

Climate characteristic expectation of Thailand during

the summer season of 2016 (Revised Edition NO.1)

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Ministry of Information and Communication Technology, Thai Meteorological Department

Thai Meteorological Department 4353 Sukhumvit Road, Bangna, Bangkok 10260.

Climate characteristic expectation during the summer season of 2016 about during March until middle May:

The summer of this year in Thailand is expected that <u>mean maximum temperature will be above</u> normal and a little higher than that of last year, whereas the total rain amount will be slightly below <u>normal and near that of last year.</u> This summer will end at about middle May.

Otherwise, summer thunderstorms will appear at many areas. This may result in possible damages of lives and properties. The amount of rainfall during this summer at some areas will not be sufficient for consumption needs and agricultural usages, especially for those repeated drought areas outside irrigation zones.

Thus, people should utilize water consumption efficiently and prepare for the above mentioned summer thunderstorms.

General climate characteristics:

The Upper Thailand (The northern, northeastern, central and eastern parts of Thailand):

During the 1st half of March, high pressure air mass areas from China will still prevail over the upper portion of both of the northern and northeastern parts from time to time. As a result, the northern and northeastern parts will still be cool in the morning, especially at the upper portion. Whereas during daytime, the upper portion of the Upper Thailand will experience hot weather commonly with thick fog or haze at many areas. <u>Then afterward until April</u>, southerly or southeasterly wind will prevail over the Upper Thailand almost all of this period. Moreover, heat low pressure air mass cells will prevail periodically. These characteristics will influence the Upper Thailand to experience sweltering weather commonly. Additionally, very hot weather appears on some days, especially during middle March until middle April. Maximum termperature may reach 43 – 44 °C. However, summer thunderstorms often occur at many areas as thunder rain, gust wnd, and possible hail, and thus helping reduce some heat. <u>While during the 1st half of May</u>, weather disturbances will happen while sweltering weather appears generally. Together with very hot weather occurs at some areas on some days. In addition, thunder rain wil occur at many areas. **The Southern Thailand**

During March until late April. The easterly or southeasterly wind will prevail over the Gulf of Thailand and the Southern Thailand almost all of this period. Thus, the Southern Thailand will experience isolated to widely scattered rainfall with hot weather at many areas. Wind waves in the Gulf of Thailand and the Andaman Sea will be about 1 meter high.

<u>Then from late April onwards</u>, the southwestern monsoon will prevail over the Andaman Sea and the Southern Thailand. For this reason, the Southern Thailand will experience more rainfall. For especially along the western coast, heavy to very heavy rain will occur at some areas. Wind waves in the Andaman Sea will be more active with 2 meters high while those in the Gulf of Thailand will be about 1 meter high. +++ Precautions +++

<u>Fire and forest fire:</u> During this summer, the sweltering weather will influence to bring about fire and forest fire easily. Then, the public should be cautious in using fuel for their activities. <u>Summer thunderstorms:</u> During March – May, summer thunderstorms often occur as

thunder rain and gust wind at many areas and possible hail on some days.

Tropical cyclones: During late April until May, some low pressure air mass cells may develop at the Andaman Sea. Further, they may strengthen to become depressions, tropical storms and cyclones. Also, they will move northerly to easterly toward the western side of Thailand. Thus, the western portion of both of the northern and central parts of Thailand and also that of the Southern Thailand will experience more rainfall. So, flash and forest flood may inundate the mentioned area.

<u>Remarks:</u>	-	Daily rainfall distribution (% of th	e area) criteria:	Isolated:	> 0 until < 20%				
		Widely scattered:	>=20	until < 40%	Scattered:	>= 40 until < 60%				
		Almost widespread:	>=60	until < 80%	Widespread	>= 80%				
	-	Daily rainfall amount (mil	limeters	Light:	> 0 until 10.0					
		Moderate:	>=10.3	1 until <=35.0	Heavy:	>=35.1 until <90				
		Very heavy:	>= 90.	.1						
	-	Daily minimum temperature criteria for the winter season:								
		Cool weather		=	18.0 - 22.9	°C.				
		Moderately cold weat	her	=	16.0 - 17.9	°C.				
		Cold weather		=	8.0 - 15.9	° C.				
		Very cold weather		=	<= 7.9	° C.				
	-	Daily maximum temperature criteria for the summer season:								
		Hot weather		=	35.0 - 39.9	° C.				
		Very hot weather		=	>= 40.0	° C.				
	-	Normal means average du	iring the	30-year period	(A.D. 1981 – 201	0 or B.E. 2524 – 2553)				
	-	These long range expectat	tions are	e utilized by app	olying some clim	natic models and statistical				
		methods, the public then should follow the daily weather news from the Thai								
		Meteorological Department further.								
	-	The next 3-month climate	expect	ations will be at	the last week o	f March 2016.				

- 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 <u>www.tmd.go.th/en/</u> at the climate tab.

Climatological Center,

Meteorological Development Bureau,

Thai Meteorological Department,

Ministry of Information and Communication Technology

A table showing details of the weather prediction, maximum temperature and rain amount for each part of Thailand:

Part	The weather prediction	Maximum temperature
	Hot weather will occur normally with very hot	40 – 44°C. around provinces: Mae Hong Son, Chiang Mai,
	weather happening at many areas on some	Chiang Rai, Lamphun, Lampang, Phayao, Phrae, Nan, Tak,
	days, especially during the middle of March	Uttaradit, Sukhothai, Kamphaeng Phet, Phitsanulok,
	until the middle of April. However, for some	Phetchabun, Pichit, Loei, Nong Khai, Bueng Kan, Nong bua
	periods, some rain occurring as thunder rain,	Lam Phu, Udon Thani, Sakon Nakhon, Nakhon Phanom,
Northern and	windy gust and possible hail helps reduce some	Mukdahan, Chaiyaphum, Khon Kaen, Mahasarakham,
northeastern	heat.	Kalasin, Roi Et, Yasothon, Amnat Charoen, Nakhon
		Ratchasima, Burirum, Surin, Si Saket and Ubon Ratchathani.
	Hot weather appears almost all of these parts,	40 – 43 °C. around provinces: Nakhon Sawan, Uthai Thani,
	particularly at the upper portion. Also, very hot	Chainat, Sing Buri, Ang Thong, Suphan Buri, Lop Buri,
Central and	weather happens at many areas on some days,	Saraburi, Ayutthaya, Ratchaburi, Pathumthani, Nonthaburi,
eastern	mostly during middle March until early April.	Bangkok, Kanchana Buri, Nakhonpathom, Chachoengsao,
(including with	But during some periods, some rain occurring as	Prachin Buri and Sa Kaew.
coastal areas)	thunder rain, wind gust and possible hail at	
	some areas helps reduce some heat.	
	Hot weather will happen at many areas and	37 - 39°C. around provinces: Prachuap Khirikhan,
	isolated to widely scattered rainfall occurs.	Chumphon, Surat Thani, Nakhonsi Thammarat, Songkhla,
	Wind waves in the Gulf of Thailand and the	Pattani, Yala, Phuket, Trang and Satun.
	Andaman Sea will be about 1 meter high. But	
Southern	since late April, more rain will happen at the	
	Southern Thailand (the western coast) with	
	heavy to very heavy rain at some areas. For	
	wind waves in the Andaman Sea, they will be	
	more active as 2 meters high.	
	Hot weather will happen at almost all of this	
	area and very hot weather occurs on some	
Bangkok and	days. However, during some periods, some rain	38 – 40 °C.
vicinity	occurring as thunder rain, wind gust and hail	
	helps reduce some heat on some days.	

Mean maximum temperature (° C.) prediction of Thailand during the summer of 2016 and normal (average of the 30-year period: 1981 - 2010, ° C.)

	March	ı	April		The 1 st half of May		
Part	Mean max temp. of 2016	Normal	Mean max temp. of 2016	Normal	Mean max temp. of 2016	Normal	
North	36-38	36.3	37-39	36.8	35-37	35.4	
Northeastern	35-37	35.3	36-38	36.7	35-37	34.9	
Central	36-38	35.1	37-39	36.1	35-37	35.8	
Eastern	34-36	38.7	35-37	34.7	34-36	34.1	
Southern Thailand (East Coast)	32-34	34.0	33-35	34.4	33-35	33.6	
Southern Thailand (West Coast)	34-36	35.2	34-36	34.6	32-34	33.0	
Bangkok and Vicinity	34-36	34.1	35-37	35.2	34-36	34.8	

Rain amount (millimeters) prediction of Thailand during the summer of 2016 and normal (average of 30-year period: 1981 – 2010, millimeters.)

	March		April		The 1 st half of May		
Part	Rain amount of 2016	Normal	Rain amount of 2016	Normal	Rain amount of 2016	Normal	
North	15-30	28.1	40-70	71.3	50-80	80.2	
Northeastern	30-50	44.7	60-90	86.3	60-90	83.6	
Central	20-40	36.0	50-80	79.5	60-90	83.5	
Eastern	40-70	62.1	70-100	98.9	70-100	98.6	
Southern Thailand (East Coast)	40-70	68.4	50-80	75.4	40-70	71.7	
Southern Thailand (West Coast)	60-90	88.8	130-170	160.6	110-150	147.0	
Bangkok and Vicinity	30-50	42.1	70-100	91.4	90-120	116.4	

		March		April			Мау		
Part	° C.	Date	Location	° C.	Date	Location	° C.	Date	Location
Northern	42.0	19	Bhumibol Dam,	43.1	20	Muang District,	42.0	5	Muang District,
			Sam Ngao District, Tak			Sukhothai			Sukhothai
Northeastern	39.3	20	Muang District,	42.5	21	Muang District,	41.7	31	Muang District,
			Chaiyaphum			Burirum			Ubon Ratchathani
Central	40.0	6	Thong Pha Phum	42.3	21	Muang District,	42.4	12	Muang District,
			District, Kanchana Buri			Kanchana Buri			Nakhon Sawan
		15	Muang District,						
			Nakhon Sawan						
Eastern	38.8	20	Aranya Prathet	41.4	21	Aranya Prathet	40.5	7	Aranya Prathet
			District, Sa Kaew			District, Sa Kaew			District, Sa Kaew
Southern Thailand	38.2	20	Sadao District,	41.8	21	Nong Phlub Agromet.,	38.5	6	Muang District,
(East Coast)			Songkhla			Prachuap Khirikhan			Surat Thani
Southern Thailand	38.4	19	Trang Airport,	36.8	2	Trang Airport,	36.5	6	Muang District,
(West Coast)			Muang District, Trang			Muang District, Trang			Phuket
The whole country of	42.0	19	Bhumibol Dam,	43.1	20	Muang District,	42.4	12	Muang District,
Thailand			Sam Ngao District,			Sukhothai			Nakhon Sawan
			Tak						
	36.0	30	Queen Sirikit National	39.8	21	Queen Sirikit National	37.9	1	Queen Sirikit National
Bangkok			Convention Center -			Convention Center -			Convention Center -
and Vicinity			QSNCC,			QSNCC,			QSNCC,
			Klong Toei District			Klong Toei District			Klong Toei District

The extreme maximum temperature (° C.) statistics of Thailand during February – May of the past year (2015)

Notes: 1. The extreme temperature data are from meteorological stations (classified into three groups as Agromet. = agrometeorological stations, Hydromet. = hydrometeorological stations, Synoptic. = synoptic stations) of the Thai Meteorological Department all over Thailand.

2. Meteorological station names are from <u>http://www.tmd.go.th/en/climate.php?FileID=1</u>.



