



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

02 October 2019 (WEDNESDAY)
[FOR THE PERIOD 02.10.2019 - 06.10.2019]



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), the axis of monsoon trough runs through Uttar Pradesh, Madhya Pradesh, Bihar, West Bengal to Assam across central part of Bangladesh. One of its associated troughs extends up to North Bay. Monsoon is fairly active over Bangladesh and moderate over North Bay. During next 24 hours Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Khulna, Barishal, Chittagong and Sylhet divisions and at a few places over Dhaka, Mymensingh, Rangpur and Rajshahi divisions with moderately heavy to heavy falls at places over the country. As per the medium range quantitative district level weather forecast issued by BMD, there will be substantial reduction of rainfall in different districts of the country. As a result, it is advised to apply irrigation, pesticides and fertilizers and also carry out intercultural operation. Day temperature may rise slightly and night temperature may remain nearly unchanged over the country.

As per the information received from Bangladesh Water Development Board (BWDB), during next 4 days, the water level in Ganga will continue to rise. Moreover, due to increase in water level in Ganga river, water level in Padma river is also started increasing This may result in mid-level flood situation for next few days in low lying areas of Pabna, Chapai Nawabganj, Rajshahi, Natore, Kushtia, Magura. Rajbari, Manikgonj, Faridpur, Madaripur, Shariatpur & Munshigonj Districts. Under such situation, special advisories are issued for the above districts which are likely to be affected by flood situations.

Considering the realized weather along with weather forecast, following salient agromet advisories are issued for different districts, where less amount of rainfall is likely for next five days, in the country on the standing crops, livestock, poultry and fishery.

Aman Paddy

- As there is chance of less rain during next five days apply irrigation for maintaining 5-7 cm standing water up to maximum tillering stage. At panicle initiation stage, 2-5 cm water level should be maintained.
- All the intercultural operations should be done
- 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. 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 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.
- There is chance of attack of leaf folder /rice hispa in seedling and tillering stage. If there is one damage leaf per hill due to attack of leaf folder or appearance of one adult hispa per hill is observed, the farmers are advised to spray Chloropyriphos 20EC or Monocrotophos 40EC @ 1.5ml per litre of water.
- In some places, crops are attacked either by stem borer or leaf eating insects. To control broadcast granular insecticides like Carbofuran 3G (at 12 kg per acre) or Phorate 10G (at 4 kg per acre).

- Regularly monitor the rice fields for plant hopper infestation. If 5 or more plant hoppers per hill are observed, spray Chess 50 WG @ 170 g/acre or Confidor 200 SL @ 40 ml/acre.
- Due to persistence of high humidity and cloudy weather, false smut may appear in rice, spray with Kocide 46 DF (Chopper hydroxide) @ 500 g in 200 litres of water per acre to control false smut and after 10 days of its application spray Tilt 200 ml in 200 litres of water.
- 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, BRR1 DHAN 38, BRR1 46, Binashail, Nigershal and local varieties may be suitable under such circumstances.

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 Thiomethoxam 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 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 Thiomethoxam 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.

Special Agromet Advisories for the district Pabna, Chapai Nawabganj, Rajshahi, Natore, Kushtia, Magura, Rajbari, Manikgonj, Faridpur, Madaripur, Shariatpur & Munshigonj Districts. which are likely to be affected by flood situations.

- Raise the bund around the crop field
- Construct channels around the paddy field for drainage.
- Clean the irrigation channel for draining out extra water from the field.
- Hold on all agricultural operations like application of irrigation, fertilizers, pesticides etc.
- Do not sow the winter vegetables.
- Immediately harvest the matured vegetables.
- Provide mechanical support to banana & standing vegetables.

- Arrange for popping of sugarcane.
- Arrange boats for migration of essential food items and others from low to high land.
- Arrange for migration of livestock and poultry birds to high land.
- Maintain a good height of embankment around the pond. If possible provide net or bamboo chatai around the pond to protect from flowing out fish with flash flood.

Detail District-wise 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 02 October'19) and maximum temperature on 01 October, minimum temperature on 02 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	33.3	24.9	Rajshahi	Rajshahi	01	32.5	24.6
	Tangail	00	32.8	24.4		Ishurdi	00	32.5	24.5
	Faridpur	00	32.5	<u>22.3</u>		Bogura	00	31.5	25.3
	Madaripur	02	32.7	24.3		Badalgachhi	00	30.8	24.6
	Gopalganj	01	32.3	23.2		Tarash	30	31.7	24.4
	Nikli	24	29.5	24.5					
Mymensingh	Mymensingh	00	30.3	24.6	Rangpur	Rangpur	00	32.2	23.8
	Netrokona	04	29.0	24.8	Dinajpur	Trace	31.0	23.2	
					Sayedpur	00	31.4	23.8	
Chattogram	Chattogram	00	32.0	24.6		Tetulia	00	29.8	23.0
	Sandwip	05	29.1	24.1		Dimla	00	31.5	23.5
	Sitakunda	02	30.5	24.4		Rajarhat	00	31.3	23.1
	Rangamati	10	31.4	23.8	Khulna	Khulna	28	33.4	25.0
	Cumilla	01	30.7	24.5		Mongla	00	<u>34.5</u>	25.3
	Chandpur	02	33.0	25.5		Satkhira	00	34.0	26.5
	M.Court	11	31.2	24.6		Jashore	04	34.2	24.2
	Feni	00	31.8	24.5		Chuadanga	00	33.0	24.9
	Hatiya	05	30.5	24.5		Kumarkhali	22	Xx	24.0
	Cox's Bazar	01	30.8	23.8	Barishal	Barishal	00	33.4	25.0
Kutubdia	08	30.3	24.6	Patuakhali		09	33.5	24.9	
Teknaf	00	31.2	25.0	Khepupara		<u>85</u>	33.5	24.0	
Sylhet	Sylhet	36	28.0	23.1		Bhola	00	32.9	25.3
	Srimangal	09	31.0	23.6					

Highlights:

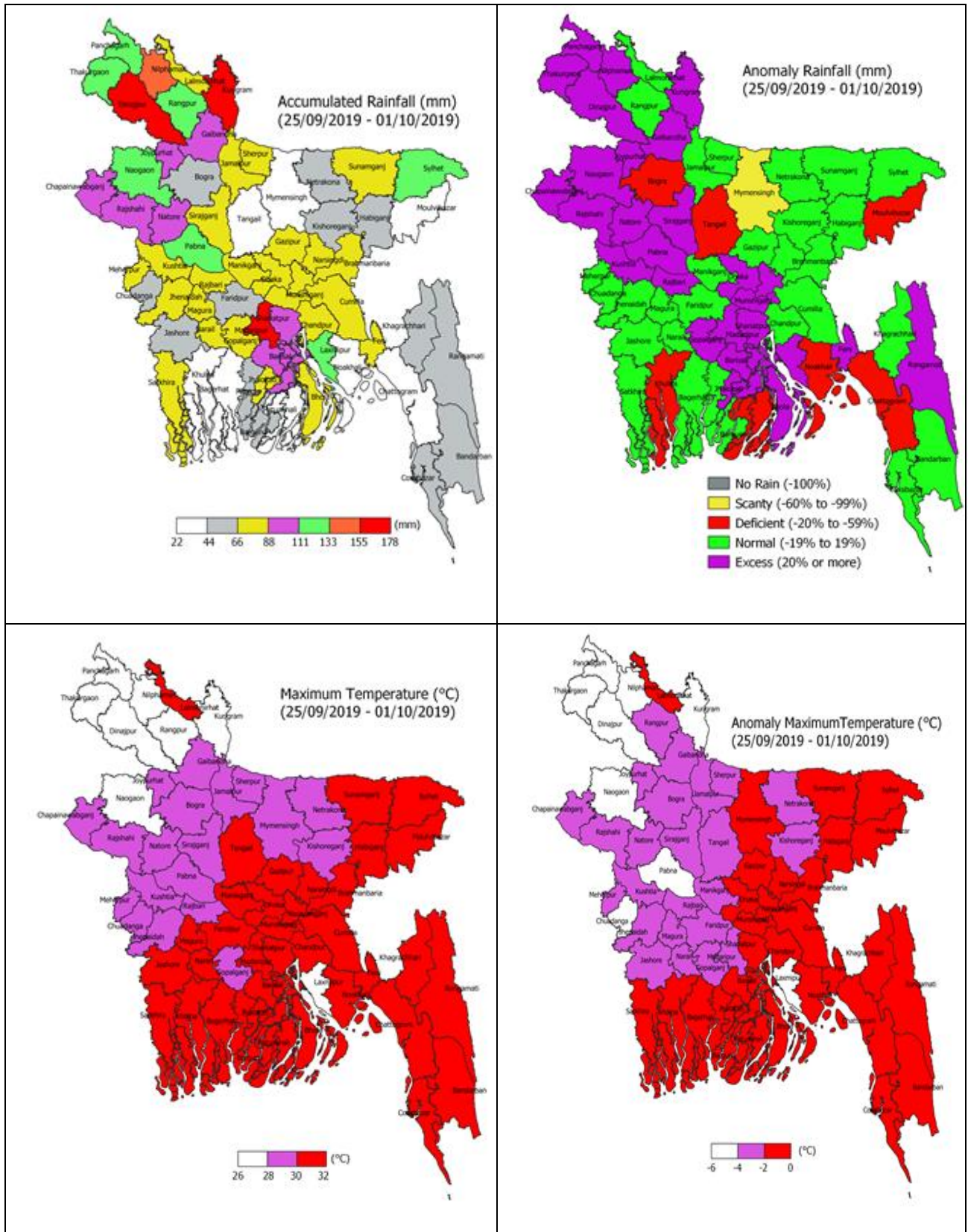
- Country average bright sunshine hour was 2.52 hours per day during last week.
- Country average free water loss during the previous week was 2.58 mm per day.

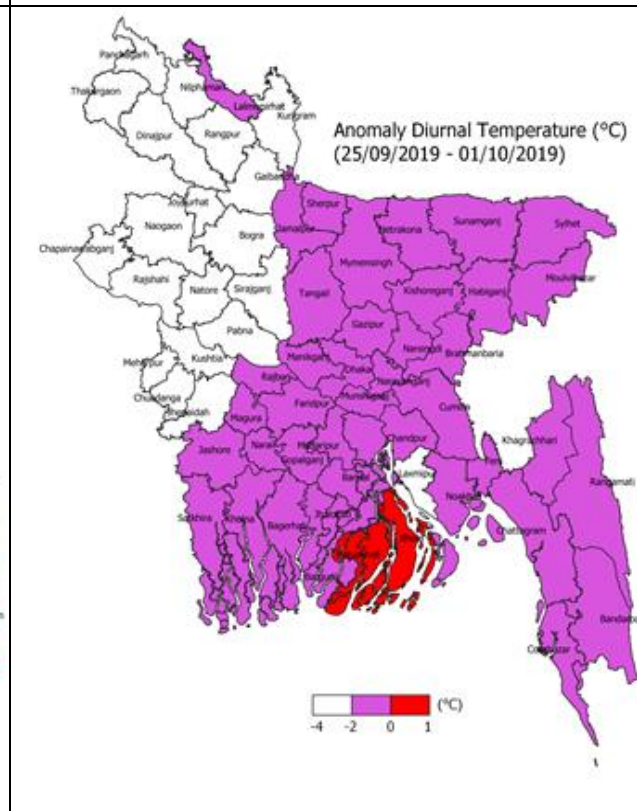
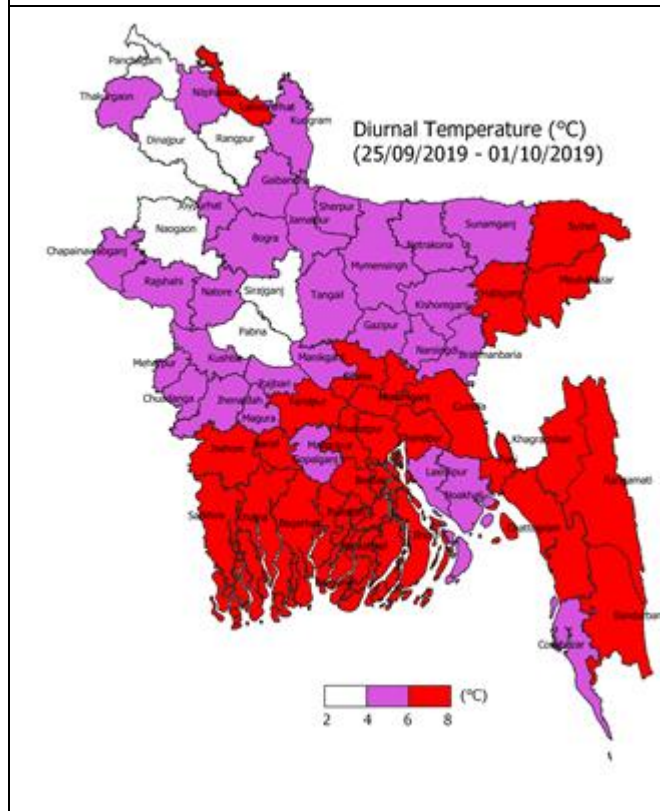
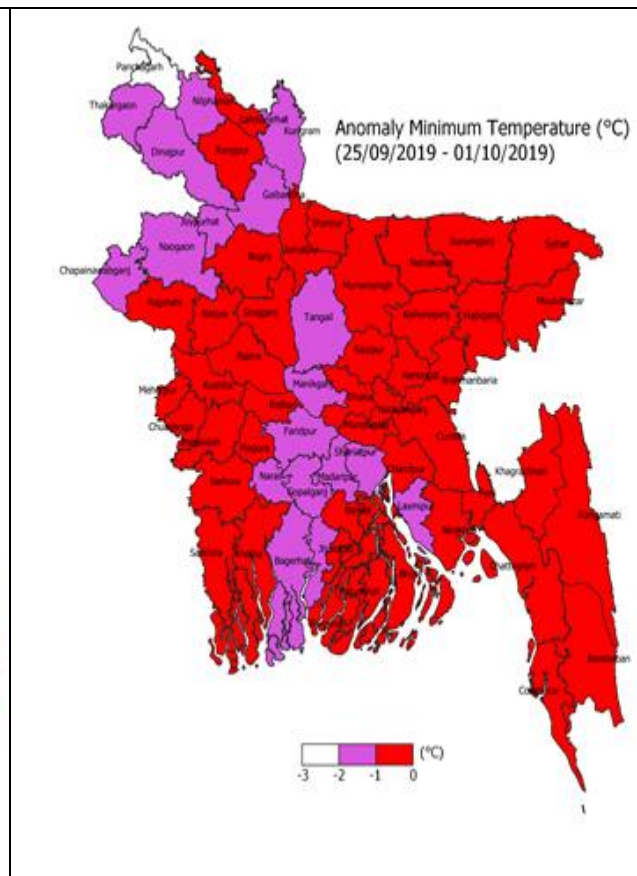
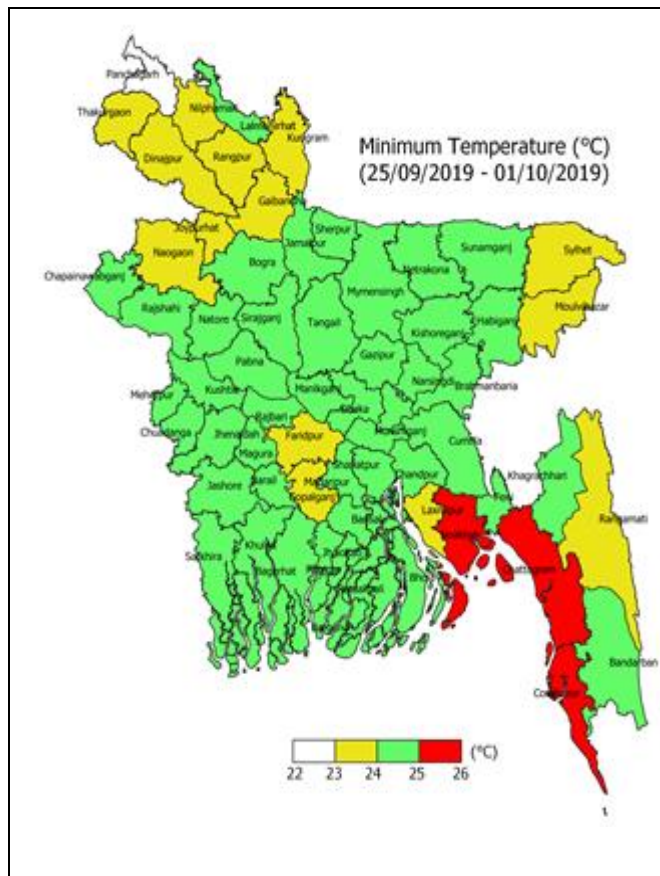
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

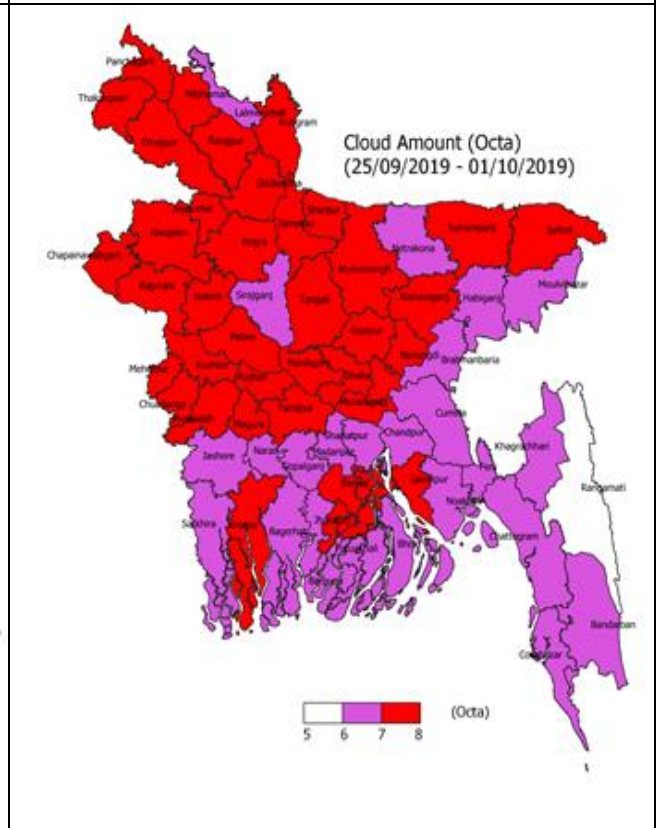
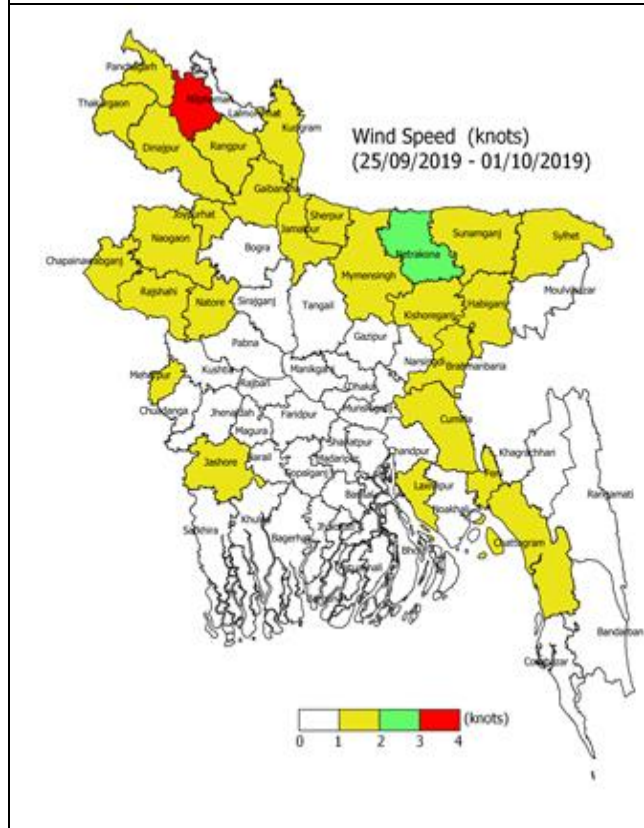
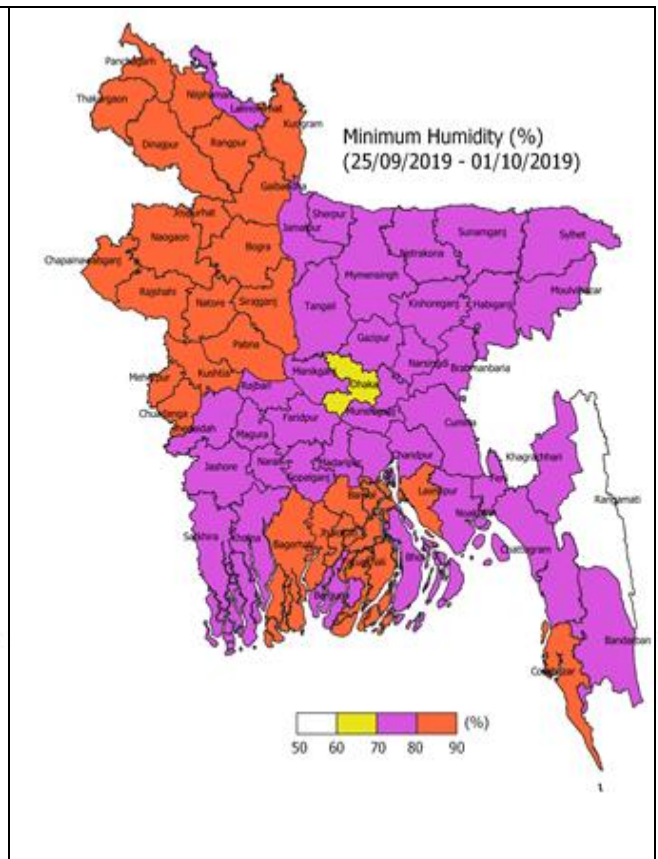
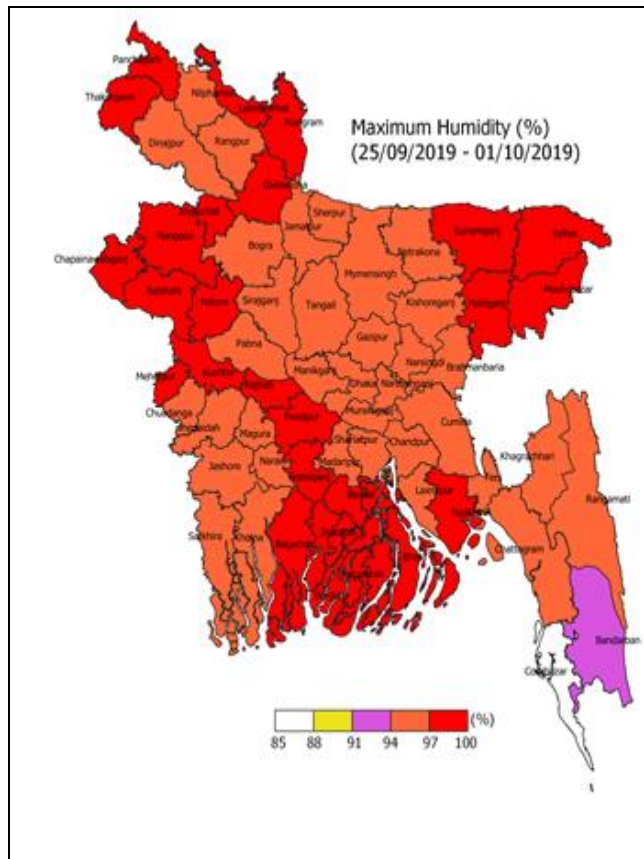
Forecast: Light to moderate rain/thunder showers accompanied by temporary gusty wind is likely to occur at many places over Khulna, Barishal, Chattogram & Sylhet divisions and at a few places over Rangpur, Rajshahi, Mymensingh & Dhaka divisions with moderately heavy to heavy falls at places over Khulna,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

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

Spatial Distribution of weather parameters for the Week ending 01 October 2019







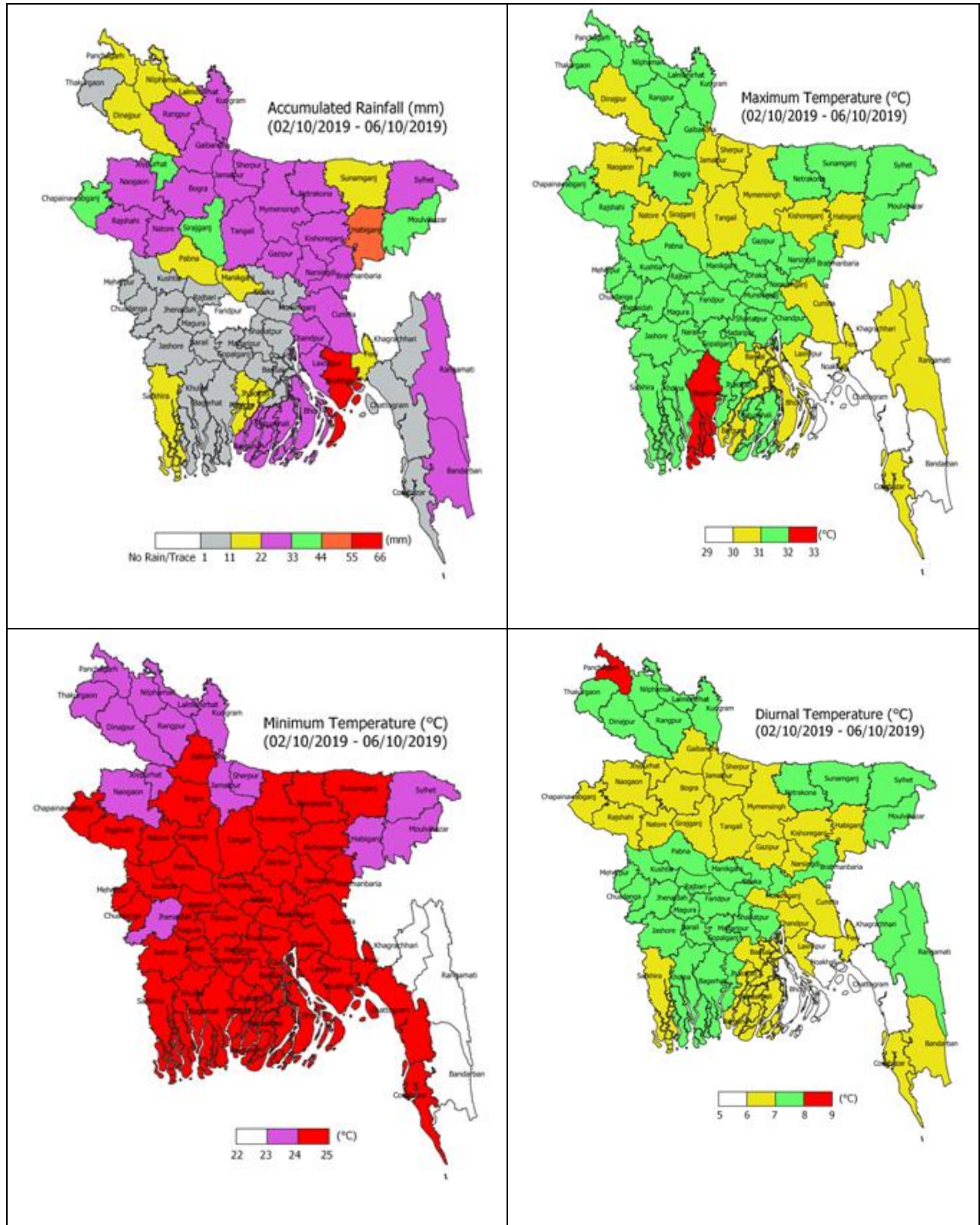
Weather Forecast and Advisory for the Period of 01.10.2019 to 07.10.2019

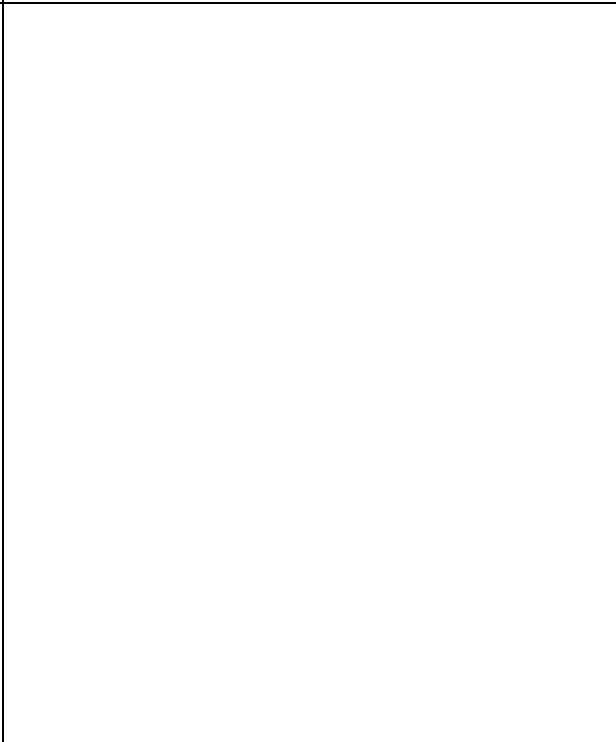
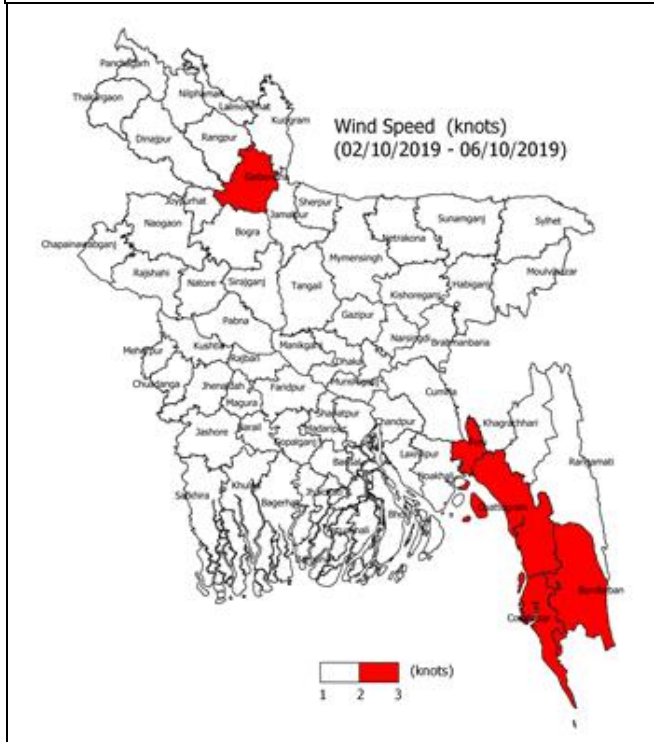
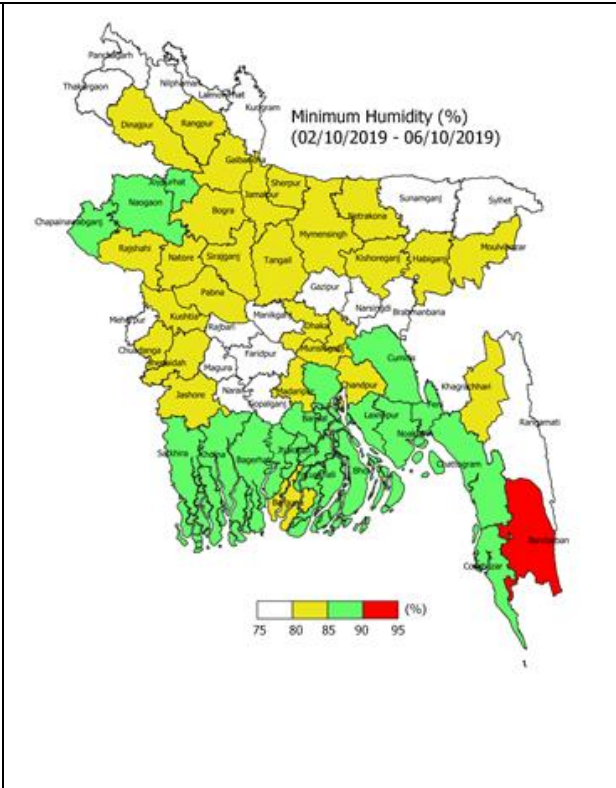
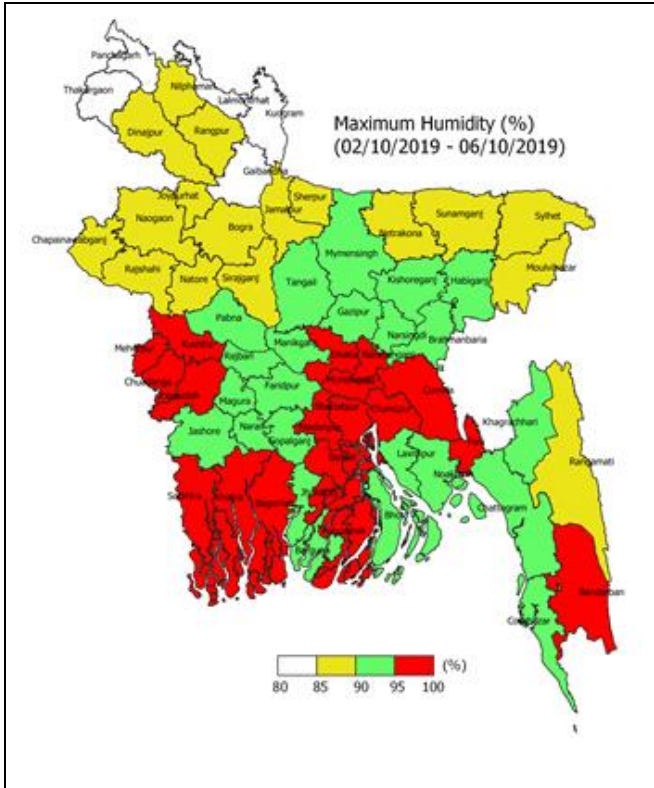
Bright sunshine hour is likely to be from 3.00 to 4.00 hours per day during this week. Average free water loss during the next week is likely to be from 2.25 to 3.25 mm per day.

Moderate (11-22 mm/d) to moderately heavy (23-43 mm/d) rain/thunder showers is likely to occur at many places over the country, with chances of heavy (44-88 mm/d) falls at places over the country during this period.

Slight falls in Day and Night temperature during this period.

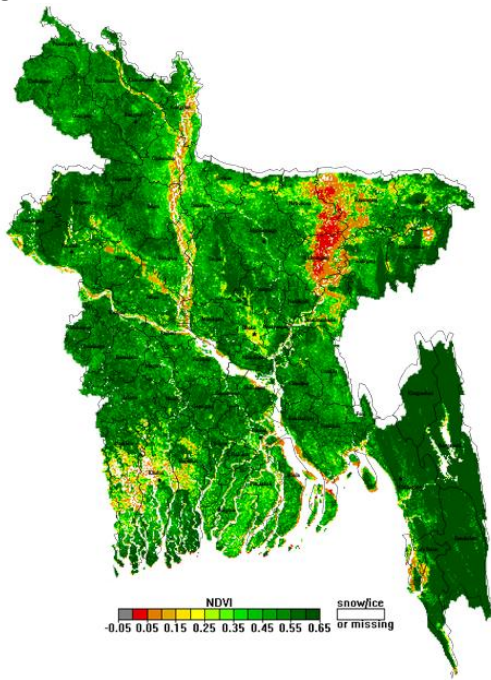
District Wise Quantitative Weather Forecast for next Five days from 02 October -06 October'19



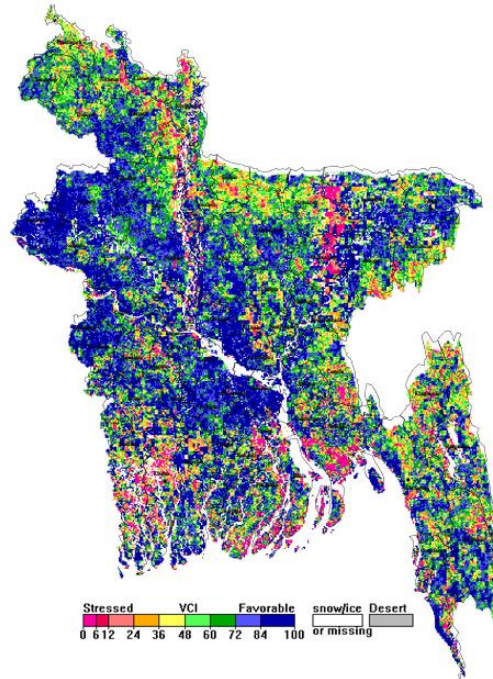


Different Satellite Products over Bangladesh

NOAA/VIIRS BLENDED NDVI composite for the week number No. 38 (14 September -20 September) over Agricultural regions of Bangladesh

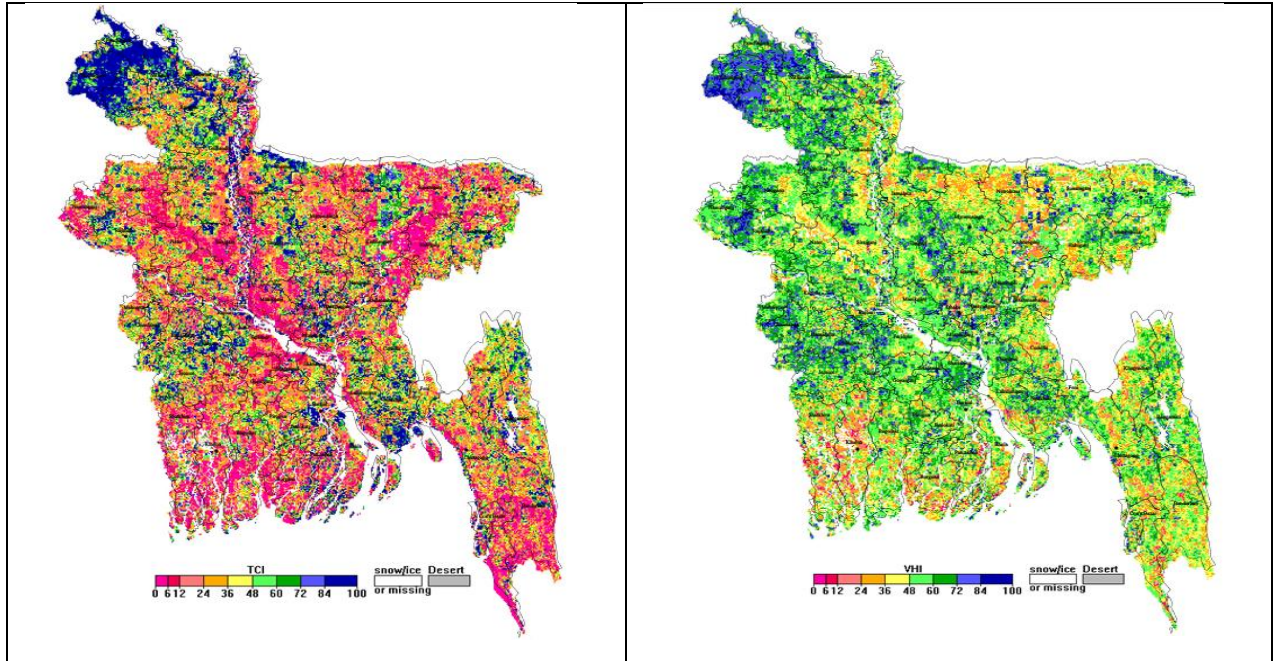


NOAA/ AVHRR BLENDED VCI composite for the week number No. No. 38 (14 September -20 September) over Agricultural regions of Bangladesh



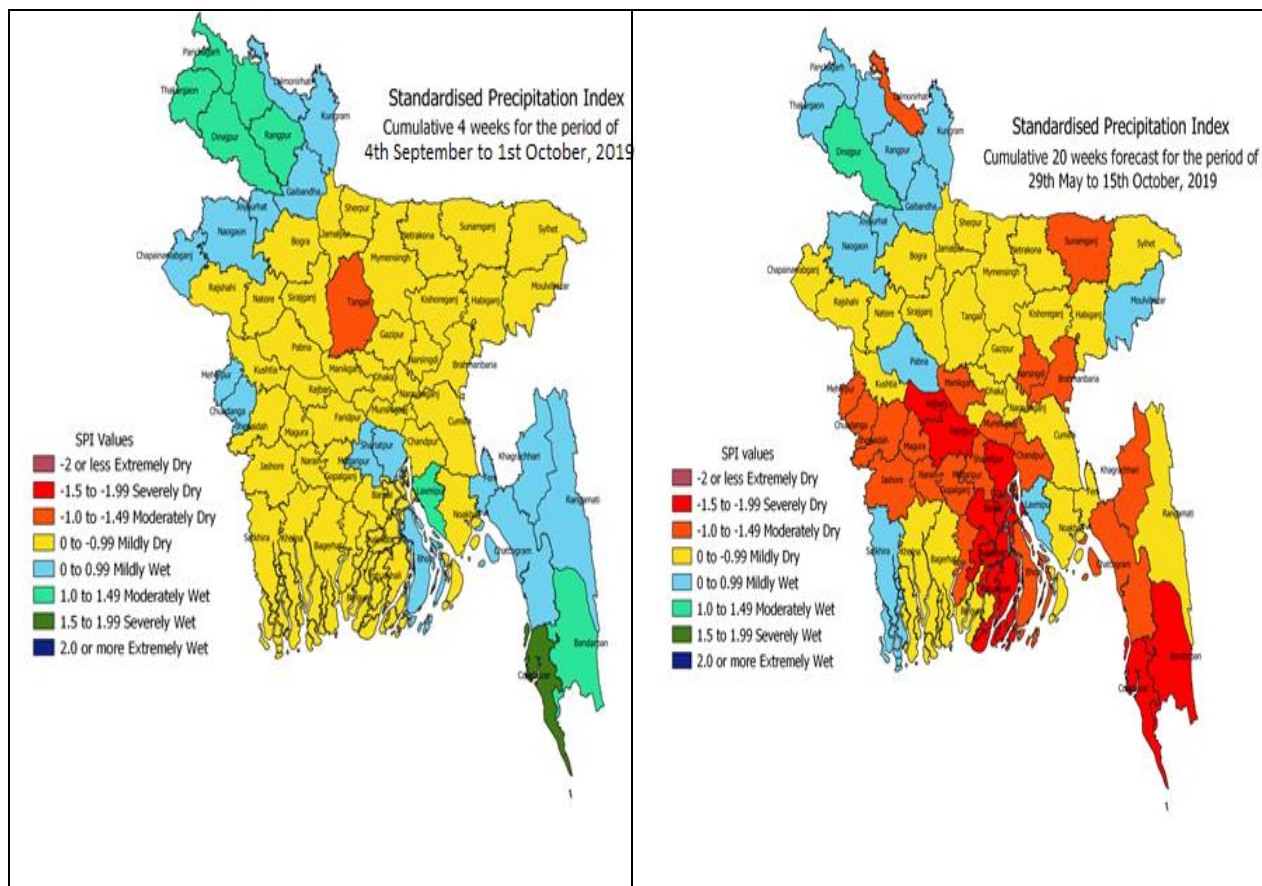
NOAA/ AVHRR BLENDED TCI composite for the week number No. No. 38 (14 September -20 September) over Agricultural regions of Bangladesh

NOAA/ AVHRR BLENDED VHI composite for the week number No. No. 38 (14 September -20 September) 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, west 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 02, 2019

(Source: Bangladesh Water Development Board)

Outlook:

- All the major rivers are in rising trend except the Brahmaputra-Jamuna.
- The Ganges-Padma rivers are in rising trend which may continue rising in next 48 hours. As a result the flood situation of the Ganges-Padma & Gorai river's low lying areas of Pabna, Kushtia, Magura, Rajbari, Manikgonj, Faridpur, Madaripur, Shariatpur & Munshigonj Districts may deteriorate.
- The Brahmaputra-Jamuna and the Surman- Kushiara rivers may fall in next 48 hours.

General River Condition

Monitoring Water Level Stations	93	Water Level Steady in last 24 hours	00
Water Level Rise in last 24 hours	56	Total not Reported	00
Water Level Fall in last 24 hours	37	Above Danger Level	04