



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

13 May 2020 (WEDNESDAY)
[FOR THE PERIOD 13.05.2020 – 17.05.2020]



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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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 & temporary gusty/squally wind is likely to occur at a few places over Rajshahi, Rangpur, Mymensingh & Sylhet divisions and the region of Cumilla. Weather may remain mainly dry with temporary partly cloudy sky elsewhere over the country. Mild heat wave is sweeping over Khulna and Barishal divisions and the regions of Dhaka, Faridpur, Madaripur, Kishoregonj, Mymensingh, Rajshahi, Pabna, Feni and Noakhali and it may continue at places. Day and night temperature may remain nearly unchanged over the country. As per the outlook issued by BMD for next 72 hours, little change is likely. Intensity of rainfall has decreased and it is likely to decrease further during next five days in most of the districts in Bangladesh. Under this situation following Agromet Advisories are issued for many districts in the country.

Boro Paddy

- Continue harvesting . After the harvest, immediately keep it in safe and dry place for drying of grains.
- Complete harvesting as early as possible
- Hire the labour from the same village of cultivated land
- Maintain proper distance during harvesting
- 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.
- 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.
- 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.

Aus Paddy:

- Seedbed preparation/Transplanting

Maize:

- 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

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.
- Clear the irrigation channel for draining out excess water from the crop field
- Prevailing weather condition are favorable for tikka leafspot in groundnut. To control spray with hexaconazol @2ml. or carbendazim @1 g. per litre of water.

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.

Horticulture

Fruit fly attack due to increased temperature in Mango, Guava, citrus in fruiting stage.

Following measures may be taken up.

- Pheromon trap for fly attack
- Bend the branch of guava at ground level for better fruiting
- To prevent fruit drop of citrus spray 10ppm solution of 2,4D
- To prevent fruit drop of mango spray 15ppm NAA
- Due to high temperature, it is advised to provide shade to newly planted or small plants of mango. Irrigate the mango orchard during early morning, at evening or night.
- To prevent incidence of post-harvest diseases in mango fruits, it is advised to keep the fruits in warm water (~ 52oC) for 10 minutes and then keep for ripening

Jute:

- It is now in vegetative stage. Monitor the pest & diseases incidences and take appropriate measures..

Livestock

- To avoid heat stress on animals due to high temperature, it is advised to provide adequate drinking water and green fodder to animals. Spray of water on gunny bags surrounding the cattle shed

- 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 NaCO₃) 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 13 May 2020) and maximum temperature on 12 May, minimum temperature on 13 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	00	36.5	28.1	Rajshahi	Rajshahi	00	36.0	25.0
	Tangail	00	35.8	24.6		Ishurdi	00	<u>37.0</u>	24.8
	Faridpur	00	36.2	25.8		Bogura	00	35.5	26.0
	Madaripur	00	36.2	26.1		Badalgachhi	00	34.7	24.4
	Gopalganj	00	35.7	26.2		Tarash	00	35.6	24.5
	Nikli	00	36.0	26.5					
Mymensingh	Mymensingh	00	36.2	26.7	Rangpur	Rangpur	00	35.0	24.8
	Netrokona	00	35.7	26.0		Dinajpur	00	34.0	24.3
						Sayedpur	00	34.0	23.4
Chattogram	Chattogram	00	33.5	26.5		Tetulia	00	33.6	<u>21.8</u>
	Sandwip	00	34.6	25.8		Dimla	00	33.2	22.6
	Sitakunda	00	35.8	25.0		Rajarhat	00	34.1	23.3
	Rangamati	00	35.3	25.0	Khulna	Khulna	00	36.5	27.0
	Cumilla	00	35.0	27.0		Mongla	00	36.0	26.8
	Chandpur	00	35.6	26.2		Satkhira	00	36.0	26.0
	M. Court	00	36.0	27.0		Jashore	Trace	<u>37.0</u>	24.0
	Feni	00	36.6	27.0		Chuadanga	Trace	<u>36.4</u>	24.5
		Hatiya	00	35.0	25.8	Kumarkhali	00	34.6	25.6
		Cox's Bazar	00	33.0	25.8	Barishal	Barishal	00	36.0
	Kutubdia	00	35.0	26.4	Patuakhali		00	36.8	26.7
	Teknaf	00	33.8	25.1	Khepupara		00	36.0	27.0
Sylhet	Sylhet	<u>04</u>	35.7	21.4		Bhola	00	36.2	27.1
	Srimangal	00	35.5	22.4					

Highlights:

- Country average bright sunshine hour was 6.30 hours per day during last week.
- Country average free water loss during the previous week was 3.50 mm per day.

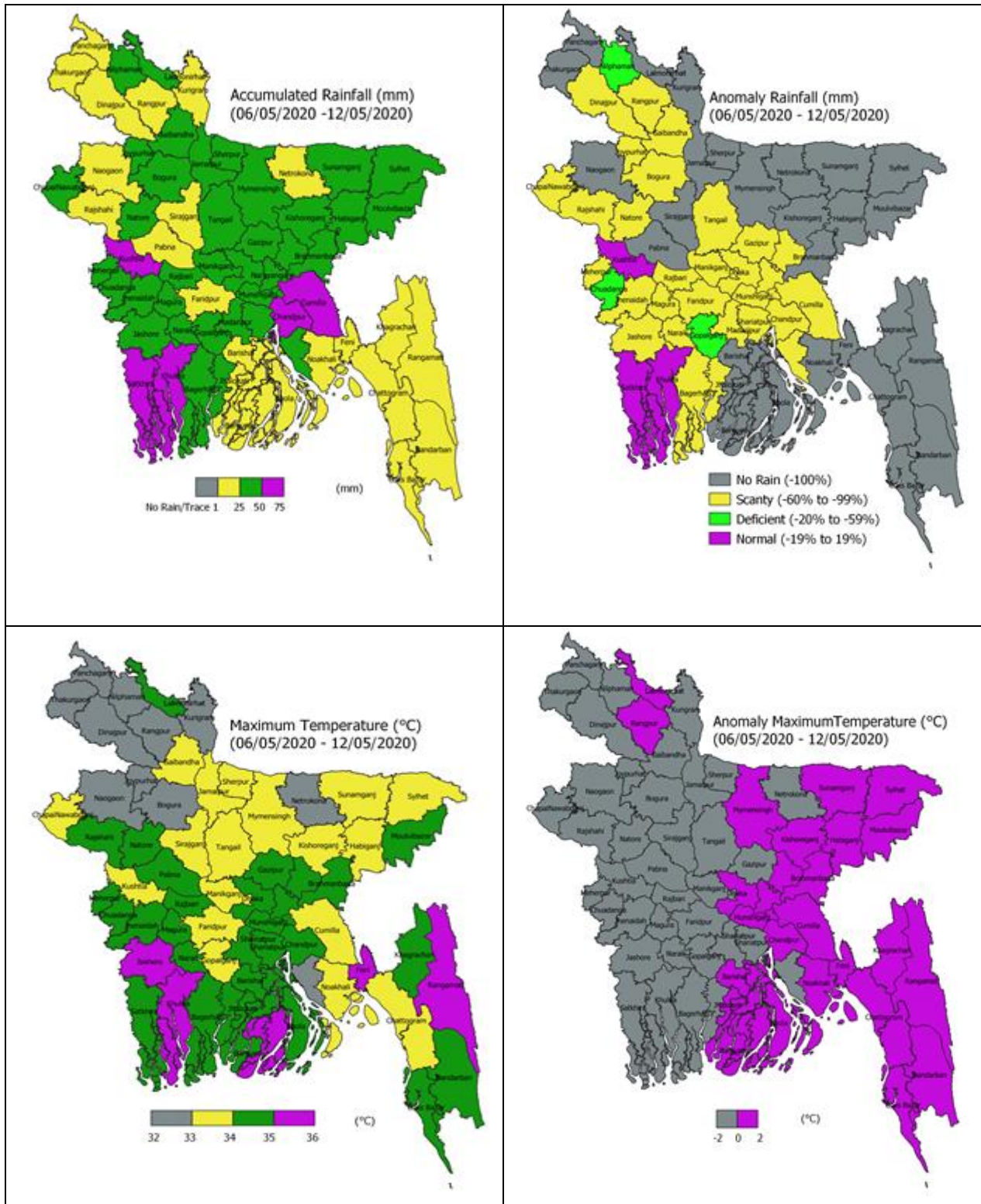
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

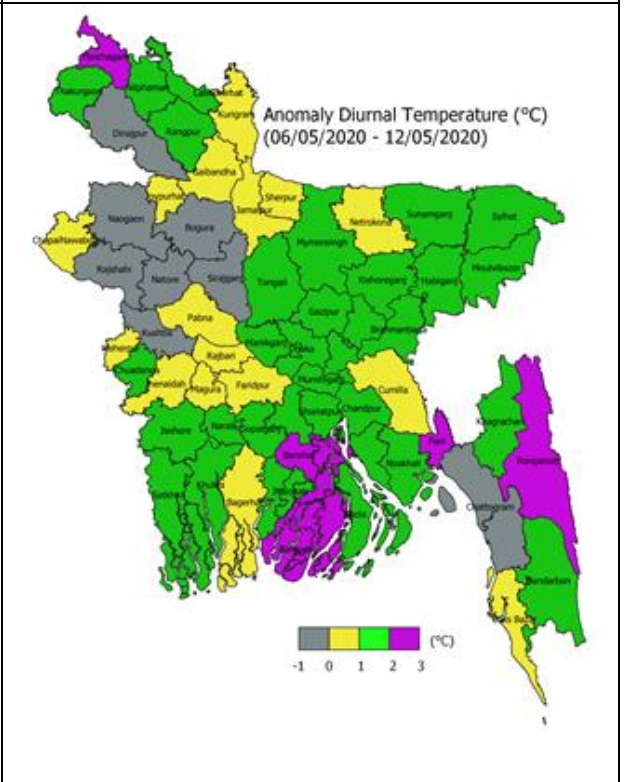
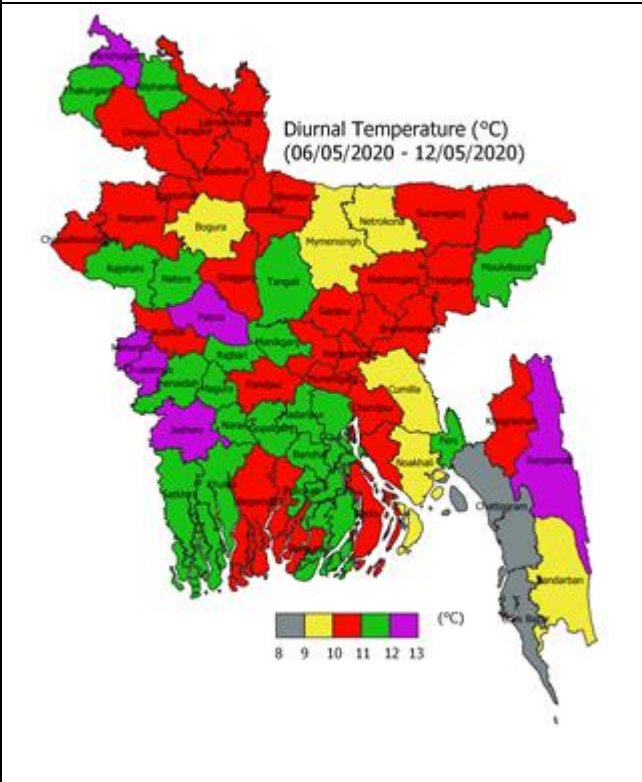
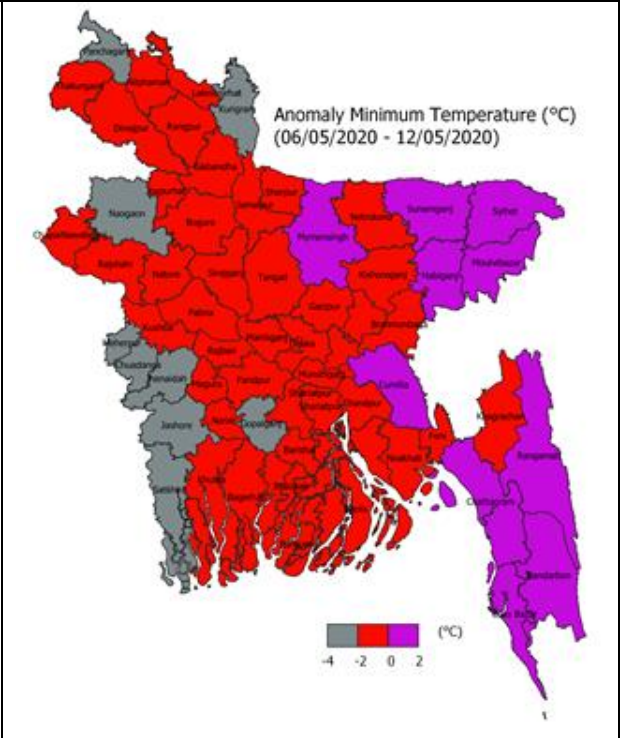
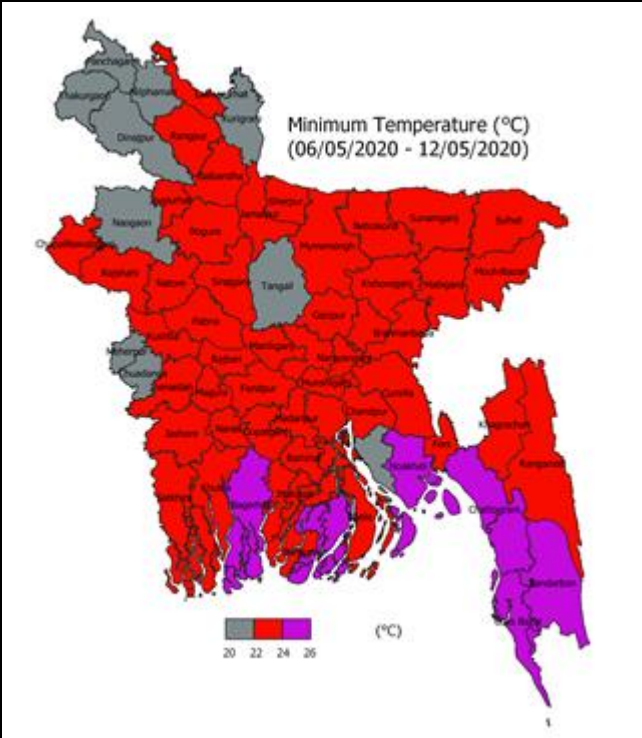
Forecast: Rain/thunder showers with lighting flashes & temporary gusty/squally wind is likely to occur at a few places over Rajshahi, Rangpur, Mymensingh & Sylhet divisions and at one or two places over Dhaka, Khulna, Barishal and Chattogram divisions.

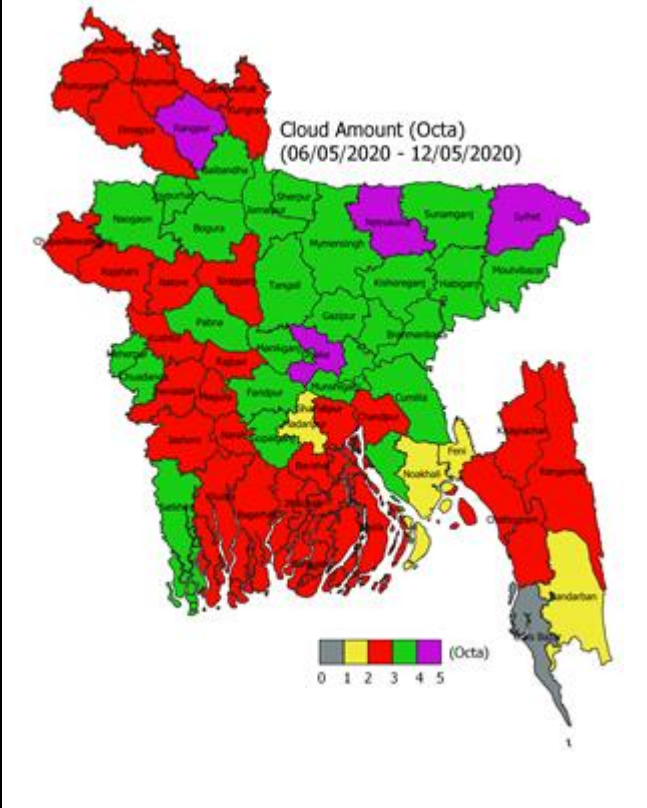
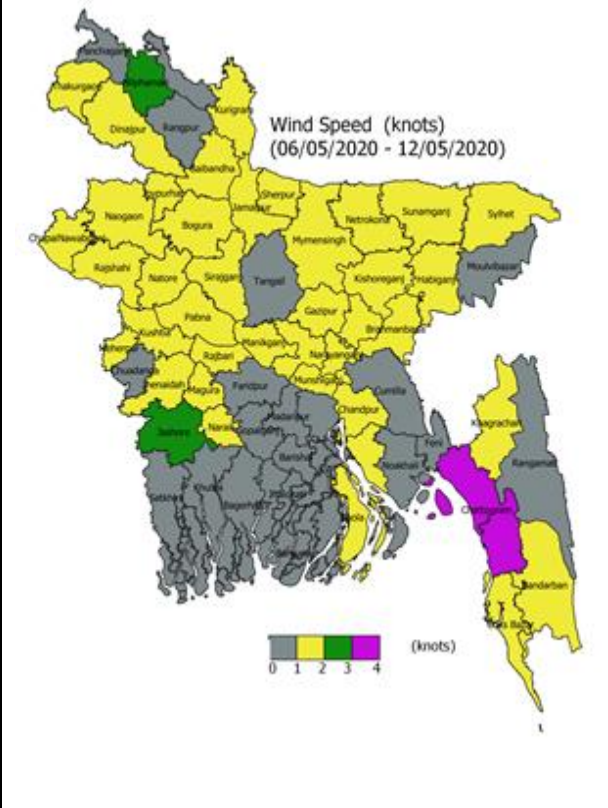
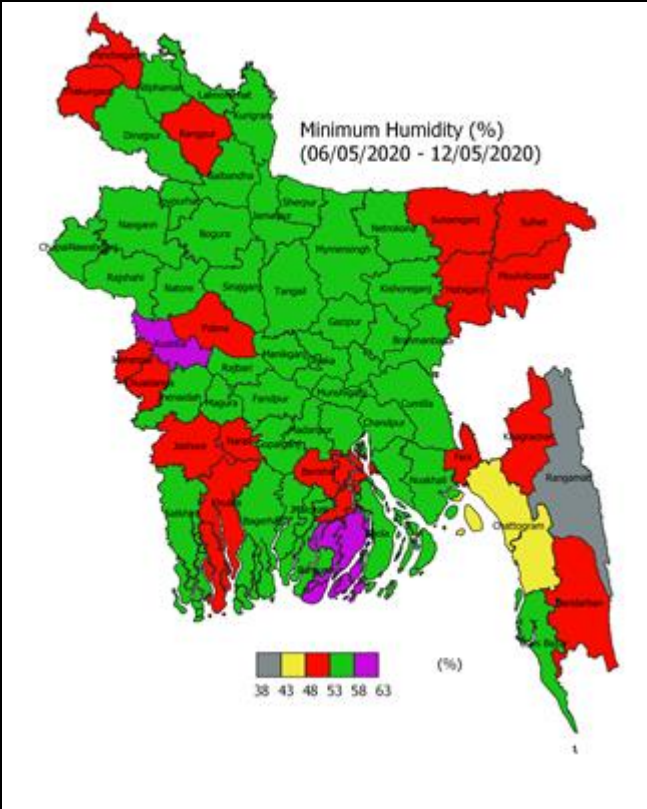
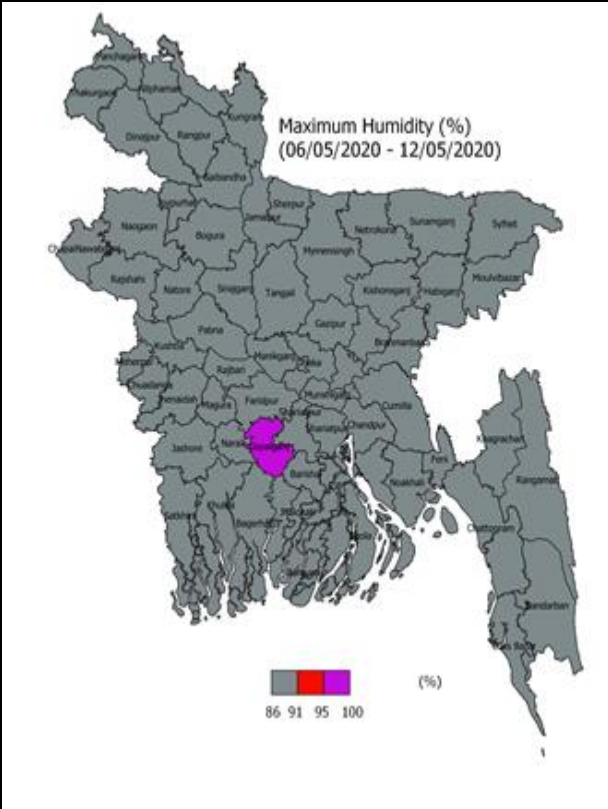
Heat Wave: Mild heat wave is sweeping over Khulna and Barishal divisions and the regions of Dhaka, Faridpur, Madaripur, Kishoregonj, Mymensingh, Rajshahi, Pabna, Feni and Noakhali and it may continue at places.

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

Spatial Distribution of weather parameters for the Week ending 12 May 2020





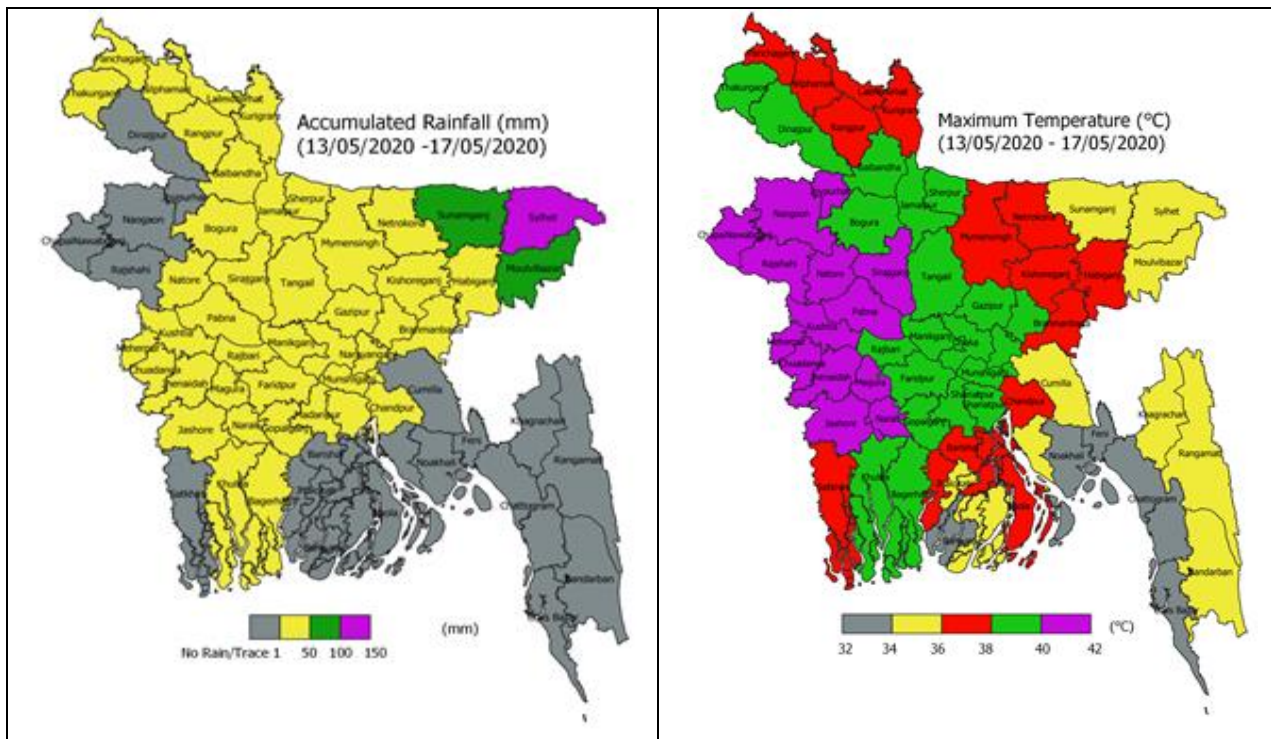


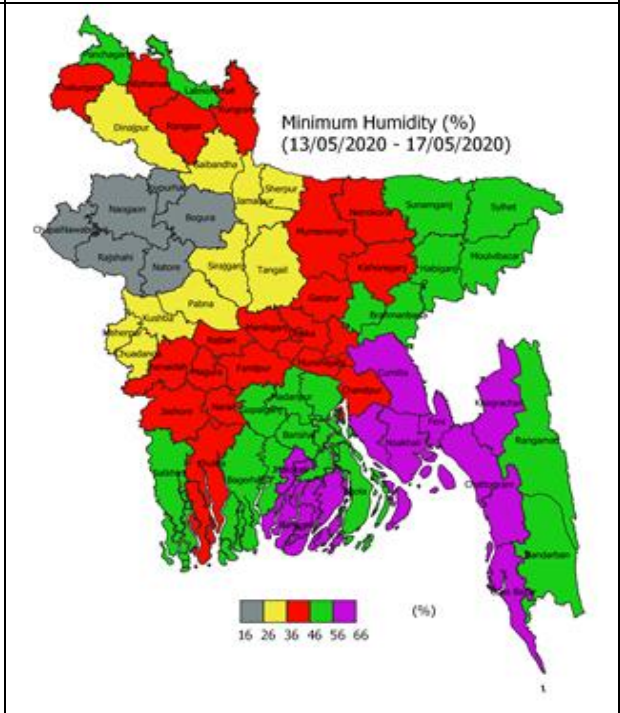
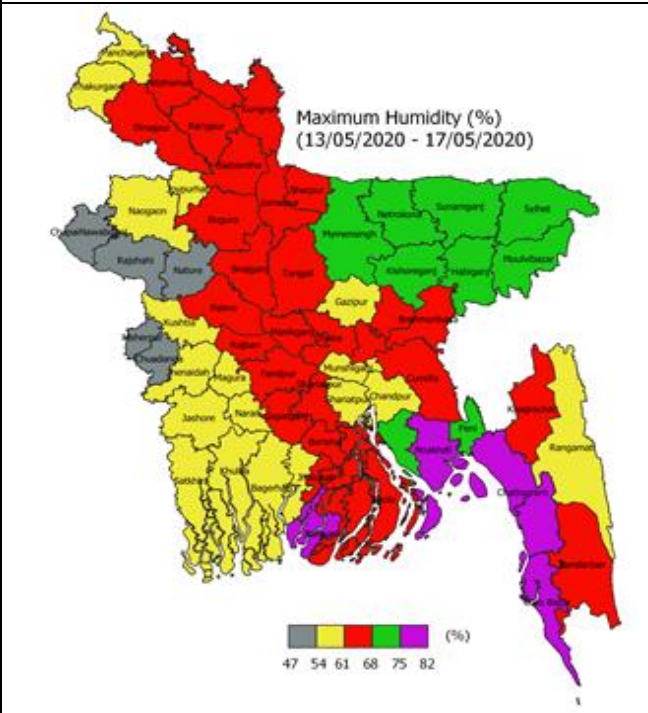
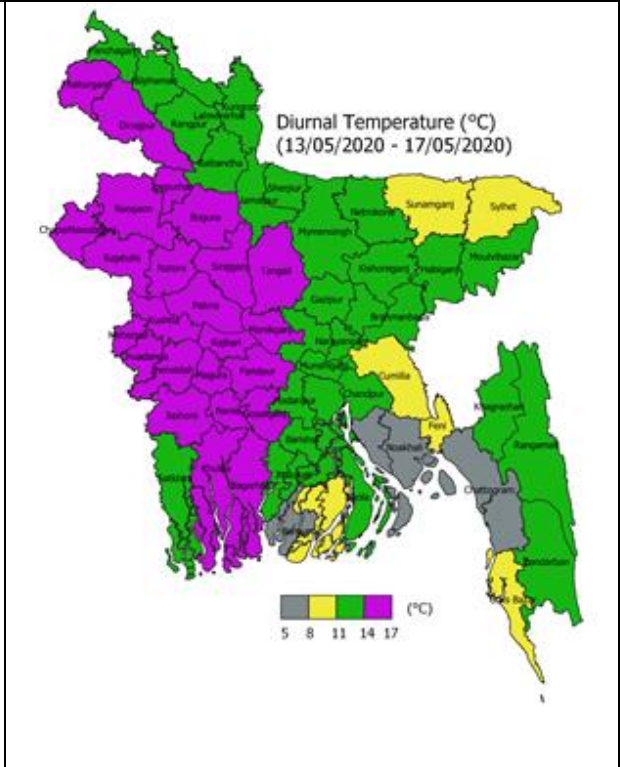
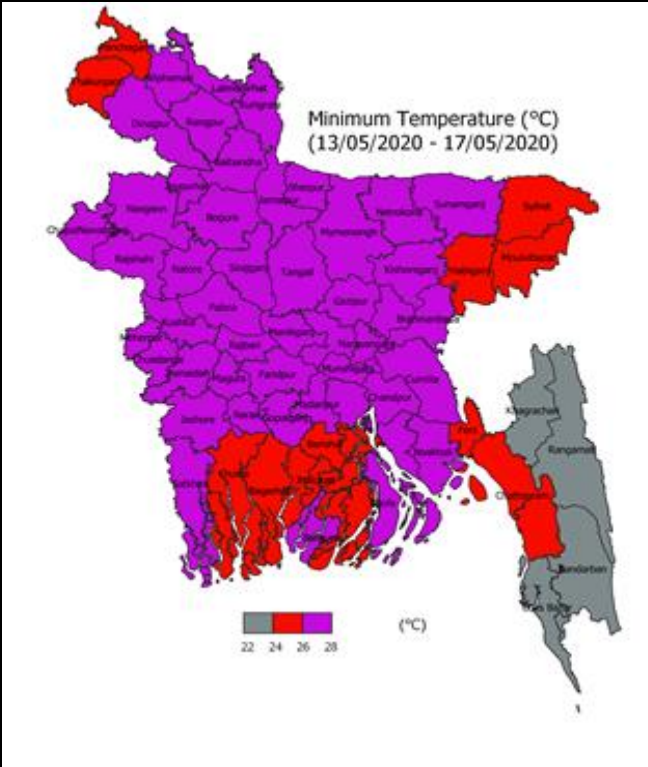
Weather Forecast and Advisory for the Period of 10.05.2020 to 16.05.2020

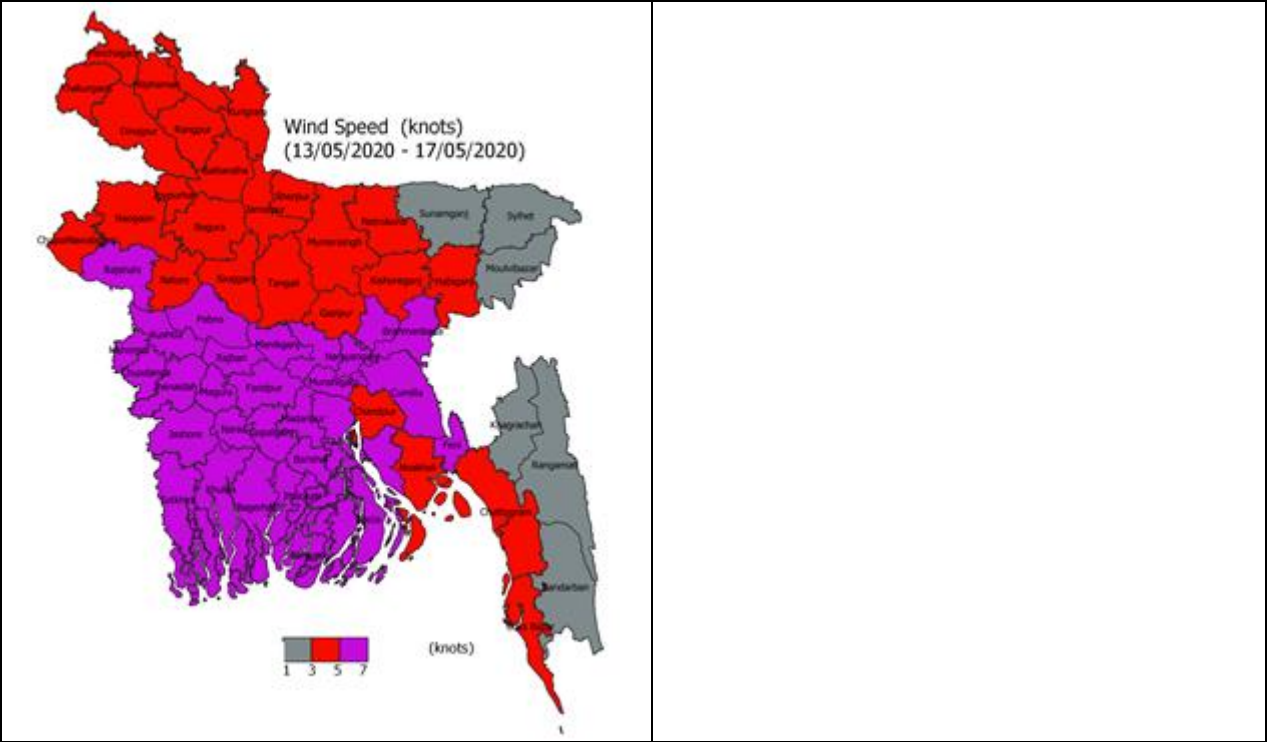
Bright sunshine hour is likely to be from 6.00 to 7.00 hours per day during this week. Average free water loss is likely to be from 3.00 to 4.00 mm per day during this week.

- Light (04-10mm/day) to moderate (11-22 mm/day) rain/thunder showers accompanied by temporary gusty/squally wind is likely to occur at many places over Sylhet, Mymensingh, Dhaka, Rajshahi and Rangpur divisions and at a few places over Khulna, Barishal and Chattogram divisions with chances of 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 rise slightly over the country during this period.

District Wise Quantitative Weather Forecast for next Five days from 13 May -17 May'2020

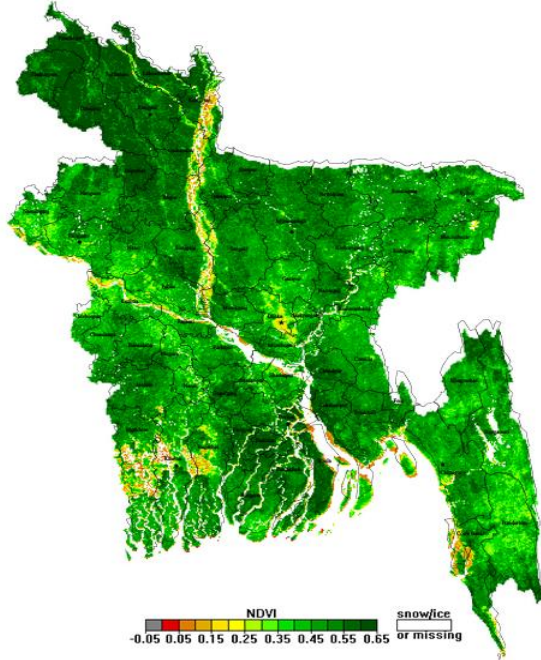




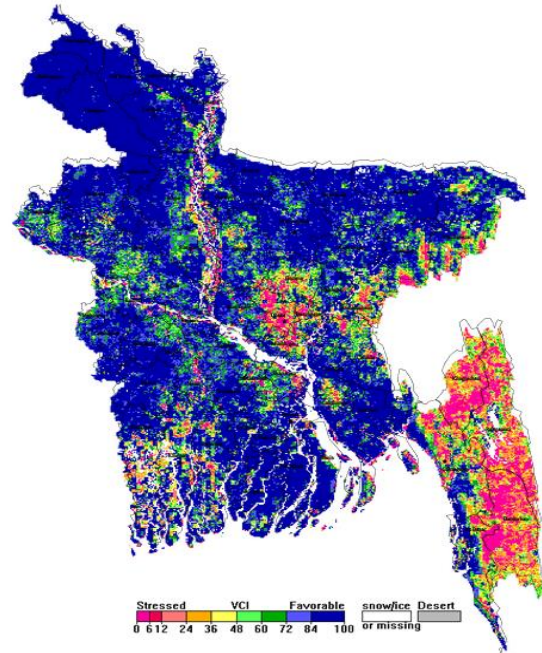


Different Satellite Products over Bangladesh

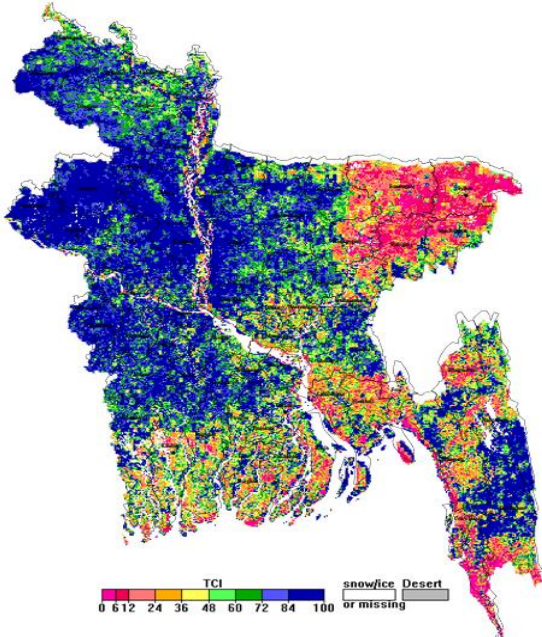
NOAA/VIIRS BLENDED NDVI composite for the week No. 18 (28 April -04 May 2020) over Agricultural regions of Bangladesh



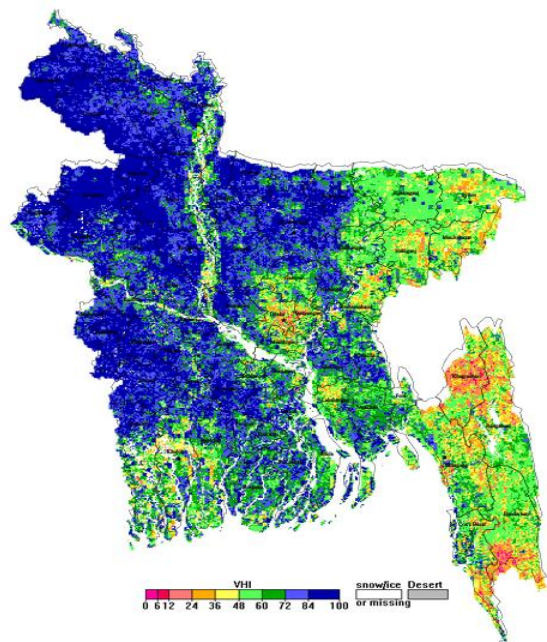
NOAA/ AVHRR BLENDED VCI composite for the week No. 18 (28 April -04 May 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 18 (28 April -04 May 2020) over Agricultural regions of Bangladesh

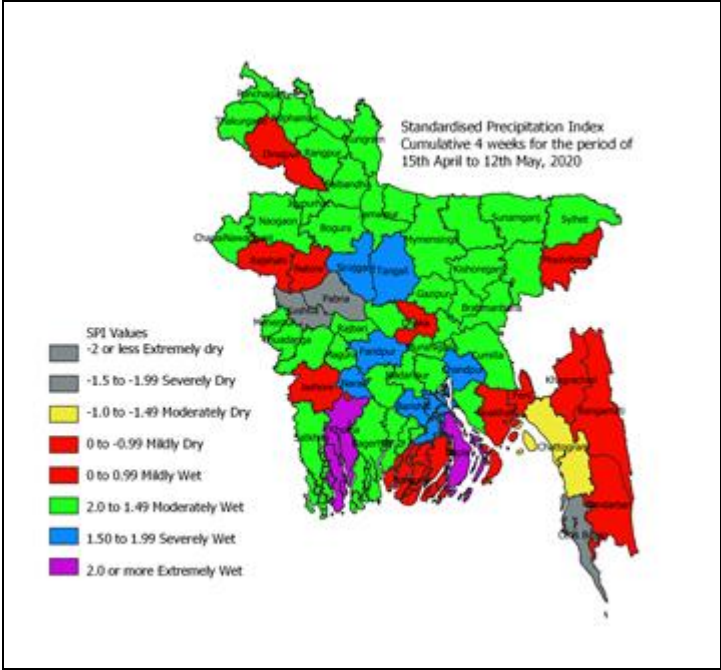


NOAA/ AVHRR BLENDED VHI composite for the week No. 18 (28 April -04 May 2020) over Agricultural regions of Bangladesh



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

It has been observed that during last four weeks (including May) 2020 extremely wet conditions prevails in districts located in southern and central parts and mild to moderately wet condition prevails in northern 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