Monthly Weather Summary in Thailand September 2018

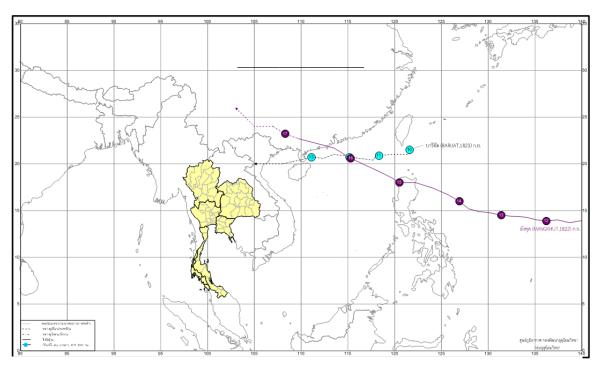
Thailand's weather in September 2018 was dominated by the monsoon trough which lay across the upper Thailand during the first half of the month after that it moved southwards to lie over the lower central, upper southern and eastern parts. Moreover there were 2 tropical cyclones having some effects on rainfall of Thailand during mid-month namely "BARIJAT" (1823) and "MANGKHUT" (1822) coupled with the prevailing of southwest monsoon which over Andaman Sea, Thailand and the Gulf of Thailand, strengthened during mentioned period. These conditions caused plentiful of rain in Thailand almost the whole month. Monthly rainfall was less than normal in most parts of Thailand i.e. northern part 71.5 mm (33%), northeastern part 45.2 mm (19%), central part 63.2 mm (25%), southern part (eastern coast) 24.9 mm (17%) and southern part (west coast) 75.0 mm (18%) except for above normal in eastern part 31.2 mm (9%). The average total rainfall over Thailand in this month was 17 percent lower than normal. The accumulative rainfall this year up to September was 6 percent higher than normal. Mean temperatures were above normal in all parts.

1 – 10 September: The southwest monsoon prevailed across the Andaman Sea, Thailand and the Gulf of Thailand throughout the period. During the second half of the period, the moderate high pressure area from China extended its ridge to cover Laos and Vietnam after that it extended to cover upper northern and northeastern parts during late period. It induced the monsoon trough which lay across Myanmar, Laos and upper Vietnam moved downward to lie across upper Thailand. These condition caused scattered to fairly widespread rain nearly the whole period with heavy to very heavy rainfall in some areas. The highest daily rainfall was 154.0 mm at Amphoe Thung Saliam in Sukhothai province on September 8. For southern Thailand, scattered to fairly widespread rain with heavy rainfall in some areas almost the whole period especially heavy rainfall in several areas and very heavy rainfall in some areas occurred along west coast during the beginning and the middle of the period. The maximum daily rainfall of 110.0 mm was measured at Amphoe Mueang in Satun province on September 7.

11 – 20 September: Under the influence of the monsoon trough lying across upper Thailand in addition with the active southwest monsoon prevailing over the Andaman Sea, Thailand and the Gulf of Thailand almost the whole period associated with 2 tropical cyclones in upper South China Sea namely tropical storm "BARUIJAT" (1823) and typhoon "MANGKHUT" (1822). BARIJAT moved through Hainan, China to the Gulf of Tokin in afternoon of September 13 and downgraded into a tropical depression before made landfall over upper Vietnam and weakened into a low pressure cell covered Laos in the evening of the same day. "MANGKHUT" made landfall over southern China at Jiangmen City, Guangdong province in the evening of September 16 after that it moved further inland and downgraded respectively into the tropical storm and tropical depression before degenerated into an areas of active low pressure over Yunnan province in the morning of September 18 and dissipated in the next time. The weather in upper Thailand was fairly widespread nearly the whole period with heavy rainfall in several areas and very heavy rainfall in some areas. The heaviest daily rainfall in upper Thailand was 303.0.0 mm at Amphoe Ratchasan in Chachoengsao province on September 16. Flash floods occurred in Lopburi province on September 11, Loei province on September 12, Trat province on

September 17 and Nan province on September 12, 18. Land slide was reported at Mae Hong Son province on September 16. In southern part, fairly widespread rain nearly the whole period with heavy to very heavy rainfall in some areas. The highest daily rainfall was 134.0 mm at Amphoe Ranot in Songkhla province on September 16. The floods had reported at Satun province on September 15 and at Phang Nga province on September 18.

21 – 31 September: The monsoon trough lay across lower central, upper southern and eastern parts toward the low pressure cell in the lower South China Sea on the first day and the end of the period associated with prevailing of the southerly and southeasterly winds over northeastern, central, eastern and southern parts during early period then the weak southwest monsoon prevailed over the Andaman Sea, Thailand and the Gulf of Thailand. Moreover, the high pressure area from China extended to cover northern and northeastern parts during late period. These conditions caused rainfall over upper Thailand almost the whole period with heavy rainfall in some areas and very heavy rainfall was reported over northeastern part on the first day of the period. The maximum daily rainfall in upper Thailand was 95.8 mm at King Amphoe Khukhan in Si Sa Ket province on September 21. In southern part, scattered to fairly widespread rain was found nearly the whole period and heavy to very heavy rainfall in some areas mainly along east coast with the highest daily rainfall of 100.0 mm at Amphoe Pa Phayom in Phatthlung province on September 27.



Track of tropical storm effected on rainfall of Thailand in September 2018

Note: 1) Rainfall, temperatures and natural disasters in this report were updated up to October 5, 2018.

Monthly Current Report Rainfall and Accumulative Rainfa September 2018

Northern Thailand

	Temperature (°c)		Rainfa	ll (mm)	Accumulative rainfall (mm) Since 1 January		
Station		Above		Above		Above	
	Mean	or below	Actual	or below	Actual	or below	
		normal		normal		normal	
Chiang Rai	27.3	1.1	165.6	-118.3	1640.1	147.7	
Mae Hong Son	27.0	0.0	155.9	-43.1	1015.0	-107.6	
Phayao	26.9	0.6	201.1	-2.5	1198.8	232.6	
Chiang Mai	28.1	1.4	64.1	-147.3	736.4	-206.8	
Tha Wang Pha	27.5	0.7	191.8	-19.7	1735.3	449.2	
Nan	28.0	0.8	95.6	-107.9	1091.4	-45.7	
Lamphun	27.8	0.9	62.7	-145.5	847.0	4.8	
Lampang	28.1	1.1	129.6	-82.0	1047.6	136.9	
Mae Sariang	27.1	0.6	183.7	6.6	1298.9	308.0	
Phrae	28.0	0.8	85.7	-106.0	999.0	6.4	
Uttaradit	28.7	0.7	191.1	-57.2	1223.8	-5.1	
Bhumibol Dam	28.3	0.8	204.5	-3.1	816.1	29.0	
Tak	28.8	1.1	126.1	-89.4	730.6	-71.6	
Mae Sot	27.0	0.8	142.5	-42.9	1693.3	357.4	
Umphang	24.9	0.5	177.0	-70.6	1122.6	-152.6	
Phitsanulok	28.4	0.3	212.0	-34.6	1099.8	-10.2	
Lom Sak	27.8	0.7	114.6	-79.0	826.9	-109.3	
Phetchabun	28.0	0.9	62.4	-143.3	921.7	-101.9	
Wichian Buri	28.3	0.4	163.9	-82.2	1231.9	167.5	
Kamphaeng Phet	28.7	1.1	206.3	-62.5	983.1	-81.1	
Over the area	27.7	0.7	146.8	-71.5	1113.0	47.3	
				-33%		4%	

Northeastern Thailand

	Tempera	nture (°c)	Rainfa	ll (mm)		rainfall (mm) January
Station		Above		Above		Above
	Mean	or below	Actual	or below	Actual	or below
		normal		normal		normal
Nong Khai	28.8	1.4	207.5	-49.7	1667.6	169.8
Loei	27.3	0.9	151.6	-83.4	1071.0	-17.9
Udon Thani	28.3	0.7	121.9	-117.6	1359.7	44.6
Nakhon Phanom	28.3	1.2	248.6	-41.6	2745.6	510.3
Sakon Nakhon	28.2	1.0	160.6	-64.2	1569.9	19.3
Mukdahan	28.4	1.2	246.8	35.1	1904.1	540.6
Khon Kaen	27.9	0.7	299.7	67.7	1200.2	91.1
Kosum Phisai	28.7	1.0	158.4	-82.2	1182.5	51.4
Roi Et	28.6	1.1	164.8	-55.0	1202.6	-14.8
Chaiyaphum	28.1	0.8	149.1	-80.9	821.8	-155.3
Ubon Ratchathani	28.3	0.9	317.0	23.2	1645.1	210.1
Tha Tum	28.3	0.6	185.5	-77.5	1040.0	-199.6
Surin	28.0	0.7	245.2	-10.2	1057.2	-216.2
Nakhon Ratchasima	28.2	0.8	162.8	-65.5	902.4	3.8
Chok Chai	27.9	0.6	148.5	-63.1	793.1	-84.8
Nang Rong	27.6	0.4	180.1	-59.5	715.7	-303.7
Over the area	28.2	0.9	196.8	-45.2	1304.9	40.5
				-19%		3%

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

4) Temperature and rainfall are preliminary data

Monthly Current Report Rainfall and Accumulative Rainfal September 2018

Central Thailand

	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm Since 1 January		
Station		Above		Above		Above	
	Mean	or below	Actual	or below	Actual	or below	
		normal		normal		normal	
Nakhon Sawan	28.9	0.9	55.3	-181.7	838.7	-125.6	
Bua Chum	28.1	0.5	214.1	-37.6	1531.1	597.7	
Lop Buri	28.8	0.8	235.0	-30.5	1104.8	171.0	
Suphan Buri	29.2	0.9	184.3	-39.1	681.3	-46.6	
Thong Pha Phum	27.2	0.5	155.0	-86.2	1738.7	154.8	
Kanchanaburi	28.9	0.9	89.0	-131.5	541.9	-240.5	
Bangkok Airport	28.7	0.3	301.4	16.5	1396.7	256.8	
Bangkok Metropolis	28.6	0.3	318.7	-15.6	1434.5	134.2	
Over the area	28.6	0.7	194.1	-63.2	1158.5	112.8	
				-25%		11%	

Eastern Thailand

	Temperature (°c		Rainfa	11 (mm)	Accumulative rainfall (mm Since 1 January		
Station		Above		Above		Above	
	Mean	or below	Actual	or below	Actual	or below	
		normal		normal		normal	
Prachin Buri	28.8	0.7	401.1	51.7	1844.7	219.0	
Kabin Buri	27.8	0.1	355.3	52.0	2088.1	678.8	
Aranyaprathet	28.3	0.6	295.6	43.3	1253.9	123.6	
Chon Buri	28.5	0.2	397.5	128.6	1118.3	85.9	
Ko Sichang	28.3	0.2	253.5	-15.7	898.3	-44.4	
Pattaya	27.8	0.1	252.0	47.3	826.8	12.6	
Sattahip	27.8	-0.3	417.8	198.8	1061.5	141.3	
Rayong	28.0	-0.2	152.9	-102.3	810.9	-321.2	
Chanthaburi	27.7	0.5	340.9	-156.7	2085.7	-549.6	
Khlong Yai	27.0	0.1	746.3	65.3	4458.4	84.9	
Over the area	28.0	0.2	361.3	31.2	1644.7	43.0	
				9%		3%	

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.

Monthly Current Report Rainfall and Accumulative Rainfall September 2018

Southern Thailand, east coast

	Temperature (°c)		Rainfa	ll (mm)	Accumulative rainfall (mm) Since 1 January		
Station		Above		Above		Above	
	Mean	or below	Actual	or below	Actual	or below	
		normal		normal		normal	
Phetchaburi	29.0	0.8	84.7	-68.9	582.4	-21.1	
Hua Hin	28.3	0.3	147.4	27.0	739.4	139.6	
Prachuap Khiri Khan	28.0	0.3	62.1	-37.4	776.3	81.8	
Chumphon	27.4	0.5	118.1	-60.2	1369.3	159.4	
Surat Thani	27.1	0.5	92.7	-95.7	1117.5	191.2	
Ko Samui	28.4	0.5	47.4	-74.3	1002.9	69.5	
Nakhon Si Thammarat	27.4	0.1	191.2	29.6	964.0	-146.6	
Songkhla	27.7	-0.2	110.1	-26.8	909.5	90.5	
Hat Yai Airport	26.8	-0.1	135.8	-21.5	811.8	-101.9	
Pattani Airport	27.1	-0.1	163.9	16.8	1009.0	145.0	
Narathiwat	27.1	-0.1	220.3	37.6	1457.6	371.8	
Over the area	27.7	0.3	124.9	-24.9	976.3	88.8	
				-17%		10%	

Southern Thailand, west coast

	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January		
Station		Above		Above		Above	
	Mean	or below	Actual	or below	Actual	or below	
		normal		normal		normal	
Ranong	26.8	0.4	524.2	-122.3	4362.6	916.5	
Takua Pa	27.0	0.3	482.1	-113.4	3192.8	355.6	
Phuket	28.1	0.6	294.0	-67.2	1604.1	-45.5	
Phuket Airport	28.2	0.9	271.9	-127.2	2176.5	330.1	
Ko Lanta	27.6	0.0	284.6	-45.7	1341.7	-306.8	
Trang Airport	27.0	0.4	284.0	-21.1	1647.2	113.5	
Satun	26.9	0.0	300.1	-28.3	1715.4	85.3	
Over the area	27.4	0.4	348.7	-75.0	2291.5	207.0	
				-18%		10%	

NOTES: 1) Mean temperature is the average of daily dry-bulb temperature

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Monthly Current Report

September 2018

		Tempera	ature (°c)	Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
Region	Station		Above		Above		Above
		Mean	or below	Actual	or below	Actual	or below
	ct: n:	27.2	normal	165.6	normal	1640.1	normal
	Chiang Rai Mae Hong Son	27.3 27.0	1.1 0.0	165.6 155.9	-118.3 -43.1	1640.1 1015.0	147.7 -107.6
	Phayao	26.9	0.6	201.1	-43.1	1198.8	232.6
	Chiang Mai	28.1	1.4	64.1	-147.3	736.4	-206.8
	Tha Wang Pha	27.5	0.7	191.8	-19.7	1735.3	449.2
	Nan	28.0	0.8	95.6	-107.9	1091.4	-45.7
	Lamphun	27.8	0.9	62.7	-145.5	847.0	4.8
	Lampang	28.1	1.1	129.6	-82.0	1047.6	136.9
	Mae Sariang Phrae	27.1 28.0	0.6 0.8	183.7 85.7	6.6 -106.0	1298.9 999.0	308.0 6.4
North	Uttaradit	28.7	0.8	83.7 191.1	-57.2	1223.8	-5.1
	Bhumibol Dam	28.3	0.8	204.5	-3.1	816.1	29.0
	Tak	28.8	1.1	126.1	-89.4	730.6	-71.6
	Mae Sot	27.0	0.8	142.5	-42.9	1693.3	357.4
	Umphang	24.9	0.5	177.0	-70.6	1122.6	-152.6
	Phitsanulok	28.4	0.3	212.0	-34.6	1099.8	-10.2
	Lom Sak Phetchabun	27.8 28.0	0.7 0.9	114.6 62.4	-79.0 -143.3	826.9 921.7	-109.3 -101.9
	Wichian Buri	28.3	0.9	163.9	-82.2	1231.9	167.5
	Kamphaeng Phet	28.7	1.1	206.3	-62.5	983.1	-81.1
	Nong Khai	28.8	1.4	207.5	-49.7	1667.6	169.8
	Loei	27.3	0.9	151.6	-83.4	1071.0	-17.9
	Udon Thani	28.3	0.7	121.9	-117.6	1359.7	44.6
	Nakhon Phanom	28.3	1.2	248.6	-41.6	2745.6	510.3
	Sakon Nakhon Mukdahan	28.2 28.4	1.0 1.2	160.6 246.8	-64.2 35.1	1569.9 1904.1	19.3 540.6
	Khon Kaen	27.9	0.7	299.7	67.7	1200.2	91.1
NT d	Kosum Phisai	28.7	1.0	158.4	-82.2	1182.5	51.4
Northeast	Roi Et	28.6	1.1	164.8	-55.0	1202.6	-14.8
	Chaiyaphum	28.1	0.8	149.1	-80.9	821.8	-155.3
	Ubon Ratchathani	28.3	0.9	317.0	23.2	1645.1	210.1
	Tha Tum	28.3	0.6	185.5	-77.5	1040.0	-199.6
	Surin Nakhon Ratchasima	28.0 28.2	0.7 0.8	245.2 162.8	-10.2 -65.5	1057.2 902.4	-216.2 3.8
	Chok Chai	27.9	0.6	148.5	-63.1	793.1	-84.8
	Nang Rong	27.6	0.4	180.1	-59.5	715.7	-303.7
	Nakhon Sawan	28.9	0.9	55.3	-181.7	838.7	-125.6
	Bua Chum	28.1	0.5	214.1	-37.6	1531.1	597.7
	Lop Buri	28.8	0.8	235.0	-30.5	1104.8	171.0
Central	Suphan Buri	29.2	0.9	184.3	-39.1	681.3	-46.6
	Thong Pha Phum Kanchanaburi	27.2	0.5 0.9	155.0 89.0	-86.2 -131.5	1738.7 541.9	154.8 -240.5
	Bangkok Airport	28.9 28.7	0.9	301.4	16.5	1396.7	256.8
	Bangkok Metropolis	28.6	0.3	318.7	-15.6	1434.5	134.2
	Prachin Buri	28.8	0.7	401.1	51.7	1844.7	219.0
	Kabin Buri	27.8	0.1	355.3	52.0	2088.1	678.8
	Aranyaprathet	28.3	0.6	295.6	43.3	1253.9	123.6
	Chon Buri	28.5	0.2	397.5	128.6	1118.3	85.9
East	Ko Sichang	28.3	0.2	253.5	-15.7	898.3	-44.4
	Pattaya Sattahip	27.8 27.8	0.1 -0.3	252.0 417.8	47.3 198.8	826.8 1061.5	12.6 141.3
	Rayong	28.0	-0.3	152.9	-102.3	810.9	-321.2
	Chanthaburi	27.7	0.5	340.9	-156.7	2085.7	-549.6
	Khlong Yai	27.0	0.1	746.3	65.3	4458.4	84.9
· · · · · · · · · · · · · · · · · · ·	Phetchaburi	29.0	0.8	84.7	-68.9	582.4	-21.1
	Hua Hin	28.3	0.3	147.4	27.0	739.4	139.6
	Prachuap Khiri Khan	28.0	0.3	62.1	-37.4	776.3	81.8
	Chumphon Suret Theni	27.4	0.5	118.1	-60.2	1369.3	159.4
uth	Surat Thani Ko Samui	27.1 28.4	0.5 0.5	92.7 47.4	-95.7 -74.3	1117.5 1002.9	191.2 69.5
(East Coast)	Nakhon Si Thammarat	27.4	0.3	191.2	29.6	964.0	-146.6
	Songkhla	27.7	-0.2	110.1	-26.8	909.5	90.5
	Hat Yai Airport	26.8	-0.1	135.8	-21.5	811.8	-101.9
	Pattani Airport	27.1	-0.1	163.9	16.8	1009.0	145.0
	Narathiwat	27.1	-0.1	220.3	37.6	1457.6	371.8
	Ranong	26.8	0.4	524.2	-122.3	4362.6	916.5
	Takua Pa	27.0	0.3	482.1	-113.4	3192.8	355.6
uth	Phuket Phuket Airport	28.1 28.2	0.6 0.9	294.0 271.9	-67.2 -127.2	1604.1 2176.5	-45.5 330.1
(West Coast)	Ko Lanta	27.6	0.9	284.6	-127.2 -45.7	1341.7	-306.8
	Trang Airport	27.0	0.4	284.0	-21.1	1647.2	113.5
	Satun	26.9	0.0	300.1	-28.3	1715.4	85.3
	Over the area	27.9	0.6	209.2	-43.7	1328.2	74.3
	Over the area	21.7					

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