



Weather outlook for winter of Thailand (Mid-October 2012 to Mid-February 2013)

General Situation

Upper Thailand The beginning of winter, (mid-October till November 2012) a high pressure area from China will occasionally extend its ridge to cover upper Thailand. Such feature will cause thundershower and gusty winds in some areas at first. Afterwards, the temperature will decrease. As a result, it will become cool almost everywhere in the Northern Region and the Northeastern Region while cool weather will happen in many areas of the Central Region and the Eastern Region. **The middle of winter**, (December 2012 till January 2013) a stronger high pressure area from China will extend its ridge over upper Thailand more continuously. As a result, the temperature will drop and cause either cool or cold weather almost everywhere in the Northern Region and the Northeastern Region. Besides, it will be very cold in some areas on certain days as well. For the Central Region and the Eastern Region, it will be cool everywhere whilst cold weather can occur in some areas on certain days. Furthermore, it will be cold or very cold in mountainous areas and there will be morning hoarfrosts on some days. **The end of winter**, (first half of February 2013) a high pressure area which extended its ridge to cover upper Thailand will become weak and discontinuous. Consequently, it will be warmer and can turn to be hot during the day in the Central Region and the Eastern Region. Somehow, either cool or cold mornings will persist in the Northern Region and the Northeastern Region. The cold season is expected to end by mid-February 2013.

Southern part Since mid-October 2012 until mid-January 2013, the active Northeast Monsoon, which holds moist air from the Gulf of Thailand, will periodically prevail over the Gulf of Thailand as well as southern Thailand, especially during November and December 2012. In addition, a low pressure trough will lie across the upper part, the middle part, and the lower part of the Southern Region in October, November, and December, respectively. Such situations will cause ample rainfalls together with heavy and very heavy rain, particularly along the eastern coast from Chumphon Province southward. Since the middle of January until the middle of February 2013, the Northeast Monsoon which prevailed over the Gulf of Thailand and the Southern region will weaken. This circumstance will limit both quantity and distribution of rainfalls and bring the rainy season in the Southern Region to an end.

Based on the El Niño/La Niña monitoring, it was found that the El Niño will develop within this period and continue until early 2013.

Forecast for each regions

The Northern Region and the Northeastern Region Since the middle of October until November 2012, it will be cool almost everywhere and cold in certain places, particularly in the upper part of both regions. Additionally, morning fog and isolated showers are expected also. Since December 2012 until January 2013, it will be either cool or cold almost everywhere. During certain periods, very cold weather can be observed in some areas, especially in Nan Province and Tak Province. Furthermore, dense fog will take place in several areas from time to time. In the mountainous areas, cold or very cold weather together with hoarfrosts are expected. In February 2013, cool or cold mornings will be noticed, especially in the upper part of both regions. Dense fog will occur in several places as well.

The Central Region and the Eastern Region Since the middle of October until November 2012, wildly scattered showers, periodically cool weather, and morning fog will occur. Since December 2012 till January 2013, cool weather will exist everywhere together with cold weather in certain locations, especially in the mountainous areas of Nakhon Sawan, Uthai Thani, Chainat, Kanchanaburi, Ratch Buri, Suphan Buri, Lop Buri, Sara Buri, Nakhon Nayok, Chachoengsao, Prachin Buri, Sakaeo, and Chantha Buri. Dense fog will occur in many areas at some duration. In February 2013, cool mornings will be observed in the upper part as well as mountainous areas of both regions. It will also be very foggy in several places. Additionally, it will be warmer and become hot during the day.

The Southern Region (east coast) Since the middle of October 2012 until January 2013, pluvial rainfalls will persist. There will also be heavy and very heavy rain in many places, mostly in November and December 2012. Accordingly, flash flood, downhill overflows, and riverbank overflows will be likely in some provinces. Since the middle of January till February 2013, both amount and distribution of rainfalls will drop. Somehow, cool mornings will still be experienced, mainly in the upper part, while scattered showers and isolated heavy rain will sometimes occur in the lower part.

The Southern Region (west coast) Since the middle of October until November 2012, ample rainfalls will still continue while the state of the Andaman Sea will be rather active. Since December 2012 onward, both amount and distribution of rain will be limited to isolated showers.

Bangkok Metropolis and Vicinity Since the middle of October until November 2012, wildly scattered showers, periodically cool weather, and morning fog are expected. Since December 2012 until January 2013, cool weather will occur almost everywhere. In February 2013, it will become warmer and turn to be hot during the day.

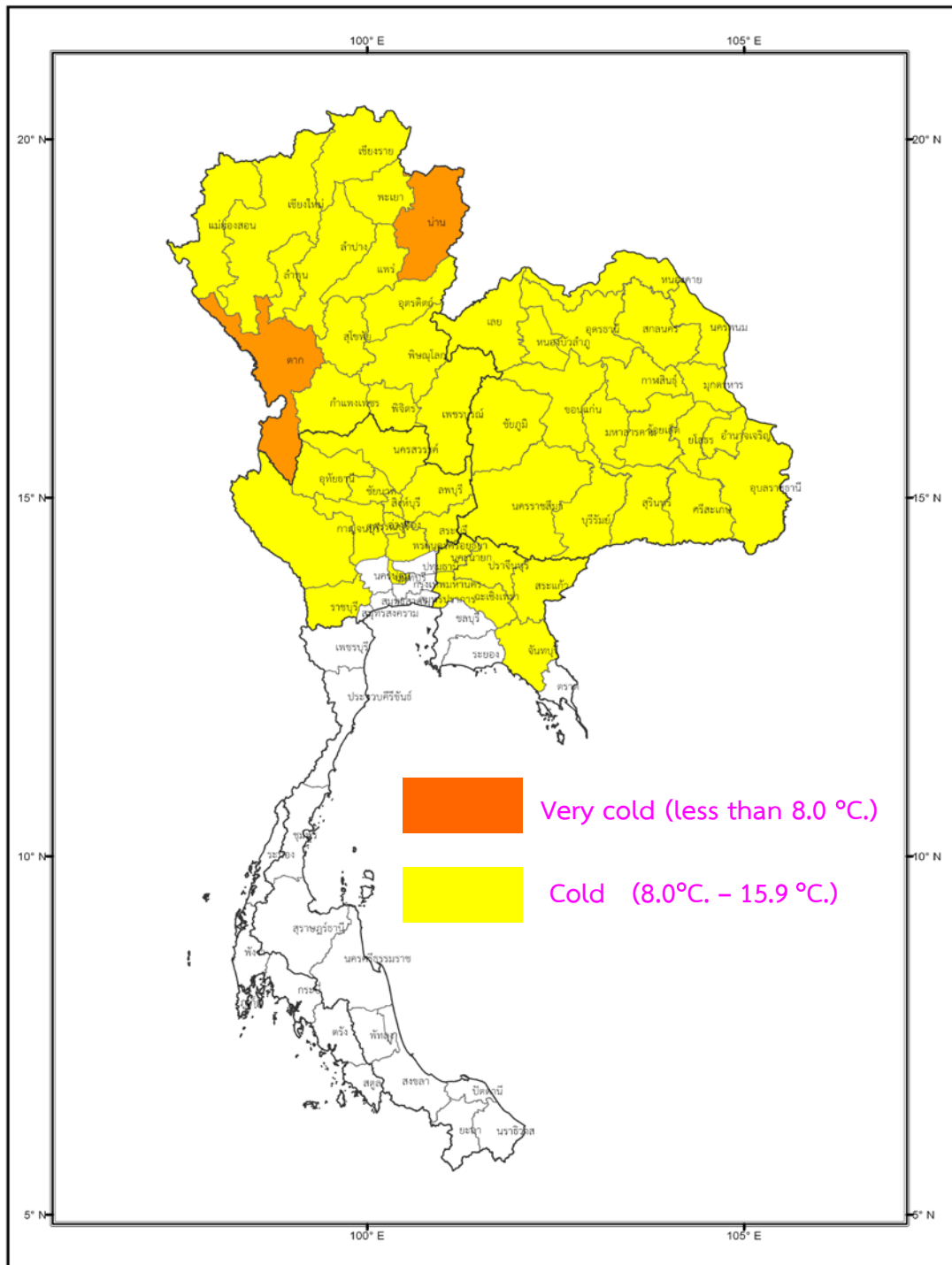
Conclusion It is expected that the cold season will begin by the middle of October as usual. Even though almost all averaged temperatures in upper Thailand will be slightly higher than normal, it will still become as cold as it had been in the previous year there. The coldest period is estimated to occur since December 2012 until January 2013. In case of southern Thailand, it will be cool in certain areas, mainly in the upper part of the region. Since November till December 2012, there will be abundant rainfalls there together with heavy and very heavy rain in many areas, particularly along the eastern coast from Chumphon Province southward. Such situations may cause flash floods, downhill overflows, and riverbank overflows in some areas. For the sea state, rough sea with the wave height of 2-4 meters will take place at times in the Gulf of Thailand whereas the wave height of 1-2 meters will be observed in the Andaman Sea.

Remark

Cool	minimum temperature	16.0 - 22.9°C
Cold	minimum temperature	8.0 - 15.9°C
Very Cold	minimum temperature	0 - 7.9°C

Climatological Center
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Thai Meteorological Development
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The areas where a chance of cold to very cold weather
 During December 2012 – January 2013



Remark : Excludes minimum temperature in mountainous areas.

Mean minimum temperature forecast during winter season 2012-2013

Regions	November2012	December2012	January 2013	February 2013	
				First half	Second half
Northern	Upper 17-19 °C. Isolated showers	13-15 °C. Isolated showers	14-16 °C. Isolated showers	15-17 °C. Isolated showers	16-18 °C.
	Lower 19-21 °C. Isolated showers	15-17 °C. Isolated showers	17-19 °C. Isolated showers	18-20 °C.	19-21 °C.
Northeastern	Upper 18-20 °C. Isolated showers	14-16 °C. Isolated showers	16-18 °C. Isolated showers	17-19 °C. Isolated showers	18-20 °C.
	Lower 20-22 °C. Isolated showers	16-18 °C. Isolated showers	18-20 °C. Isolated showers	18-20 °C.	19-21 °C.
Central	21-23 °C. Isolated showers	19-21 °C. Isolated showers	21-23 °C. Isolated showers	22-24 °C. Isolated showers	23-25 °C.
East	22-24 °C. Widely scattered showers	20-22 °C. Isolated showers	21-23 °C. Isolated showers	22-24 °C. Isolated showers	23-25 °C.
Southern Thailand (East coast)	23-25 °C. Almost widespread thundershowers and heavy to very heavy falls in some areas, mainly from Chumphon southward.	22-24 °C. Almost widespread thundershowers and heavy falls in some areas, mainly from Surat Thani southward.	22-24 °C. Cool weather in upper portion. Widely scattered showers, mainly during the first half of the month.	22-24 °C. Isolated showers	
Southern Thailand (West coast)	23-25 °C. Scattered showers and isolated heavy falls.	22-24 °C. Widely scattered showers.	22-24 °C. Widely scattered showers, mainly during the first half of the month.	22-24 °C. Isolated showers	
Bangkok Metropolis	23-25 °C. Isolated showers	20-22 °C. Isolated shower	22-24 °C. Isolated shower	23-25 °C. Isolated showers	24-26 °C.

The extreme minimum temperature by statistics and forecast in December 2012 and January 2013

	December					January				
	Extreme minimum temperature (1951-2011)			Extreme minimum temperature in 2011 (°C.)	Ext. minimum temperature forecast in 2012 (°C.)	Extreme minimum temperature (1951-2012)			Extreme minimum temperature in 2012 (°C.)	Ext. minimum temperature forecast in 2013 (°C.)
	(°C.)	Date	Year			(°C.)	Date	Year		
North										
Chiang Rai	1.5	25	1999	10.6	9-11	1.5	2	1974	10.2	9-11
Chiang Mai	3.8	25	1999	13.4	11-13	3.7	2	1974	11.2	10-12
Phitsanulok	8.9	26	1999	14.7	13-15	7.5	13	1955	15.3	13-15
Northeast										
loei	2.2	31	1973 1975	9.9	8-10	0.1	2	1974	13.0	9-11
Nakhon Phanom	4.1	30	1975	11.6	9-11	1.8	12	1955	13.8	10-12
Nakhon Ratchasima	6.2	31	1975	13.5	12-14	4.9	12	1955	17.3	15-17
Ubon Ratchathani	8.5	30	1975	12.6	12-14	7.6	12	1955	15.6	14-16
Central										
Nakhon Sawan	7.7	25	1999	15.4	14-16	6.1	13	1955	17.9	15-17
Suphanburi	10.0	31	1975	16.3	15-17	9.2	13	1955	19.7	18-20
Kanchanaburi	6.8	31	1975	13.5	13-15	5.5	13	1955	16.8	15-17
East										
Aranyaprathet (Sa kaew)	10.0	31	1975	15.4	15-17	7.6	16	1963	19.1	18-20
Chon Buri	12.0	29	1975	17.7	16-18	9.9	12	1955	20.1	19-21
South										
Prachuap Khiri Khan	11.4	31	1956	19.5	18-20	10.5	19	1963	20.5	18-20
Trang	18.4	1	1982	23.5	22-24	17.4	4	1957	24.3	22-24
Bangkok (Bangna)	11.5	31	1975	18.1	17-19	11.0	15	1976	20.9	19-21

Remark : Excludes minimum temperature in mountainous areas.