



NATIONAL AGROMETEOROLOGICAL ADVISORY SERVICE BULLETIN

27 May 2020 (WEDNESDAY)
[FOR THE PERIOD 27.05.2020 – 31.05.2020]



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: astamisdp@dae.gov.bd
Phone No.: 02-55`028414, 02-55028418

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, light to moderate rain/thunder showers accompanied by temporary gusty/squally wind is likely to occur at many places over Dhaka, Mymensingh, Barishal, Chattogram & Sylhet divisions and at a few places over Rajshahi, Rangpur & Khulna divisions with moderately heavy to heavy falls at places over the country. Day and night temperature may fall by (1-2)°C over the district. As per the outlook issued by BMD for next 72 hours, rain/ thunder showers activity is likely to continue. Besides, as per the medium range weather forecast, good amount of rainfall is expected across the country during next five days. Salient Agromet Advisories issued to different districts of Bangladesh are as follows

Boro Paddy

Continue harvesting on non rainy days or after the current spell of rainfall

- . 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 after the current spell of rainfall.
- All the plant protection measures should be taken up 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:

Silk 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
- Monitor the crop against attack of insect pests, ∞ Intercropping with legumes & cassava can reduce the incidence of stem borer infestation.

- Make proper drainage in the crop field
- All the plant protection measures should be taken up after the current spell of rainfall.

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.

Vegetables

- Drain out water from the vegetable fields.
- In view of high temperature f, farmers are advised for harvesting of mature vegetables at morning and evening hours and keep harvested crops in shadow
- Intercultural operation is advised in summer vegetables such as lady's finger, pumpkin, cucumber, sponge gourd, bottle gourd.
- Monitoring is advised for infestation of mites in okra. Larvae and nymph of mite are greenish red while adults are oval reddish brown in colour. Mite feed on the under surface of leaves and the affected leaves gradually start curling and get wrinkled and crumpled. If infestation is found, spraying of Ethion @1.5-2 ml/liter of water is advised.
- All the plant protection measures should be taken up after the current spell of rainfall.

Horticulture

- Immediately raise the lodged banana and other horticultural crops by mechanical support and also staking of vegetables.

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.
- All the plant protection measures should be taken up after the current spell of rainfall.

Jute:

- Drain out excess water from the fields
- It is now in vegetative stage. Monitor the pest & diseases incidences and take appropriate measures.

- There is a chance of incidences of Hairy Caterpillar. Following control measures is advised.
- Collect the egg mass and destroy
- Use light traps.
- Spray Imidocholoprid/Chlorocytrin/ Nitro @ 1ml/litre of water.
- There is a chance of incidences of Semilooper. Spray Imidocholoprid/Chlorocytrin/ Nitro @ 1ml/litre of water.

Livestock

- Looking into increasing temperature farmers are advised to keep their animals in shade and give regularly water to them.
- 1. Do not graze animal after 10 am and before 3pm in open place.
- 2. Provide the cattle/animal 50 grams iodized salt and 50 to 100 grams mineral mixture daily with feed & green fodder to keep them health
- --Avoid mung mash and mustard cake in their food and supply arhar or black gram mash and sesame or linseed cake
- --Increase water intake by keeping stored water near feeding bucket (80liter water/300-400kg body wt.)
- --Feed them a mixture of water (15liter)+molasses (250g)+basan (500g)+salt (50g) and sodium carbonate(50g) per cow during noon hours for avoiding high temperature
- 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

- Day Temperature may be on higher side. To avoid heat stress in poultry birds:
- → Feeding should be done during early morning and late evening,
- → Avoid overcrowding and maintain proper ventilation inside the shed.
- → Cover the cage with gunny bags and sprinkle water to main the cage relatively cold.
- Apply only fresh tap water for drinking purpose
- --Use electrolyte in water
- --Arrange fan beside the cage
- --Increase number of water pot per cage

Fishery

- There may be low oxygen in the pond, increase water level and supply less feed.
- Do not depend solely on rainwater to fill your pond as when it does not rain, there may not be enough water to keep your pond full and the fish may die. Harvest the fish in pond having less water depth

Realized Weather at different locations in the country

Rainfall for last 24 hours (till 06 AM on 27 May 2020) and maximum temperature on 26 May, minimum temperature on 27 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	63	32.7	20.7	Rajshahi	Rajshahi	30	34.6	21.2
	Tangail	65	33.0	21.0		Ishurdi	74	34.0	21.4
	Faridpur	07	33.8	20.8		Bogura	84	32.5	20.5
	Madaripur	00	33.5	20.9		Badalgachhi	72	33.0	20.2
	Gopalganj	00	33.5	21.0		Tarash	58	32.6	20.1
	Nikli	51	32.5	21.2					
Mymensingh	Mymensingh	64	30.6	22.3	Rangpur	Rangpur	15	31.1	22.0
	Netrokona	74	30.2	21.5		Dinajpur	145	33.2	20.7
						Sayedpur	34	33.6	20.9
Chattogram	Chattogram	Trace	33.4	27.5		Tetulia	19	29.6	18.7
	Sandwip	00	32.5	28.4		Dimla	36	29.5	20.5
	Sitakunda	00	33.0	28.0		Rajarhat	25	30.2	21.5
	Rangamati	00	33.5	26.7	Khulna	Khulna	00	33.5	22.0
	Cumilla	13	32.4	20.5		Mongla	00	33.5	27.4
	Chandpur	01	33.6	21.6		Satkhira	01	33.5	24.2
	M.Court	00	33.7	21.8		Jashore	15	34.6	22.6
	Feni	04	33.5	21.2		Chuadanga	60	34.5	21.7
	Hatiya		33.0	28.0	Kumarkhali	00	34.0	20.8	
	Cox's Bazar	00	32.5	28.4	Barishal	Barishal	00	33.5	22.2
Kutubdia	00	33.0	28.0	Patuakhali		00	33.7	27.9	
Teknaf	00	33.2	27.1	Khepupara		00	33.3	28.6	
Sylhet	Sylhet	62	29.0	21.0		Bhola	00	33.5	22.5
	Srimangal	38	33.0	21.0					

Highlights:

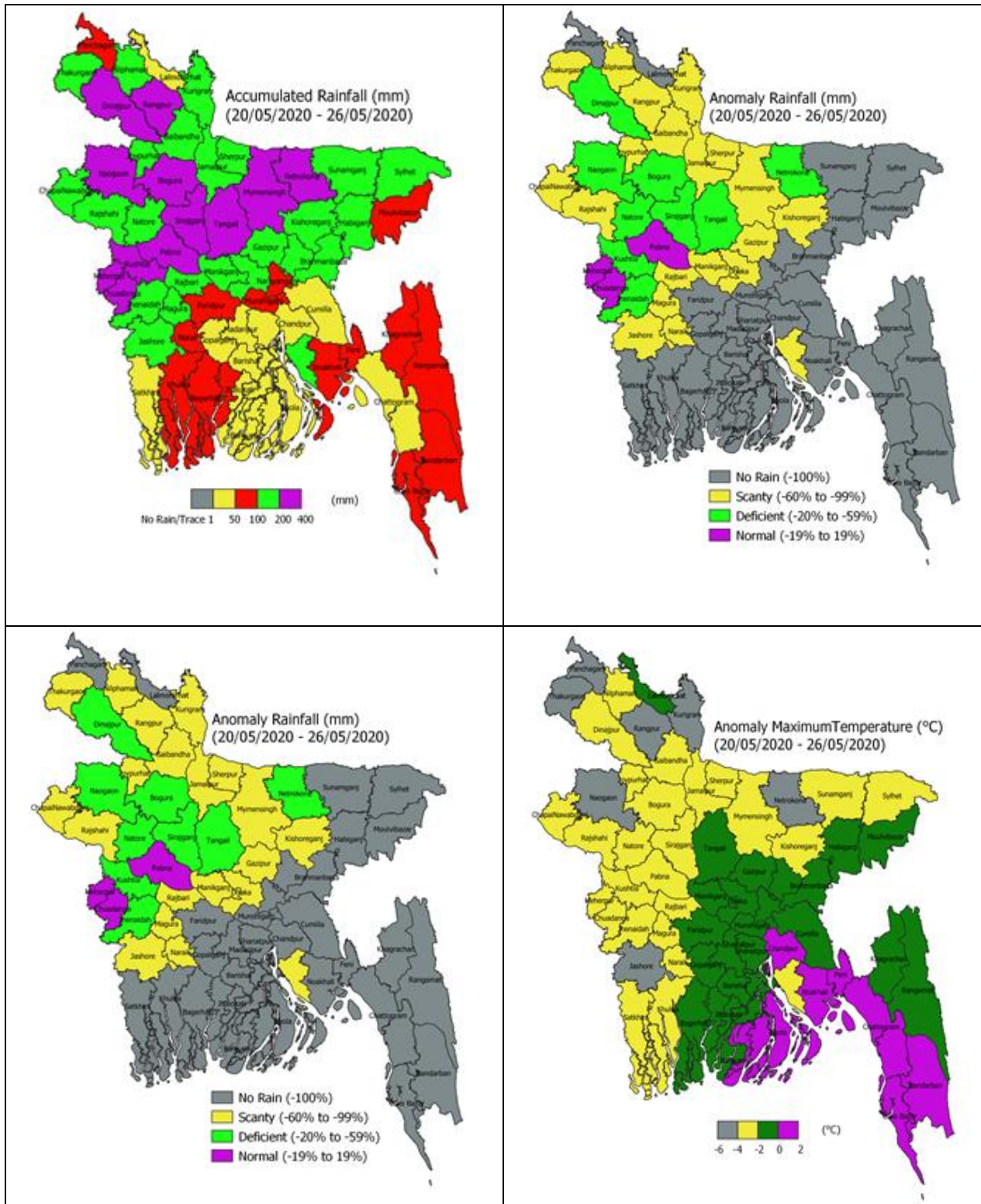
- Country average bright sunshine hour was 5.00 hours per day during last week.
- Country average free water loss during the previous week was 3.50 mm per day.

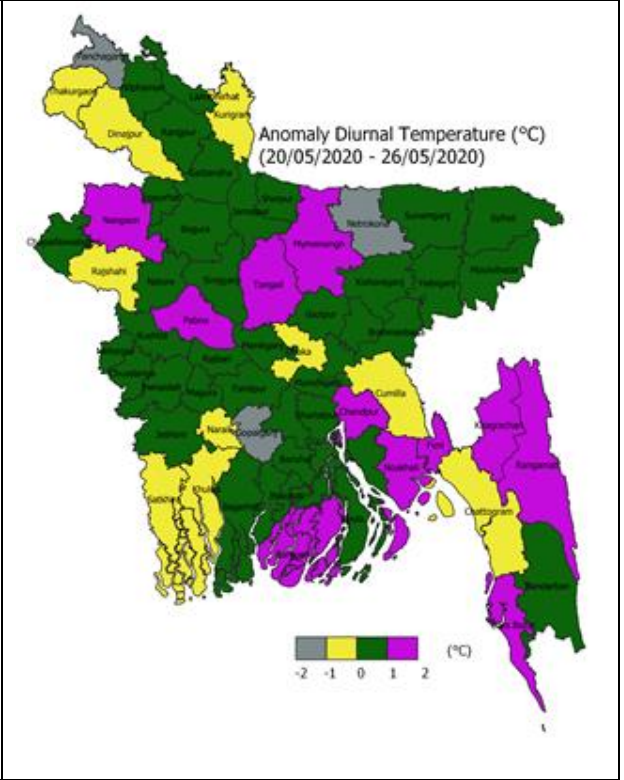
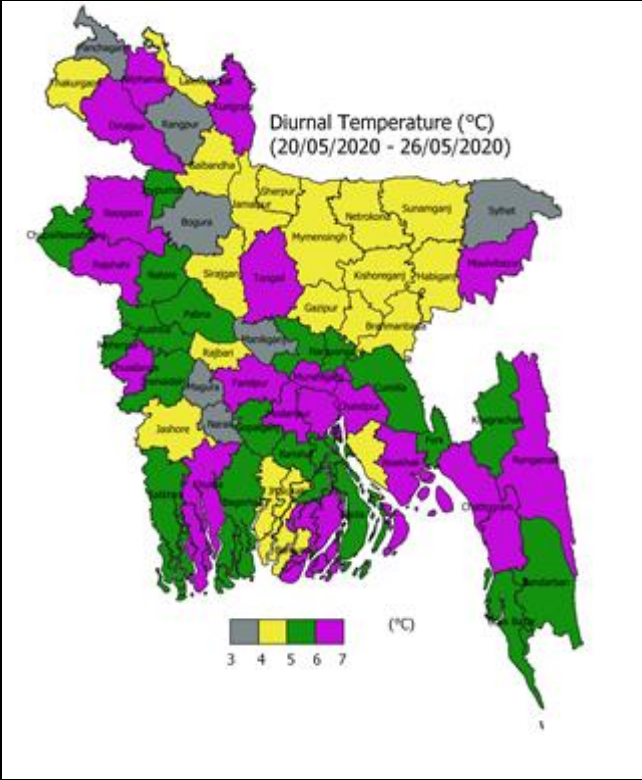
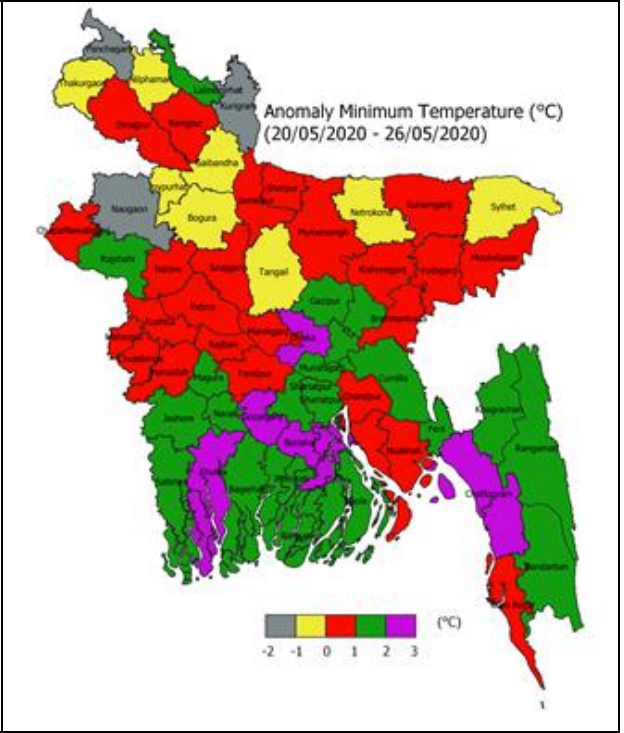
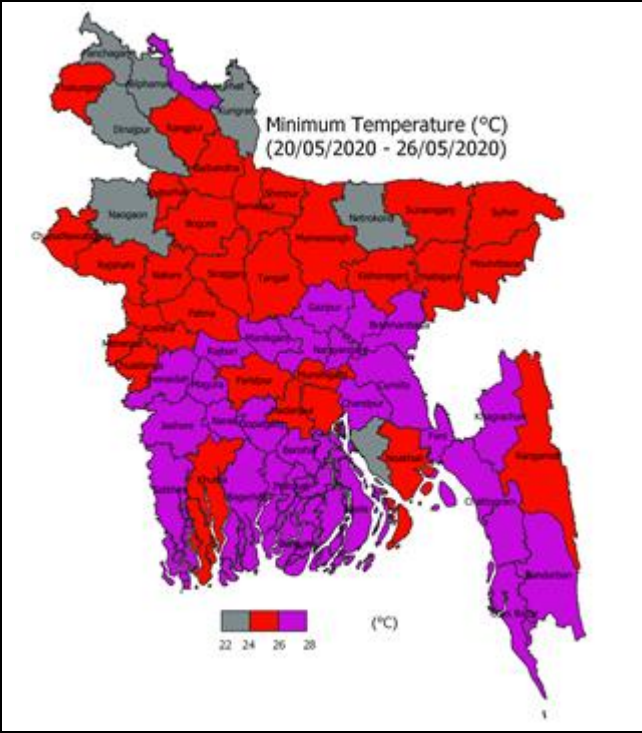
Weather Forecast Valid for 24 Hours commencing 06 PM Today:

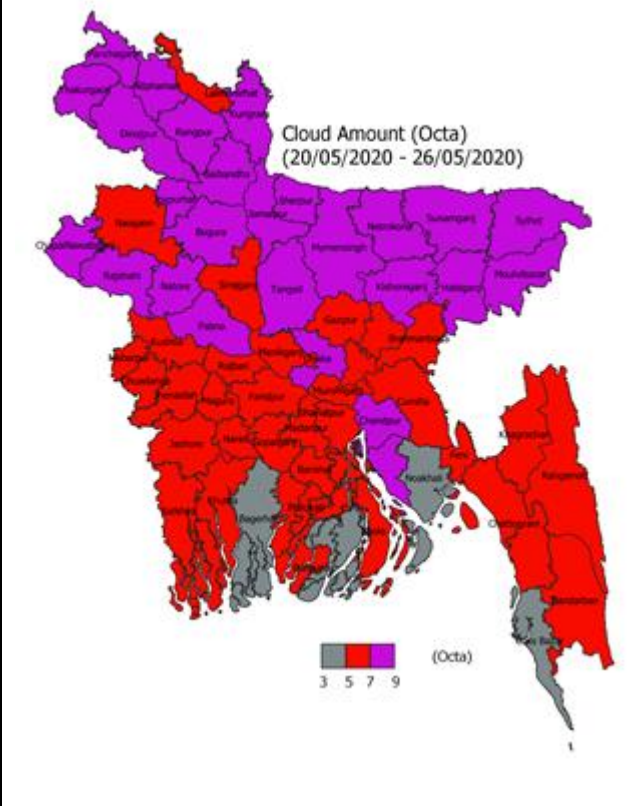
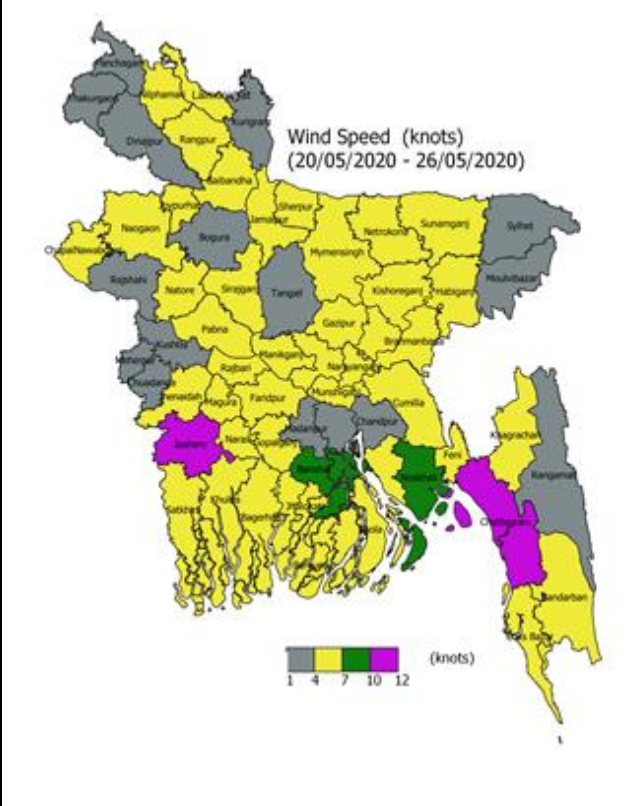
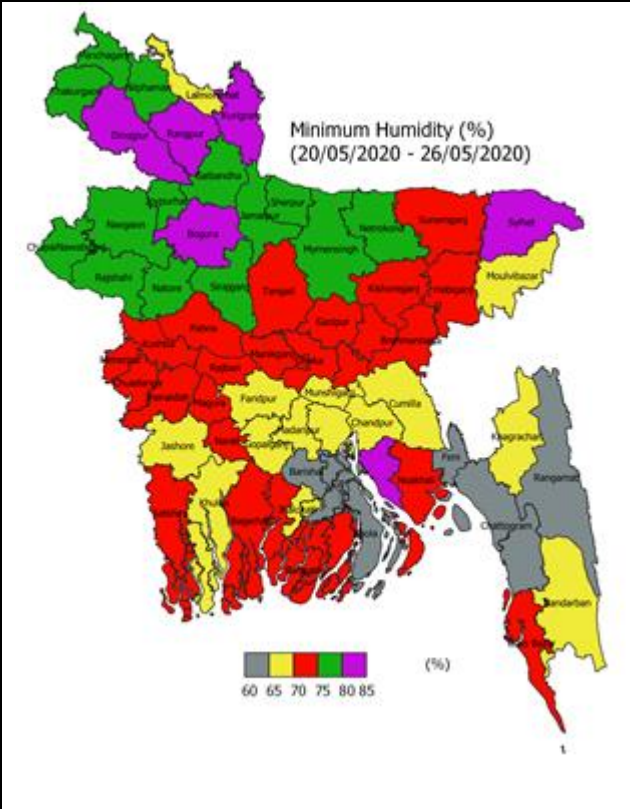
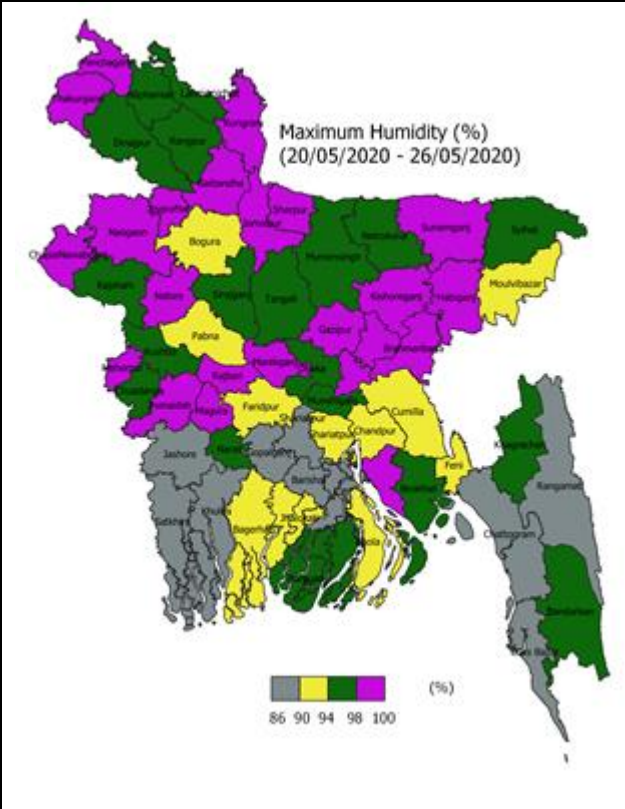
Forecast: Light to moderate rain/thunder showers accompanied by temporary gusty/squally wind is likely to occur at many places over Dhaka, Mymensingh, Barishal, Chattogram & Sylhet divisions and at a few places over Rajshahi, Rangpur & Khulna divisions with moderately heavy to heavy falls at places over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

Temperature: Day and night temperature may fall by (1-2)°C over the country.

Spatial Distribution of weather parameters for the Week ending 26 May 2020





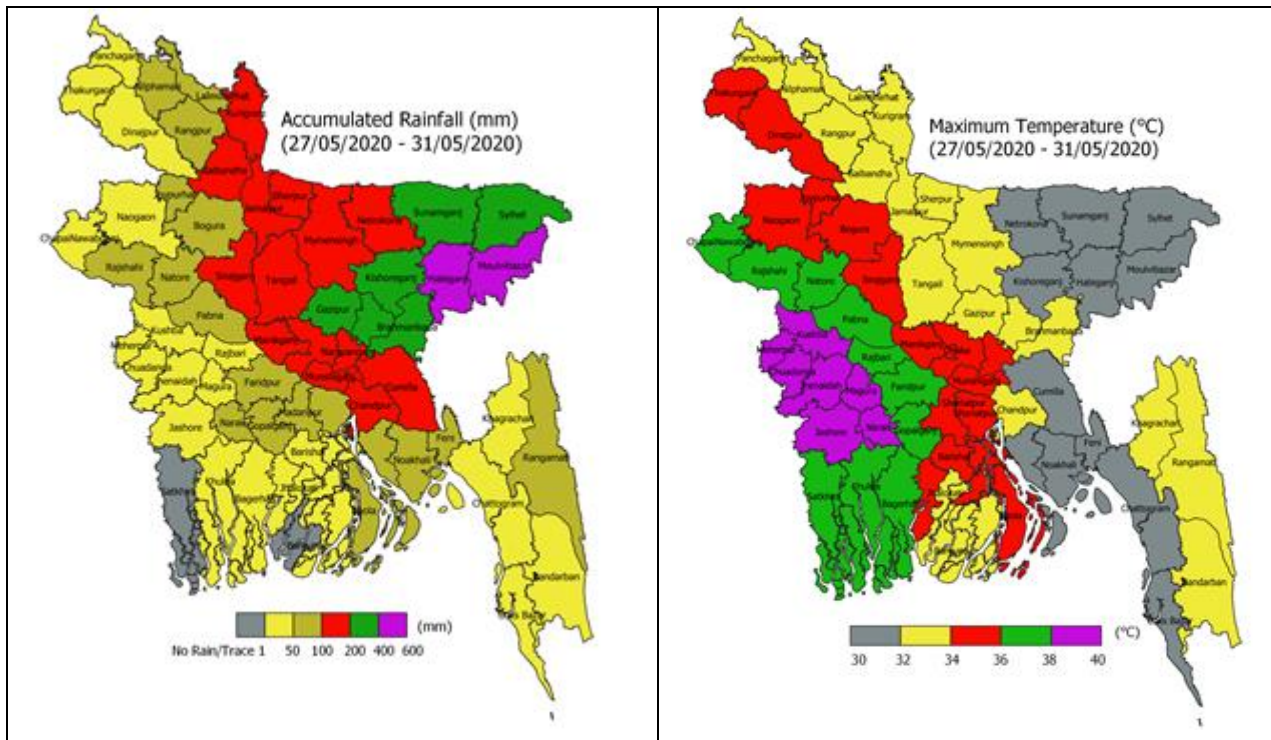


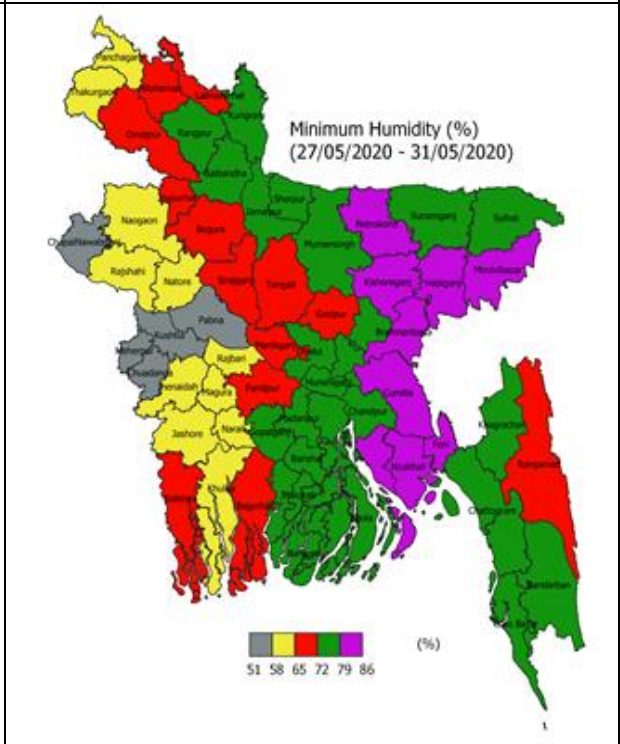
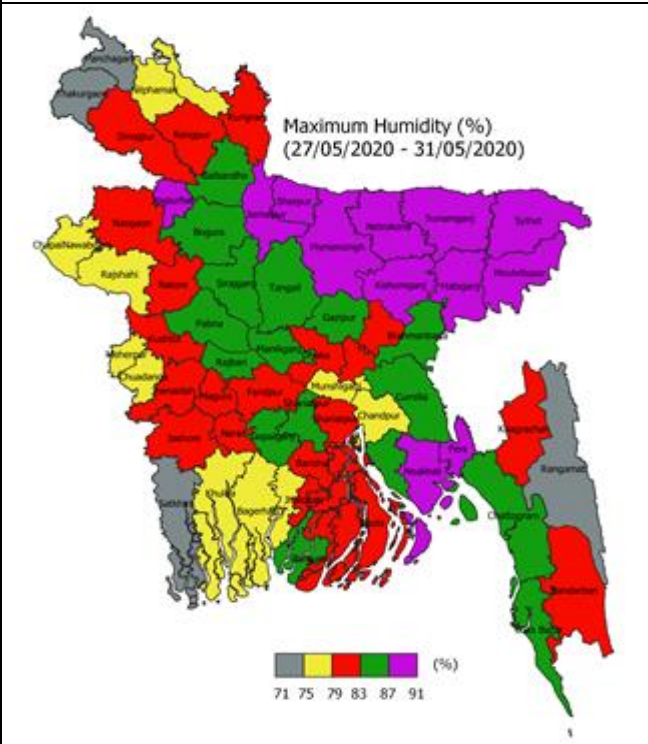
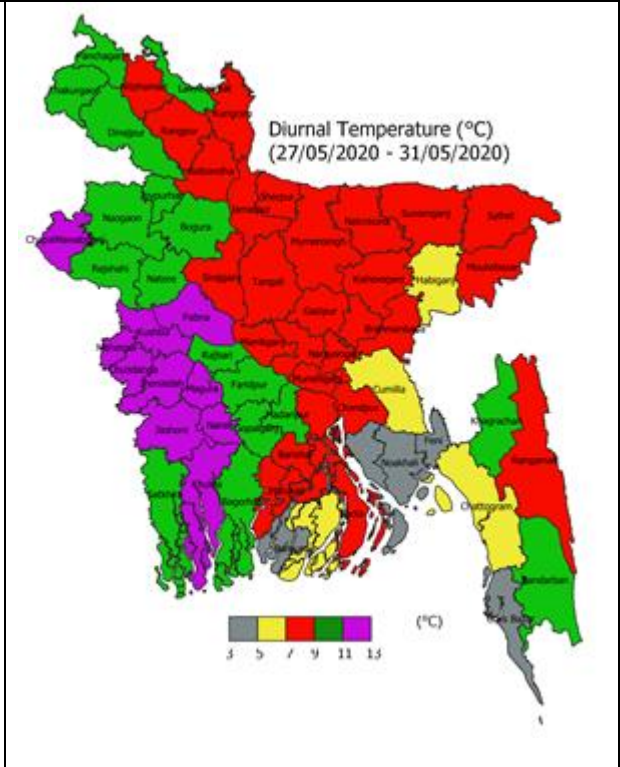
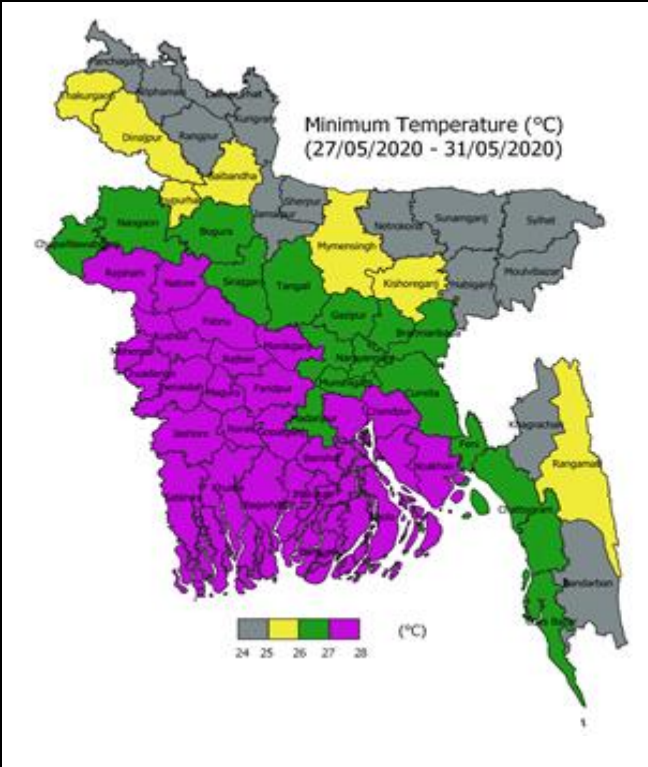
Weather Forecast and Advisory for the Period of 27.05.2020 to 03.06.2020

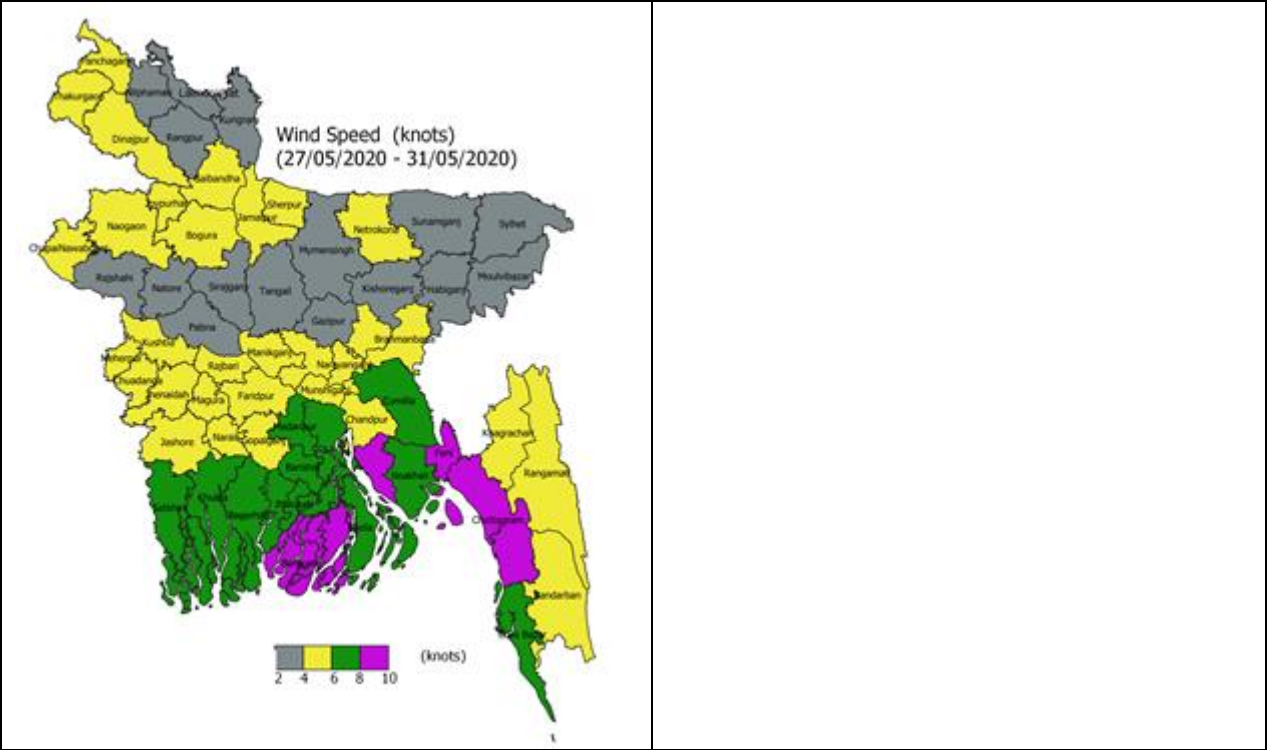
Bright sunshine hour is likely to be from 5.00 to 6.00 hours per day during this week. Average free water loss is likely to be from 3.00 to 4.00 mm per day during this week.

- Light (04-10mm/day) to moderate (11-22 mm/day) rain/thunder showers accompanied by temporary gusty/squally wind is likely to occur at many places over Dhaka, Mymensingh, Sylhet, Chattogram, Rajshahi and Rangpur divisions and at a few places over Khulna and Barishal Divisions and with chances of moderately heavy (23-43 mm/day) to heavy (44-88 mm/day) falls 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 27 May -31 May'2020

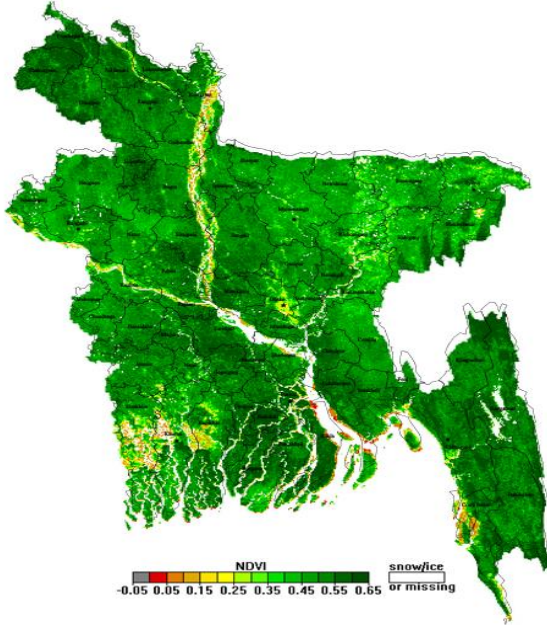




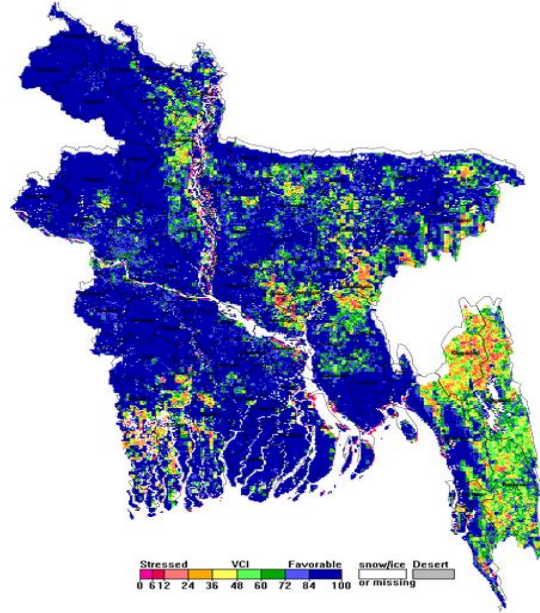


Different Satellite Products over Bangladesh

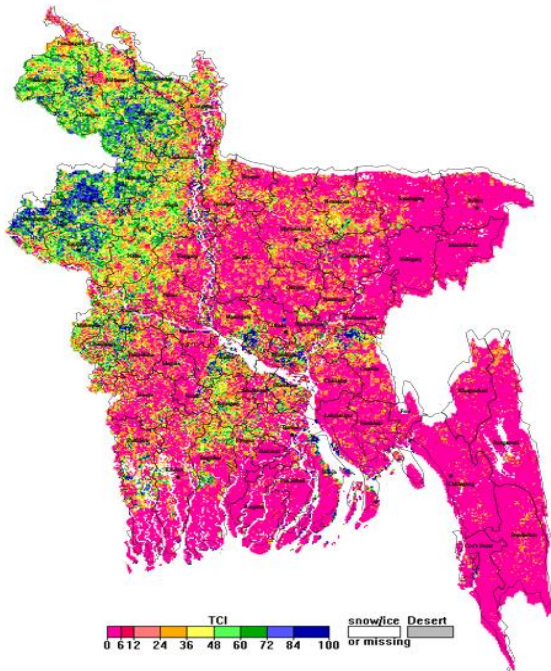
NOAA/VIIRS BLENDED NDVI composite for the week No. 20 (12 May-18 May 2020) over Agricultural regions of Bangladesh



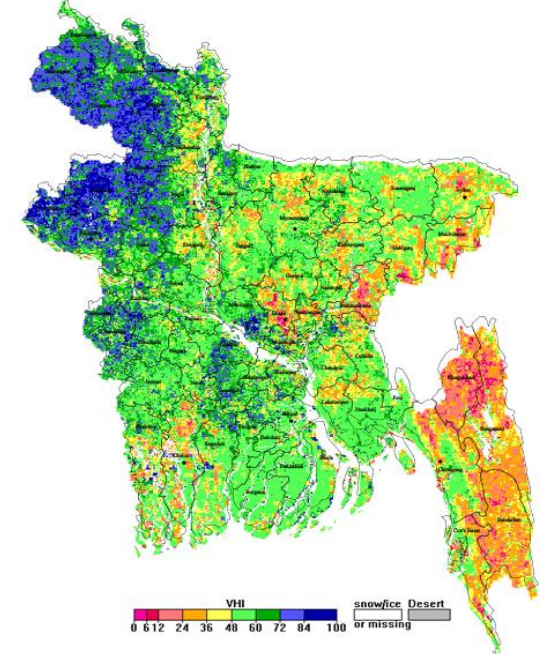
NOAA/ AVHRR BLENDED VCI composite for the week No. 20 (12 May-18 May 2020) over Agricultural regions of Bangladesh



NOAA/ AVHRR BLENDED TCI composite for the week No. 20 (12 May-18 May 2020) over Agricultural regions of Bangladesh

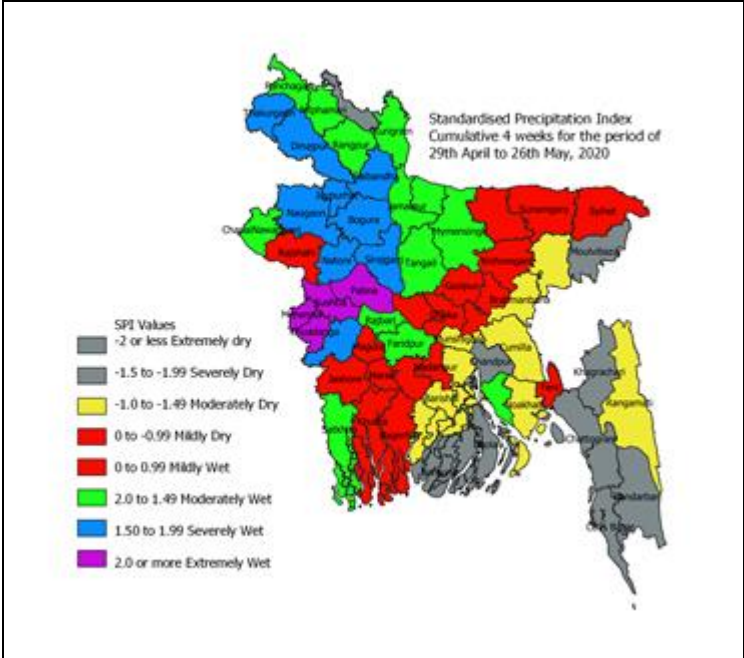


NOAA/ AVHRR BLENDED VHI composite for the week No. 20 (12 May-18 May 2020) over Agricultural regions of Bangladesh



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 western parts and mild to moderately wet condition prevails in southwest and central parts and extremely dry conditions prevailed some pockets in northeast part, southeast and southern parts of Bangladesh for last four weeks.



Data source: Bangladesh Meteorological Department