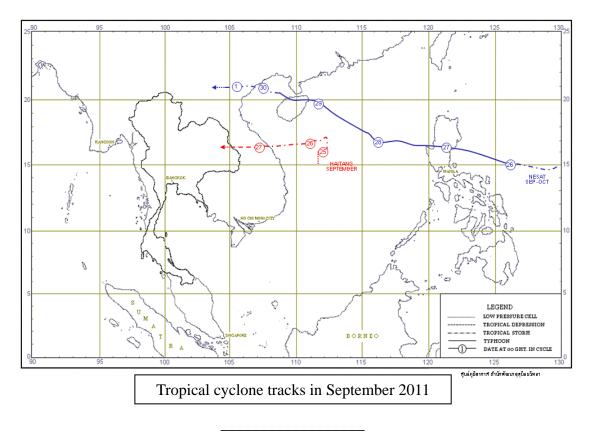
## Monthly Weather Summary in Thailand September 2011

The weather during September was a combination between the rather active monsoon trough which lay across upper Thailand almost the whole month and the moderate to rather active southwest monsoon prevailed over the Andaman Sea, Thailand and the Gulf of Thailand. This was followed by the remnants of tropical storm "HAITANG" and Typhoon "NESAT" during late September, resulting in abundant rainfall led to widely major flooding across upper Thailand mainly in lower northern and central parts almost the whole month. These conditions brought above normal rainfall in northern part 97.5 mm (46%), northeastern part 110.3 mm (46%), eastern part 132.7 mm (40%) and southern part (west coast) 6.7 mm (2%). For the rest of the country, monthly rainfalls were inversely below normal in central part 4.1 mm (2%) and southern part (east coast) 21.3 mm (15%). Mean temperatures were slightly above normal in most parts except for slightly below normal in northeastern part.

- 1 11 September: The moderate monsoon trough which lay across the northern and northeastern parts during mid period after that it strengthened and moved southward to the central northeastern and eastern parts. In addition, the moderate to rather active southwest monsoon prevailed over the Andaman Sea, Thailand and the Gulf of Thailand almost the period. These caused heavy downpour rainfall in upper Thailand throughout the period. The highest daily rainfall of 221.2 mm was measured at Amphoe Mueang, Chanthaburi province on September 10. Phitsanulok, Sukhothai, Phra Nakhon Si Ayutthaya, Ang Thong, Saraburi and Nakhon Sawan provinces remained severe flooding as well as Chanthaburi, Nakhon Nayok and Chon Buri provinces experienced flooding during late period. Moreover, flash floods occurred at Uttaradit and Lampang provinces on September 9 and Phetchabun province on September 10 and also mudslide at Uttaradit on September 9. In southern Thailand, widely scattered to scattered rain and heavy rainfall occurred in some areas with an exceptional of widespread rain with heavy to very heavy rainfall in several places on September 10 and 11. The highest amount of rainfall was 157.1 mm at Amphoe Mueang, Ranong province on September 11. Floods occurred at Phang-nga and Satun provinces on September 11.
- 12 18 September: The monsoon trough lay across northern and upper northeastern parts almost the period. During the first half of the period, the monsoon trough lay to the low pressure cell which located in the Gulf of Tonkin. In addition with the rather active southwest monsoon weakened during the second half of the period. Under these influences, upper Thailand experienced widespread rain with heavy rainfall in several places and very heavy rainfall in some areas especially in the northern and northeastern parts mainly during the first half of the period. The maximum daily rainfall in upper Thailand was 160.0 mm at Bung Khla in Nong Khai province on September 17. Flooding remained in the northern, central and eastern parts and expanded to Phichit, Tak, Nakhon Ratchasima, Kalasin, Loei, Lop Buri, Sing Buri, Suphan Buri, Nonthaburi and Pathum Thani provinces. There were also reports of flash flood at Uttaradit Lampang and Phetchabun provinces during the first half of the period. For southern Thailand, fairly widespread rain and isolated heavy rainfall occurred in the first half of the period then rainfall was relatively decreased over the area of east coast. The maximum daily rainfall was 82.2 mm at Amphoe Mueang, Narathiwat province on September 13.
- 19-30 **September:** The moderated high pressure area from China extended its ridge to cover upper Thailand during early period. The monsoon trough moved southward to lie across the lower northern, upper central and northeastern parts, after that it lay over the central and lower northeastern parts to the low pressure cell which located in the middle South China Sea. This low pressure cell intensified into a tropical storm "HAITANG" on September 25 before making

landfall over coast of Hue, Vietnam on September 27 and downgraded to tropical depression as it moved pass Lao. Moreover, the remnant of "HAITANG" covered northeastern and northern parts of Thailand on September 28 and typhoon "NESAT", which weakened into a tropical storm, made landfall over Halong, Vietnam on September 30. In addition, the rather active southwest monsoon prevailed over the Andaman Sea, southern part and the Gulf of Thailand almost the period. The combined effect of these conditions brought plentiful rain to upper Thailand almost the period. The highest daily rainfall of 152.3 mm was measured at Na Thom in Nakhon Phanom province on September 30. Flooding remained in Phitsanulok, Sukhothai, Uttaradit, Lampang, Phetchabun, Phichit, Tak, Kalasin, Loei, Nakhon Sawan, Phra Nakhon Si Ayutthaya, Ang Thong, Saraburi, Lop Buri, Sing Buri, Suphan Buri and Nakhon Nayok provinces. Prachin Buri and Chaing Mai provinces experienced flash flood on September 24 and September 28, respectively. In southern Thailand, scattered to fairly widespread rain was found with heavy rainfall in some areas mainly in west coast with the maximum daily rainfall, 93.5 mm at Takua Pa in Phang-nga province on September 19.



**Note**: Rainfall, temperatures and natural disasters in this report were updated up to October 5, 2011.

Climatological Center Meteorological Development Bureau Meteorological Department

# Monthly Current Report Rainfall and Accumulative Rainfa September 2011

#### Northern 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
Chiang Rai	26.7	0.8	273.5	2.3	1952.9	456.5
Mae Hong Son	27.3	0.6	235.6	30.9	1503.9	388.0
Phayao	26.8	0.4	161.3	-32.2	1277.6	350.2
Chiang Mai	27.2	0.6	254.9	52.5	1372.5	424.6
Tha Wang Pha	27.0	0.2	400.0	217.0	1840.7	560.7
Nan	27.3	0.3	326.7	130.2	1868.5	737.0
Lamphun	26.9	0.0	318.4	127.1	1558.0	761.4
Lampang	27.3	0.5	314.3	104.0	1624.7	713.0
Mae Sariang	26.6	0.0	233.8	56.9	1471.5	468.3
Phrae	27.2	0.2	263.0	77.6	1479.7	516.9
Uttaradit	27.7	-0.2	501.0	237.5	1953.7	693.8
Bhumibol Dam	27.6	0.1	227.2	8.6	1102.7	329.2
Tak	27.8	0.4	238.4	29.5	1126.8	342.9
Mae Sot	26.0	0.0	374.1	214.2	1948.2	680.6
Umphang	24.6	0.3	262.7	14.7	1724.0	485.5
Phitsanulok	27.9	-0.2	380.5	149.9	1695.4	559.0
Lom Sak	27.0	-0.1	323.0	134.8	978.7	32.7
Phetchabun	27.1	0.0	400.0	199.2	1553.3	578.2
Wichian Buri	27.8	0.0	339.1	94.8	1452.0	387.3
Kamphaeng Phet	27.5	-0.2	368.8	100.3	1342.6	308.5
Over the area	27.1	0.2	309.8	97.5	1541.4	488.9
				46%		46%

#### Northeastern 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
Nong Khai	27.5	0.2	574.3	338.9	2219.4	778.8
Loei	26.4	0.1	464.2	244.3	1781.6	683.5
Udon Thani	27.2	-0.3	274.7	50.4	1456.8	159.5
Nakhon Phanom	26.6	-0.4	527.7	251.2	2643.7	483.2
Sakon Nakhon	26.8	-0.4	220.2	8.9	1689.0	175.0
Mukdahan	26.8	-0.5	231.5	-4.0	1701.5	301.1
Khon Kaen	26.8	-0.3	367.8	131.7	1188.5	108.0
Kosum Phisai	27.4	-0.2	385.3	157.8	1294.8	206.4
Roi Et	27.0	-0.4	561.6	312.0	1423.9	190.3
Chaiyaphum	27.0	-0.2	282.1	52.8	1169.0	204.8
Ubon Ratchathani	26.6	-0.6	366.8	77.1	1661.1	211.7
Tha Tum	27.6	0.0	297.5	21.2	1237.2	-5.5
Surin	27.0	-0.2	315.5	56.3	1518.1	328.6
Nakhon Ratchasima	27.5	0.3	187.0	-39.6	1039.9	176.4
Chok Chai	27.3	0.2	313.1	82.0	894.8	-7.2
Nang Rong	27.0	-0.2	265.3	23.9	1121.4	106.1
Over the area	27.0	-0.2	352.2	110.3	1502.5	256.1
				46%		21%

NOTES: 1) Input data are received via ssb radio each day. They have not been certified ye so this current report has to be checked with monthly weather reports later

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

# Monthly Current Report Rainfall and Accumulative Rainfal September 2011

#### 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	28.0	0.1	210.9	-7.3	1375.1	465.7
Bua Chum	27.8	0.3	426.1	163.0	1030.0	83.8
Lop Buri	27.9	0.1	325.5	61.8	1047.5	114.1
Suphan Buri	28.3	0.2	189.7	-64.2	765.3	-33.8
Thong Pha Phum	26.2	-0.4	218.0	-24.5	1806.3	246.9
Kanchanaburi	28.5	0.6	131.8	-96.0	911.2	134.1
Bangkok Airport	28.2	0.1	329.7	56.3	1840.8	831.0
Bangkok Metropolis	28.3	0.3	223.6	-121.7	1876.7	653.4
Over the area	27.9	0.2	256.9	-4.1	1331.6	311.9
				-2%		31%

## Eastern 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
Prachin Buri	27.9	-0.1	627.0	271.3	2169.5	497.1
Kabin Buri	27.4	-0.2	207.4	-95.8	1018.7	-445.8
Aranyaprathet	27.3	0.0	219.4	-38.8	1137.4	-17.8
Chon Buri	28.7	0.8	309.6	27.9	1507.4	481.5
Ko Sichang	28.4	0.5	142.9	-146.5	822.8	-125.1
Pattaya	28.0	0.4	291.9	77.2	1028.6	235.7
Sattahip	28.5	0.7	179.7	-51.7	1098.9	182.4
Rayong	28.2	0.2	373.8	110.7	1436.1	309.8
Chanthaburi	27.2	0.3	860.7	360.6	2998.3	487.4
Khlong Yai	26.7	-0.2	1446.7	812.1	4826.9	552.4
Over the area	27.8	0.2	465.9	132.7	1804.5	215.7
				40%		14%

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- 3) "T" is trace, rainfall amount less than 0.1 mm.
- 4) "blank" is incomplete data.

# Monthly Current Report Rainfall and Accumulative Rainfal September 2011

#### Southern Thailand, east 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
Phetchaburi	28.4	0.3	129.2	-27.5	783.3	202.4
Hua Hin	28.6	0.8	61.9	-59.8	524.2	-50.9
Prachuap Khiri Khan	27.8	0.3	18.7	-69.7	723.4	64.2
Chumphon	26.9	0.1	178.9	10.9	1481.2	288.6
Surat Thani	27.2	0.7	94.7	-43.3	1559.1	720.5
Ko Samui	28.3	0.6	72.7	-44.3	2139.0	1197.7
Nakhon Si Thammarat	27.5	0.4	104.0	-56.1	2934.1	1900.6
Songkhla	28.1	0.1	136.6	6.6	1579.4	824.3
Hat Yai Airport	27.0	0.3	246.0	86.6	1296.2	410.5
Pattani Airport	27.5	0.5	79.8	-71.5	1184.3	341.8
Narathiwat	27.4	0.2	223.0	34.1	2142.2	1084.3
Over the area	27.7	0.4	122.3	-21.3	1486.0	634.8
				-15%		75%

## 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	26.3	0.1	911.5	250.2	3880.9	385.4
Takua Pa	26.7	0.1	594.1	-4.1	3542.7	741.4
Phuket	28.4	1.1	262.0	-120.8	1685.6	-47.4
Phuket Airport	27.8	0.7	316.0	-92.9	2235.5	368.1
Ko Lanta	27.9	0.4	264.6	-86.7	1608.6	-39.5
Trang Airport	27.0	0.5	299.3	-30.9	1798.3	201.0
Satun	27.2	0.4	480.7	132.3	2012.1	349.3
Over the area	27.3	0.4	446.9	6.7	2394.8	279.8
				2%		13%

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- 4) "blank" is incomplete data.