



MINISTRY OF DIGITAL ECONOMY AND SOCIETY,  
THAI METEOROLOGICAL DEPARTMENT

## 3-month Climate Prediction of Thailand During September – November 2023

Issued on 29 August 2023

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

**September:** Thailand will meet densely abundant rainfall. In fact, most areas will be affected by the most abundant monthly rainfall from the whole year. The reason is that the influential low-pressure trough places on the central portion of Thailand along with the Southwest Monsoon prevails over Thailand. Besides, some tropical cyclones may move to dissipate near or toward Thailand directly, specifically at the northeastern and eastern parts.

**October:** As being a time of transition from the rainy to the winter seasons, the Upper Thailand will meet less rainfall and reducing temperature; cool weather is to start since the middle of this month onward. The reason is that the prevailing Southwest Monsoon over Thailand begins to transform into the Northeast Monsoon and cold high-pressure air mass areas from China prevails over Thailand from time to time.

Moreover, the low-pressure trough placing over the central and eastern parts will move downward to place around the Southern Thailand and the Gulf of Thailand during the 2<sup>nd</sup> half of this month. As a result, the Southern Thailand will meet densely abundant rainfall.

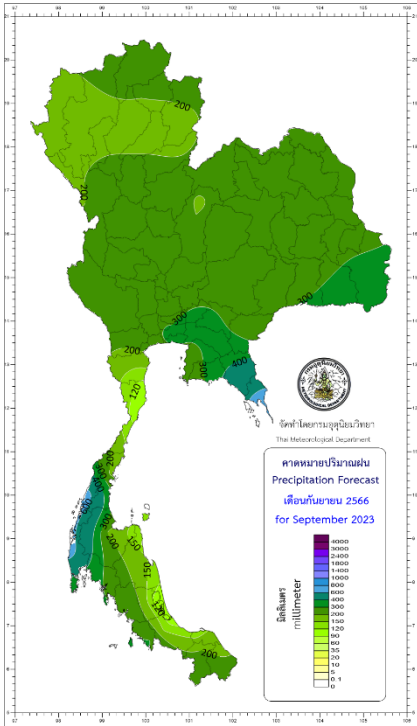
Additionally, some tropical cyclones may move near or toward Thailand around the eastern part, and they would move successively downward to the upper portion of the Gulf of Thailand and the Southern Thailand further.

**November:** The Upper Thailand will meet much reducing rain with cool weather for this whole month. The reason is that the influential high-pressure air mass areas from China will actively prevail over the Upper Thailand periodically. Thus, temperature will reduce, so cold weather happens at some areas, specifically at the northern & northeastern parts.

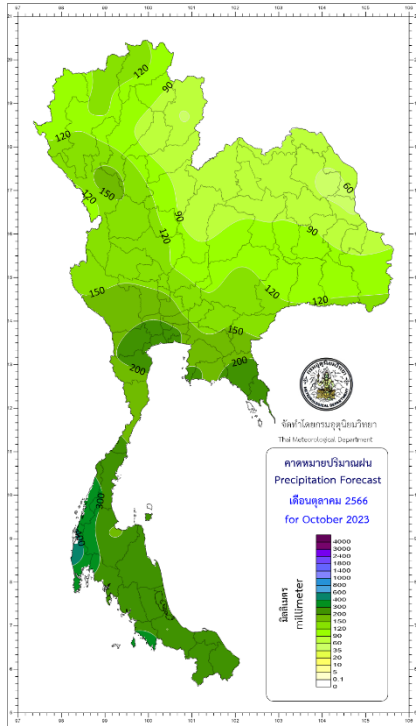
However, the Southern Thailand will still meet abundant rainfall, especially around the east coast. The reason is that the influential Northeastern Monsoon and the low-pressure trough place over the Southern Thailand and the Gulf of Thailand.

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

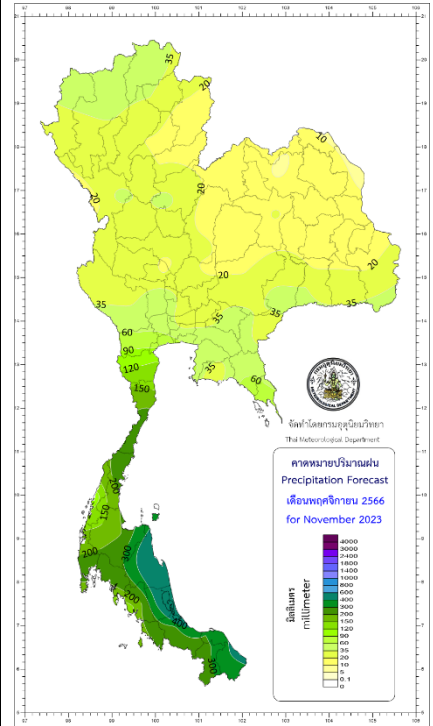
Precipitation forecast for  
September 2023



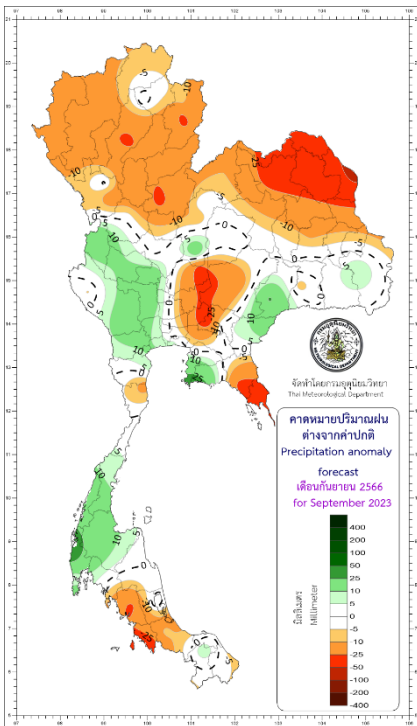
Precipitation forecast for  
October 2023



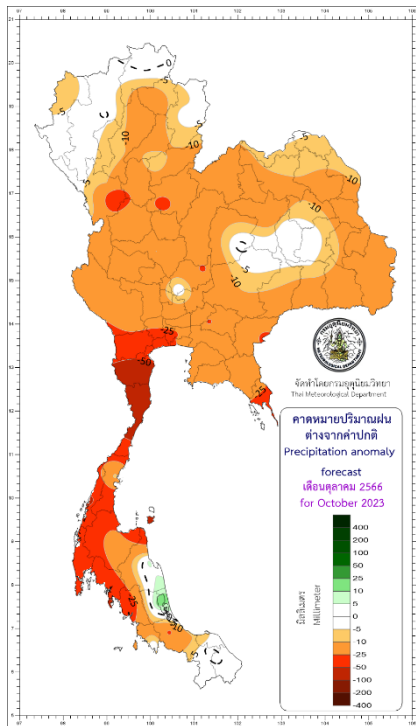
Precipitation forecast for  
November 2023



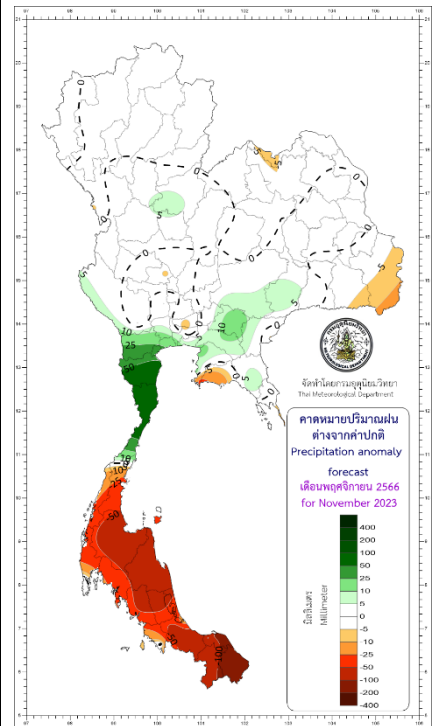
Precipitation anomaly forecast for  
September 2023



Precipitation anomaly forecast for  
October 2023

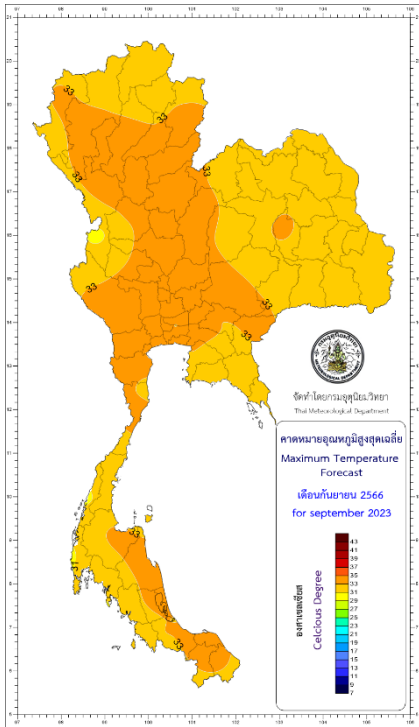


Precipitation anomaly forecast for  
November 2023

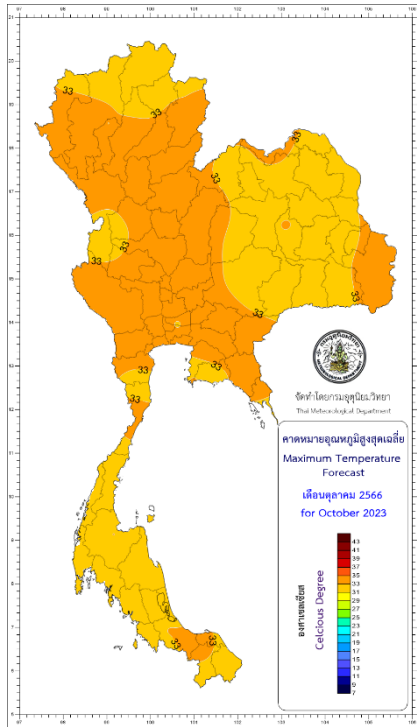


Mean Maximum Temperature (°C) and Anomaly (°C) Forecast:

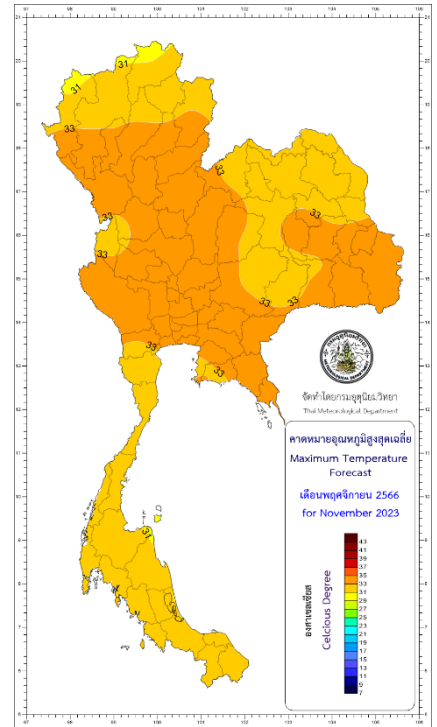
Mean maximum temperature forecast for September 2023



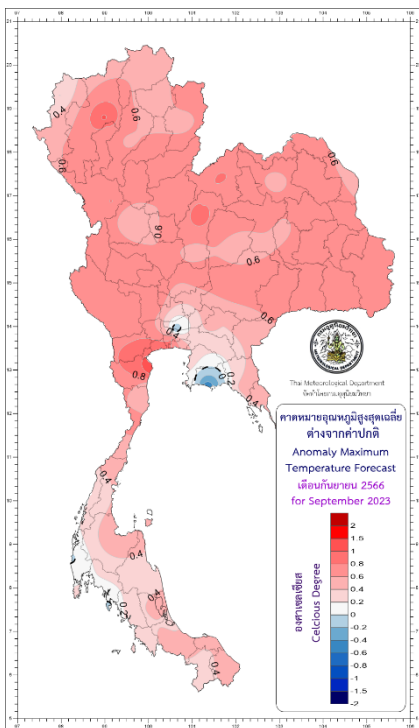
Mean maximum temperature forecast for October 2023



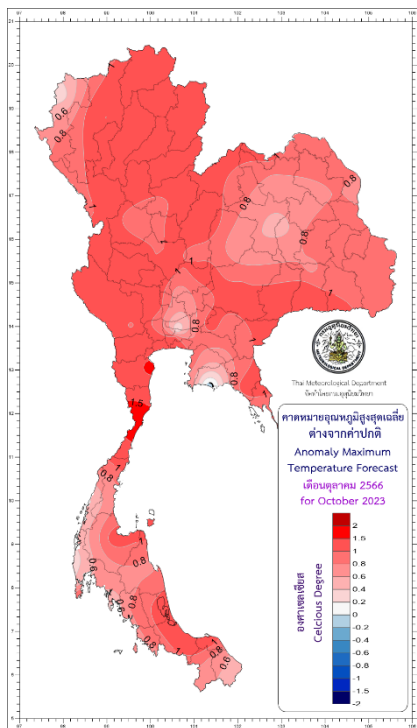
Mean maximum temperature forecast for November 2023



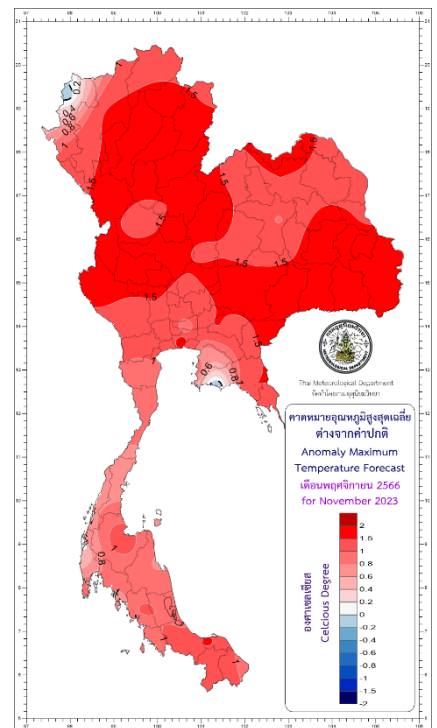
Mean maximum temperature anomaly forecast for September 2023



Mean maximum temperature anomaly forecast for October 2023

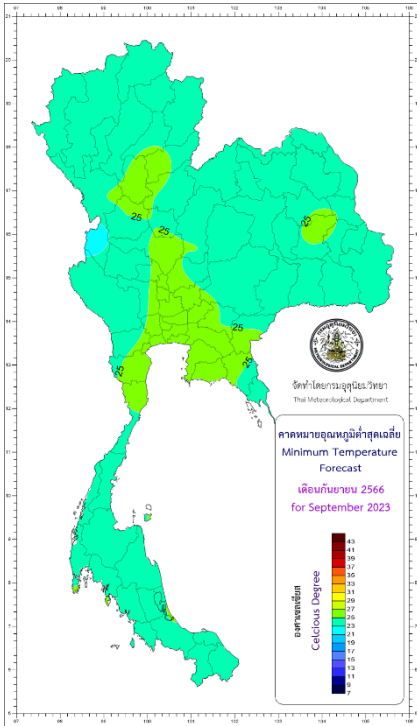


Mean maximum temperature anomaly forecast for November 2023

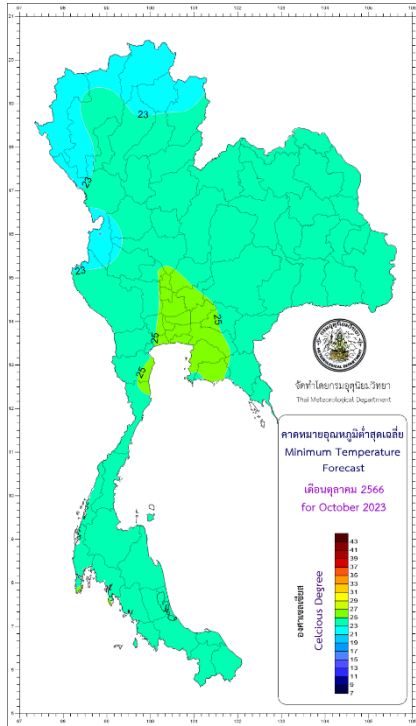


Mean Minimum Temperature (°C) and Anomaly (°C) Forecast:

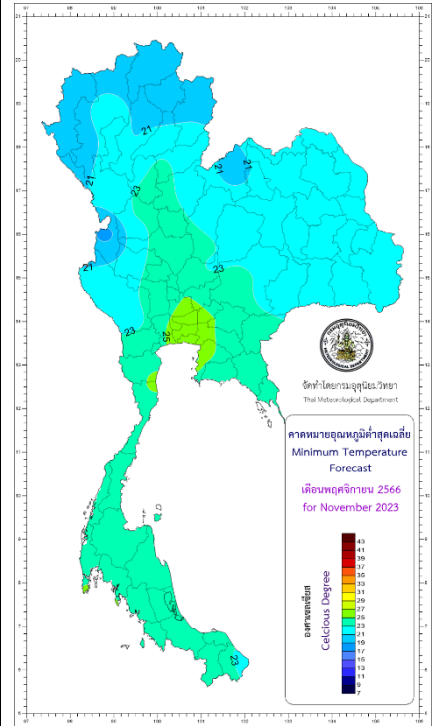
Mean minimum temperature forecast for September 2023



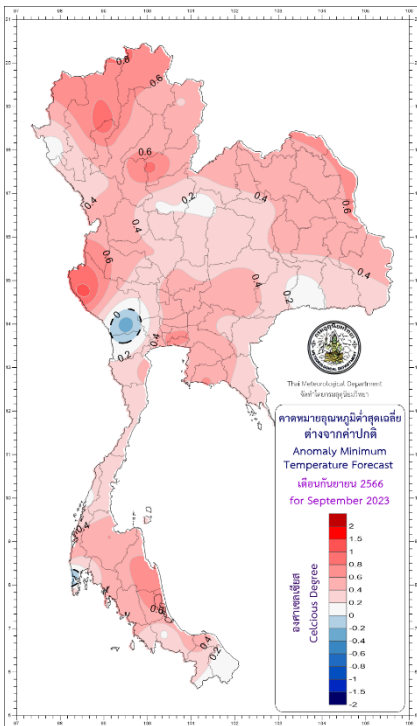
Mean minimum temperature forecast for October 2023



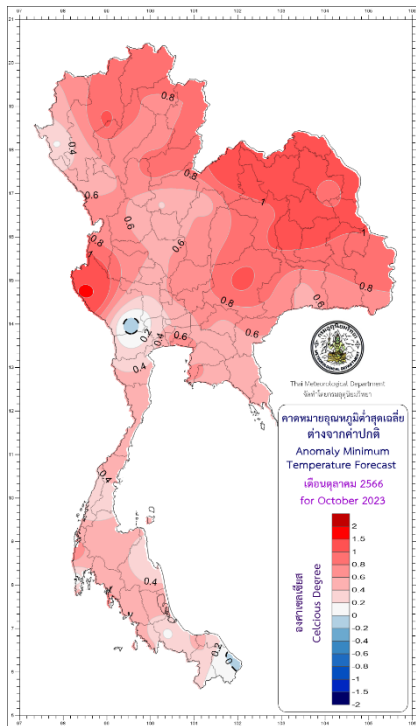
Mean minimum temperature forecast for November 2023



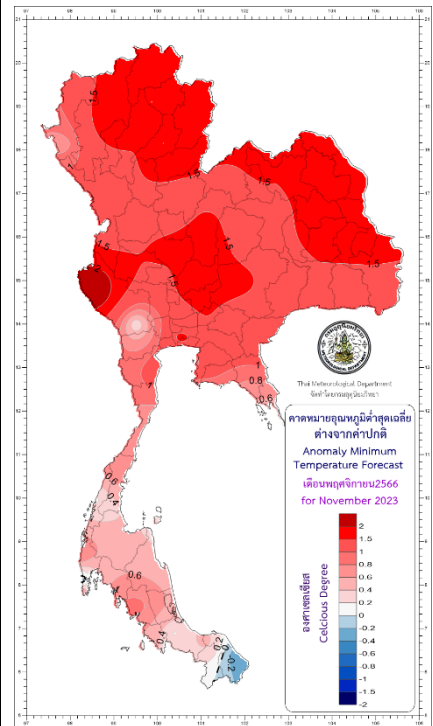
Mean minimum temperature anomaly forecast for July 2023



Mean minimum temperature anomaly forecast for August 2023



Mean minimum temperature anomaly forecast for September 2023



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

September 2021: Some tropical cyclones often develop at the western side of the northern Pacific Ocean and move northwesterly pass the South China Sea. Consequently, Thailand will meet abundant rainfall with heavy to very heavy rain amount at some areas.

October & November 2021: Some tropical cyclones favor a high chance to pass the tip of the Indochina Peninsula and move toward or near the Southern Thailand. For this reason, the nearby passing areas of the tropical cyclones will meet densely abundant rainfall with heavy to very heavy rain amounts at some areas.

Therefore, the public should follow weather forecast news and tropical cyclone warnings 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](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:

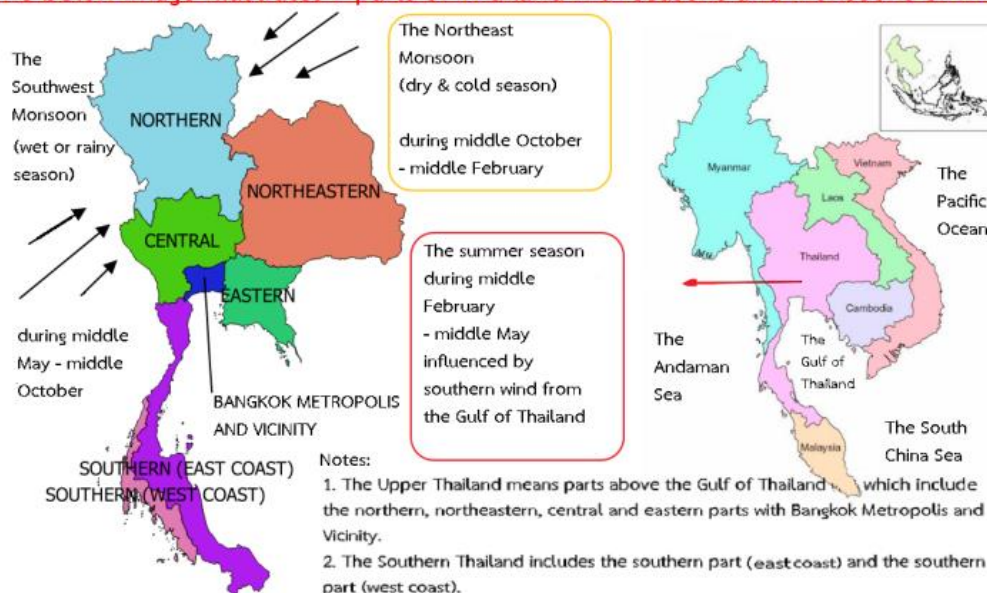


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal (Baseline period: 1991-2020)*					
	September 2023			October 2023			November 2023			September		October		November	
	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	180-240	16-18	5 % Below normal	90-130	9-11	10 % Below normal	90-130	9-11	Near normal	222.0	18.3	117.0	11.4	26.9	3.4
Northeastern	230-280	16-18	5 % Below normal	70-110	7-9	10 % Below normal	70-110	7-9	Near normal	256.6	17.9	101.4	9.4	18.0	2.7
Central	210-260	18-20	Near normal	130-170	12-14	10 % Below normal	130-170	12-14	Near normal	238.1	19.3	159.8	14.0	28.6	3.7
Eastern	320-370	19-21	Near normal	190-230	15-17	10 % Below normal	190-230	15-17	Near normal	351.7	19.9	218.6	16.5	48.2	5.3
Southern Thailand (East Coast)	130-170	15-17	Near normal	200-250	17-19	10 % Below normal	200-250	17-19	10 % Below normal	147.0	16.2	253.6	18.7	361.4	16.1
Southern Thailand (West Coast)	400-450	21-23	Near normal	310-360	21-23	10 % Below normal	310-360	21-23	10 % Below normal	429.2	21.8	368.8	22.7	193.1	16.7
Bangkok Metropolis and Vicinity	300-350	20-22	Near normal	210-260	15-17	10 % Below normal	210-260	15-17	Near normal	325.8	21.4	244.2	17.0	43.5	5.0

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

Part	Prediction									Normal (Baseline period: 1991-2020)*					
	September 2023			October 2023			November 2023			September		October		November	
	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	Above normal	32-34	22-24	Above normal	32-34	21-23	Above normal	32.4	23.8	32.3	22.6	31.7	19.9
Northeastern	32-34	24-26	Above normal	32-34	23-25	Above normal	32-34	21-23	Above normal	32.1	24.2	31.8	22.9	31.4	20.5
Central	33-35	24-26	Above normal	33-35	24-26	Above normal	33-35	23-25	Above normal	33.1	24.4	32.7	23.9	32.5	22.1
Eastern	31-33	24-26	Near normal	32-34	24-26	Above normal	33-35	24-26	Above normal	32.0	24.9	32.3	24.3	32.4	23.4
Southern (East Coast)	32-34	24-26	Near normal	32-34	24-26	Above normal	31-33	23-25	Above normal	32.6	24.2	31.6	23.9	30.6	23.6
Southern (West Coast)	31-33	23-25	Near normal	31-33	23-25	Above normal	31-33	23-25	Above normal	31.3	24.1	31.3	23.9	31.6	23.8
Bangkok and Vicinity	33-35	25-27	Above normal	33-35	25-27	Above normal	33-35	25-27	Above normal	33.1	25.4	32.7	25.1	32.6	24.4

**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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