

Monthly Weather Summary in Thailand July 2018

Thailand's weather in July 2018 was dominated by the active southwest monsoon prevailing over the Andaman Sea, Thailand and the Gulf of Thailand almost the whole month coupled with the monsoon trough lay across Myanmar, upper northern part and Laos during the middle of the month. Moreover there was tropical cyclone having some effects on rainfall of Thailand namely "SON-TINH" (1809) in the upper South China Sea moved through Hainan Island and Tonkin Bay. It made landfall over Vinh in Vietnam on July 19, and weakened into tropical depression and the low pressure cell covered upper Laos on July 20 then the mentioned low pressure cell turned back to Vietnam before tracking in to the Gulf of Tonkin and re-intensified into a tropical depression on July 22. After that it moved through Hainan Island in evening of the same day into the upper South China Sea before making landfall over China on July 24 and finally degenerated into an area of active low pressure cell over Vietnam and South of China on July 25 and 26. These conditions brought abundant rainfall over Thailand nearly the whole month, the average total rainfall over Thailand in this month was about 23% above normal and the mean monthly temperature was higher than normal by 0.1 °C. The monthly rainfall was above normal in most parts i.e. northern part 58.6 mm (33%), northeastern part 96.6 mm (46%), central 22.0 mm (14%), southern part (east coast) 4.1 mm (3%) and southern part (west coast) 84.9 mm (25%) but it was below normal in eastern parts 12.9 mm (5%).

1 – 10 July : The southwest monsoon prevailing over the Andaman Sea, Thailand and the Gulf of Thailand was active during the middle and the end of the period. In addition, the monsoon trough lay across the upper northern part, Laos and Vietnam toward the low pressure cell in the upper South China Sea during the end of the period. These caused rainfall over upper Thailand throughout the period especially fairly widespread rain with heavy to very heavy rainfall mainly in northeastern part during the second half of the period. The highest daily rainfall in upper Thailand was 135.0 millimeter at Nam Kleang in Si Saket province on June 9. In southern part, scattered to fairly widespread rain nearly the whole period with heavy to very heavy rainfall in some areas mainly along west coast. The maximum daily rainfall was measured at 96.4 millimeter in Ranong province.

11 – 20 July : The monsoon trough lay across the top of northern part, Laos and Vietnam during early period then shifted southwards to lie over Myanmar, upper northern part and Laos, it lay toward the active low pressure cell over the Gulf of Tonkin during the end of the period. Moreover, tropical storm "SON-TINH" (1809) in upper South China Sea, has moved through Hainan Island into the Gulf of Tonkin on July 18 and made landfall over Vinh in Vietnam at 01.00 am on July 19. It weakened into tropical depression before moving to Laos and subsequently weakened

into the active low pressure cell covered upper Laos on the last day of the period. In addition, the active southwest monsoon prevailed over the Andaman Sea, Thailand and the Gulf of Thailand throughout the period. These conditions caused plentiful rainfall over upper Thailand especially rainfall was increased to fairly widespread rain with heavy rainfall in several areas and very heavy rainfall in some areas during the second half of the period. The highest daily rainfall of 272.4 mm was recorded at Khlong Yai in Trat province on July 17 with flash flood at Chanthaburi province on July 14. The weather in Southern Thailand was scattered to fairly widespread rain with heavy rainfall in some areas especially widespread rain with heavy rainfall in several areas on July 17 and 18. The highest daily rainfall amount was 88.6 mm at Takua Pa in Phang Nga province on July 17.

21 – 31 July : The monsoon trough lay across Myanmar, Laos and upper Vietnam on the first day of the period coupled with the low pressure cell in the Gulf of Tonkin intensified to the tropical depression in the morning of July 22 and moved through Hainan Island at night time into the upper South China Sea before making landfall over China on July 24 and finally degenerated into an area of active low pressure cell over Vietnam and upper Laos, respectively. In addition, the low pressure cell covered the Gulf of Tonkin and upper Vietnam during the second half of the period. These caused abundant rainfall continued from last period with heavy to very heavy rainfall in some areas in the northern and northeastern parts while isolated to scattered rain was observed in the central and eastern parts with heavy to very heavy rainfall in some areas. The maximum daily rainfall was recorded in upper Thailand was 175.5 mm at Ban Phaeng in Nakhon Phanom province on July 22 and at Bo Rai in Trat province on July 27. In southern part, the effect of the moderate southwest monsoon which prevailed over southern part and the Gulf of Thailand strengthened during the second half of the period brought isolated to scattered rain with heavy rainfall in some areas during the first half of the period then increased in rainfall to be scattered to fairly widespread rain with heavy rainfall in some places. The highest daily rainfall was 121.0 mm at Mueang in Ranong province on July 29.

Note : Rainfall, temperatures and natural disasters available in this report are preliminary data.

Climatological Center
Meteorological Development Division
Meteorological Department

Monthly Current Report
Rainfall and Accumulative Rainfall
July 2018

Northern Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Chiang Rai	27.3	0.6	266.2	-44.7	1180.7	330.6
Mae Hong Son	26.9	-0.1	272.7	45.8	684.2	-0.1
Phayao	27.0	0.0	152.3	10.5	832.5	273.9
Chiang Mai	27.5	0.3	159.4	19.2	548.0	33.1
Tha Wang Pha	27.5	0.3	421.3	152.9	1165.7	388.9
Nan	28.0	0.3	296.0	95.3	753.9	93.5
Lamphun	27.8	0.0	174.8	57.8	651.5	190.2
Lampang	27.7	-0.1	181.4	46.8	793.0	280.2
Mae Sariang	26.1	-0.1	347.7	166.5	930.1	336.7
Phrae	27.8	0.1	256.2	102.0	785.4	190.0
Uttaradit	28.5	0.1	147.9	-18.5	724.3	7.1
Bhumibol Dam	28.0	-0.2	89.1	22.4	594.9	127.4
Tak	28.0	-0.1	93.5	5.8	562.2	91.3
Mae Sot	25.4	-0.4	697.4	368.4	1085.7	256.9
Umphang	24.6	0.1	279.3	47.7	747.8	-31.4
Phitsanulok	28.3	-0.2	117.3	-62.1	663.9	48.1
Lom Sak	27.5	-0.1	149.5	20.9	584.1	39.6
Phetchabun	27.8	0.1	172.9	24.1	669.0	50.1
Wichian Buri	28.2	-0.4	319.5	173.6	834.9	225.8
Kamphaeng Phet	28.1	0.0	98.4	-61.0	588.6	-36.3
Over the area	27.4	0.0	234.6	58.6 33%	769.0	144.6 23%

Northeastern Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Nong Khai	28.0	0.2	374.1	92.7	1165.7	248.3
Loei	27.9	0.5	168.5	22.7	803.5	134.5
Udon Thani	28.1	-0.1	157.6	-53.3	921.8	131.3
Nakhon Phanom	26.7	-0.6	1112.0	609.0	2025.5	660.7
Sakon Nakhon	27.2	-0.5	559.4	270.7	1172.1	204.2
Mukdahan	27.1	-0.7	751.1	519.2	1367.6	566.5
Khon Kaen	27.6	-0.5	213.3	40.0	833.7	173.0
Kosum Phisai	28.2	-0.4	245.3	85.3	870.2	211.6
Roi Et	28.1	-0.2	279.9	84.0	838.0	92.6
Chaiyaphum	27.7	-0.3	125.7	15.3	552.3	1.4
Ubon Ratchathani	27.8	-0.2	309.5	55.1	1009.9	172.0
Tha Tum	28.2	-0.4	234.8	16.6	726.8	-21.9
Surin	28.0	0.1	109.6	-111.7	618.7	-143.1
Nakhon Ratchasima	28.9	0.3	148.9	28.0	652.7	139.6
Chok Chai	28.7	0.4	93.3	-25.6	534.5	21.7
Nang Rong	28.4	0.3	44.8	-103.2	441.6	-156.5
Over the area	27.9	-0.1	308.0	96.6 46%	908.4	152.2 20%

- NOTES :
- 1) Mean temperature is the average of daily dry-bulb temperature
 - 2) "T" is trace, rainfall amount less than 0.1 mm.
 - 3) "blank" is incomplete data.
 - 4) Temperature and rainfall are preliminary data.

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Central Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Nakhon Sawan	28.9	0.1	154.2	6.2	512.6	-36.4
Bua Chum	28.4	-0.1	200.0	83.0	998.2	485.7
Lop Buri	28.8	0.2	80.2	-39.9	658.7	141.3
Suphan Buri	29.0	0.3	52.4	-46.4	414.2	28.1
Thong Pha Phum	26.3	-0.2	501.3	178.1	1151.6	152.6
Kanchanaburi	29.0	0.4	33.4	-69.5	383.9	-79.7
Bangkok Airport	29.1	0.1	195.9	36.8	948.7	264.6
Bangkok Metropolis	29.0	0.0	202.4	27.3	942.1	195.4
Over the area	28.6	0.1	177.5	22.0 14%	751.3	144.0 24%

Eastern Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Prachin Buri	28.5	0.0	396.6	124.7	1044.8	127.0
Kabin Buri	27.6	-0.3	381.0	139.8	1356.4	540.8
Aranyaprathet	28.2	0.1	266.8	100.4	833.9	164.5
Chon Buri	29.8	0.6	44.1	-96.5	623.4	14.0
Ko Sichang	29.4	0.5	9.8	-113.6	593.2	56.5
Pattaya	29.0	0.5	64.4	-33.0	498.5	-13.4
Sattahip	29.1	0.2	78.9	-28.6	576.2	-16.0
Rayong	29.2	0.2	19.1	-152.7	550.5	-194.1
Chanthaburi	28.6	1.0	162.2	-321.0	1318.8	-321.7
Khlong Ya	27.4	0.4	1222.8	251.2	2871.7	219.6
Over the area	28.7	0.3	264.6	-12.9 -5%	1026.7	57.6 6%

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Southern Thailand, east coast

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Phetchaburi	29.3	0.6	71.2	-9.6	452.8	95.2
Hua Hin	29.1	0.5	63.6	-29.4	521.3	113.1
Prachuap Khiri Khan	28.0	0.0	119.0	9.7	515.8	19.9
Chumphon	27.2	0.0	261.6	82.6	1002.2	178.1
Surat Thani	27.3	0.2	152.9	4.1	922.3	324.0
Ko Samui	28.7	0.4	125.2	8.9	863.8	163.0
Nakhon Si Thammarat	28.5	0.6	90.7	-27.1	723.0	-96.2
Songkhla	28.8	0.5	79.3	-15.7	777.7	205.0
Hat Yai Airport	27.7	0.3	79.0	-25.5	621.4	-22.0
Pattani Airport	28.2	0.6	193.7	64.6	837.6	254.7
Narathiwat	28.1	0.6	117.1	-16.9	1060.6	315.8
Over the area	28.3	0.4	123.0	4.1 3%	754.4	140.8 23%

Southern Thailand, west coast

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Ranong	26.9	0.0	1055.1	434.4	2713.6	703.1
Takua Pa	28.0	0.6	541.3	111.4	2163.6	466.9
Phuket	29.1	0.9	162.6	-95.6	1074.7	73.1
Phuket Airport	29.0	1.1	164.3	-97.2	1670.4	552.9
Ko Lanta	28.5	0.3	177.6	-118.7	906.7	-107.3
Trang Airport	27.8	0.8	401.5	143.0	1204.8	251.3
Satun	27.5	0.1	447.2	216.6	1216.1	173.7
Over the area	28.1	0.5	421.4	84.9 25%	1564.3	302.0 24%

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July 2018

Region	Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
		Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
North	Chiang Rai	27.3	0.6	266.2	-44.7	1180.7	330.6
	Mae Hong Son	26.9	-0.1	272.7	45.8	684.2	-0.1
	Phayao	27.0	0.0	152.3	10.5	832.5	273.9
	Chiang Mai	27.5	0.3	159.4	19.2	548.0	33.1
	Tha Wang Pha	27.5	0.3	421.3	152.9	1165.7	388.9
	Nan	28.0	0.3	296.0	95.3	753.9	93.5
	Lamphun	27.8	0.0	174.8	57.8	651.5	190.2
	Lampang	27.7	-0.1	181.4	46.8	793.0	280.2
	Mae Sariang	26.1	-0.1	347.7	166.5	930.1	336.7
	Phrae	27.8	0.1	256.2	102.0	785.4	190.0
	Uttaradit	28.5	0.1	147.9	-18.5	724.3	7.1
	Bhumibol Dam	28.0	-0.2	89.1	22.4	594.9	127.4
	Tak	28.0	-0.1	93.5	5.8	562.2	91.3
	Mae Sot	25.4	-0.4	697.4	368.4	1085.7	256.9
	Umphang	24.6	0.1	279.3	47.7	747.8	-31.4
	Phitsanulok	28.3	-0.2	117.3	-62.1	663.9	48.1
	Lom Sak	27.5	-0.1	149.5	20.9	584.1	39.6
	Phetchabun	27.8	0.1	172.9	24.1	669.0	50.1
	Wichian Buri	28.2	-0.4	319.5	173.6	834.9	225.8
	Kamphaeng Phet	28.1	0.0	98.4	-61.0	588.6	-36.3
Northeast	Nong Khai	28.0	0.2	374.1	92.7	1165.7	248.3
	Loei	27.9	0.5	168.5	22.7	803.5	134.5
	Udon Thani	28.1	-0.1	157.6	-53.3	921.8	131.3
	Nakhon Phanom	26.7	-0.6	1112.0	609.0	2025.5	660.7
	Sakon Nakhon	27.2	-0.5	559.4	270.7	1172.1	204.2
	Mukdahan	27.1	-0.7	751.1	519.2	1367.6	566.5
	Khon Kaen	27.6	-0.5	213.3	40.0	833.7	173.0
	Kosum Phisai	28.2	-0.4	245.3	85.3	870.2	211.6
	Roi Et	28.1	-0.2	279.9	84.0	838.0	92.6
	Chaiyaphum	27.7	-0.3	125.7	15.3	552.3	1.4
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	Tha Tum	28.2	-0.4	234.8	16.6	726.8	-21.9
	Surin	28.0	0.1	109.6	-111.7	618.7	-143.1
	Nakhon Ratchasima	28.9	0.3	148.9	28.0	652.7	139.6
	Chok Chai	28.7	0.4	93.3	-25.6	534.5	21.7
Nang Rong	28.4	0.3	44.8	-103.2	441.6	-156.5	
Central	Nakhon Sawan	28.9	0.1	154.2	6.2	512.6	-36.4
	Bua Chum	28.4	-0.1	200.0	83.0	998.2	485.7
	Lop Buri	28.8	0.2	80.2	-39.9	658.7	141.3
	Suphan Buri	29.0	0.3	52.4	-46.4	414.2	28.1
	Thong Pha Phum	26.3	-0.2	501.3	178.1	1151.6	152.6
	Kanchanaburi	29.0	0.4	33.4	-69.5	383.9	-79.7
	Bangkok Airport	29.1	0.1	195.9	36.8	948.7	264.6
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South (East Coast)	Phetchaburi	29.3	0.6	71.2	-9.6	452.8	95.2
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	Takua Pa	28.0	0.6	541.3	111.4	2163.6	466.9
	Phuket	29.1	0.9	162.6	-95.6	1074.7	73.1
	Phuket Airport	29.0	1.1	164.3	-97.2	1670.4	552.9
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Over the area		28.0	0.1	249.8	47.2	908.9	148.8
					23%		20%

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