



MINISTRY OF DIGITAL ECONOMY AND SOCIETY,
THAI METEOROLOGICAL DEPARTMENT

3-month Climate Prediction of Thailand

During March – May 2020

Issued on 2 March 2020

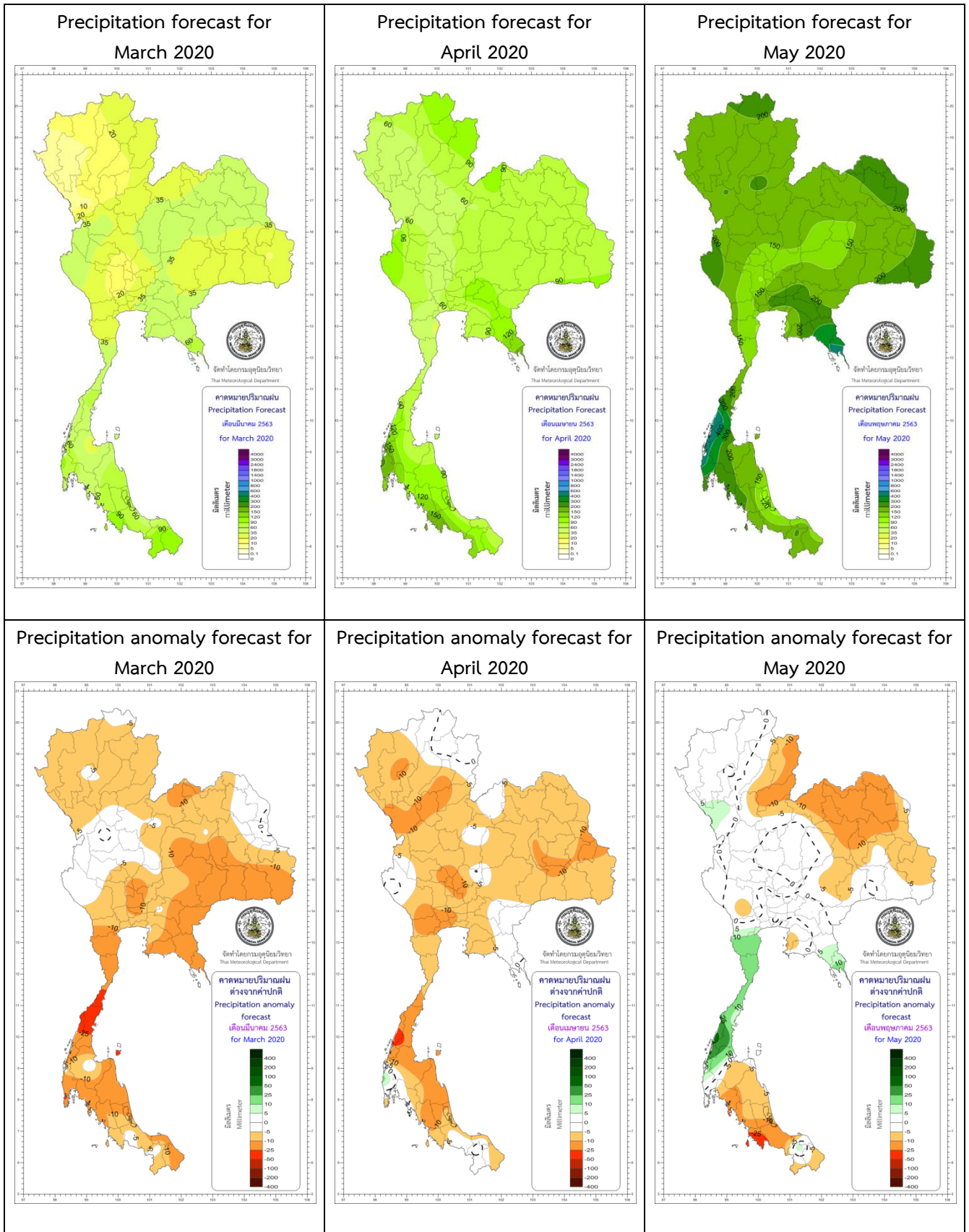
Thailand climate for March-April-May 2019 from baseline: 1981-2010

March 2020: Sweltering and dry weather together with little humidity occurs with very hot weather on some days especially around the Upper Thailand because mostly southerly wind prevails over Thailand. Although at some periods, some cold air masses from China will prevail to collide with existing hot air masses over Thailand, this causes summer thunderstorms to happen specifically around the Upper Thailand. These summer thunderstorms often occur at short durations around narrow or small areas along with instantly gusty wind. They can also feasibly contribute to life and property damages.

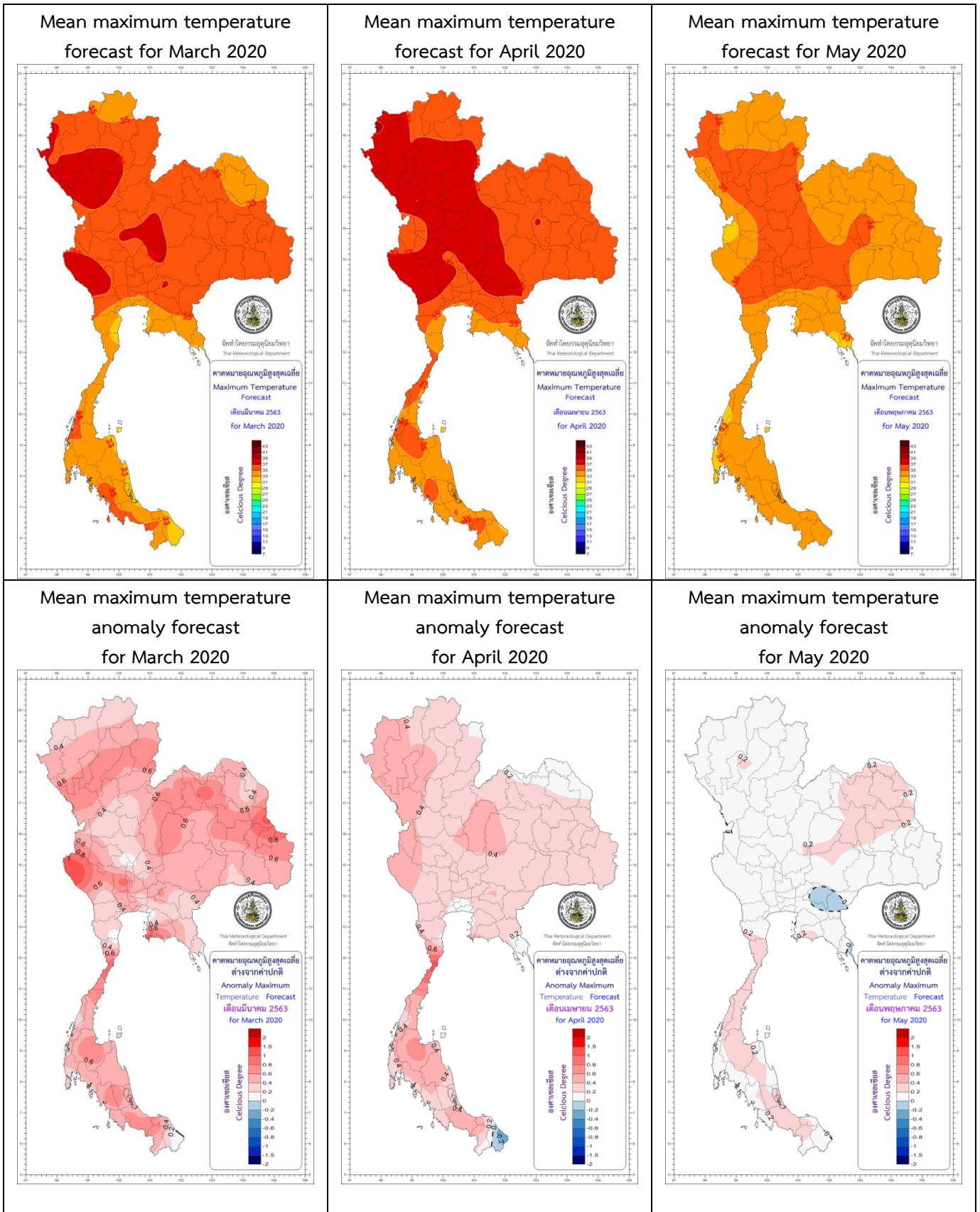
April 2020: This is the most sweltering month for the whole year, especially around the Upper Thailand. Often, hot to very hot weather occurs including with low-pressure air mass cells along with more heat prevailing over the Upper Thailand. The reason is that this month is at the duration of the Sun radiates perpendicularly to the plane of Thailand. As a result, summer thunderstorms occur influencing the rain amount of this month to increase more than that of the past month in every part of Thailand.

May 2020: As being the transitional period from the summer to the rainy seasons, the common weather during the 1st half of this month is usually sweltering. Also, thunder rain storms and summer thunderstorms occur often. Sometimes, hail happens too. And from the influential heat low-pressure air mass cells, mostly at the 2nd half of this month as the start of the rainy season, temperature will reduce with increasing rain. In other words, the prevailing wind over Thailand will start to transform into southwest monsoon while the low-pressure trough placing over Malaysia moves upward to place over the Southern Thailand and the central part of Thailand consecutively. Besides, some tropical cyclones developing in the Andaman Sea and the Bay of Bengal may move near or toward the western side of Thailand further.

Precipitation (mm/month) and Anomaly (mm/month) Forecast:

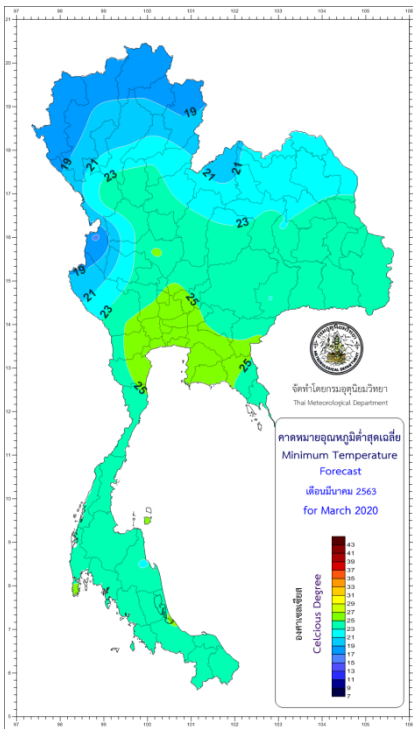


Mean Maximum Temperature (°C) and Anomaly (°C) Forecast:

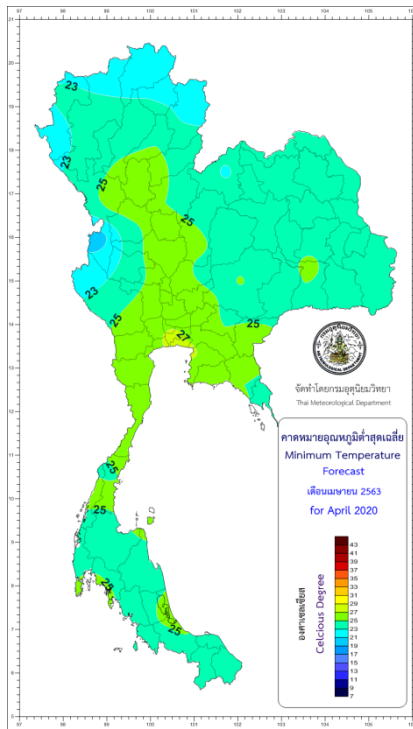


Mean Minimum Temperature (°C) and Anomaly (°C) Forecast:

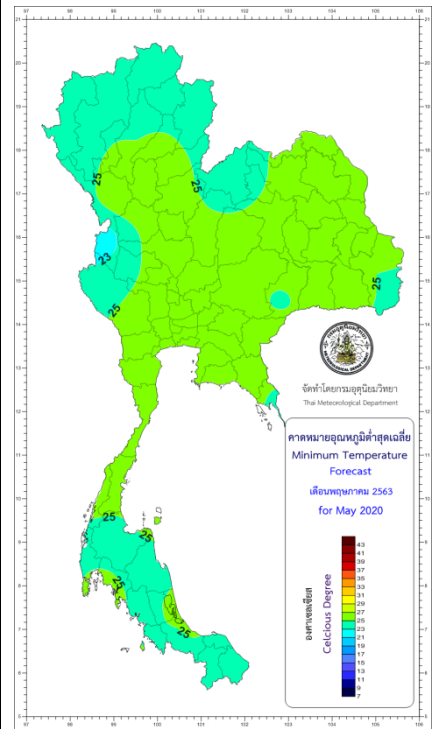
Mean minimum temperature forecast for March 2020



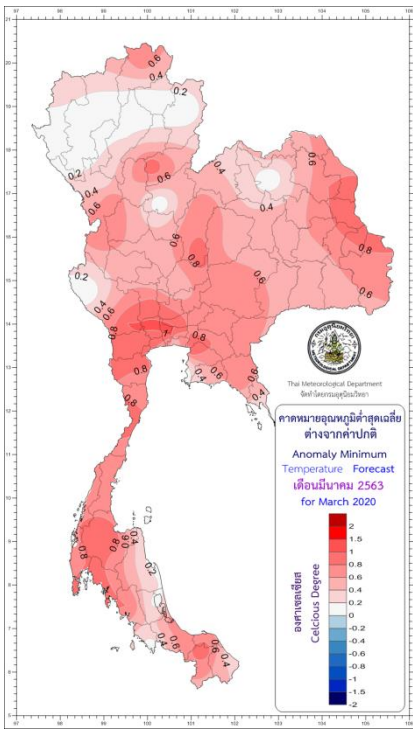
Mean minimum temperature forecast for April 2020



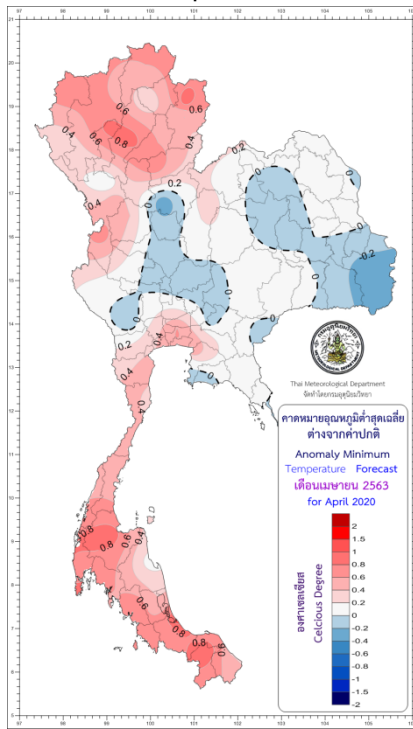
Mean minimum temperature forecast for May 2020



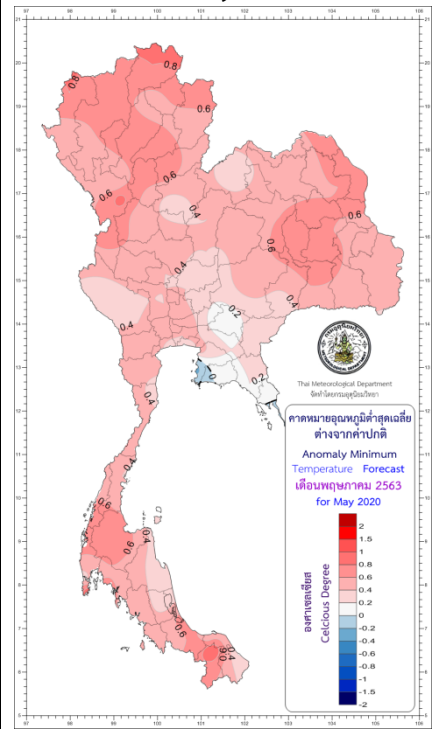
Mean minimum temperature anomaly forecast for March 2020



Mean minimum temperature anomaly forecast for April 2020



Mean minimum temperature anomaly forecast for May 2020



*** Caution: ***

March and April 2020: Often, summer thunderstorms happen as thunder rain storms, gusty wind and possibly falling hail at some areas. As a result, property and crop damages may occur.

During late April and May 2020: Probably, some low-pressure air mass cells develop around the Andaman Sea. These may strengthen to become depressions and tropical cyclones further. Their movements are toward northerly to easterly and may move closely toward the western side of Thailand. Thus, the western portions of both of the northern and central parts including with that of the Southern Thailand will meet more rain.

The public then should follow the weather forecast news from the Thai Meteorological Department closely.

Below right Image source:

https://www.researchgate.net/figure/Study-area-the-Indochina-Peninsula-in-Monsoon-Southeast-Asia_fig5_296329477

The below Image illustrates 7 parts of Thailand with seasons and Monsoons or wind:

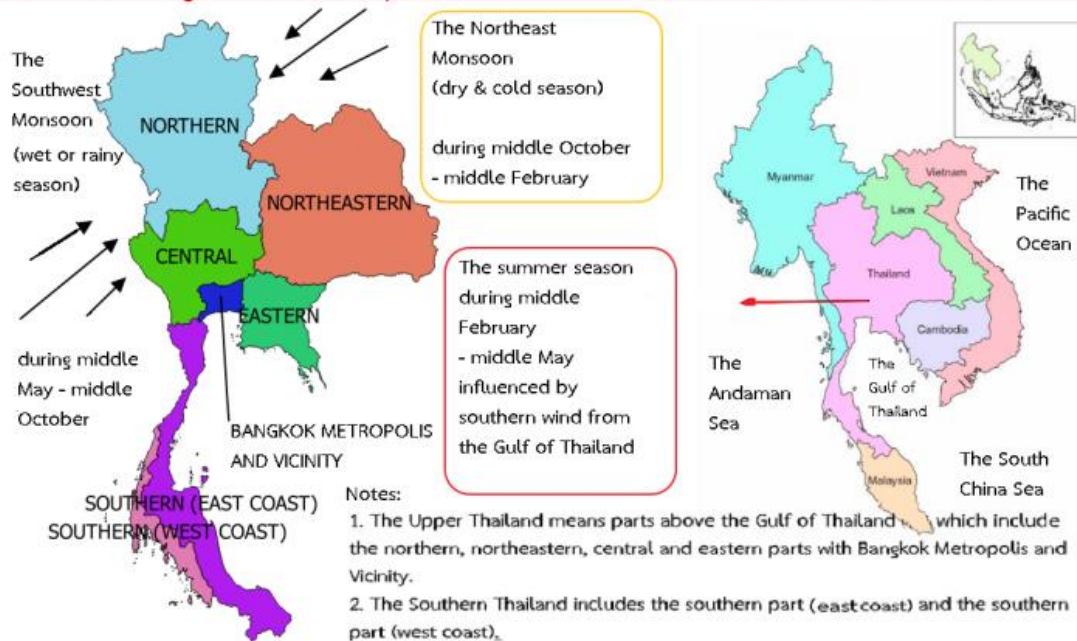


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal (Baseline period: 1981-2010)					
	March 2020			April 2020			May 2020			March		April		May	
	Rain (mm)	Rainy Days	Comparing with normal	Rain (mm)	Rainy Days	Comparing with normal	Rain (mm)	Rainy Days	Comparing with normal	Rain (mm)	Rainy Days	Rain (mm)	Rainy Days	Rain (mm)	Rainy Days
Northern	20-30	2-3	20 % Below normal	50-80	5-7	10 % Below normal	160-200	14-16	Near normal	28.1	3.1	71.3	7.0	177.8	15.5
Northeastern	30-50	3-5	20 % Below normal	60-90	6-8	10 % Below normal	160-200	14-16	5 % Below normal	44.7	4.8	86.3	8.0	187.1	15.3
Central	20-30	2-3	20 % Below normal	50-80	4-6	10 % Below normal	130-170	13-15	Near normal	36.0	3.4	79.5	6.4	172.1	14.3
Eastern	40-60	3-5	20 % Below normal	70-110	6-8	5 % Below normal	190-250	15-17	Near normal	62.1	5.4	98.9	8.3	223.9	15.8
Southern Thailand (East Coast)	50-70	3-5	20 % Below normal	60-90	5-7	10 % Below normal	120-170	13-15	Near normal	68.4	5.4	75.4	7.3	143.7	14.3
Southern Thailand (West Coast)	60-90	6-8	20 % Below normal	130-170	11-13	5 % Below normal	270-350	19-21	Near normal	88.8	7.6	160.6	12.7	310.0	19.9
Bangkok Metropolis and Vicinity	20-30	2-3	20 % Below normal	60-100	4-6	10 % Below normal	200-260	15-17	Near normal	42.1	3.6	91.4	6.5	247.7	16.2

Table 2: Prediction of Mean Maximum Temperature (Tmax) and Mean Minimum Temperature (Tmin) (°C) comparing with normal:

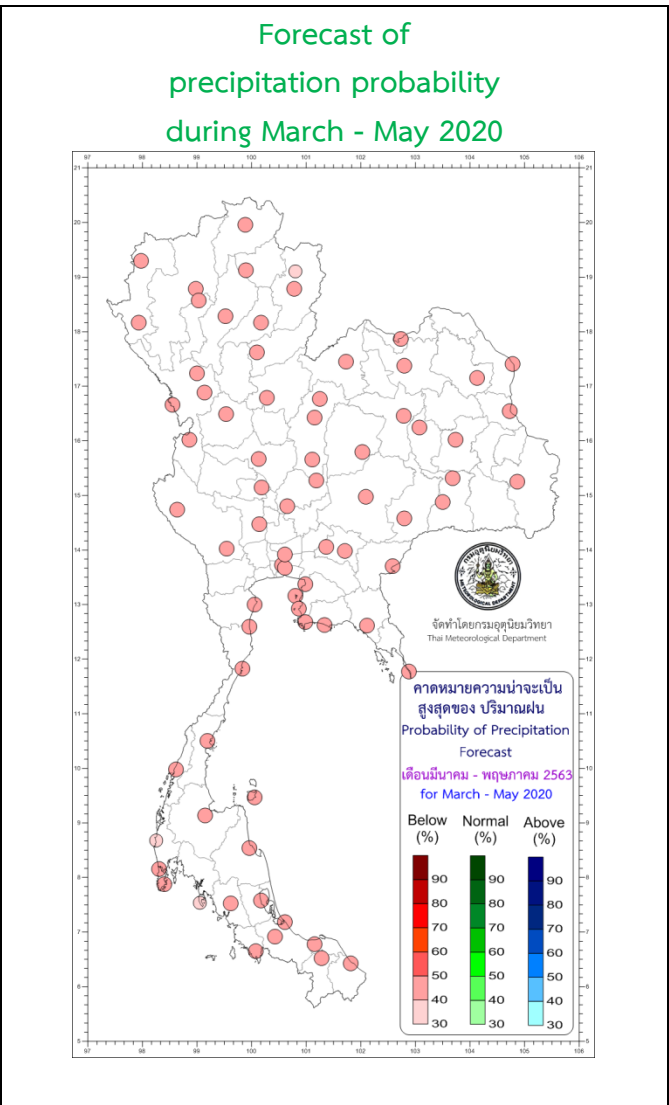
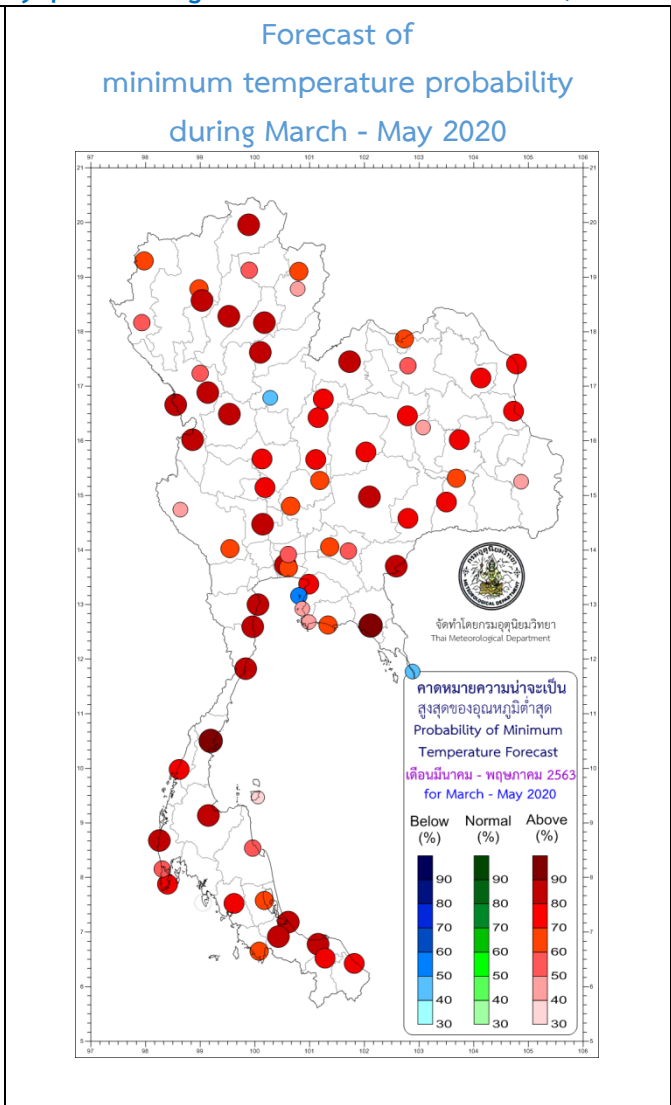
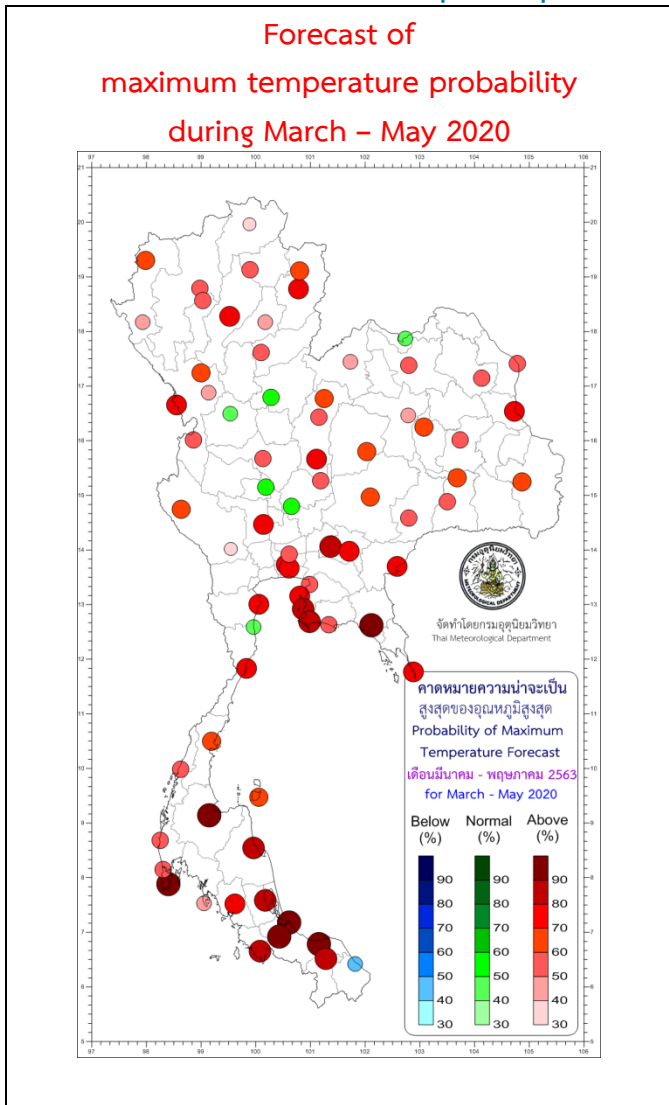
Part	Prediction									Normal (Baseline period: 1981-2010)					
	March 2020			April 2020			May 2020			March		April		May	
	Mean Tmax	Mean Tmin	Comparing with Normal	Mean Tmax	Mean Tmin	Comparing with Normal	Mean Tmax	Mean Tmin	Comparing with Normal	Mean Tmax	Mean Tmin	Mean Tmax	Mean Tmin	Mean Tmax	Mean Tmin
Northern	36-38	19-21	Above normal	36-38	23-25	Above normal	34-36	24-26	Near normal	36.1	20.4	37.1	23.4	34.7	24.2
Northeastern	35-37	22-24	Above normal	35-37	24-26	Above normal	34-36	24-26	Near normal	35.1	22.4	36.1	24.5	34.4	24.8
Central	36-38	23-25	Above normal	36-38	24-26	Above normal	34-36	25-27	Near normal	36.1	24.4	37.0	25.8	35.2	25.7
Eastern	33-35	24-26	Above normal	34-36	25-27	Above normal	33-35	25-27	Near normal	33.8	24.9	34.7	25.9	33.7	25.8
Southern Thailand (East Coast)	32-34	23-25	Above normal	33-35	24-26	Above normal	33-35	24-26	Near normal	32.6	23.7	33.7	24.6	33.5	24.9
Southern Thailand (West Coast)	34-36	23-25	Above normal	33-35	24-26	Above normal	32-34	24-26	Near normal	34.4	23.7	34.2	24.4	32.7	24.6
Bangkok Metropolis and Vicinity	34-36	25-27	Above normal	34-36	26-28	Above normal	34-36	26-28	Near normal	34.3	25.9	35.4	26.9	34.4	26.3

Remarks: - Normal means average during the 30-year period (A.D. 1981 – 2010 or B.E. 2524 – 2553).

- This long-range climate forecast is created by applying some climate models and statistical methods, the public then should follow the daily weather forecast news from the Thai Meteorological Department for more accuracy further.
- The next 3-month climate forecast will be published online before the end of March 2019.
- Further enquiry of monthly climate, 3-month climate and seasonal forecasts can be preceded at Tel: (662)-398-9929 or Fax: (662)-383-8827.
- Also, please follow monthly climate, 3-month climate and seasonal forecasts at <http://www.tmd.go.th/en/> at the climate tab.

Climate Center, Meteorological Development Division,
 Thai Meteorological Department,
 Ministry of Digital Economy and Society

Point probability forecast maps of **maximum** and **minimum** temperature, and **precipitation**
 (Point maps for probability percentage (%) of: below normal, near normal or above normal)



Note: These maps are mean model forecasts for being included in this three-month climate forecast.