



MINISTRY OF DIGITAL ECONOMY AND SOCIETY,
THAI METEOROLOGICAL DEPARTMENT

3-month Climate Prediction of Thailand

During June – August 2022

Issued on 31 May 2022

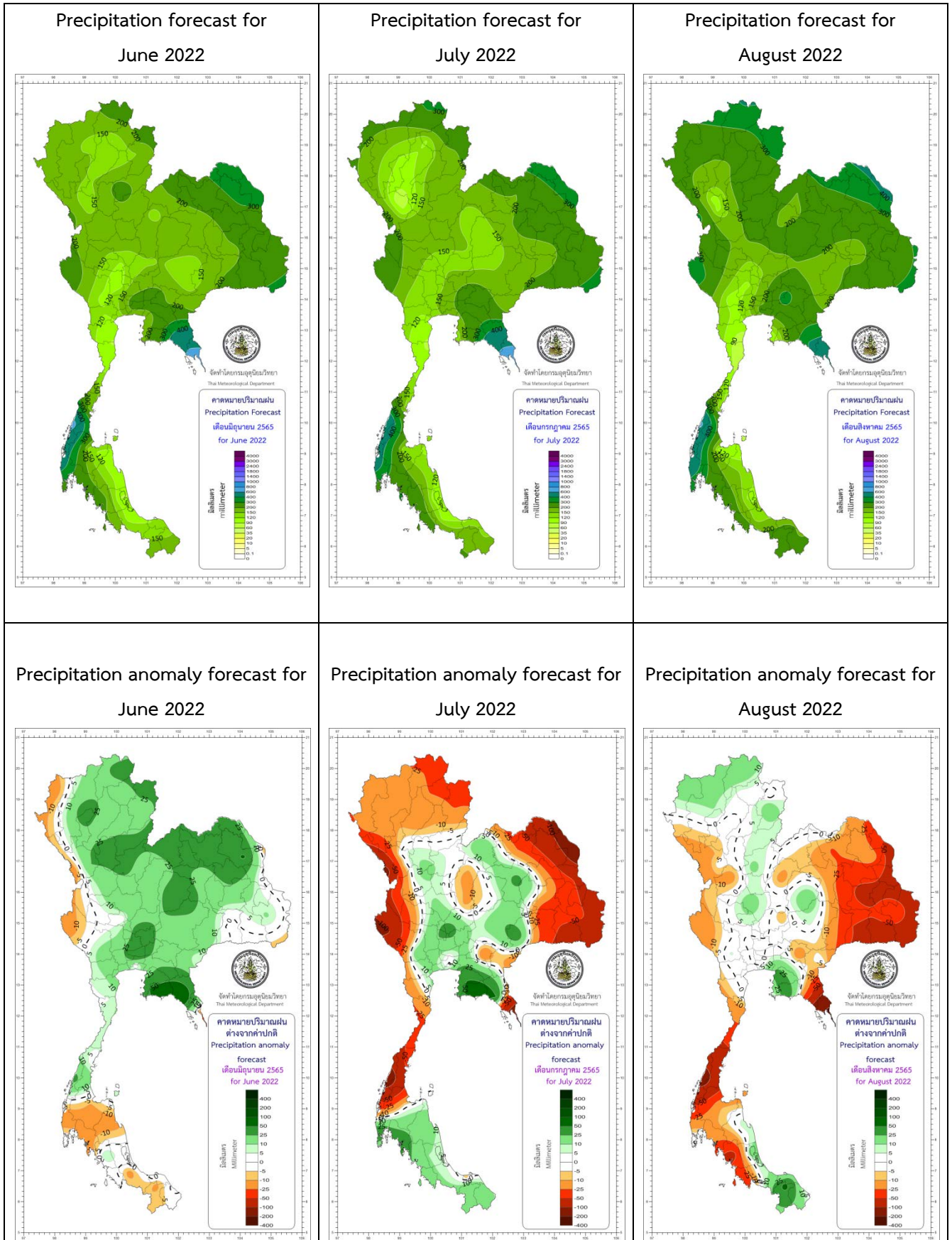
Thailand climate for June – July - August from 30-year normal (A.D. 1991 - 2020 or B.E. 2534 - 2563 baseline average)

June 2022: 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.

July 2022: During the 1st 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 2nd 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.

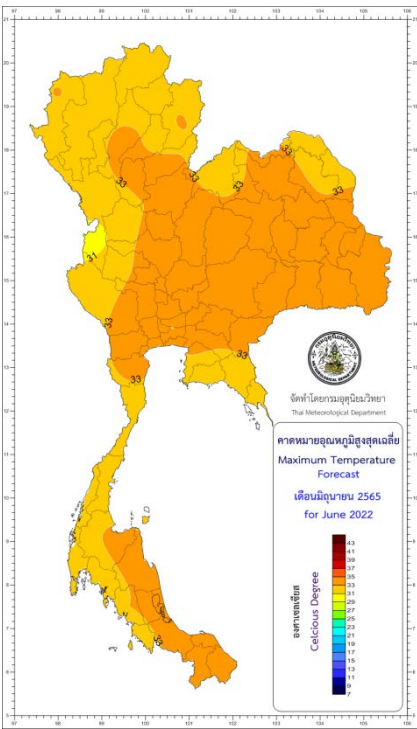
August 2022: Commonly, densely abundant rainfall often occurs in this month with more monthly rain amount than previous months each year. The reason is that the low-pressure trough places over the northern and northeastern parts of Thailand along with the active Southwest Monsoon prevail over Thailand periodically. Additionally, some tropical cyclones may move closer or toward the upper portion of both of the northern and northeastern parts more than other parts.

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

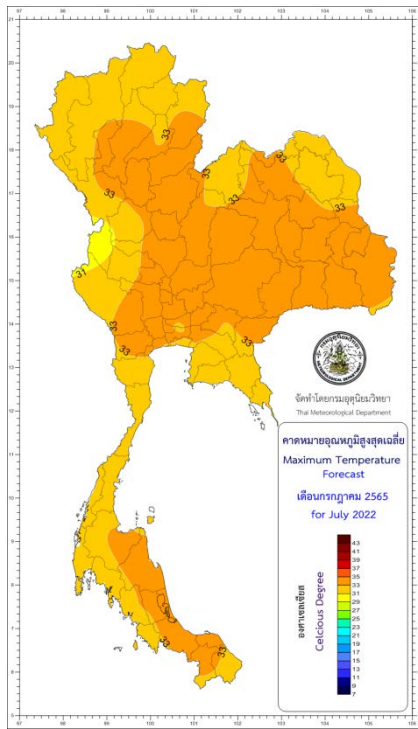


Mean Maximum Temperature (°C) and Anomaly (°C) Forecast:

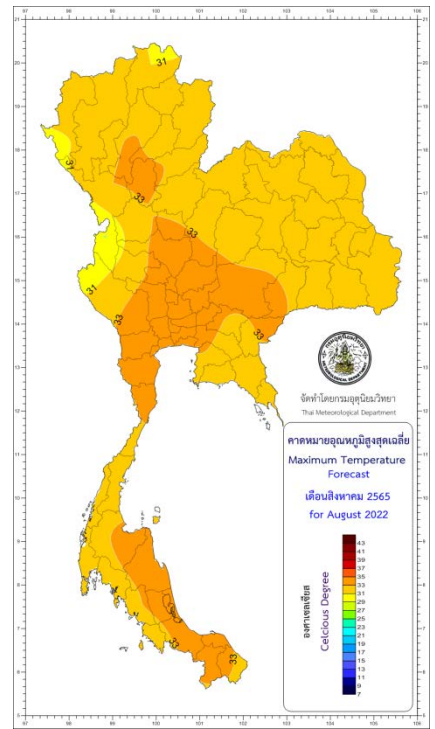
Mean maximum temperature forecast for June 2022



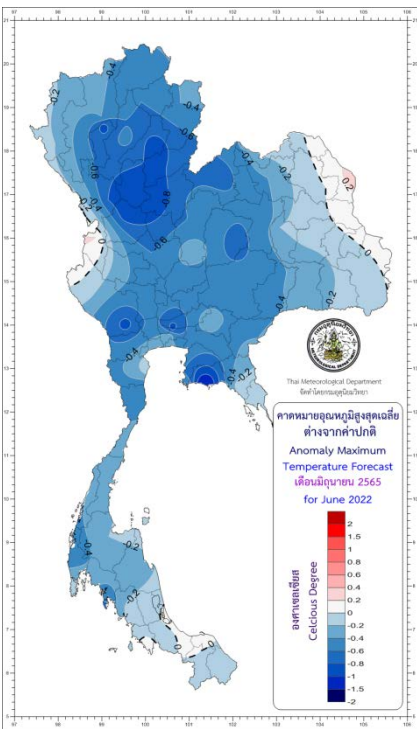
Mean maximum temperature forecast for July 2022



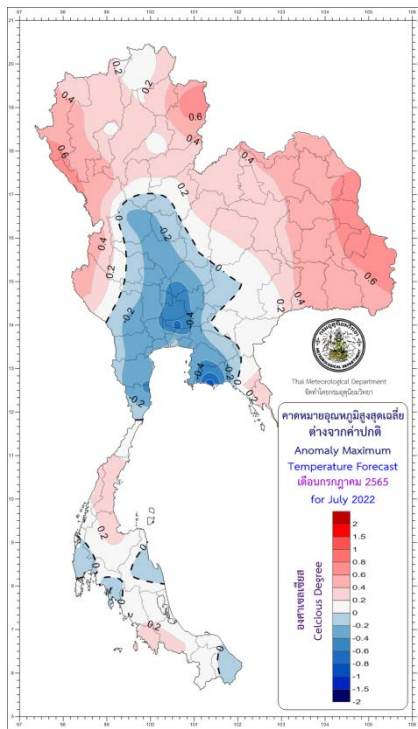
Mean maximum temperature forecast for August 2022



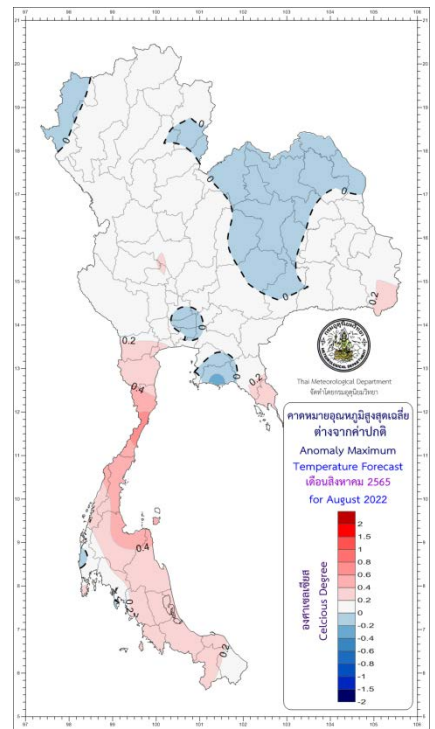
Mean maximum temperature anomaly forecast for June 2022



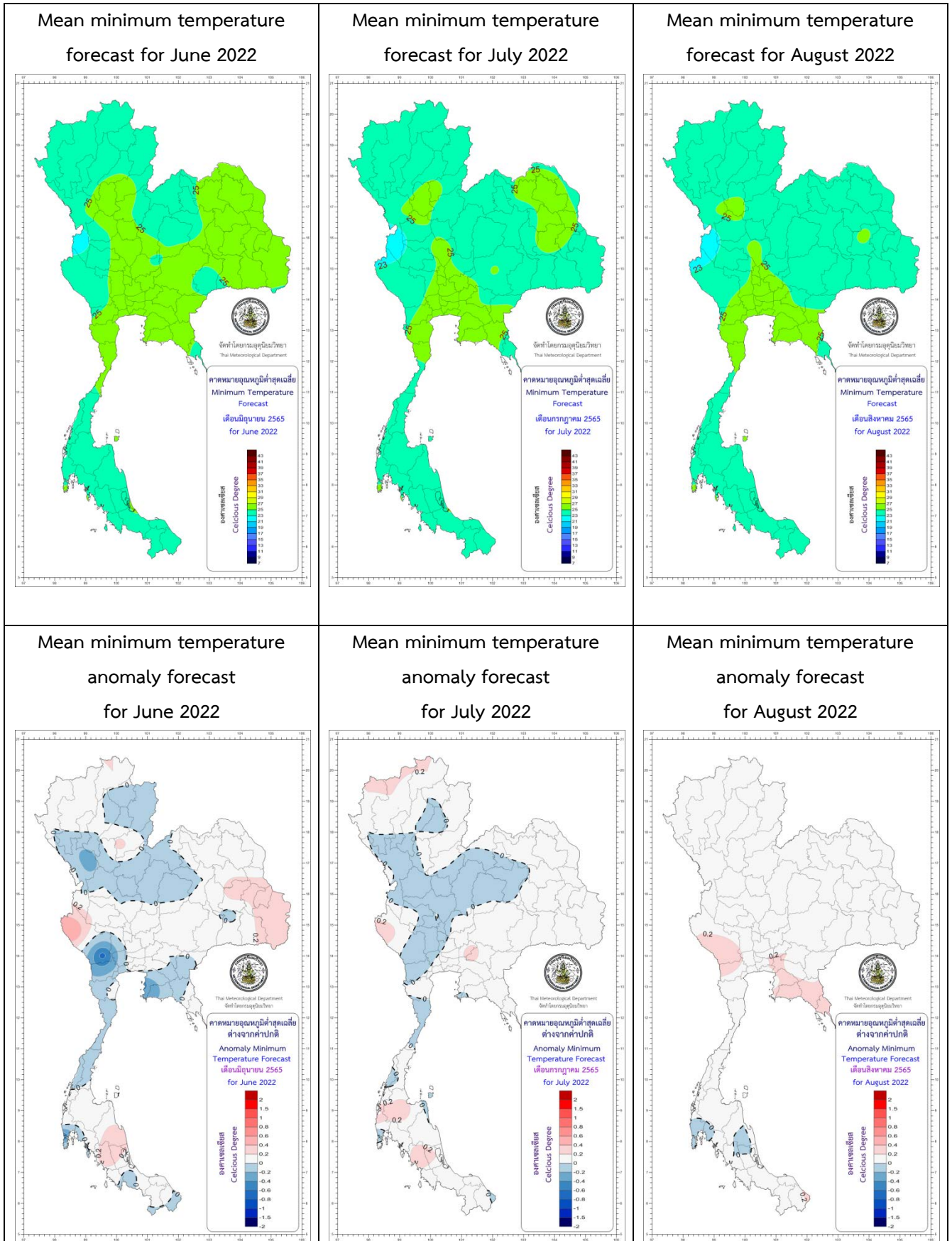
Mean maximum temperature anomaly forecast for July 2022



Mean maximum temperature anomaly forecast for August 2022



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



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

During June & July 2022: 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 2022: 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.

During August 2022: Normally, some tropical cyclones will often develop in the Northwest Pacific or the South China Sea. They favor a high chance to move near or pass the Upper Thailand. This will influence Thailand to meet dense rainfall together with heavy to very heavy rain amount at many areas. As a result, flash or forest flood with overflow will inundate at many areas. Then, the public should follow weather forecast news and warnings of tropical cyclones from the Thai Meteorological Department further.

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:

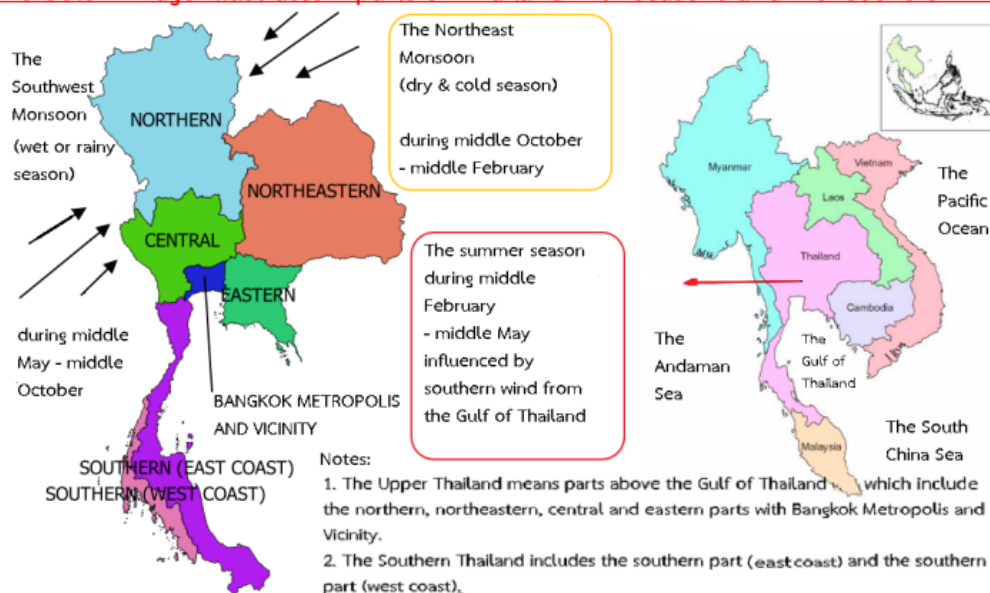


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal (Baseline period: 1991-2020)*					
	June 2022			July 2022			August 2022			June		July		August	
	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	150-190	17-19	10% Above normal	150-190	18-20	10% Below normal	220-260	20-22	Near normal	152.9	17.8	189.2	19.4	237.0	21.0
Northeastern	200-240	15-17	10% Above normal	200-240	16-18	10% Below normal	230-280	19-21	10% Below normal	197.9	16.1	241.9	17.4	276.1	19.4
Central	130-170	14-16	10% Above normal	140-170	15-17	Near normal	150-190	18-20	Near normal	133.2	15.4	151.8	16.4	172.8	18.2
Eastern	260-310	16-18	10% Above normal	260-310	16-18	Near normal	240-290	18-20	10% Below normal	258.4	16.7	287.4	17.2	284.6	18.4
Southern Thailand (East Coast)	100-130	13-15	Near normal	110-140	13-15	Near normal	120-150	15-17	Near normal	118.8	13.7	119.8	14.5	130.6	15.4
Southern Thailand (West Coast)	320-370	18-20	Near normal	330-380	19-21	Near normal	350-410	20-22	10% Below normal	339.5	18.9	351.6	19.8	418.7	20.5
Bangkok Metropolis and Vicinity	190-230	15-17	10% Above normal	160-200	16-18	Near normal	210-250	19-21	10% Above normal	195.6	16.2	183.3	17.1	211.6	19.1

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

Part	Prediction									Normal (Baseline period: 1991-2020)*					
	June 2022			July 2022			August 2022			June		July		August	
	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	32-34	23-25	Near normal	32-34	23-25	Near normal	31-33	23-25	Near normal	33.4	24.5	32.4	24.2	31.9	24.0
Northeastern	32-34	24-26	Near normal	32-34	24-26	Near normal	31-33	24-26	Near normal	33.8	25.1	32.8	24.7	32.3	24.5
Central	33-35	24-26	Near normal	33-35	24-26	Near normal	32-34	24-26	Near normal	34.5	25.1	33.6	24.8	33.3	24.6
Eastern	32-34	25-27	Near normal	31-33	25-27	Near normal	31-33	24-26	Near normal	33.0	25.8	32.4	25.5	32.2	25.4
Southern (East Coast)	32-34	24-26	Near normal	32-34	24-26	Near normal	32-34	24-26	Near normal	33.4	24.7	33.0	24.4	33.0	24.3
Southern (West Coast)	31-33	24-26	Near normal	31-33	24-26	Near normal	31-33	24-26	Near normal	32.1	24.7	31.8	24.5	31.6	24.5
Bangkok and Vicinity	33-35	25-27	Near normal	32-34	25-27	Near normal	32-34	25-27	Near normal	34.0	26.3	33.4	26.1	33.3	25.8

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 May 2020.
- 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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