



# NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

06 May 2020 (WEDNESDAY)  
[FOR THE PERIOD 06.05.2020 – 10.05.2020]



## 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**

As per the weather forecast received from the Bangladesh Meteorological Department (BMD) during next 24 hours ,rain/thunder showers with lightning flashes and temporary gusty/squally wind is likely to occur at many places over Rangpur, Mymensingh and Sylhet divisions and at a few places over Rajshahi, Dhaka, Khulna, Barishal & Chattogram divisions. Day and night temperature may remain nearly unchanged over the country. As per the outlook issued by BMD for next 72 hours, rain/thunder showers activity may decrease. Under heavy realised expected heavy to very heavy rainfall conditions, following salient agromet advisories are issued for next five days.

At present avoid application of irrigation, fertilizers, pesticides as well as harvesting of matured crops etc. including draining out excess water from the crop fields. Provide mechanical support to the standing banana and other horticultural crops and also stacking of vegetables. Maintain a good height of embankment around the pond. If possible, provide net or bamboo chatai around the pond to protect from flowing out with heavy rainfall.

All the following advisories should be carried after the current spells of heavy to very heavy rainfall.

### **Special Advisory for Harvesting of Boro Paddy in Haor region:**

At present around large areas in Haor region, boro paddy is in harvesting stage in this district. This part of the year, there is probability of flash flood in Haor region and ultimately may impact harvesting of boro paddy. Thus, though heavy rainfall is expected during next five days, it is advised to harvest the matured boro paddy carefully during non-rainy days or during the extended period in a day when relatively dry condition will prevail. After the harvest, immediately keep it in safe and dry place for drying of grains

### **Other Agromet Advisories**

Boro paddy (Early transplanted) at grain filling stage: There is chance of Gandhi bug and Brown plant hopper attack. For Gandhi bug spray Carbaryl 50 WP@2g/liter of water. Avoid excess irrigation in absence of rain in the field otherwise base will be rotten. Where early transplanted paddy found 80% maturity, harvest and transfer it to safe place immediately. Spray Buprofezin 25% SC@106ml/bigha for BPH attack. Maintain proper distance within the farmers during spraying.

### **Boro Paddy**

#### **Soft Dough to Harvesting Stages:**

- There is chance of Gandhi bug and Brown plant hopper attack. For Gandhi bug spray Carbaryl 50 WP@2g/liter of water. Avoid excess irrigation in the field otherwise base will be rotten. Where early transplanted paddy found 80% maturity, harvest and transfer it to safe place immediately. Spray Buprofezin 25% SC@106ml/bigha for BPH attack. Maintain proper distance within the farmers during spraying.
- Maintain 2-5 cm water level. Drain out excess water.
- Drain out water from crop field 15 days before harvesting.
- Due to large diurnal temperature, there is chance of blast disease. If noticed, adopt appropriate plant protection measures after the current spell of rainfall.

- Arrange proper solarisation within the row by stirring the plants after each 2 rows.
- Spraying should be done during afternoon hours or at morning hours from 10:00 a.m. to 11:00a.m and after the current spell of rainfall.
- As boro cultivation is going on full swing, it is advised to monitor the incidences of other pests and diseases and take appropriate plant protection measures as advised by the upazila Agriculture Office or Sub-Assistant Agriculture Officer.

## **Maize**

### **Vegetative stage (Kharif 1)**

- Postpone 3rd irrigation to 60-70 days old plant. It is advised to use the realized and rainfall forecast while irrigating the field.
- Weeding and earthing up operations may be continued
- Arrange thinning operations if the plants are in densely populated.
- All the plant protection measures should be taken up after the current spell of rainfall.
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## **Groundnut**

- Monitor the incidences of pests (hairy caterpillar, jassid, thrips, leaf miner, spodoptera & termite) & diseases (leaf spot/tikka disease, leaf rust, foot rot/stem rot, collar rot, bud necrosis) and if noticed, take appropriate preventive measure.
- Prevailing weather condition are favorable for tikka leafspot in groundnut. To control spray with hexaconazol @2ml. or carbendazim @1 g. per litre of water.
- All the plant protection measures should be taken up after the current spell of rainfall.
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## **Vegetables**

- For control of fruit and shoot borer in brinjal, it is advised to apply Chlorpyrifos 20 EC @ 20 ml or Emamectin Benzoate 5 SP @ 3 g or Chlorantraniliprole 18.5 SC @ 3 ml or Cypermethrin 10 EC @ 10 ml or Lambda-cyhalothrin 5 EC @5 ml/10 litre water. Spray Diafenthiuron 50 WP @ 10 g/10 litre water.
- Monitoring is advised for infestation of leaf hopper in okra. Spraying of Imidacloprid @ 0.5ml/litre of water is recommended for control of leaf hopper.
- Intercultural operation is may be done in summer vegetables like lady finger, pumpkin, cucumber, sponge gourd, bottle gourd.
- It is advised to monitor the tomato crop for leaf curl. Spray of Imidacloprid @ 0.5ml/litre of water during clear weather is advised and remove virus infected plants.
- All the plant protection measures should be taken up after the current spell of rainfall.
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## **Horticulture**

- Prevailing weather is conducive for incidence of hoppers, mealy bugs and scale insects in mango; to control, spray Dimethoate @ 2 ml per liter of water. To avoid fruit drop in mango, spray 1% urea (10 g urea per liter of water) or Planofix @ 1 ml per 4.5 liters of water.
- Provide hailnet for orchard crops to protect from mechanical damage. Keep harvested produce at safer places.
- It is advised to provide mechanical support in banana and papaya plants to prevent lodging. Harvest the matured and undamaged banana bunches and papaya fruits and spray Copper oxychloride @ 3 g per litre of water for control of fungal diseases.
- In case of hot weather condition, it is advised to irrigate fruiting mango plants with an interval of 7-10 days.
- Intercultural operation and mulching are advised in the standing crops as a contingency measure
- Farmers are advised to keep vigilance on insect-pest and diseases and follow proper weed control measures and cover fruit seedling with rice straw (parali)/thatches in nursery.
- To avoid fruit fall in mango crop, it is advised to spray Planofix regulator 20 ppm and 1% Calbor micronutrient.
- The prevailing weather conditions are favorable for incidence fruit fly in mango. Farmers are advised to keep Methyl Uzanol traps @ 6-7 /acre to trap the fruit fly.
- All the plant protection measures should be taken up after the current spell of rainfall.
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## **Jute:**

- Complete sowing of seeds.

## **Livestock**

- Before the onset of monsoon, immunize the farm cattle against FMD (Foot& Mouth Disease), HS (Hemorrhagic Septicemia) and BQ (Black Quarter) diseases after consultation with local veterinary doctor.

## **Poultry**

- Maintain the ambient room temperature in the poultry house. Add electrolytes (KCl, NaCl and NaCO<sub>3</sub>) in feed and water.

## **Fishery**

- After catching fish was the materials with soap water and soaked for 5 minutes with 1% Sodium hypochlorite or neem water
- Cover the mouth with mask during fishing or other practices in the pond

## Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 06 May 2020) and maximum temperature on 05 May, minimum temperature on 06 May 2020 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	Trace	35.4	22.6	Rajshahi	Rajshahi	20	35.5	21.0	
	Tangail	16	35.3	21.4		Ishurdi	12	35.8	21.0	
	Faridpur	24	34.9	20.7		Bogura	53	34.5	21.4	
	Madaripur	00	35.0	24.3		Badalgachhi	33	33.6	21.0	
	Gopalganj	30	34.6	21.2		Tarash	45	34.2	20.2	
	Nikli	30	35.0	20.5						
Mymensingh	Mymensingh	44	33.2	21.4	Rangpur	Rangpur	15	33.1	21.8	
	Netrokona	28	32.7	20.6		Dinajpur	18	32.7	21.2	
						Sayedpur	15	33.4	21.0	
						Tetulia	07	31.7	<b>20.0</b>	
Chattogram	Chattogram	00	32.8	26.5	Dimla	Dimla	11	32.0	21.0	
	Sandwip	00	33.3	21.0		Rajarhat	29	32.8	21.0	
	Sitakunda	00	33.6	26.2						
	Rangamati	00	34.0	24.0		Khulna	Khulna	01	35.4	21.8
	Cumilla	00	33.4	22.5	Mongla		00	35.9	22.0	
	Chandpur	00	35.2	22.2	Satkhira		21	35.5	21.0	
	M. Court	00	35.3	23.0	Jashore		20	<b>36.2</b>	21.2	
	Feni	07	34.0	22.0	Chuadanga		19	35.3	20.2	
	Hatiya	00	32.5	22.0	Kumarkhali	37	35.3	20.7		
	Cox's Bazar	00	33.5	26.5						
	Kutubdia	00	32.8	26.2	Barishal	Barishal	00	35.0	21.3	
	Teknaf	00	33.8	24.7		Patuakhali	00	35.7	22.0	
						Khepupara	00	34.0	23.1	
				Bhola		00	34.3	21.4		
Sylhet	Sylhet	<b>54</b>	31.9	20.6						
	Srimangal	23	33.0	22.2						

### Highlights:

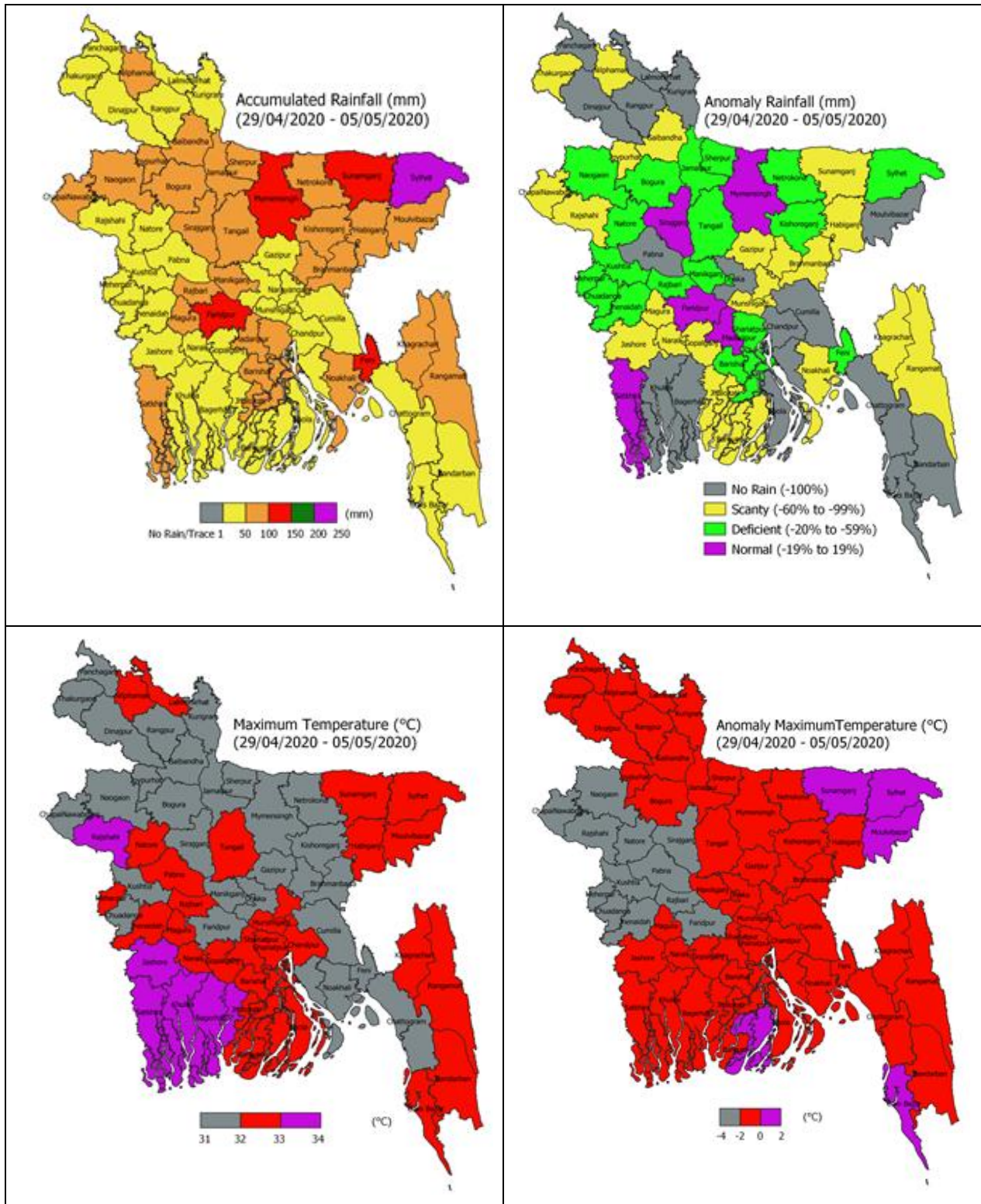
- Country average bright sunshine hour was 5.30 hours per day during last week.
- Country average free water loss during the previous week was 3.50 mm per day.

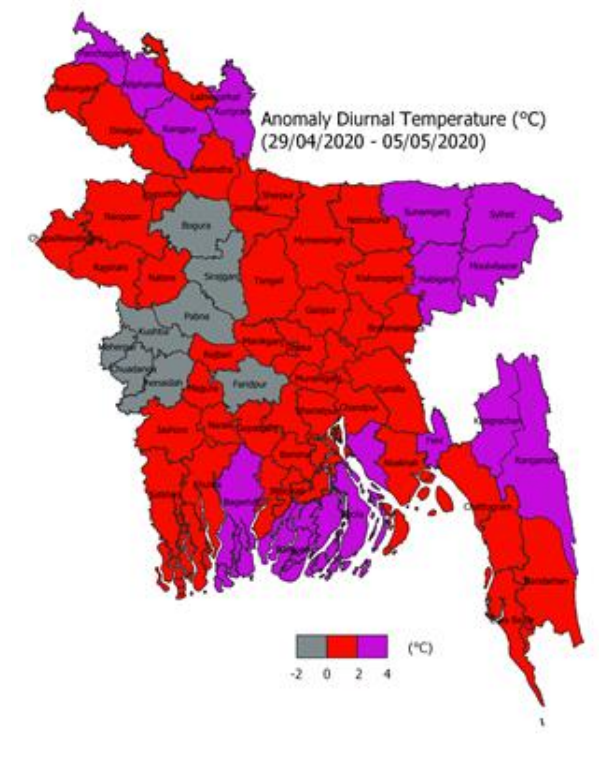
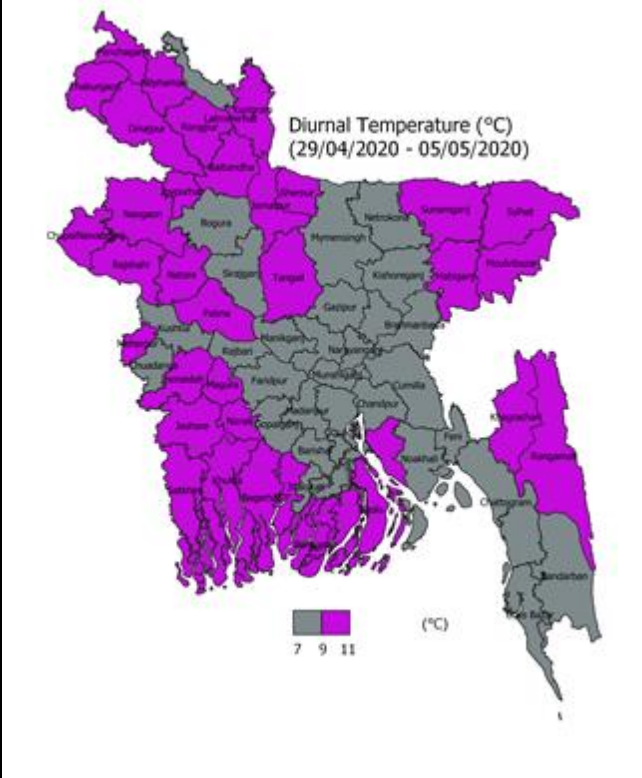
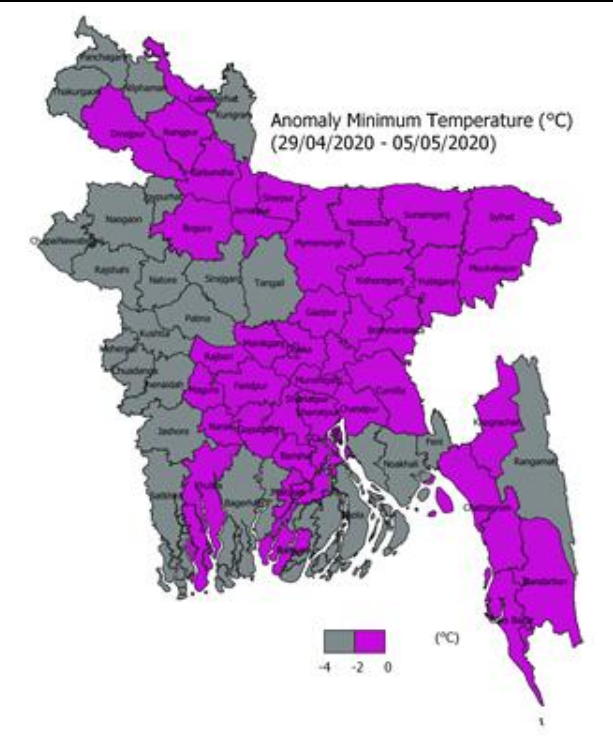
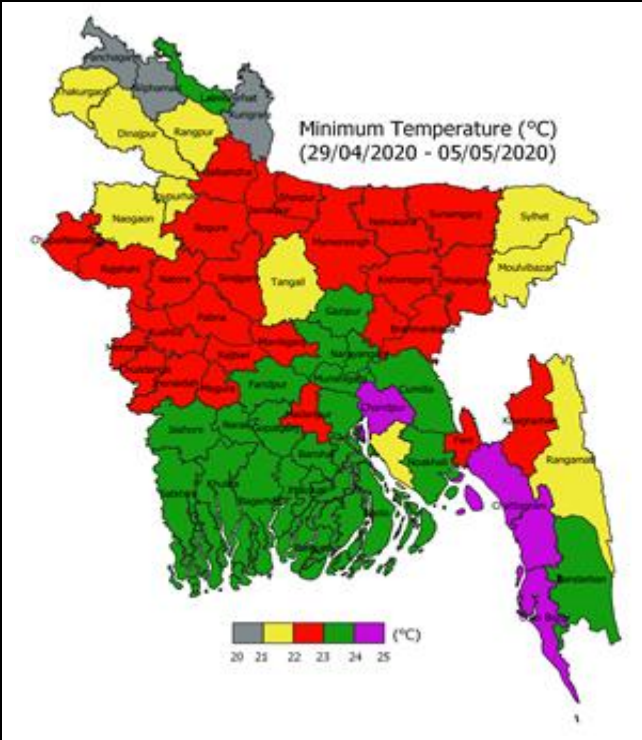
### Weather Forecast Valid for 24 Hours commencing 06 PM Today:

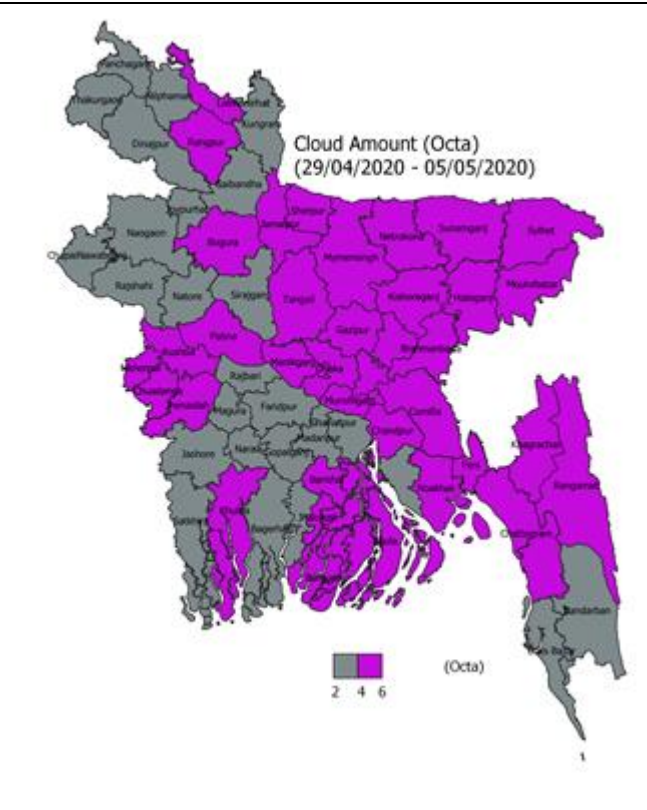
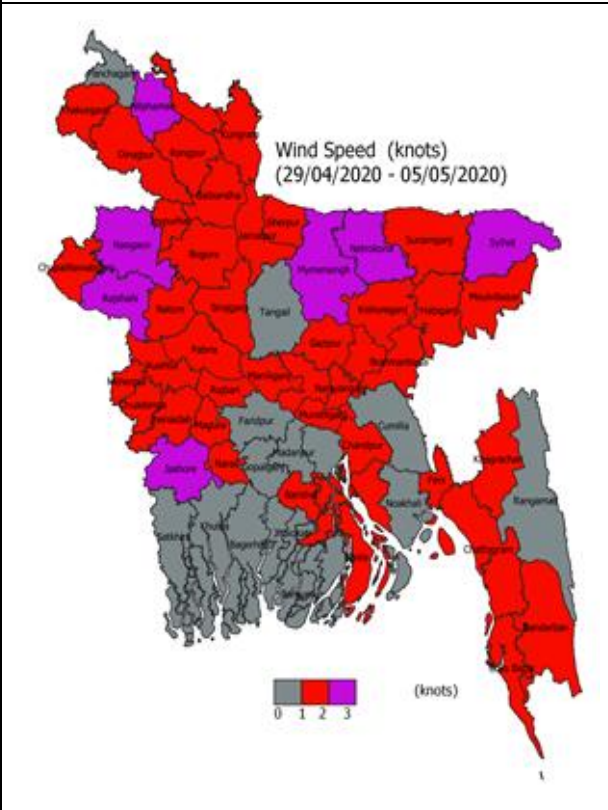
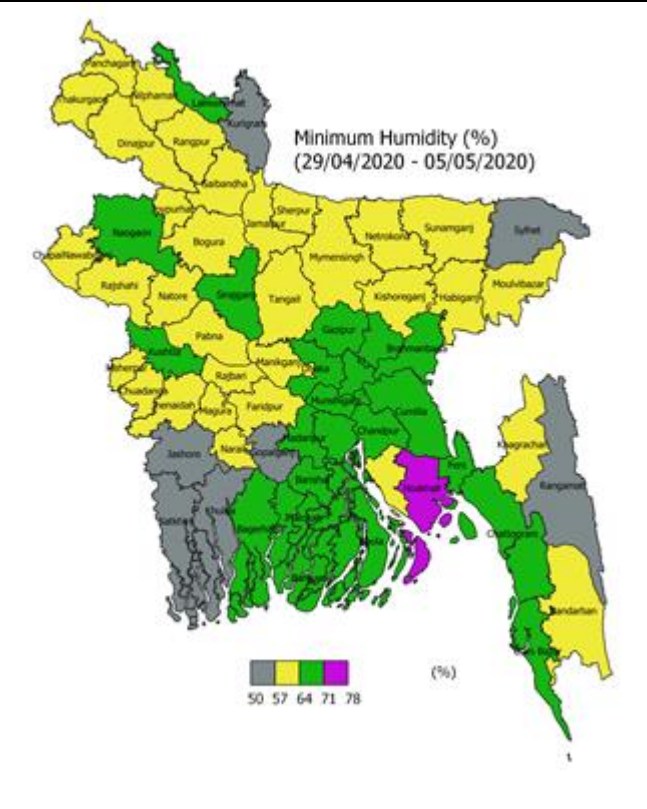
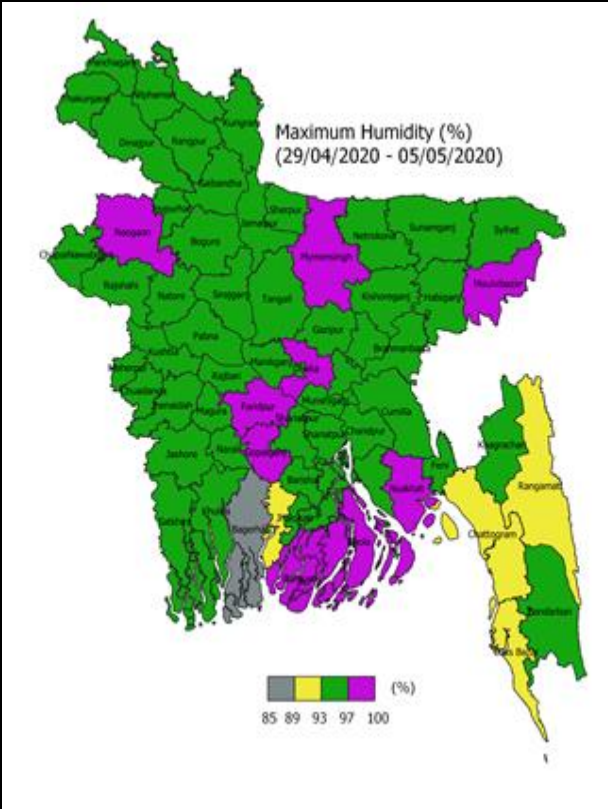
**Forecast:** Rain/thunder showers with lightning flashes and temporary gusty/squally wind is likely to occur at many places over Rangpur, Mymensingh and Sylhet divisions and at a few places over Rajshahi, Dhaka, Khulna, Barishal & Chattogram divisions.

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

## Spatial Distribution of weather parameters for the Week ending 05 May 2020







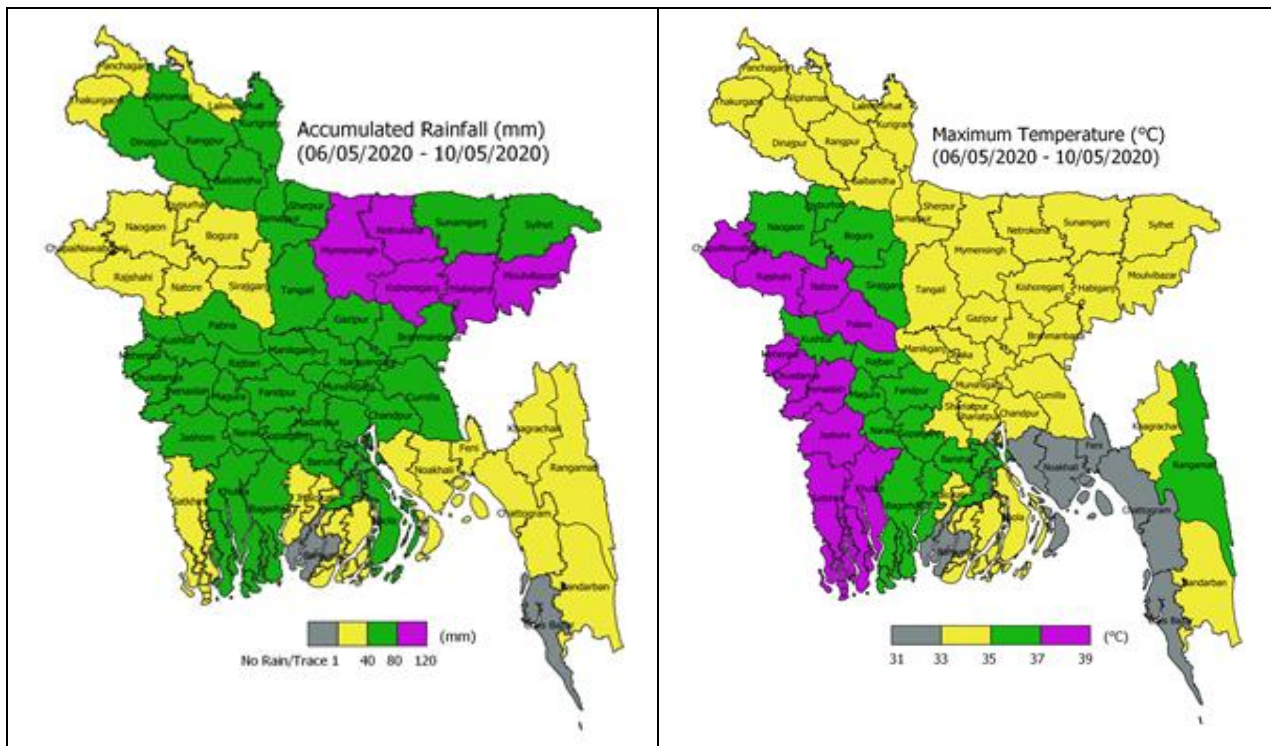


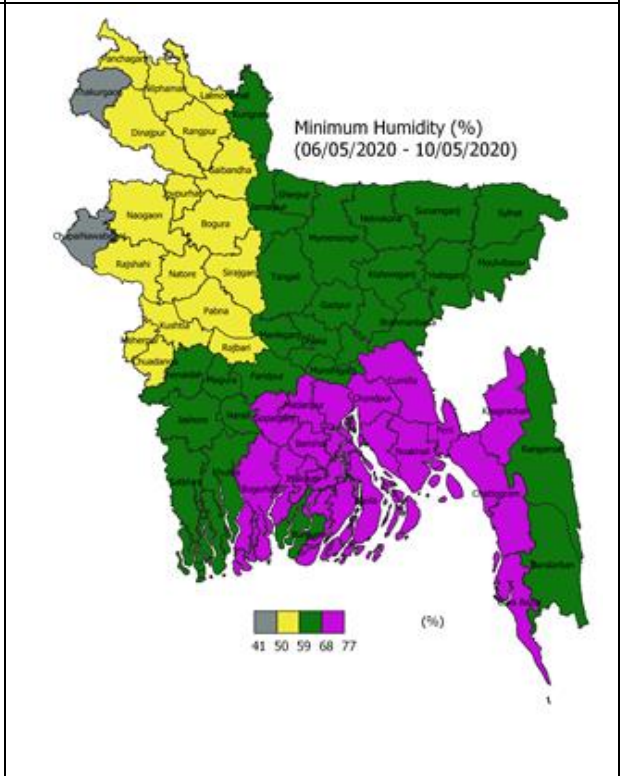
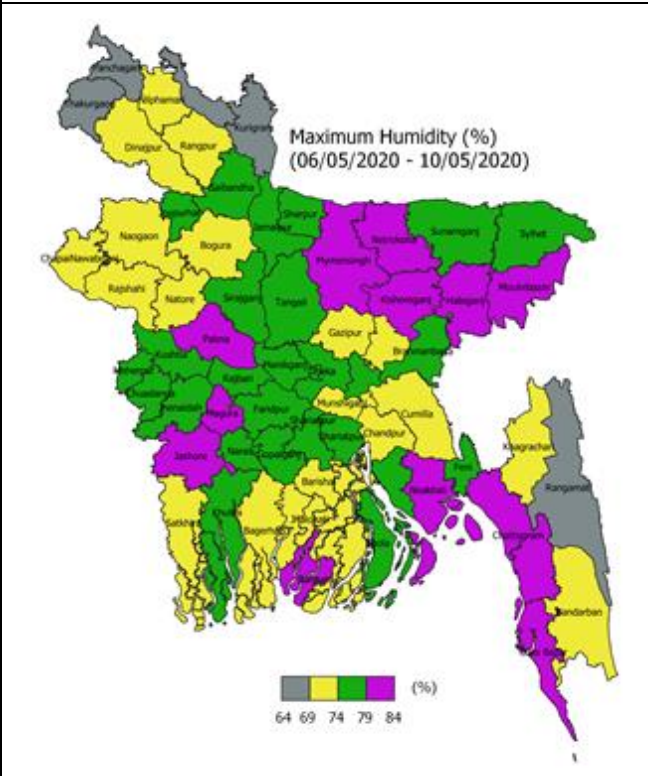
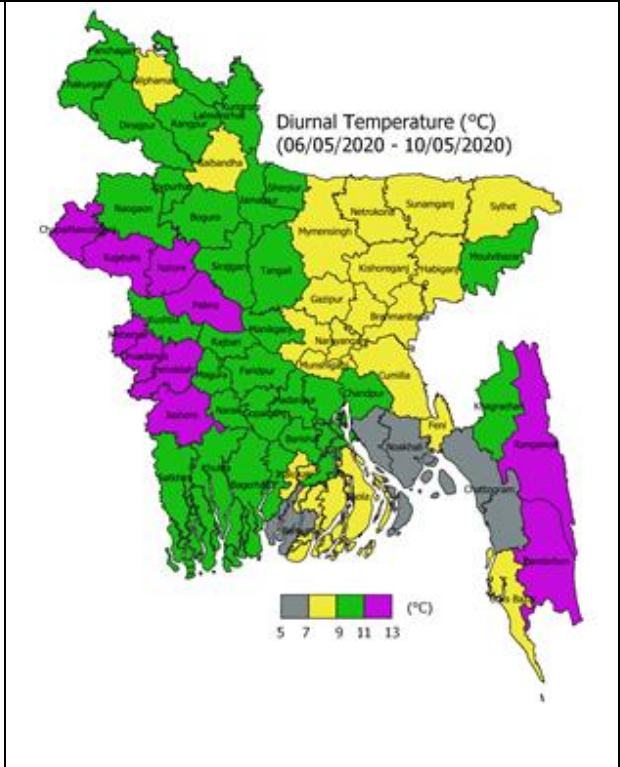
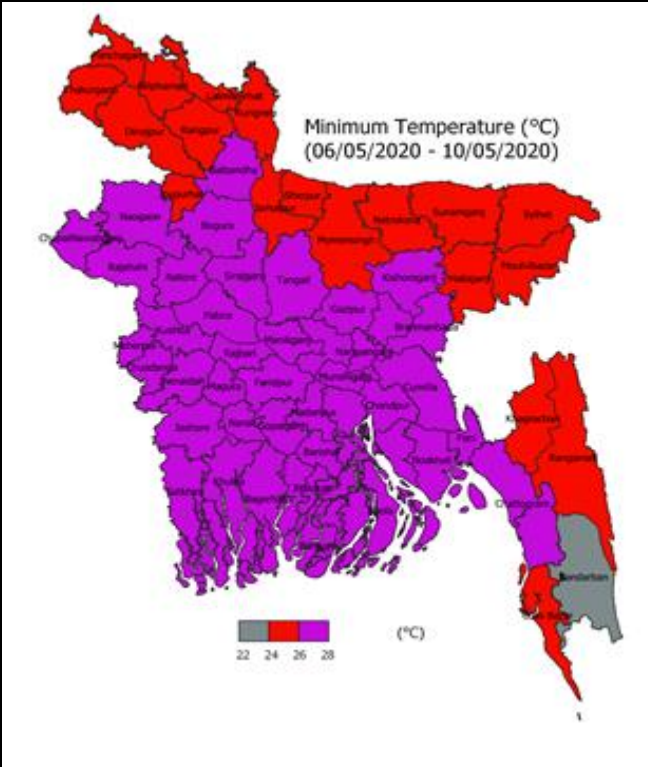
## Weather Forecast and Advisory for the Period of 01.05.2020 to 09.05.2020

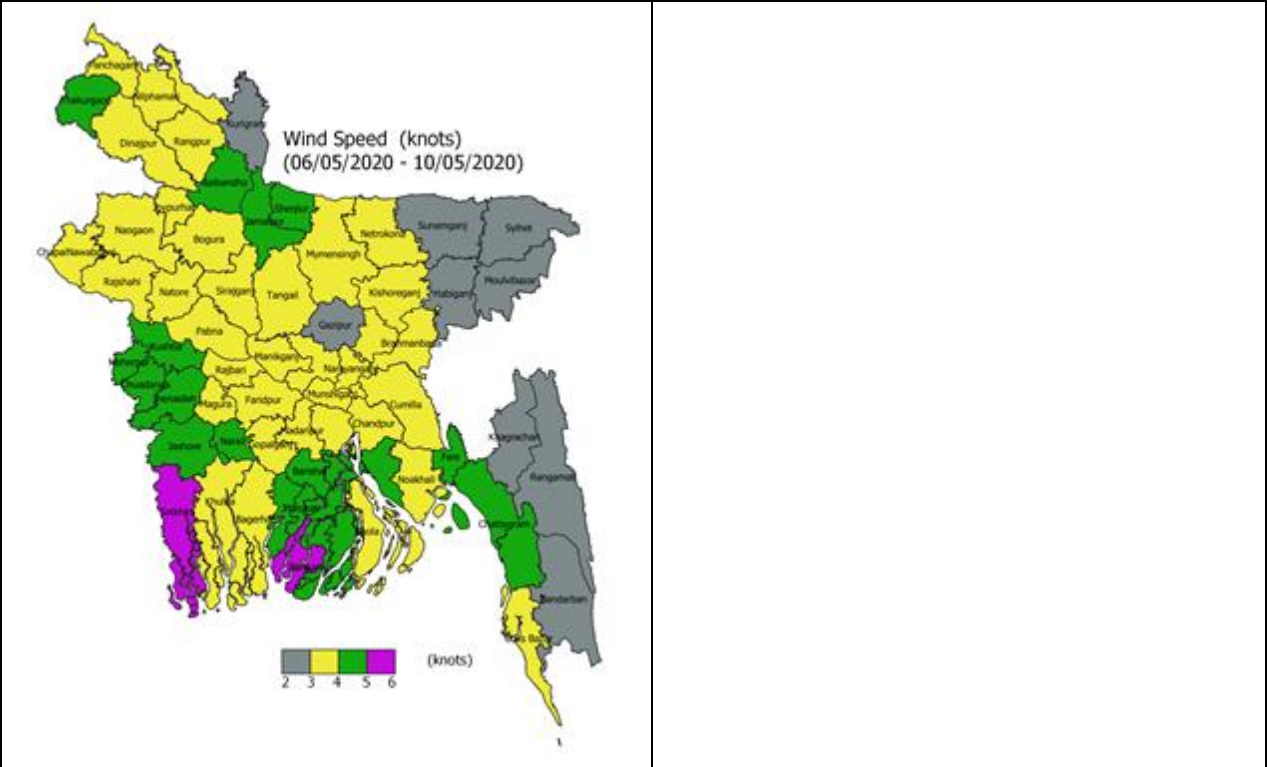
Bright sunshine hour is likely to be from 5.00 to 6.00 hours per day during this week. Average free water loss is likely to be from 3.00 to 4.00 mm per day during this week.

- Light (04-10mm/day) to moderate (11-22 mm/day) rain/thunder showers accompanied by temporary gusty/squally wind is likely to occur at few places over Dhaka, Mymensingh, Sylhet, Rajshahi, Rangpur, Khulna, Barishal and Chattogram divisions with moderately heavy (23-43 mm/day) to heavy (44-88 mm/day) falls with hail at places over the country during this period.
- Day and night temperature may remain nearly unchanged over the country during this period.

### District Wise Quantitative Weather Forecast for next Five days from 06 May -10 May'2020

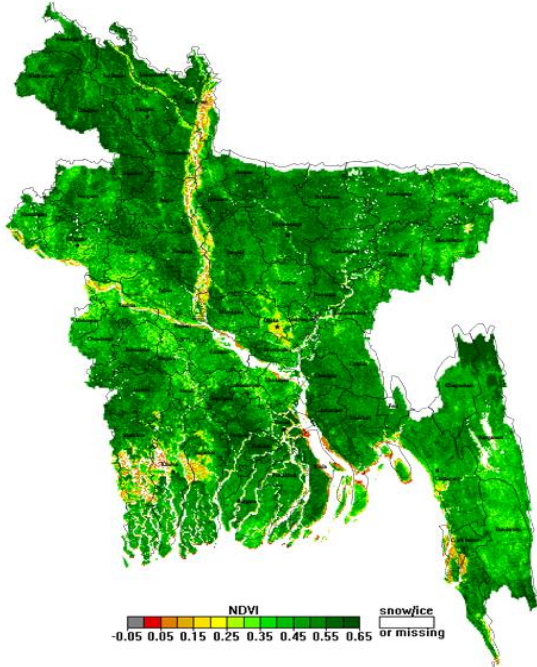




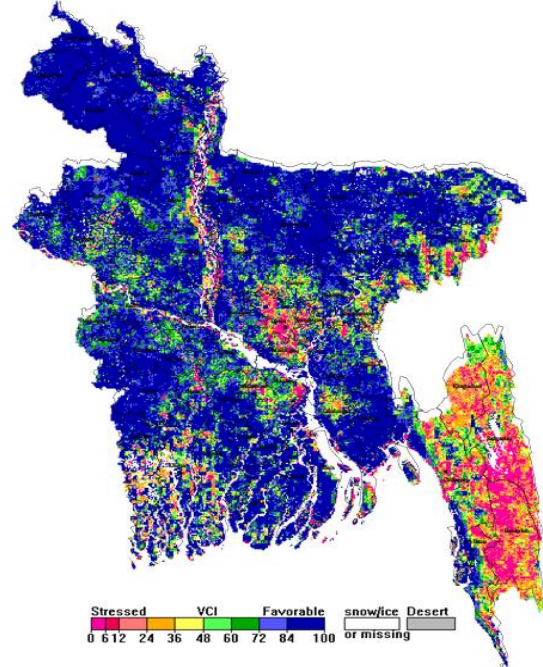


## Different Satellite Products over Bangladesh

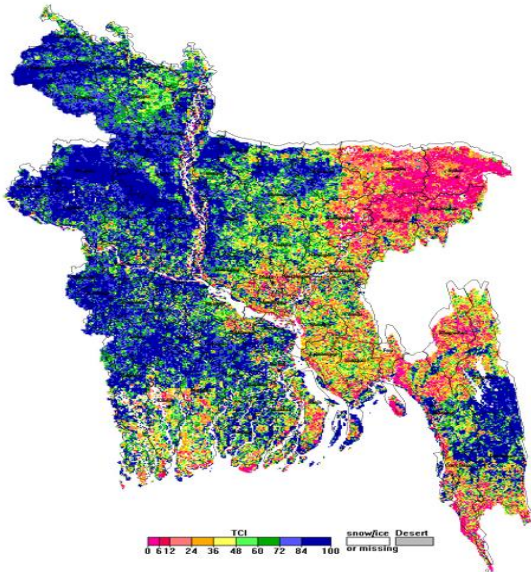
NOAA/VIIRS BLENDED NDVI composite for the week No. 17 (21 April -27 April 2020) over Agricultural regions of Bangladesh



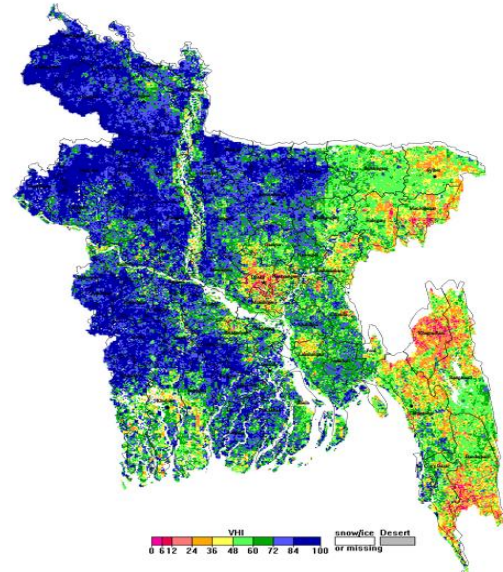
NOAA/ AVHRR BLENDED VCI composite for the week No. 17 (21 April -27 April 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 17 (21 April -27 April 2020) over Agricultural regions of Bangladesh

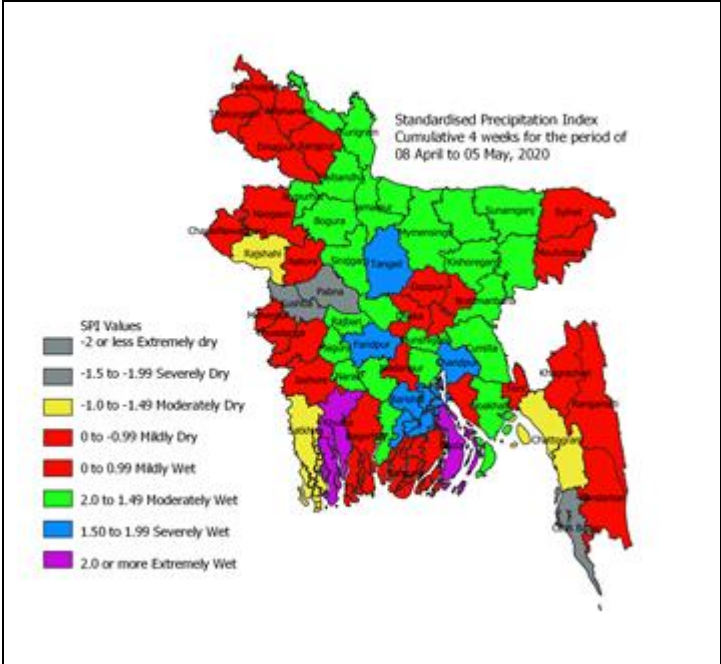


NOAA/ AVHRR BLENDED VHI composite for the week No. 17 (21 April -27 April 2020) over Agricultural regions of Bangladesh



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

It has been observed that during last four weeks of the month of April 2020 extremely wet conditions prevails in districts located in southern and northwestern and mild to moderately wet condition prevails in central parts and extremely dry conditions prevailed some pockets in western part and southeastern parts of Bangladesh for last four weeks.



Data source: Bangladesh Meteorological Department