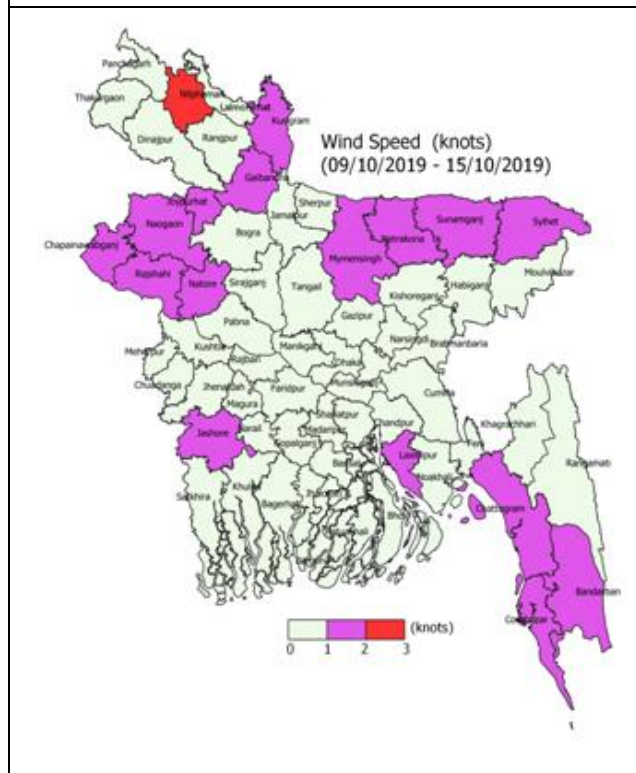
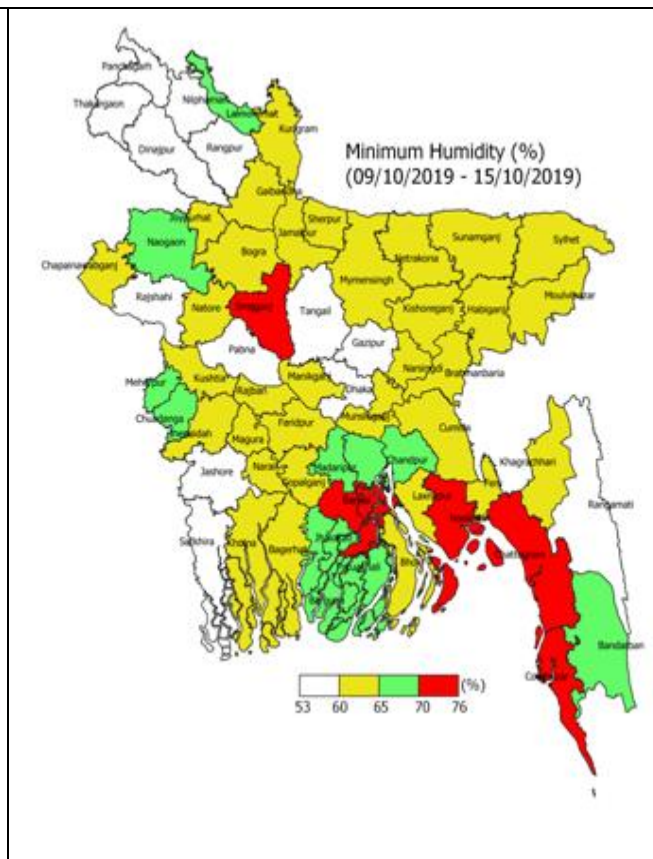
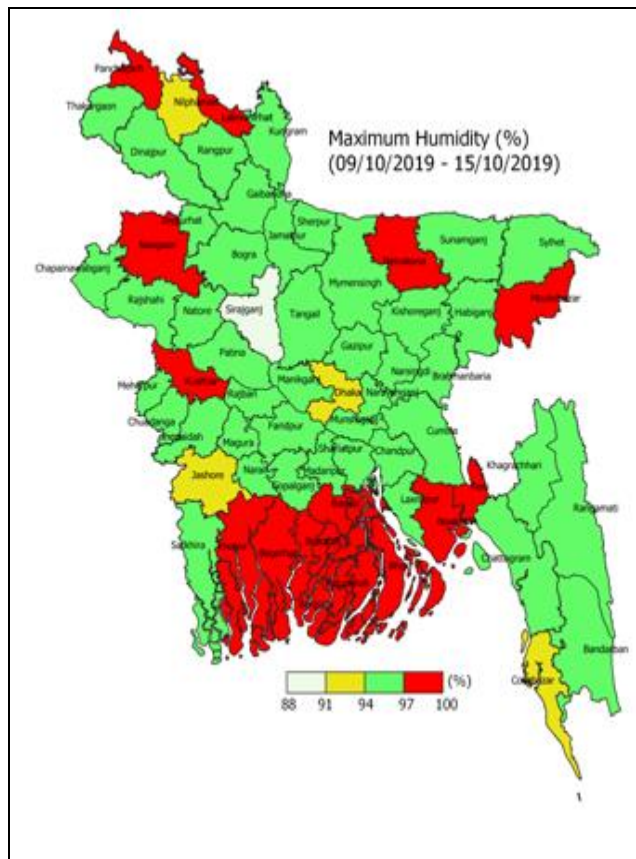
Forecast: Rain/thunder showers accompanied by temporary gusty wind is likely to occur at one or two places over Dhaka, Khulna, Barishal, Chattogram & Sylhet divisions and weather may remain mainly dry with partly cloudy sky elsewhere over the country.

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

Spatial Distribution of weather parameters for the Week ending 15 October 2019







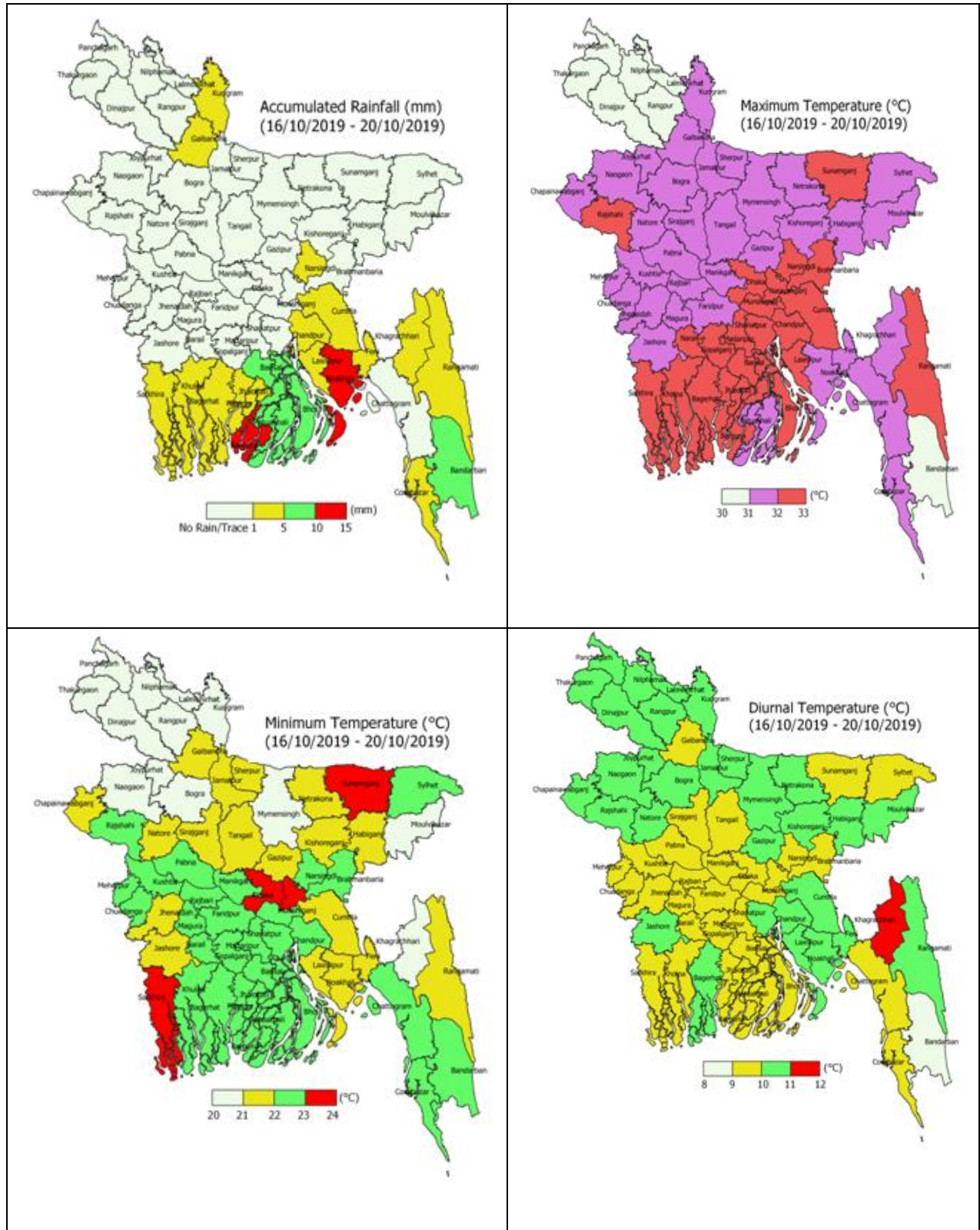
Weather Forecast and Advisory for the Period of 15.10.2019 to 21.10.2019

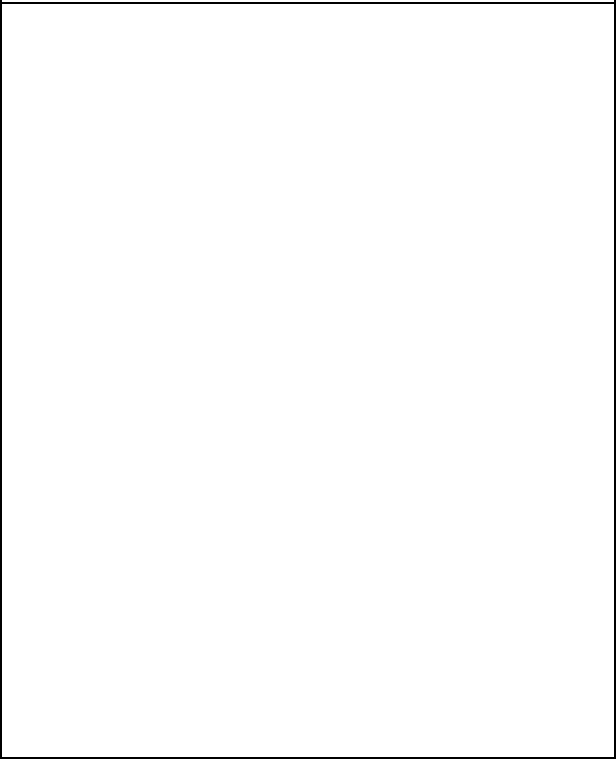
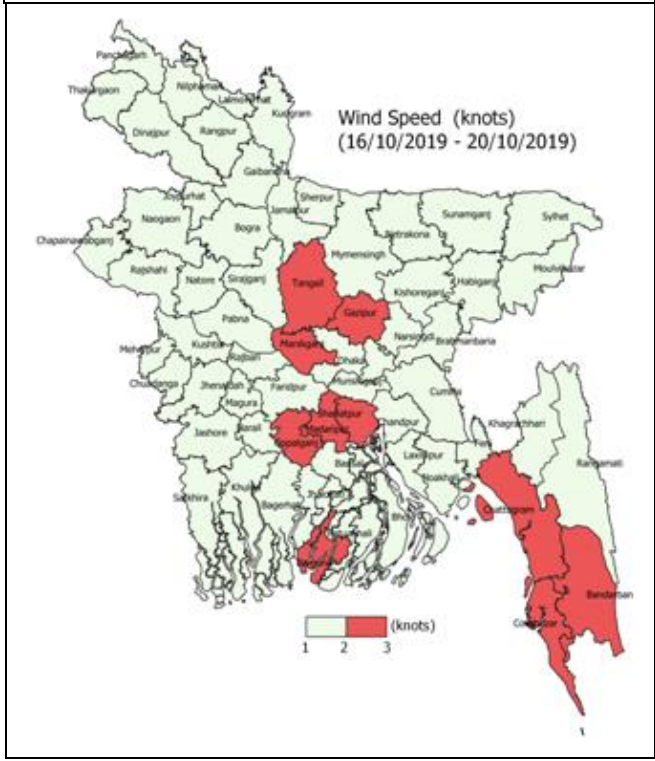
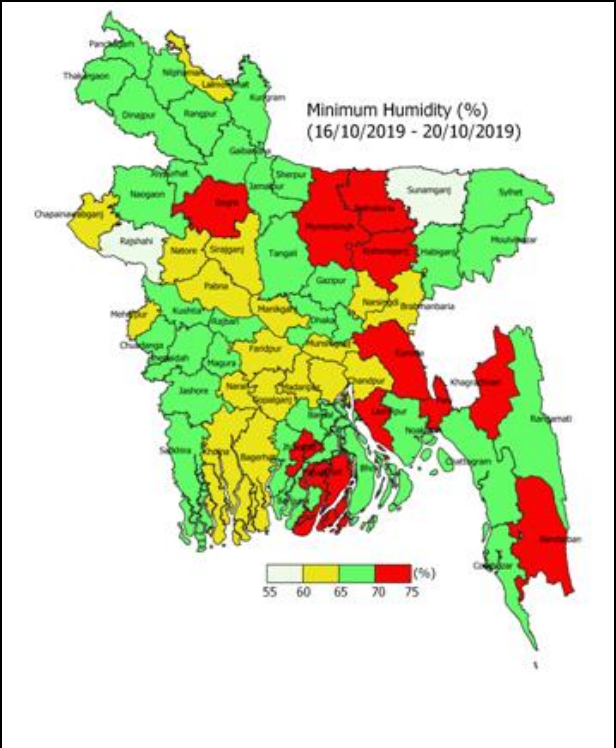
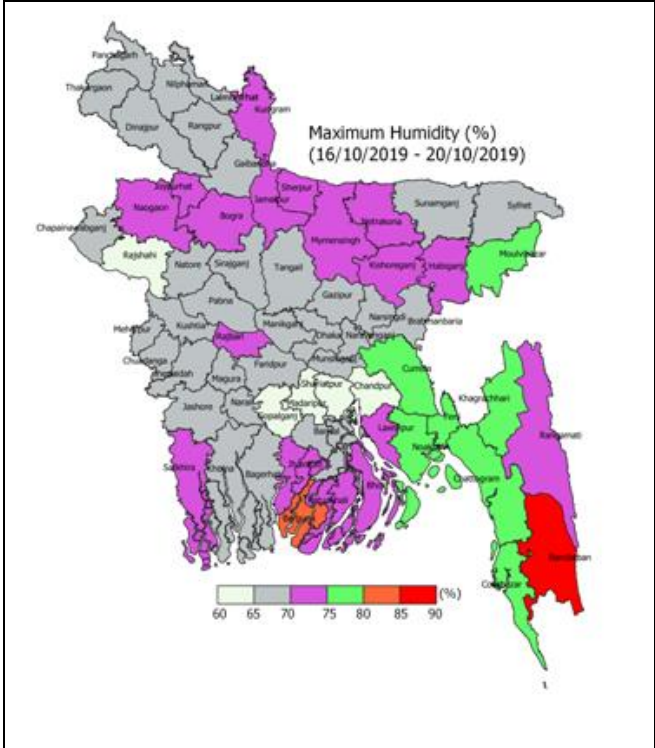
Bright sunshine hour is likely to be from 6.25 to 7.25 hours per day during this week. Average free water loss during the next week is likely to be from 3.00 to 4.00 mm per day.

Weather may remain mainly dry with temporary partly cloudy sky over the country with a chance of light (04-10 mm/d) rain/thunder showers is likely to occur at few places over Chattogram, sylhet and Barishal divisions and at one or two places over Dhaka, Mymensingh, Rajshahi, khulna and Rangpur divisions during this period.

Slight rise in Day and Night temperature during this period.

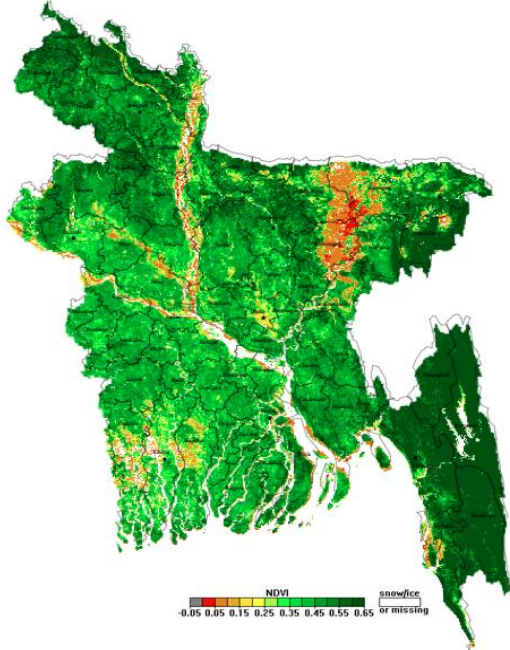
District Wise Quantitative Weather Forecast for next Five days from 16 October -20 October'19



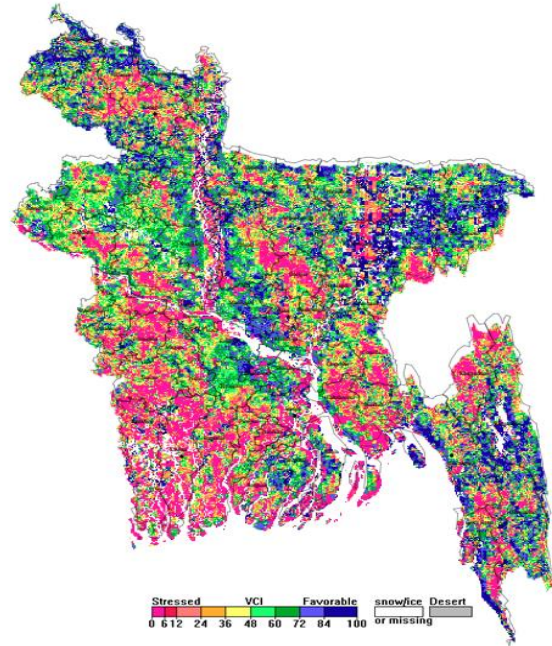


Different Satellite Products over Bangladesh

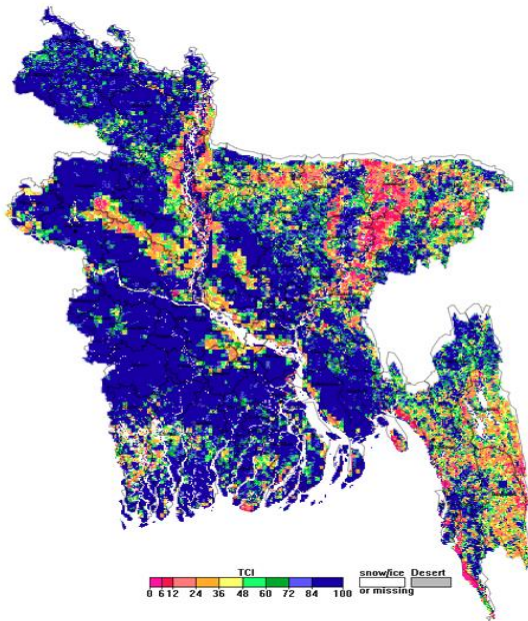
NOAA/VIIRS BLENDED NDVI composite for the week number No. 40 (28 September -03 October) over Agricultural regions of Bangladesh



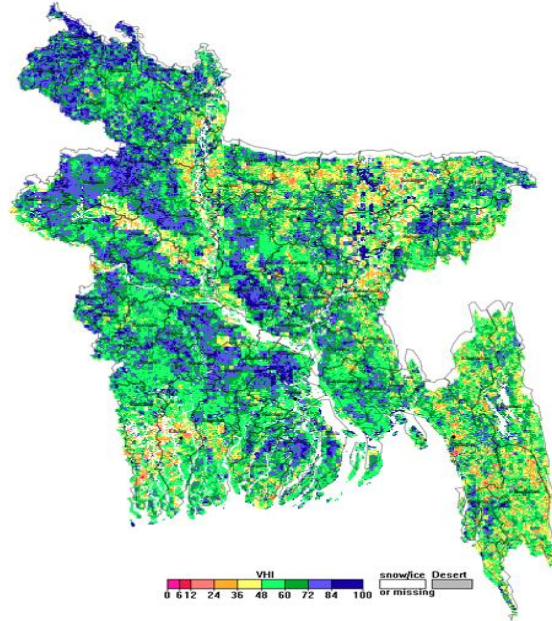
NOAA/ AVHRR BLENDED VCI composite for the week number No. 40 (28 September -03 October) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week number No. 40 (28 September -03 October) over Agricultural regions of Bangladesh

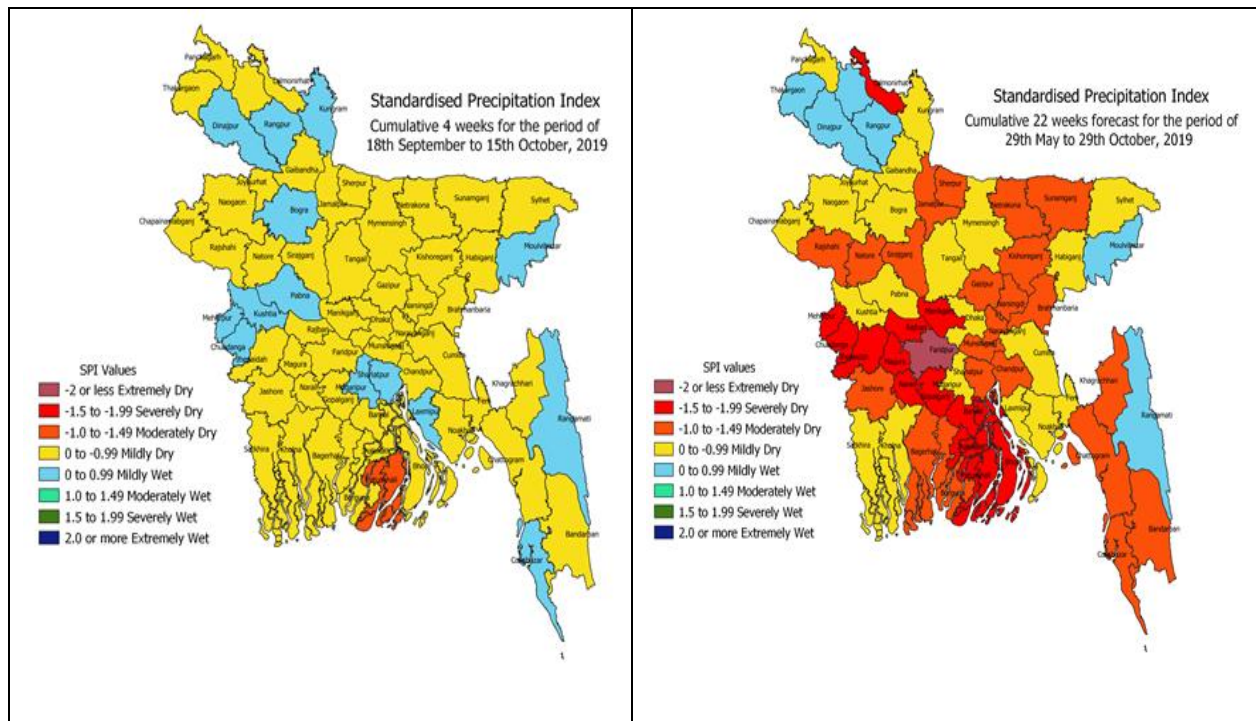


NOAA/ AVHRR BLENDED VHI composite for the week number No. 40 (28 September -03 October) over Agricultural regions of Bangladesh



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

It has been observed that during last four weeks as well as in September to October mild wet conditions prevails in districts located in northwest as well as southeast parts of Bangladesh whereas the districts in south, northeast, some parts of western side and central parts of Bangladesh are under mild to moderate dry condition.



Data source: Bangladesh Meteorological Department

RAINFALL AND RIVER SITUATION SUMMARY AS ON OCTOBER 16, 2019

(Source: Bangladesh Water Development Board)

Outlook:

- All the major rivers of the Country are following below their respective danger levels.
- All the major rivers are in falling trend except the Brahmaputra-Jamuna, which may continue in next 72 hours.
- The Brahmaputra-Jamuna rivers may remain steady in next 24 hours.

General River Condition

Monitoring Water Level Stations	93	Water Level Steady in last 24 hours	03
Water Level Rise in last 24 hours	18	Total not Reported	00
Water Level Fall in last 24 hours	72	Above Danger Level	00