



MINISTRY OF DIGITAL ECONOMY AND SOCIETY,  
THAI METEOROLOGICAL DEPARTMENT

## 3-month Climate Prediction of Thailand

During May – July 2022

Issued on 29 April 2022

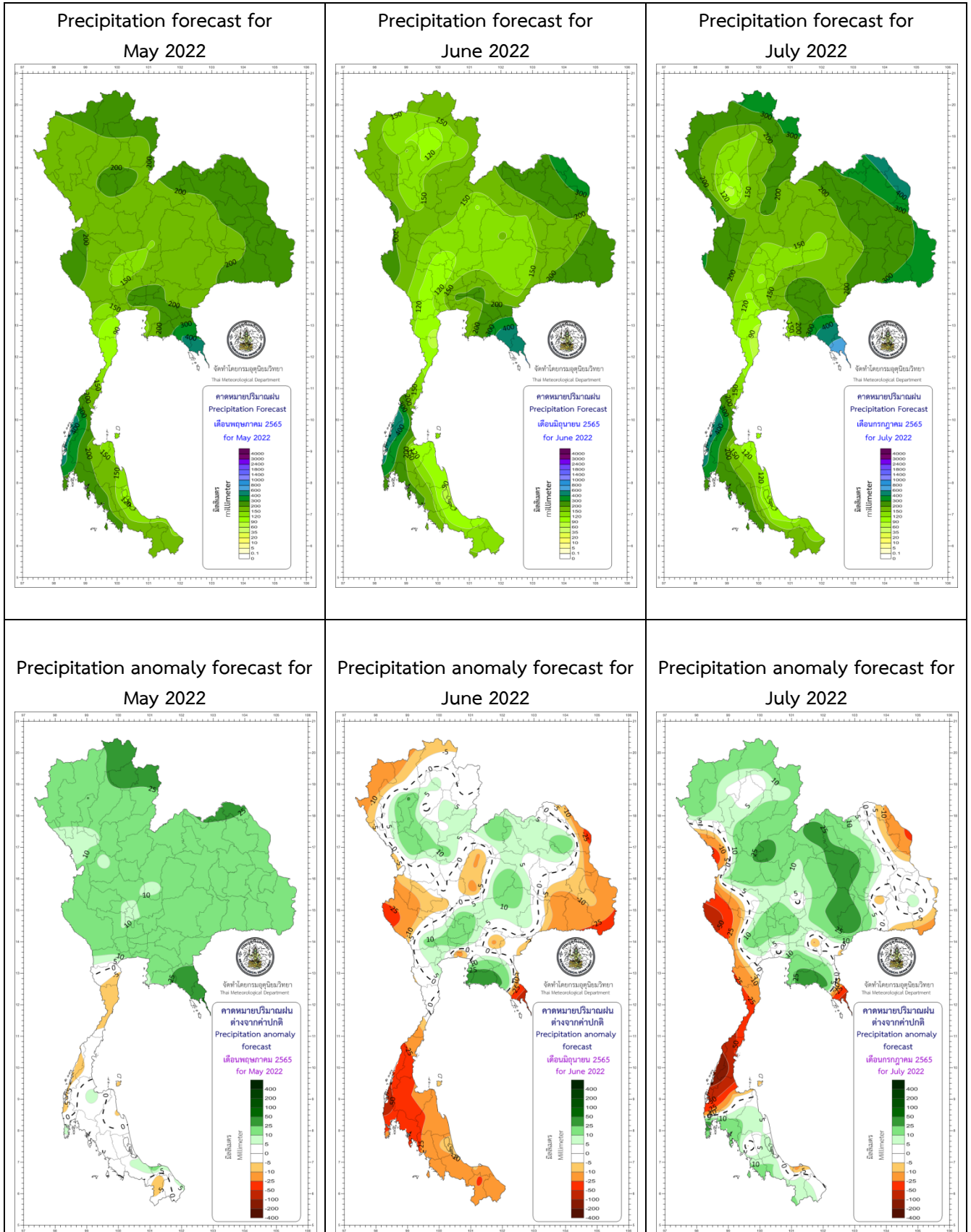
### Thailand climate for May – June – July from 30-year normal (A.D. 1991 - 2020 or B.E. 2534 - 2563 baseline average)

**May :** As being the transitional period from the summer to the rainy seasons, the common weather during the 1<sup>st</sup> 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 2<sup>nd</sup> 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 the 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.

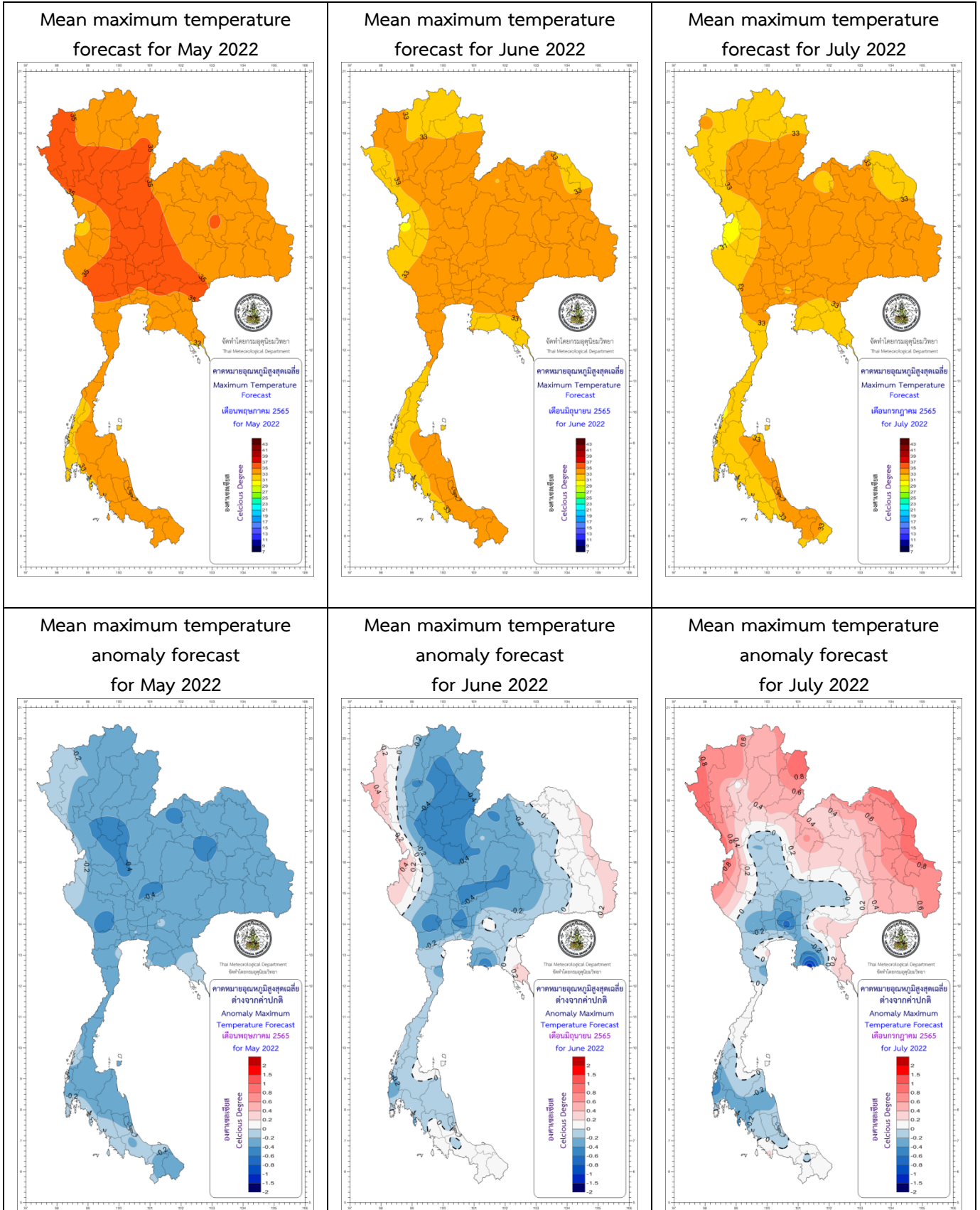
**June :** Usually, rainfall is abundant during the 1<sup>st</sup> half of this month from the influential Southwest Monsoon prevailing over Thailand together with the low-pressure trough placing over the central portion of Thailand. Afterward, rain will reduce and dry spell may occur for 1 - 2 weeks especially around the Upper Thailand due to the low-pressure trough moving upward to place over the southern portion of China including with the prevailing Southwest Monsoon over Thailand weakening. Additionally, some tropical cyclones from the Pacific Ocean or the South China Sea may feasibly move near or toward Thailand, specifically at the eastern portion of Thailand.

**July :** During the 1<sup>st</sup> half of this month, the dry spell will often occur continuously from late June because the low-pressure trough still prevails over the southern portion of China along with the Southwest Monsoon prevailing over Thailand mostly weakens. As a result, many areas will meet little or no rain continuously for many days. Later during the 2<sup>nd</sup> half of this month, abundant rainfall will happen again because of the coming back low-pressure trough moving downward to place over the Upper Thailand together with the Southwest Monsoon prevailing over Thailand becoming more active periodically. Additionally, some tropical cyclones may move near or toward Thailand along the eastern portion of Thailand.

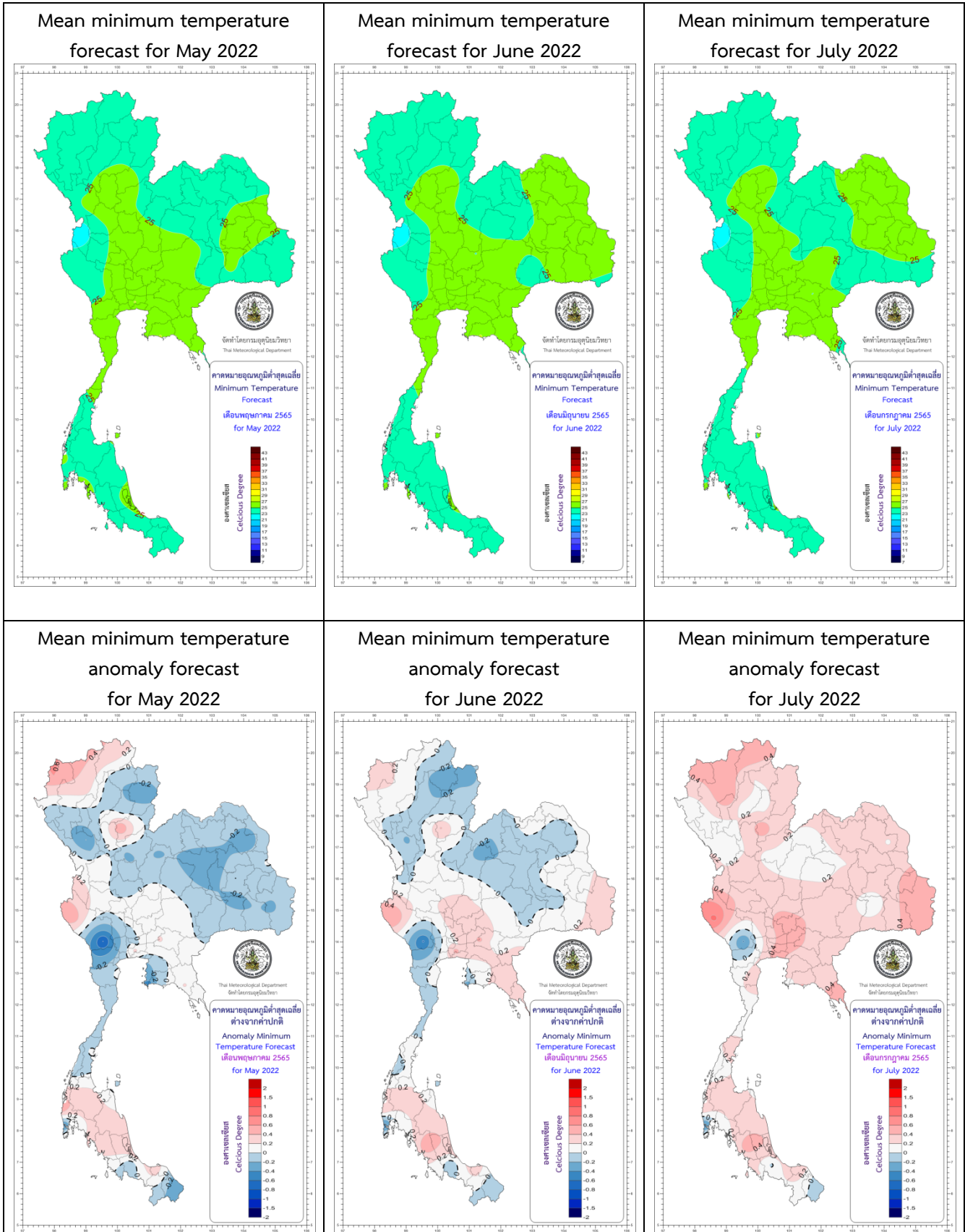
Precipitation (mm/month) and Anomaly (mm/month) Forecast:



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



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



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

During May 2021: Some low-pressure air mass cells may develop around the Andaman Sea. Then, they may strengthen to become depressions or tropical cyclones further. Their movements are toward the western side of Thailand. Thus, the western portions of both of the northern and central parts including with the Southern Thailand will meet more rainfall.

During June & July 2021: Frequently, some tropical cyclones will develop at the Western Pacific and move pass the Philippines toward the South China Sea. This influences the Southwest Monsoon prevailing over Thailand and the Gulf of Thailand to strengthen causing Thailand to meet more rainfall, specifically around the coastal areas of the eastern part and the Southern Thailand (west coast).

During late June until early July 2021: Often, dry spell will occur as the amount and distribution of rainfall reduces immensely. Consequently, water shortage for agricultural utilization may happen at many areas, specifically at repeated drought areas outside irrigation zones.

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:

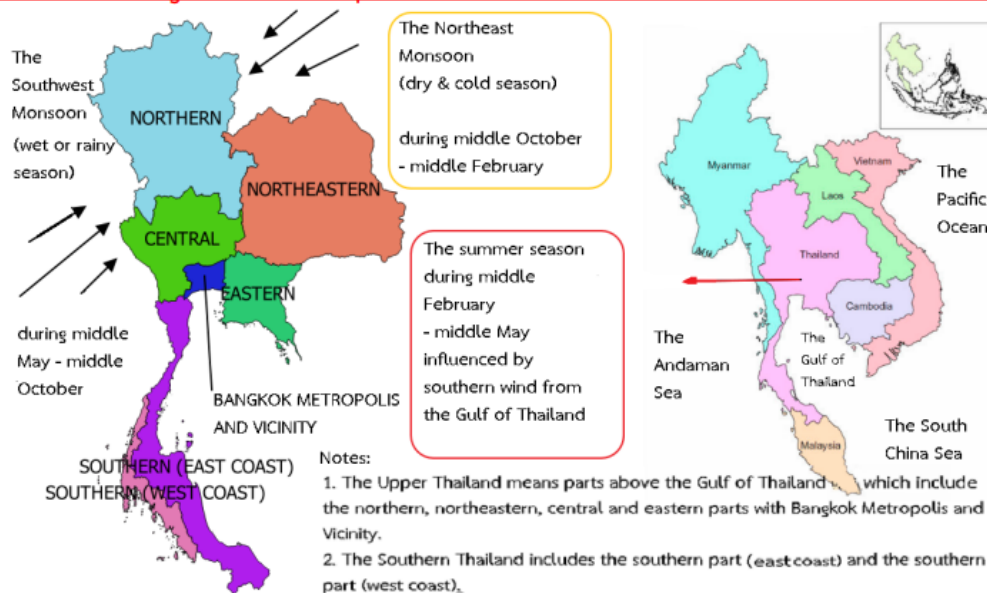


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal (Baseline period: 1991-2020)*					
	May 2022			June 2022			June 2022			May		June		July	
	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	170-210	16-18	10% Above normal	130-170	16-18	Near normal	180-220	19-21	5% Above normal	173.1	15.5	152.9	17.8	189.2	19.4
Northeastern	190-230	15-17	10% Above normal	180-220	15-17	Near normal	230-280	17-19	5% Above normal	191.2	15.3	197.9	16.1	241.9	17.4
Central	140-180	14-16	10% Above normal	110-150	14-16	Near normal	130-170	15-17	Near normal	146.9	14.3	133.2	15.4	151.8	16.4
Eastern	200-250	16-18	10% Above normal	230-280	15-17	Near normal	260-310	16-18	Near normal	204.1	15.8	258.4	16.7	287.4	17.2
Southern Thailand (East Coast)	110-150	13-15	Near normal	90-120	12-14	10 % Below normal	100-140	13-15	5 % Below normal	132.6	14.3	118.8	13.7	119.8	14.5
Southern Thailand (West Coast)	280-330	19-21	Near normal	280-330	17-19	10 % Below normal	310-360	18-20	5 % Below normal	302.7	19.9	339.5	18.9	351.6	19.8
Bangkok Metropolis and Vicinity	200-250	16-18	10% Above normal	180-220	15-17	Near normal	160-200	16-18	Near normal	207.1	16.2	195.6	16.2	183.3	17.1

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

Part	Prediction									Normal (Baseline period: 1991-2020)*					
	May 2022			June 2022			July 2022			May		June		July	
	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	23-25	Below normal	32-34	24-26	Near normal	32-34	24-26	Near normal	35.2	24.4	33.4	24.5	32.4	24.2
Northeastern	34-36	24-26	Below normal	33-35	24-26	Near normal	32-34	24-26	Near normal	34.9	25.0	33.8	25.1	32.8	24.7
Central	35-37	25-27	Below normal	33-35	24-26	Near normal	33-35	24-26	Near normal	35.9	25.5	34.5	25.1	33.6	24.8
Eastern	33-35	25-27	Below normal	32-34	25-27	Near normal	31-33	25-27	Near normal	34.0	26.1	33.0	25.8	32.4	25.5
Southern (East Coast)	33-35	24-26	Below normal	32-34	24-26	Near normal	32-34	24-26	Near normal	33.9	24.9	33.4	24.7	33.0	24.4
Southern (West Coast)	32-34	24-26	Below normal	31-33	24-26	Near normal	31-33	24-26	Near normal	32.9	24.9	32.1	24.7	31.8	24.5
Bangkok and Vicinity	34-36	26-28	Below normal	33-35	26-28	Near normal	32-34	26-28	Near normal	35.0	26.7	34.0	26.3	33.4	26.1

**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 April 2022.
- 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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