



Three-month climate characteristic expectations of Thailand

February – April 2017

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Thai Meteorological Department

Overview Prediction :

During the beginning and the middle of February, fluctuate weather will occur at the Upper Thailand. Together with morning chilly weather and thick fog happens at many areas with thunder rain at some areas. Mean minimum temperatures are 17 – 19 C and 20 – 22 C at northern and northeastern parts consecutively. Afterwards, warmer weather will start to appear commonly with hot weather during daytime. Especially in April, very hot weather will occur at many areas with maximum temperature as 42 – 43 C along with thunder rain, gusty wind and hail at many areas. Except for the northern and northeastern parts, cool morning weather will still appear during March.

These events are due to cold air mass areas prevailing over the Upper Thailand from time to time confronting with occurring hot weather, mostly during February and March. Also, easterly or southeasterly winds will prevail over the Gulf of Thailand and the Southern Thailand during almost all of these three months. Furthermore, they start to transform to be prevailing southwesterly winds during late April.

For Southern Thailand, The amount and distribution of rainfall will reduce and begins to increase in April with hot weather at some areas on some days, mostly at the upper portion.

Also, easterly or southeasterly winds will prevail over the Gulf of Thailand and the Southern Thailand during almost all of these three months. Furthermore, they start to transform to be prevailing southwesterly winds during late April.

Briefly overview: Temperature and rain prediction of Thailand during these three months will be slightly above normal.

General Climate Characteristics:

The Upper Thailand (Northern, Northeastern, Central and Eastern parts of Thailand)

During the start and the middle of February, fluctuate weather will occur commonly. In other words, warmer weather with thunder rain will appear at many areas and thick fog happens at many areas on some days, especially around mountainous areas. For northern and northeastern parts, chilly morning weather still appears while cool weather occurs at central and eastern parts. This results from moderately high pressure air mass areas from China still prevailing over the northern and northeastern parts periodically.

During late February until middle March, warmer weather will occur again with thick fog appearing at some areas on some days and hot weather happens at daytime. Whereas morning cool weather appears at the northern and northeastern parts while cool weather occurs at the central and eastern parts at some areas on some days, mostly at the upper portion. This results from prevailing high pressure air mass areas weakening discontinuously.

Then during middle March until April, sweltering weather occurs commonly with very hot weather at many areas on some days. Extreme maximum temperatures may reach 42 – 43 C. Except for some periods thunder rain will occur at many areas helping reduce some heat resulting from weakening high pressure air mass areas prevailing from time to time. In addition, southerly or southeasterly winds will prevail together with heat low-pressure air mass cells prevail over the Upper Thailand.

The Southern Thailand:

Since February until late April, the amount and distribution of rainfall will reduce as 20 – 30% of the area with hot weather at some areas on some days, mostly at the upper portion. For wind waves at the Gulf of Thailand and the Andaman Sea, they will be about 1 meter high due to easterly or southeasterly wind prevailing over the Gulf of Thailand and the Southern Thailand almost all of this period.

Then during late April, more rain appears especially at the western coast with heavy rain at some areas. While wind waves in the Andaman Sea will be more active as 2 – 3 meters high whereas those in the Gulf of Thailand are about 1 meter high due to southwestern monsoon starting to prevail over the Andaman Sea and the Southern Thailand.

*** Cautions ***

February: Possibly, westerly wind waves moving pass Myanmar will influence the Upper Thailand to meet thunder rain, gusty wind and probable hail.

March and April: Summer thunderstorms often occur as thunder rain, gusty wind and possible hail at some areas and may cause the loss of life with crop and property damages.

Late April: Some low-pressure air mass cells may develop in the Andaman Sea and strengthening to become depressions, tropical storms and cyclones further. Their movements are toward northeasterly and may reach the western side of Thailand. Thus, more rainfall will occur at the western portion of the northern and central parts including with that of the Southern Thailand. People then should follow the weather forecast news from the Thai Meteorological Department closely.

Remarks: - Normal means average during the 30-year period (A.D. 1981 – 2010 or B.E. 2524 – 2553)

- These long range expectations are utilized by applying some climatic models and statistical methods, the public then should follow the daily weather news from the Thai Meteorological Department further.

- The next 3-month climate expectations will be at the last week of February 2017.

- Further enquiry of monthly climate, 3-month climate and seasonal forecasts can be preceded at Tel: 02-398-9929 or Fax: 02-383-8827.

- Please follow monthly climate, 3-month climate and seasonal forecasts at www.tmd.go.th/en/ at the climate tab.

Climatological Center,
Meteorological Development Bureau,
Thai Meteorological Department,
Ministry of Information and Communication Technology

Rain amount (millimeters) & rainy day (days) prediction – comparing with normal:

Parts	prediction									normal					
	February 2017			March 2017			April 2017			February		March		April	
	Rain amount	Days	Comparing with normal	Rain amount	Days	Comparing with normal	Rain amount	Days	Comparing with normal	Rain amount	Days	Rain amount	Days	Rain amount	Days
Northern	10-20 mm.	2-3	Slightly Above normal	30-50 mm.	3-4	Slightly Above normal	70-100 mm.	7-10	Slightly Above normal	10.4	1.4	28.1	3.1	71.3	7.0
Northeastern	20-40 mm.	3-5	Slightly Above normal	40-60 mm.	5-7	Slightly Above normal	80-110 mm.	8-11	Slightly Above normal	18.5	2.5	44.7	4.8	86.3	8.0
Central	15-30 mm	3-5	Above normal	50-80 mm	4-6	Above normal	80-110 mm	7-10	Above normal	12.3	1.6	36.0	3.4	79.5	6.4
Eastern	40-60 mm	4-6	Above normal	70-100 mm	6-8	Above normal	100-140 mm	8-11	Above normal	29.1	3.1	62.1	5.4	98.9	8.3
Southern (East Coast)	40-60 mm	3-5	Above normal	70-100 mm	6-8	Above normal	80-110 mm	7-10	Above normal	34.5	3.7	68.4	5.4	75.4	7.3
Southern (West Coast)	30-50 mm	3-5	Slightly Above normal	90-120 mm	7-9	Slightly Above normal	160-200 mm	12-14	Slightly Above normal	27.5	3.6	88.8	7.6	160.6	12.7
Bangkok and Vicinity	20-40 mm.	3-5	Above normal	40-60 mm.	4-6	Above normal	90-120 mm.	6-8	Above normal	20.0	2.5	42.1	3.6	91.4	6.5

Mean maximum and minimum temperature (° C) prediction comparing with normal:

Parts	Expectation									Normal					
	February 2017			March 2017			April 2017			February		March		April	
	Mean Max.	Mean Min.	Comparing with normal	Mean Max.	Mean Min.	Comparing with normal	Mean Max.	Mean Min.	Comparing with normal	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.
Northern	34-36	17-19	Slightly above normal	36-38	20-22	Slightly above normal	37-39	24-26	Slightly above normal	33.7	17.2	36.1	20.4	37.1	23.4
Northeastern	33-35	20-22	Slightly above normal	35-37	22-24	Slightly above normal	36-38	25-27	Slightly above normal	33.0	19.7	35.1	22.4	36.1	24.5
Central	35-37	23-25	Slightly above normal	36-38	25-27	Slightly above normal	37-39	26-28	Slightly above normal	34.6	22.6	36.1	24.4	37.0	25.8
Eastern	33-35	23-25	Slightly above normal	34-36	25-27	Slightly above normal	35-37	26-28	Slightly above normal	32.9	23.4	33.8	24.9	34.7	25.9
Southern (East Coast)	31-33	23-25	Slightly above normal	33-35	24-26	Slightly above normal	34-36	25-27	Slightly above normal	31.4	22.7	32.6	23.7	33.7	24.6
Southern (West Coast)	34-36	23-25	Slightly above normal	34-36	24-26	Slightly above normal	34-36	24-26	Slightly above normal	33.8	23.0	34.4	23.7	34.2	24.4
Bangkok and Vicinity	33-35	25-27	Slightly above normal	34-36	26-28	Slightly above normal	35-37	26-28	Slightly above normal	33.3	24.4	34.3	25.9	35.4	26.9