



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

29 APRIL 2020 (WEDNESDAY)
[FOR THE PERIOD 29.04.2020 – 03.05.2020]



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.

Please Contact: Farhana Hoque, Sabuj Roy | E-mail: pdamsdp@dae.gov.bd
Phone No.: 02-55'028414, 02-55028418

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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) during next 24 hours, rain/thunder showers accompanied by lightning flashes and temporary gusty/squally wind is likely to occur at many places over Chattogram & Sylhet divisions and at a few places over Rajshahi, Rangpur, Dhaka, Mymensingh, Khulna & Barishal divisions. Day temperature may remain nearly unchanged and night temperature may rise slightly over the country. As per the outlook issued by BMD for next 72 hours, rain/thunder showers activity may continue.

At a glance Haor region rivers situation and forecast: (Please translate in English)

- The water levels of the major rivers in the north-east of the country are stable and flowing below the danger level.
- According to BMD and IMD, in the next 24 hours in the northeastern part of the country and in the adjoining Assam, Meghalaya, Tripura and Barak basins of India light to moderate rainfall is forecast. As a result, the water levels of major rivers in the northeastern part of the country may remain stable in the next 24 hours.

Under such 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:

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(Late transplanted) at anthesis to milk 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 the field otherwise base will be rotten. 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.
- 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.

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 Diafenthuron 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.
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- 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
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- 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.
- Tthe 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.

Jute:

- Continue sowing of seeds.

Livestock

- It is advised to keep animal shed hygienic and cleaned to avoid flies and mosquitoes. Regular check-up for infectious disease like FMD, tuberculosis and Brucellosis should be done.

- 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.
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- Farmers are advised to keep the floor of the animal habitation dry to avoid hoof infection and to prevent fly breeding.
- Arrangements should be made so water rain water should not enter in cattle shed.

Poultry

- Suggested to go for routine vaccination for poultry against the dreaded diseases /virus Vaccination (RDF1) of the one week old chicks against Raniket disease, darkplague and against Gamboro disease in two weeks old chicks may be carried out after consultation with local veterinarian.
- It is advised to align the long axis of poultry shed in east-west direction. This will prevent the direct sunshine over the birds.
- Regularly inspect the droppings of the poultry bird for any disease symptoms and immediately separate/remove the diseased and dead birds from the healthy ones.

Fishery

- Because of increase in temperature, it is advised to add cow dung and lime or rice bran and mustard cake in the pond as a natural food for fishes @ 5 kg/day/ acre area of pond.
- Feed the major carp with rice bran and ground nut oil cake at 1:1 ratio at the rate of 5 % of body weight.
- Maintain 1 to 1.5mt average depth of water in the pond.
- As the temperature is rising, farmers can start feeding their fishes with available fish feed or they can feed their fishes with a mixture Rice bran and MOC in 1:1 ratio @3% of body weight of the total biomass in their ponds.
- To avoid bacterial disease liming should be done at appropriate dose.

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 29 April 2020) and maximum temperature on 28 April, minimum temperature on 29 April 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	04	29.8	22.1	Rajshahi	Rajshahi	18	29.7	21.6
	Tangail	82	29.0	20.4		Ishurdi	06	29.6	21.5
	Faridpur	16	30.4	22.7		Bogura	08	24.8	21.0
	Madaripur	12	30.2	22.8		Badalgachhi	18	27.0	20.8
	Gopalganj	00	29.2	23.3		Tarash	02	27.7	21.2
	Nikli	71	31.0	20.4					
Mymensingh	Mymensingh	25	30.6	21.4	Rangpur	Rangpur	Trace	26.2	21.0
	Netrokona	03	31.0	21.0		Dinajpur	20	25.0	21.3
						Sayedpur	03	25.6	20.5
						Tetulia	19	25.3	18.9
Chattogram	Chattogram	00	32.2	23.4		Dimla	05	26.1	20.0
	Sandwip	24	31.2	22.4		Rajarhat	Trace	27.0	20.4
	Sitakunda	02	32.1	21.5	Khulna	Khulna	01	29.0	23.5
	Rangamati	27	32.0	20.6		Mongla	Trace	29.8	23.2
	Cumilla	00	30.8	22.0		Satkhira	02	30.0	23.0
	Chandpur	19	31.1	22.8		Jashore	01	29.8	23.2
	M.Court	34	29.7	22.0		Chuadanga	13	30.7	20.6
	Feni	20	31.0	21.3		Kumarkhali	12	26.5	22.0
	Hatiya	19	29.5	23.0	Barishal	Barishal	16	29.6	22.0
	Cox's Bazar	00	32.3	24.0		Patuakhali	29	30.4	21.9
Kutubdia	01	31.8	23.4	Khepupara		09	29.1	22.5	
Teknaf	xx	33.4	xx	Bhola		16	28.7	22.6	
Sylhet	Sylhet	Trace	31.8	22.0					
	Srimangal	07	31.6	21.3					

Highlights:

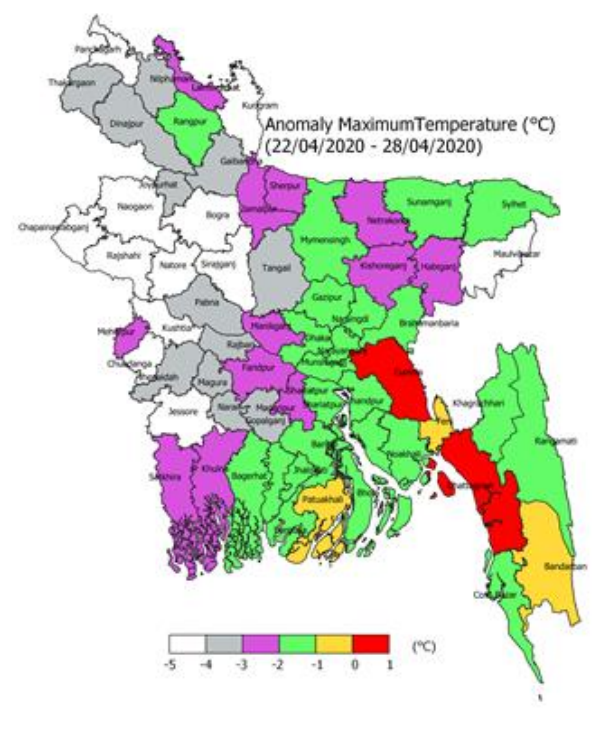
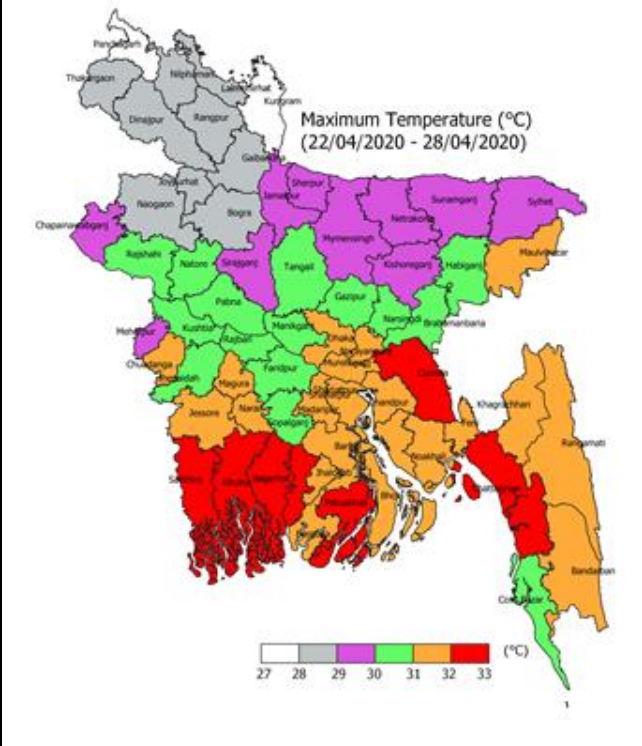
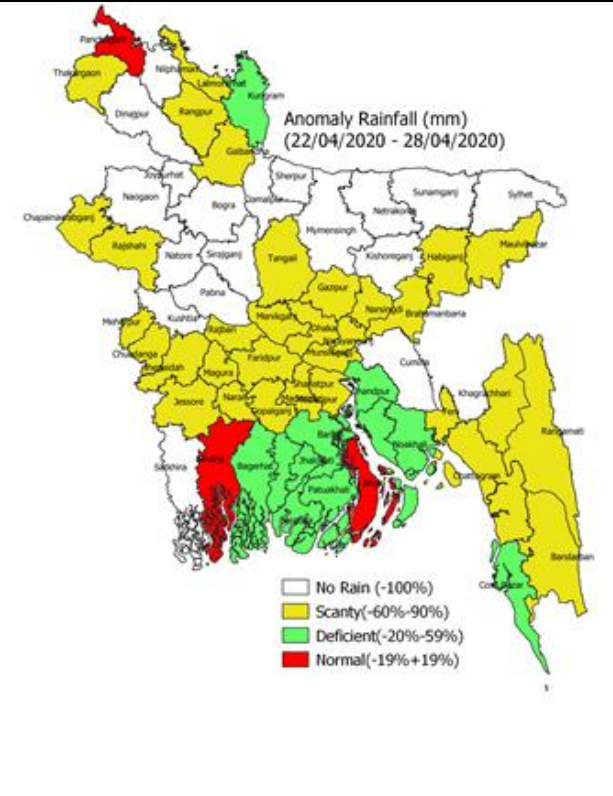
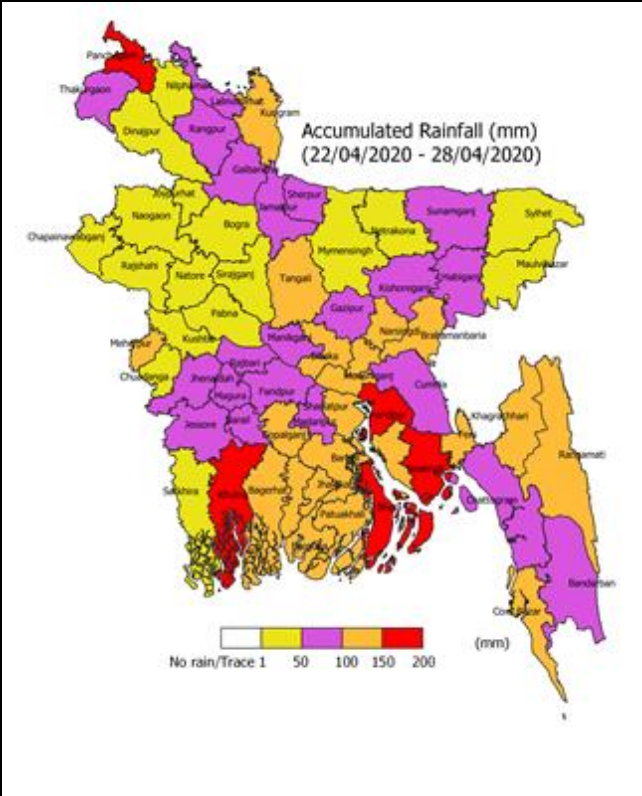
- Country average bright sunshine hour was 4.30 hours per day during last week.
- Country average free water loss during the previous week was 3.00 mm per day.

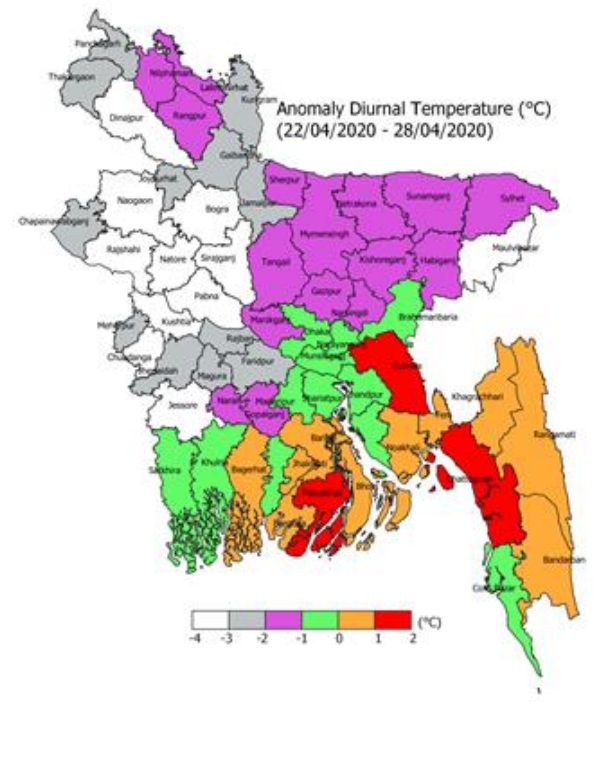
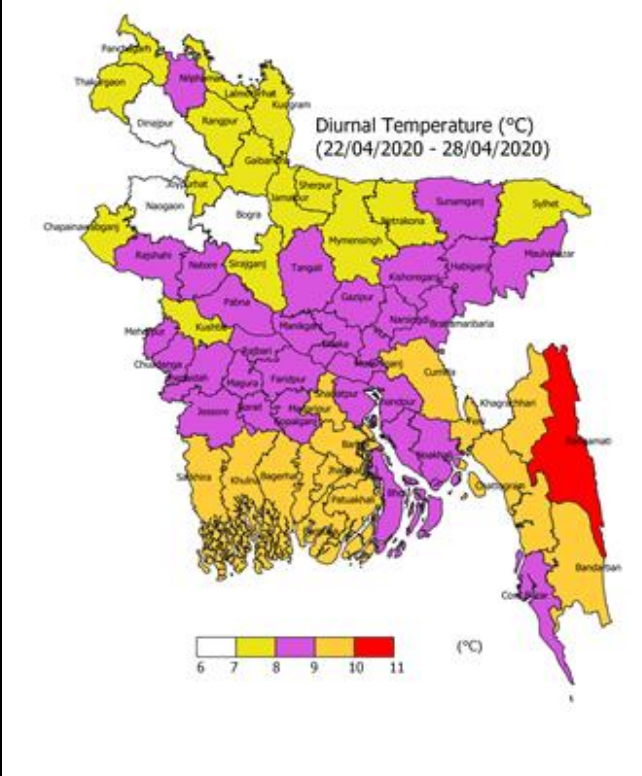
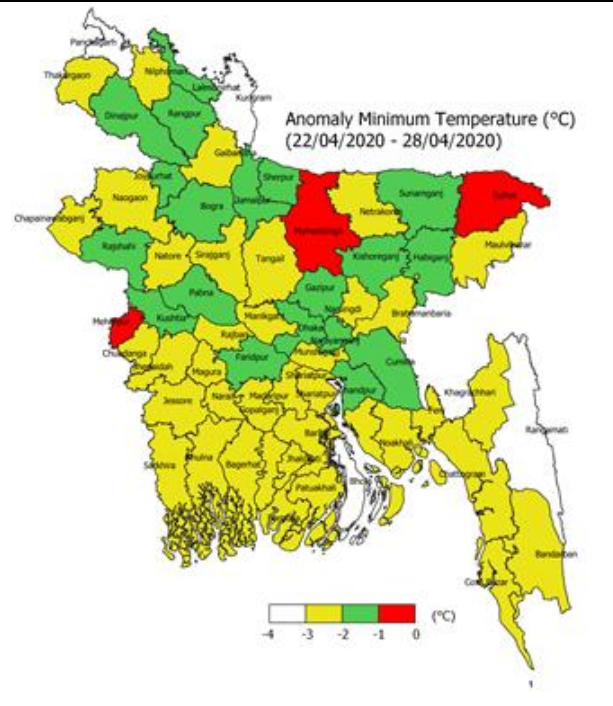
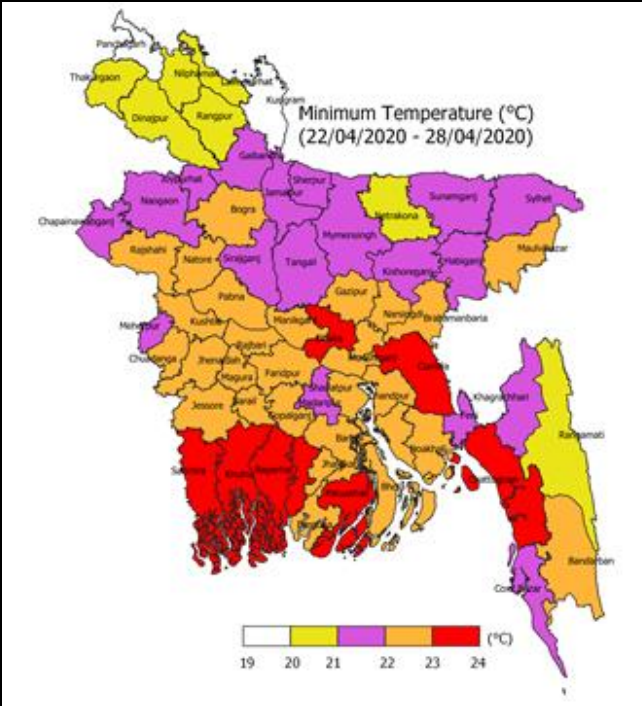
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

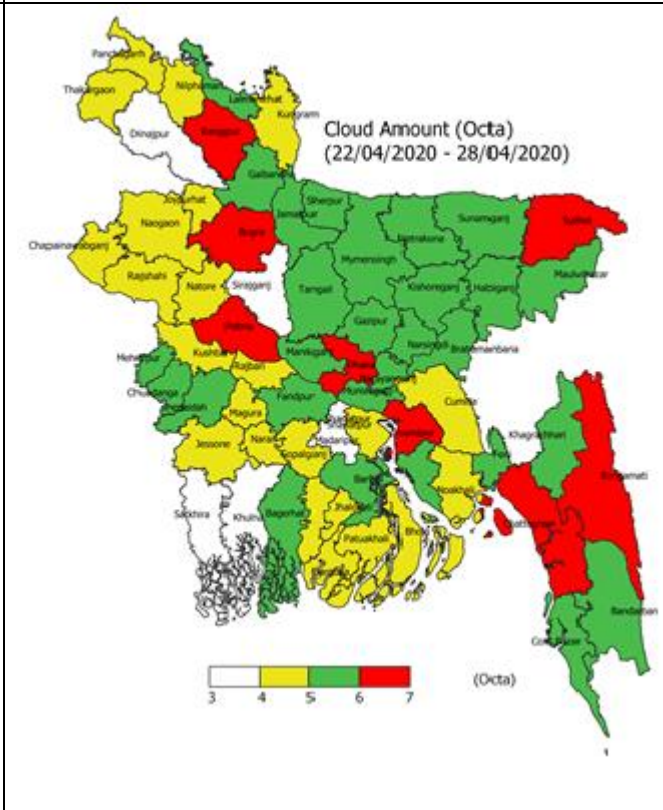
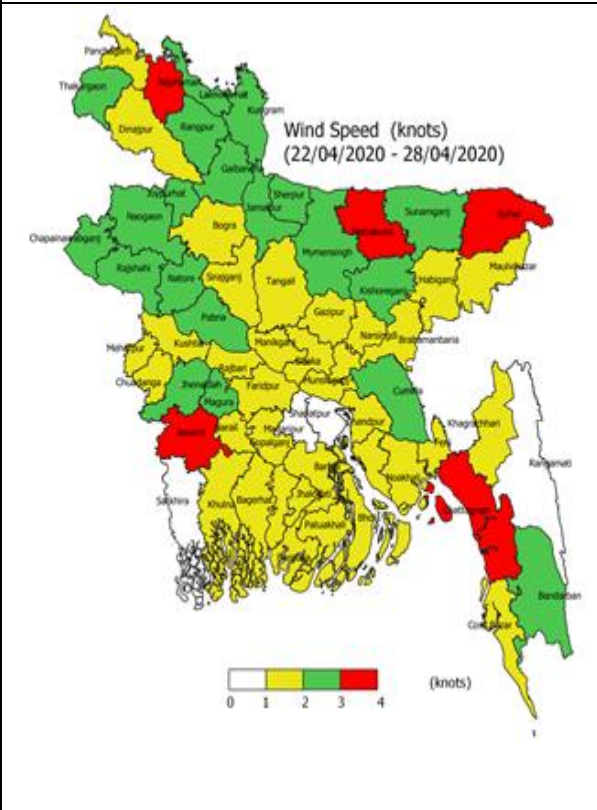
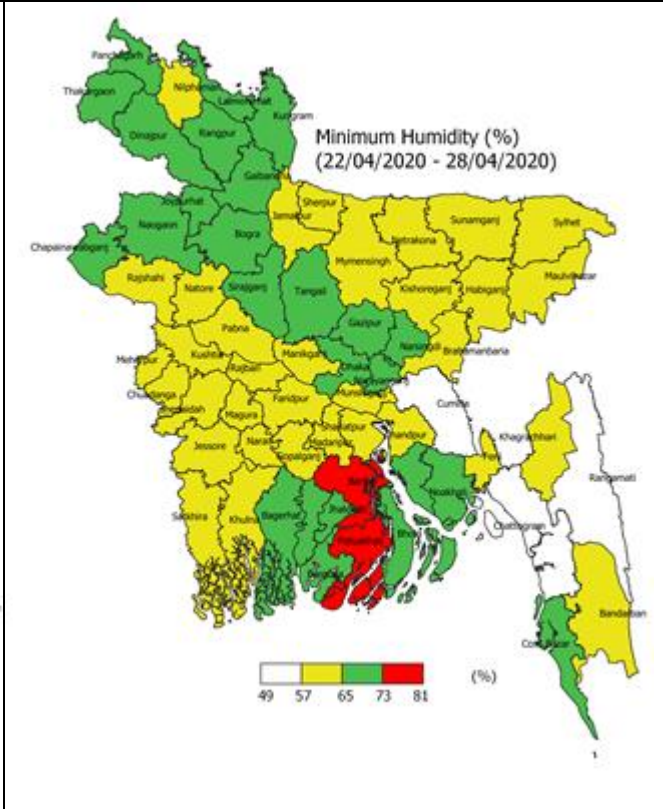
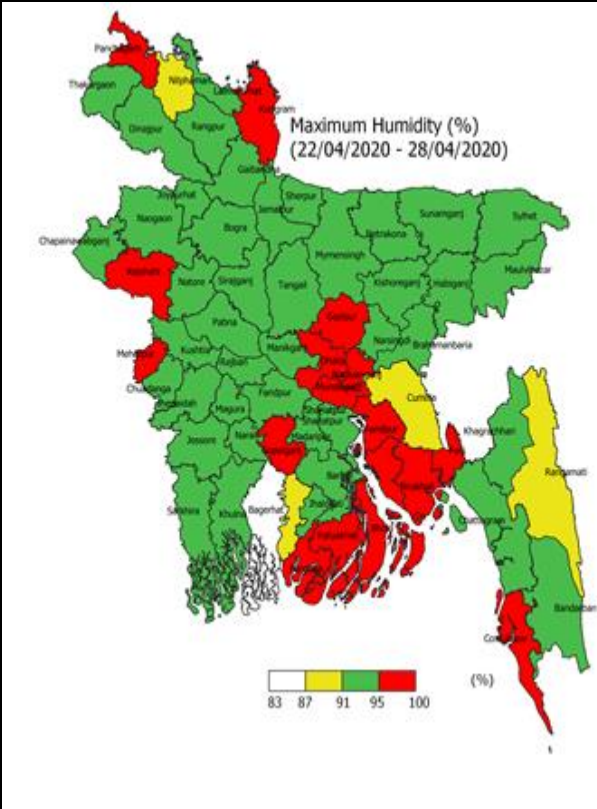
Forecast: Rain/thunder showers accompanied by lightning flashes and temporary gusty/squally wind is likely to occur at many places over Chattogram & Sylhet divisions and at a few places over Rajshahi, Rangpur, Dhaka, Mymensingh, Khulna & Barishal divisions.

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

Spatial Distribution of weather parameters for the Week ending 28 April 2020





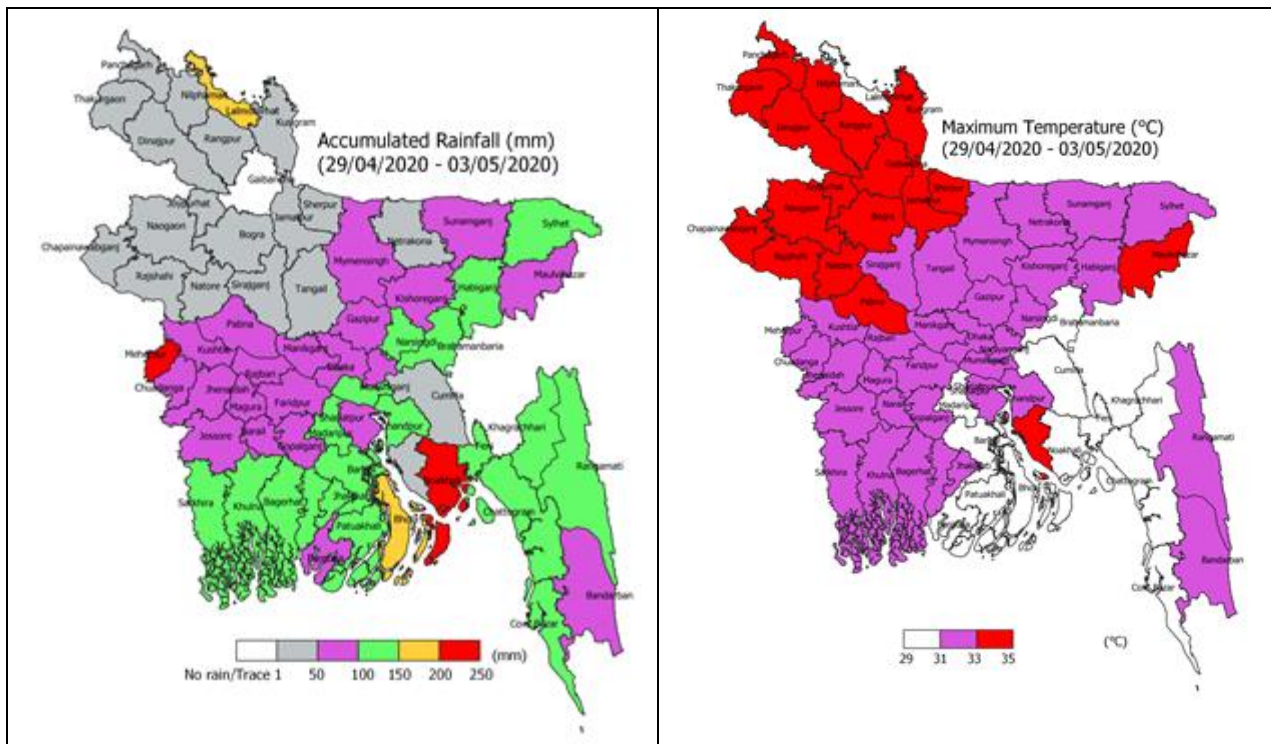


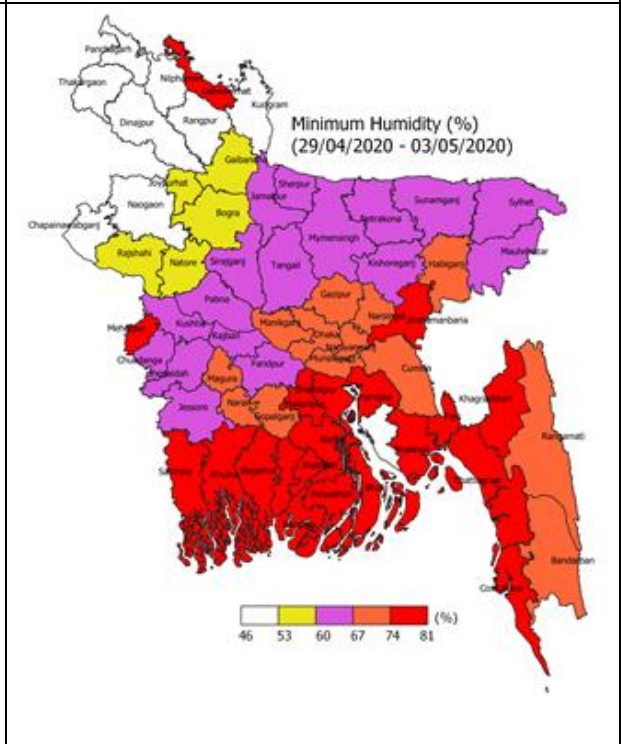
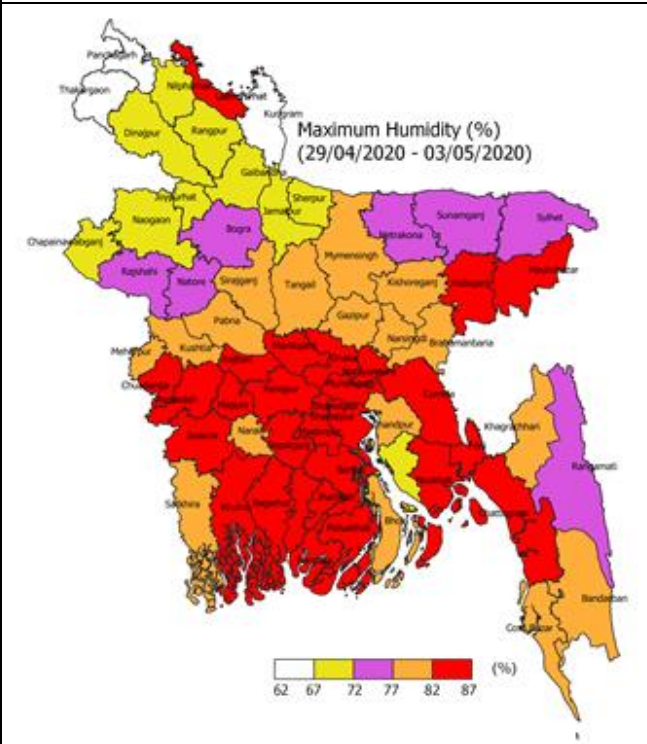
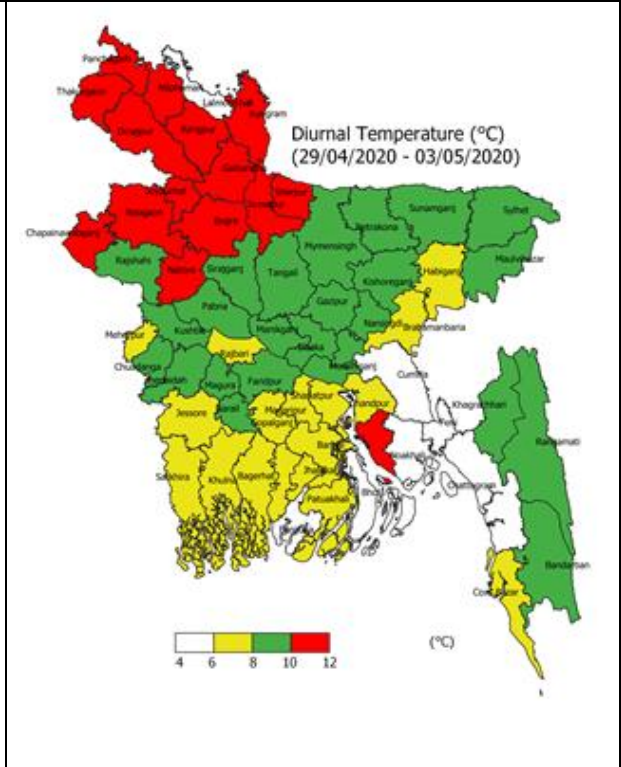
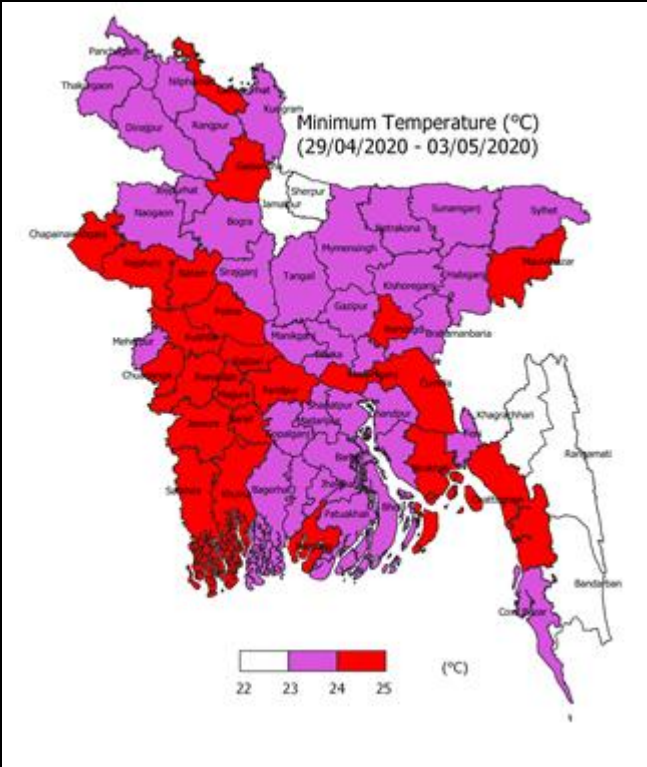
Weather Forecast and Advisory for the Period of 22.04.2020 to 30.04.2020

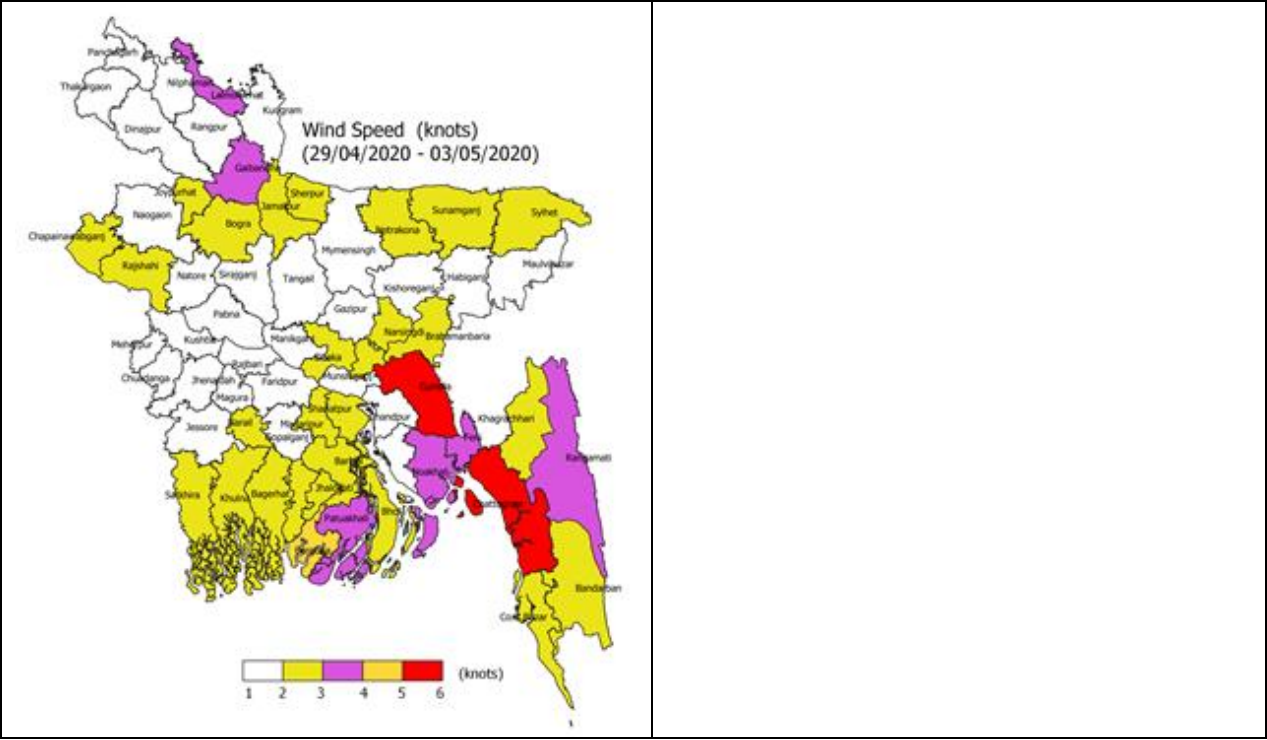
Bright sunshine hour is likely to be from 4.00 to 5.00 hours per day during this week. Average free water loss is likely to be from 2.50 to 3.50 mm per day during this week.

- Light (04-10mm/day) to moderate (11-22 mm/day) rain/thunder showers accompanied by temporary gusty/squally wind is likely to occur at many 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 at places over Sylhet, Mymensingh and Chattogram divisions 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 29 April -03 May'2020

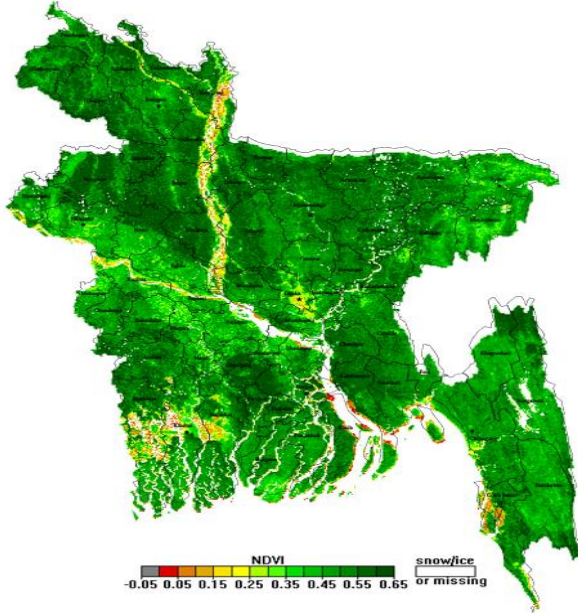




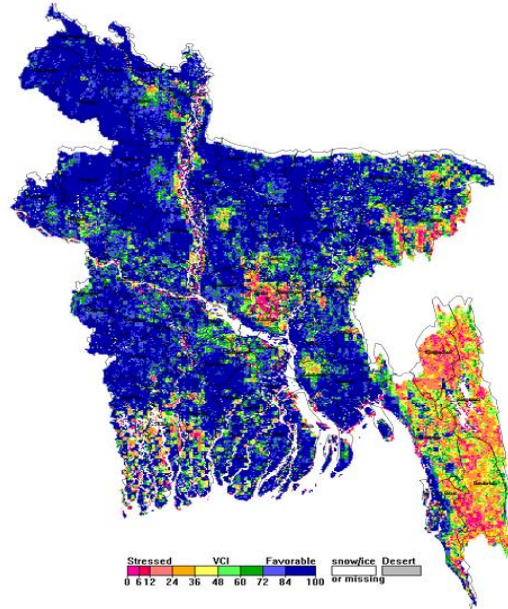


Different Satellite Products over Bangladesh

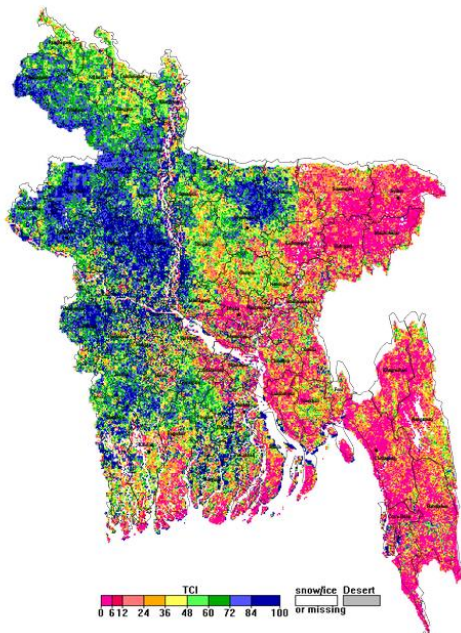
NOAA/VIIRS BLENDED NDVI composite for the week No. 16 (14 April -20 April 2020) over Agricultural regions of Bangladesh



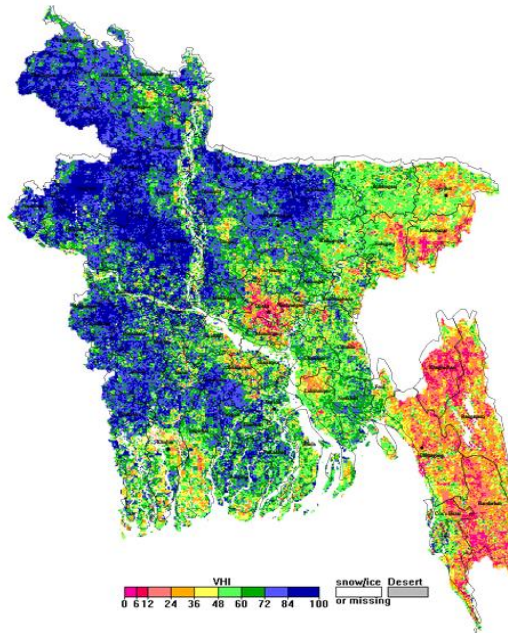
NOAA/ AVHRR BLENDED VCI composite for the week No. 16 (14 April -20 April 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 16 (14 April -20 April 2020) over Agricultural regions of Bangladesh

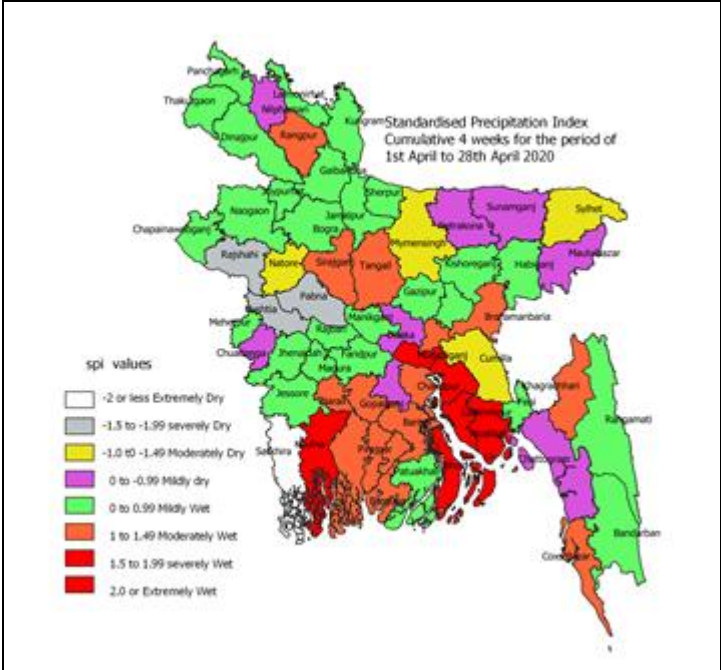


NOAA/ AVHRR BLENDED VHI composite for the week No. 16 (14 April -20 April 2020) over Agricultural regions of Bangladesh



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 in northeast parts of Bangladesh for last four weeks.



Data source: Bangladesh Meteorological Department