



MINISTRY OF DIGITAL ECONOMY AND SOCIETY,
THAI METEOROLOGICAL DEPARTMENT

3-month Climate Prediction of Thailand

During April – June 2022

Issued on 25 March 2022

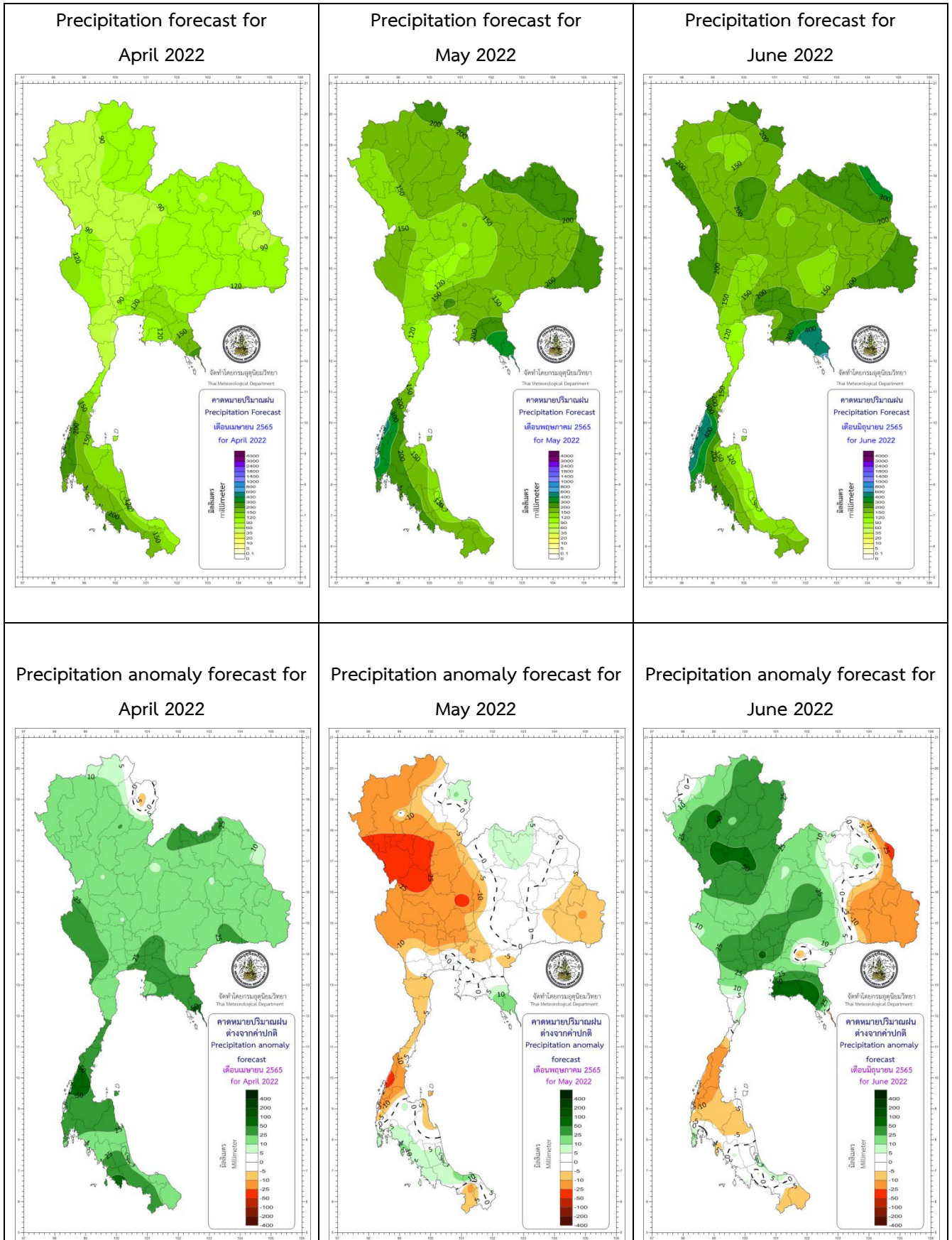
Thailand climate for March – April - May from 30-year normal (A.D. 1991 - 2020 or B.E. 2534 - 2563 baseline average)

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.

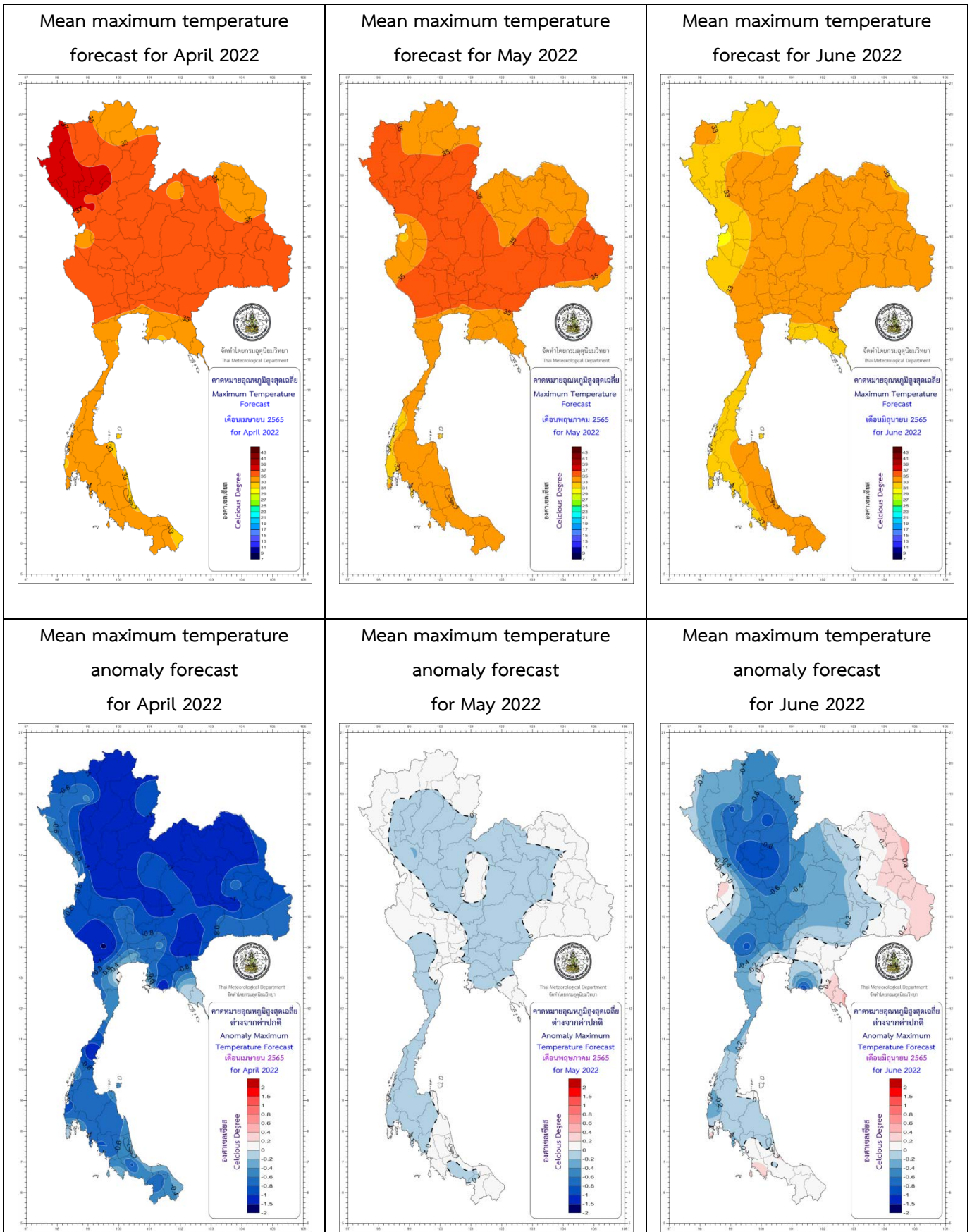
May As being the transitional period from the summer to the rainy seasons, the common weather during the 1st half of this month is usually sweltering. Also, thunder rain storms and summer thunderstorms occur often. Sometimes, hail happens too. And from the influential heat low-pressure air mass cells, 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.

June Usually, rainfall is abundant during the 1st 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.

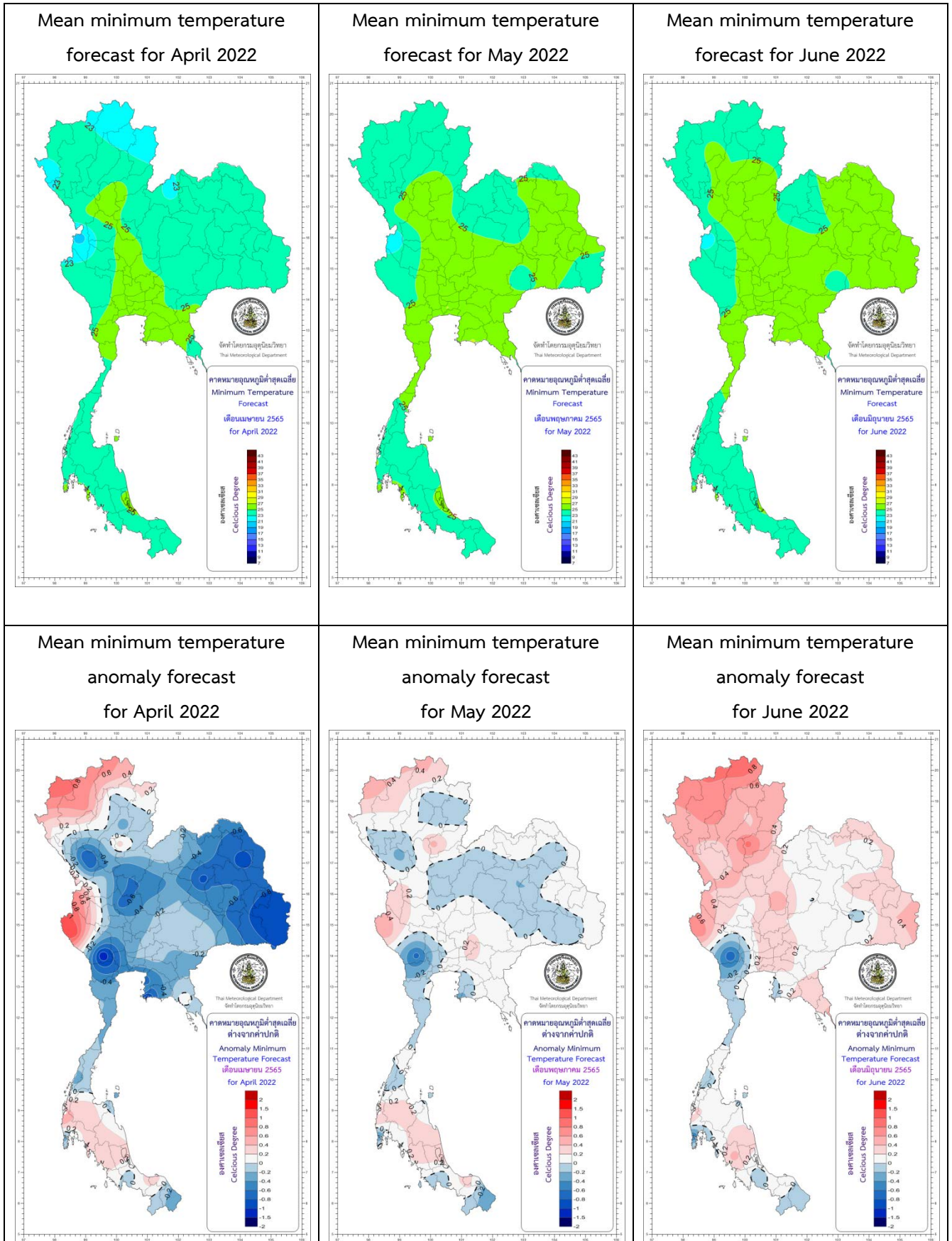
Precipitation (mm/month) and Anomaly (mm/month) Forecast:



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



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



*** **Caution:** ***

April 2022: 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 2022: 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 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.

During June 2022: Frequently, some tropical cyclones develop in the Western Pacific and may move pass the Philippines toward the South China Sea. This influences the southwestern 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). The public then should follow 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:

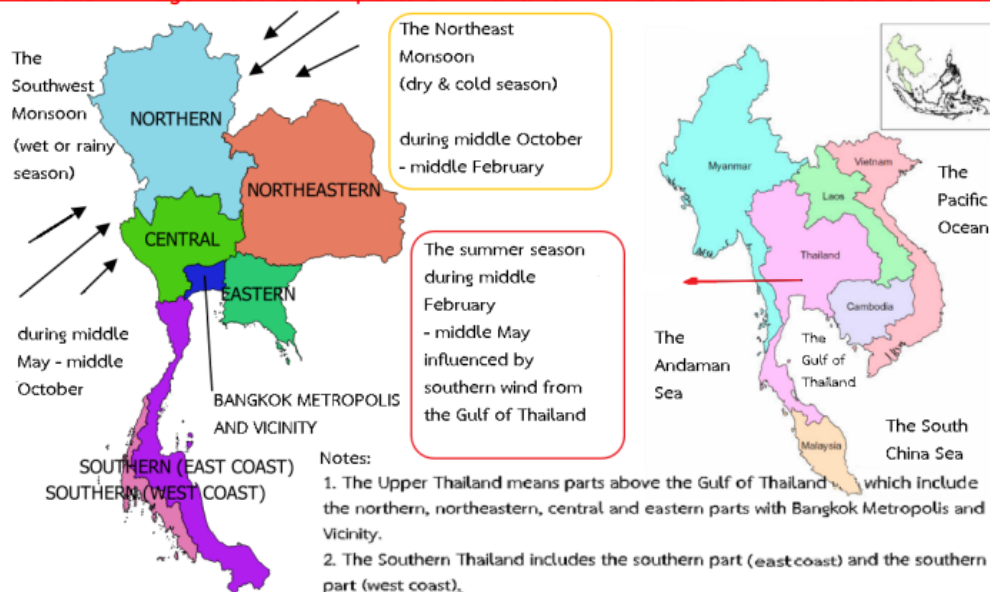


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal (Baseline period: 1991-2020)*					
	April 2022			May 2022			June 2022			April		May		June	
	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	70-90	7-9	20% Above normal	140-180	16-18	10 % Below normal	160-200	17-19	20% Above normal	70.4	7.0	173.1	15.5	152.9	17.8
Northeastern	90-110	8-10	20% Above normal	170-210	15-17	Near normal	180-220	15-17	Near normal	85.1	8.0	191.2	15.3	197.9	16.1
Central	80-100	6-8	30% Above normal	120-150	14-16	10 % Below normal	140-180	14-16	20% Above normal	71.6	6.4	146.9	14.3	133.2	15.4
Eastern	120-150	8-10	30% Above normal	180-220	15-17	Near normal	250-310	16-18	10% Above normal	101.3	8.3	204.1	15.8	258.4	16.7
Southern Thailand (East Coast)	100-130	7-9	30% Above normal	120-150	14-16	Near normal	110-140	12-14	Near normal	85.8	7.3	132.6	14.3	118.8	13.7
Southern Thailand (West Coast)	190-230	12-14	20% Above normal	270-330	20-22	Near normal	310-370	17-19	Near normal	177.1	12.7	302.7	19.9	339.5	18.9
Bangkok Metropolis and Vicinity	110-140	7-9	30% Above normal	180-220	16-18	Near normal	200-240	15-17	20% Above normal	95.0	7.9	207.1	16.2	195.6	16.2

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

Part	Prediction									Normal (Baseline period: 1991-2020)*					
	April 2022			May 2022			June 2022			April		May		June	
	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	35-37	23-25	Below normal	34-36	23-25	Near normal	32-34	24-26	Below normal	37.2	23.6	35.2	24.4	33.4	24.5
Northeastern	34-36	23-25	Below normal	34-36	24-26	Near normal	33-35	24-26	Near normal	36.2	24.6	34.9	25.0	33.8	25.1
Central	35-37	24-26	Below normal	35-37	25-27	Near normal	33-35	24-26	Below normal	37.5	25.3	35.9	25.5	34.5	25.1
Eastern	33-35	25-27	Below normal	33-35	25-27	Near normal	32-34	25-27	Near normal	34.7	25.9	34.0	26.1	33.0	25.8
Southern (East Coast)	32-34	24-26	Below normal	33-35	24-26	Near normal	32-34	24-26	Near normal	33.9	24.7	33.9	24.9	33.4	24.7
Southern (West Coast)	33-35	24-26	Below normal	32-34	24-26	Near normal	31-33	24-26	Near normal	34.2	24.7	32.9	24.9	32.1	24.7
Bangkok and Vicinity	34-36	26-28	Below normal	34-36	26-28	Near normal	33-35	26-28	Near normal	35.6	26.9	35.0	26.7	34.0	26.3

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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Ministry of Digital Economy and Society