



MINISTRY OF DIGITAL ECONOMY AND SOCIETY,  
THAI METEOROLOGICAL DEPARTMENT

## 3-month Climate Prediction of Thailand

During February – April 2024

Issued on 29 January 2024

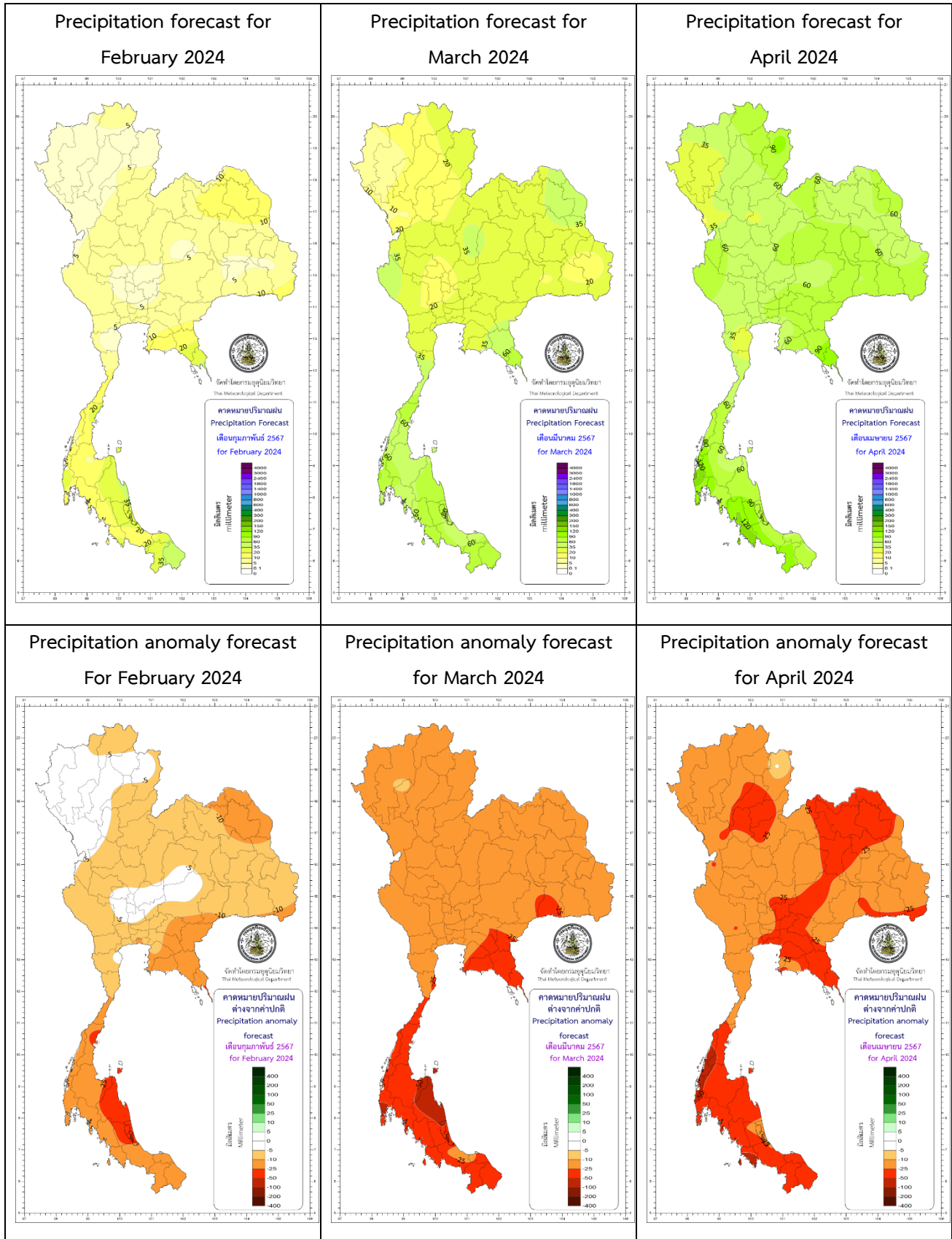
### Thailand climate for February – March – April from 30-year normal (A.D. 1991 - 2020 or B.E. 2534 - 2563 baseline average)

**February** Normally, this month is during the transition period from the winter to the summer. In other words, the high-pressure air mass areas prevailing over Thailand will start to weaken. Still, common weather of Thailand is still to be cool with morning fog whereas that of the northern and northeastern parts is still cold to very cold at some areas, mostly during the 1<sup>st</sup> half of this month. Afterward, rising temperature occurs due to prevailing hotly southerly wind replacing the northeastern monsoon. Thus, the start of the summer appears since the middle of this month onward. Furthermore, rain at the Southern Thailand will be less than that of the past month, especially at the East Coast.

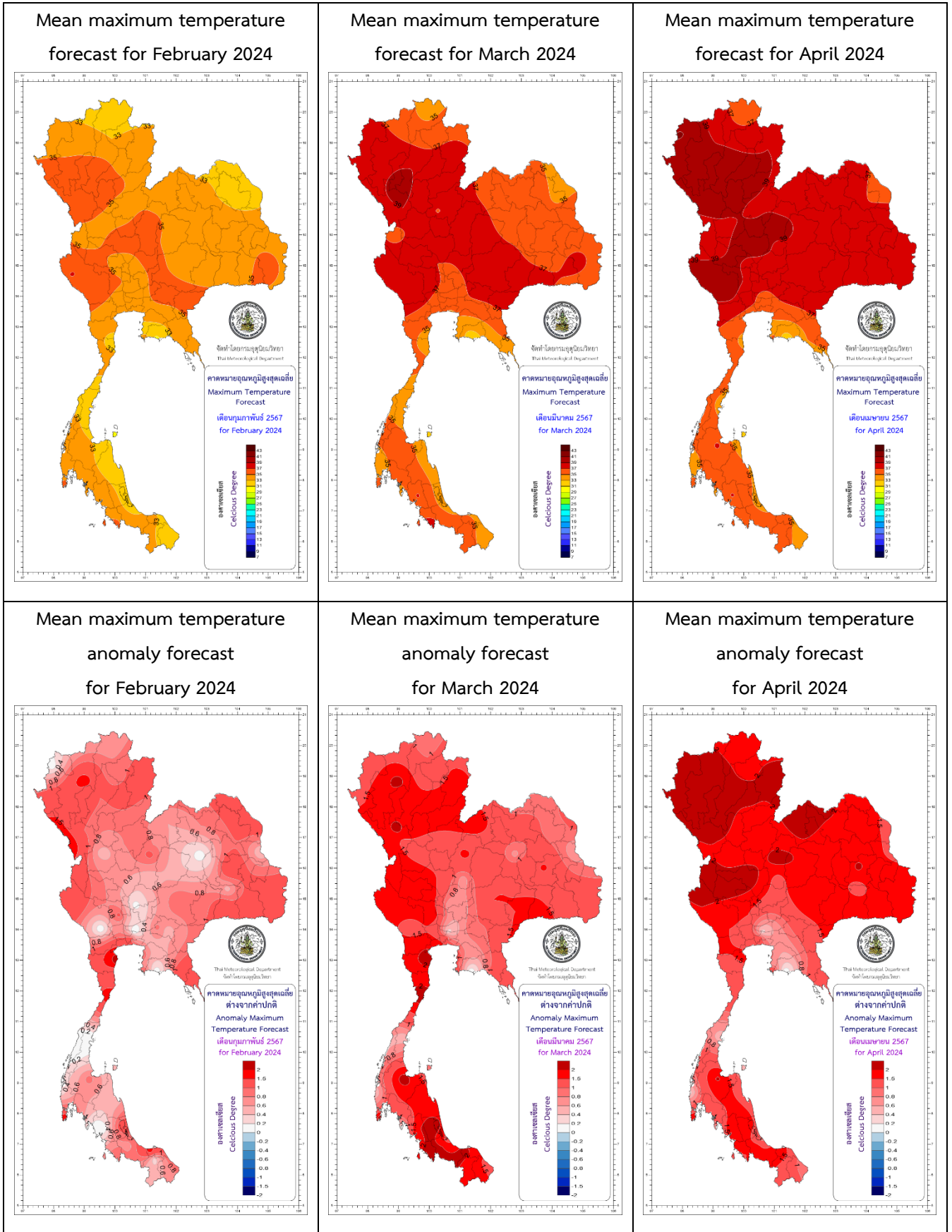
**March** Sweltering and dry weather with little humidity appears along with very hot weather on some days, specifically at the Upper Thailand due to mostly prevailing southerly wind over Thailand. However, at some periods, coldly high-pressure air masses from China will meet hot air masses already prevailing over Thailand. This brings about summer thunderstorms, specifically around the Upper Thailand. The summer thunderstorms often occur during short duration and at narrow areas. Commonly, severely gusty wind often appears too and feasibly causes damages to life and property.

**April** This is the most sweltering month for the whole year, especially around the Upper Thailand. Often, hot to very hot weather occurs together 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.

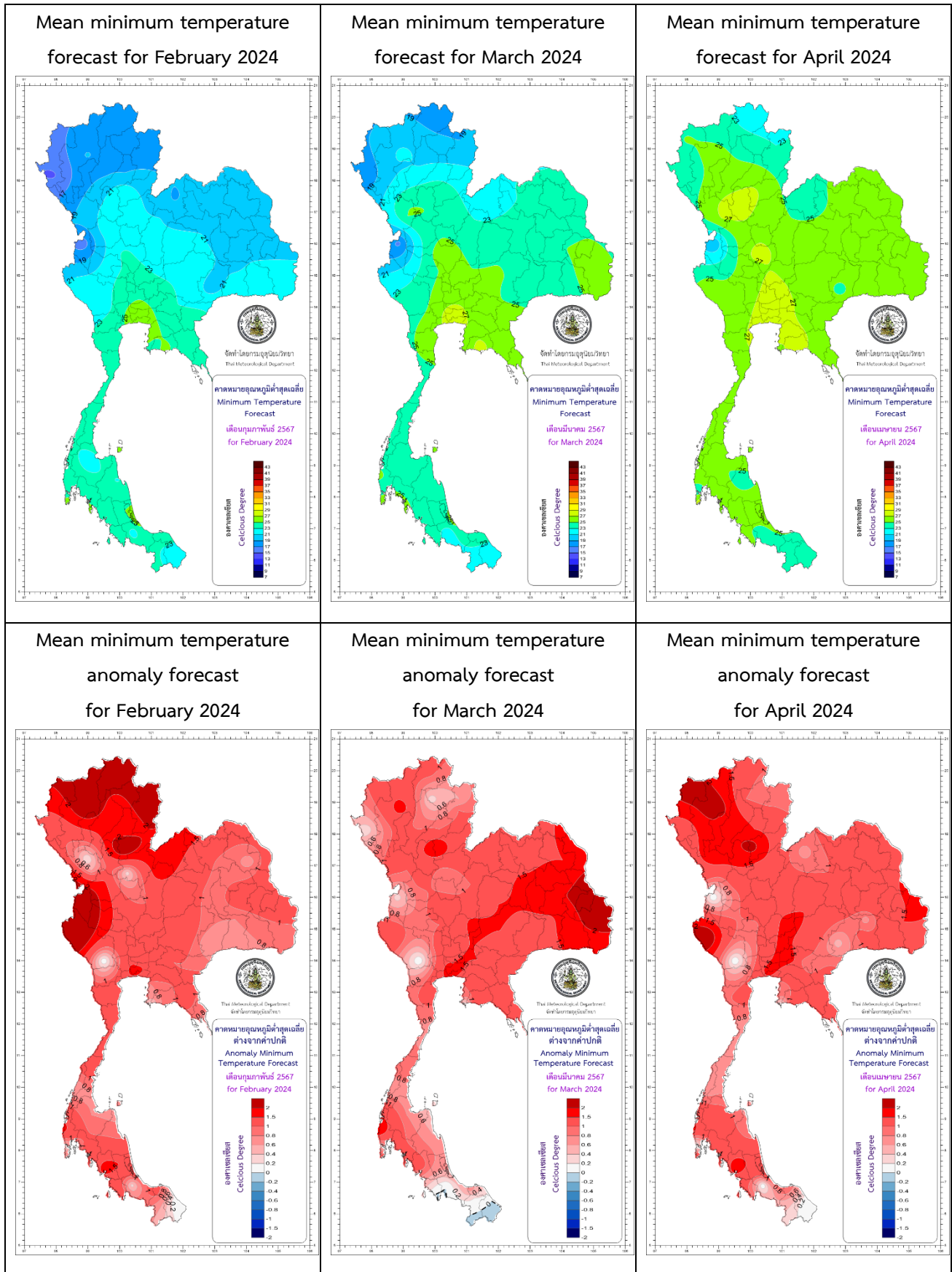
Precipitation (mm/month) and Anomaly (mm/month) Forecast:



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



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



\*\*\* Caution: \*\*\*

**February 2024:** Some upper-air westerly wind waves moving easterly from the Myanmar direction may pass the Upper Thailand and the western portion of Thailand causing the area to meet thunder rain with gusty wind at some areas and possibly falling hail.

**March and April 2024:** Frequently, summer thunderstorms occur as thunder rain with gusty wind and perhaps falling hail at some areas causing life and property damages. Consequently, the public should follow weather forecast news from the Thai Meteorological Department closely further.

Below right Image source:

[https://www.researchgate.net/figure/Study-area-the-Indochina-Peninsula-in-Monsoon-Southeast-Asia\\_fig5\\_296329477](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:**

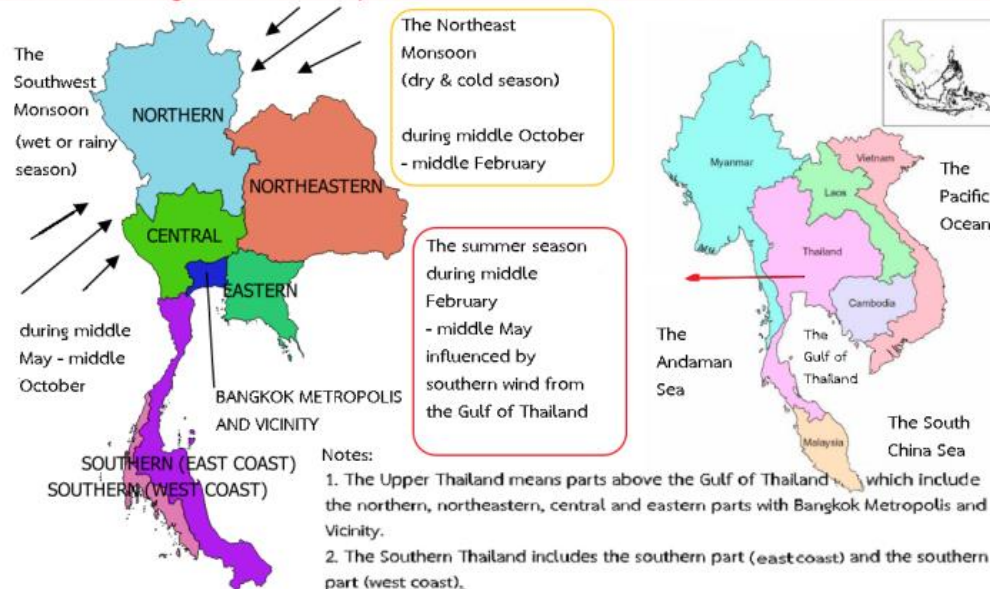


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal (Baseline period: 1991-2020)					
	February 2024			March 2024			April 2024			February		March		April	
	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	Less than 10	1-2	50% Below normal	15-30	3-5	40% Below normal	40-60	6-8	30% Below normal	9.8	1.3	32.4	3.4	70.5	6.8
Northeastern	Less than 10	2-3	50% Below normal	20-40	4-6	40% Below normal	50-80	7-9	30% Below normal	15.6	2.2	45.7	4.9	85.7	7.8
Central	Less than 10	1-2	50% Below normal	15-30	3-5	40% Below normal	40-60	6-8	30% Below normal	10.6	1.5	37.5	3.8	71.6	6.4
Eastern	10-20	3-5	50% Below normal	20-40	5-7	40% Below normal	60-90	8-10	30% Below normal	28.4	3.2	66.5	6.0	102.0	8.3
Southern Thailand (East Coast)	20-30	3-5	50% Below normal	40-70	5-7	40% Below normal	50-80	6-8	30% Below normal	44.2	3.9	89.8	5.7	85.9	7.0
Southern Thailand (West Coast)	10-20	3-5	50% Below normal	50-80	7-9	40% Below normal	90-120	13-15	30% Below normal	30.2	3.9	103.6	8.1	162.2	13.1
Bangkok Metropolis and Vicinity	Less than 10	2-3	50% Below normal	20-40	3-5	40% Below normal	60-90	6-8	30% Below normal	17.7	2.5	48.6	4.1	95.0	6.5



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

Part	Prediction									Normal (Baseline period: 1991-2020)*					
	February 2024			March 2024			April 2024			February		March		April	
	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	34-36	18-20	Above normal	36-38	21-23	Above normal	38-40	24-26	Above normal	33.8	17.4	36.1	20.6	37.2	23.6
Northeastern	33-35	20-22	Above normal	35-37	23-25	Above normal	37-39	25-27	Above normal	33.0	19.6	35.2	22.7	36.2	24.6
Central	34-36	22-24	Above normal	37-39	24-26	Above normal	38-40	26-28	Above normal	34.6	22.3	36.5	23.9	37.5	25.3
Eastern	32-34	23-25	Above normal	34-36	25-27	Above normal	34-36	26-28	Above normal	33.0	23.5	33.9	25.0	34.7	25.9
Southern (East Coast)	31-33	23-25	Above normal	34-36	23-25	Above normal	34-36	25-27	Above normal	31.5	22.9	32.8	23.7	33.9	24.7
Southern (West Coast)	33-35	23-25	Above normal	34-36	24-26	Above normal	34-36	25-27	Above normal	33.7	23.4	34.3	23.9	34.2	24.7
Bangkok and Vicinity	33-35	25-27	Above normal	34-36	27-29	Above normal	35-37	28-30	Above normal	33.7	24.8	34.6	26.0	35.6	26.9

**Remarks:** - \* Normal means average during the 30-year period (A.D. 1991 – 2020 or B.E. 2534 – 2563).

- 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 December 2024.
- Further enquiry of monthly climate, 3-month climate and seasonal forecasts can be preceded at Tel: (662)-398-9929 or Fax: (662)-383-8827

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Climate Center, Meteorological Development Division, Thai Meteorological Department [www.climate.tmd.go.th](http://www.climate.tmd.go.th)

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