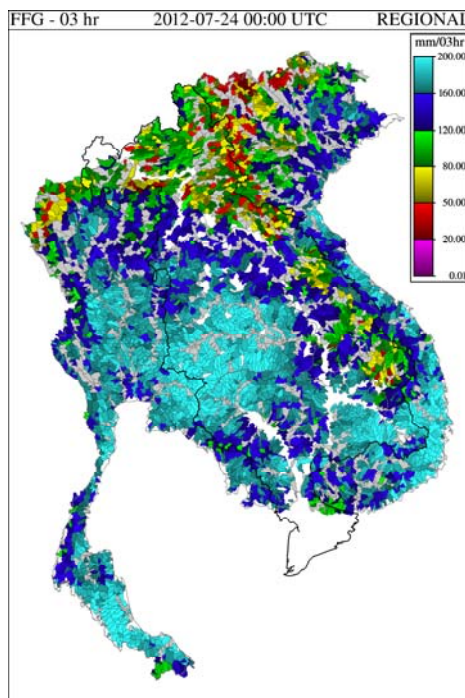




# Mekong River Commission Flood Management and Mitigation Programme

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## Evaluation Report on Flash Flood Guidance System for Flood Season 2012 (May - October 2012) Final



Prepared by  
Regional Flood Management and Mitigation Center  
November 2012





## Certification of Approval of Internal FMMP Technical Document

Evaluation Report on Flash Flood Guidance System for Flood Season  
2012  
(May - October 2012)

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## 1. BACKGROUND INFORMATION

To respond to regional and national needs and in order to address the problems of flash floods in each MRC Member Country of the Mekong River Commission (MRC), the MRC and the Hydrological Research Centre (HRC) in San Diego, California, USA, with the financial support from the Office of US Foreign Disaster Assistance (OFDA) of the US Agency for International Development (USAID) have jointly implemented flash-flood mitigation in Cambodia, Lao PDR, Thailand and Vietnam under the MRC Flood Management and Mitigation Programme (FMMP).

In late 2009 the computational and dissemination servers for the MRCFFG system were installed at MRC's Regional Flood Management and Mitigation Centre (RFMMC) in Phnom Penh, Cambodia, which allowed the line agencies of the MRC member countries and the RFMMC to get access to the FFG products for training as well as for operational purposes. A five-day MRCFFG system in-depth regional training course, combined with hands-on operation, and a three-day national training course were successfully organised in 2010. Presently the MRCFFG system is put in an operational testing mode in order to fine-tuning as well as to gain further experience.

During the 2010 flood season the flash flood guidance system (FFGS) has been operating successfully. Reference is made to the records of tropical storms and records of tropical depressions. The recent flash floods in the South of Thailand in March 2011 had been well identified and presented on the MRC website together with flash flood warning information.

During the 2012 flood season the flood forecasting team of RFMMC continued operating the flash flood guidance system; the information received from FFGS was processed, updated and posted in the MRC flood forecasting webpage in parallel with the river flood forecast. During the severe weather condition in the 2012 flood season, such as tropical storm "Kai- Tak", "Gaimi", and the Inter Tropical Convergence Zone (ITCZ), the MRCFFG system did detect very clearly the flash flood risk areas in some villages and districts of the four MRC Member Countries.

In March 2011 the first evaluation report on MRCFFG system has been produced, to evaluate the performance of FFG system for period from May until 31 October 2011.

The present evaluation report is a third evaluation report of MRCFFG system, it produced to evaluate the performance of FFGS for the detection of the risk areas of potential flash floods in villages and districts in Cambodia, Lao PDR, Thailand and Viet Nam during the flood season from May until 31 October 2012.



## **2. METHODOLOGY TO EVALUATE FLASH FLOOD GUIDANCE PRODUCT**

The methodology for evaluation of flash flood guidance product used in the present report is based in two concepts. The first concept evaluates the feed-back of the FFGS from the users or from other sources of information such as the media or the press. As the link between the regional flood center and the local people (through the focal person at national line agencies) is not yet fully established, the feed-back information on flash flood areas was mainly collected from the national media, such as online newspapers.

The second concept evaluates the FFGS through the recorded water levels that are available in the operational database of RFMMC. If FFG occurred in the sub-areas where water level stations are available, the FFG product can be evaluated by studying the changing (rising) water level records of stations located in the downstream part of sub-catchments.





### 3. FLASH FLOOD IN MEKONG REGION

The Lower Mekong Basin (LMB) during the 2012 flood season was covered by several heavy weather situations such as tropical storms, tropical depressions and also the ITCZ, which lead to flash flood occurrences at some Mekong tributaries. The next paragraphs describe examples of flash floods, which occurred at some tributaries during the severe weather condition of the 2012 flood season.

#### 3.1 Flash flood caused by low pressure (22-23 May 2012)

During the third week of May, in the period 21-23 May, the northern part of Viet Nam was covered by the low pressure (see Figure 3-1). That generated heavy rainfall in some catchments. Figure 3-2 presents the 24 Accumulated Mean Aerial Precipitation (MAP) of the Mekong Region on 22 May 2012. The heavy rainfall affected some sub catchment located in the northern part of Viet Nam. On 21 May 2012 at 00:00 UTC (7:00 AM local time) the MRC Flash Flood Guidance system (MRCFFGS) detected some districts in the northern provinces of Viet Nam, which showed high risk to flash flood occurrences. Figure 3-3 and Figure 3-4 present the 1 hourly and 3 hourly FFG values for some areas of the Mekong catchments. The information regarding flash flood risk areas on 21 May 2012 at 00:00 UTC is also confirmed by information published in the Vietnamese newspaper “Thanh Nien”, dated 24 May 2012. It was stated that flash floods had occurred in the identified flash flood risk areas. Annex 1 presents information, collected from the Vietnamese newspaper.

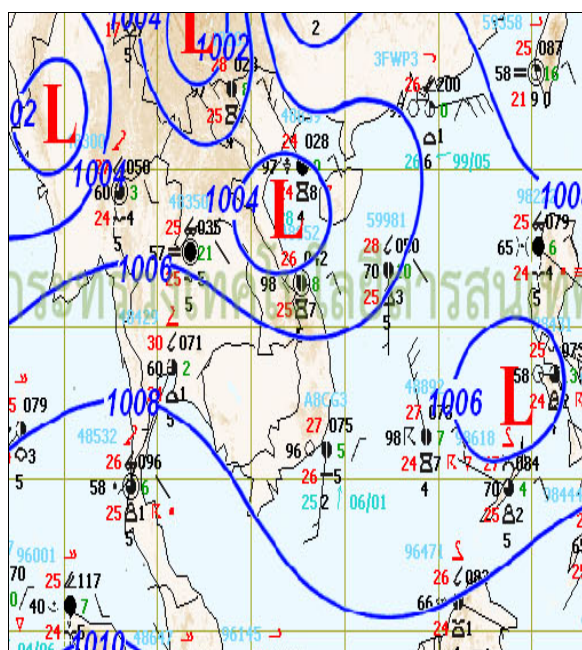


Figure 3-1 Weather situation in the LMB at 22 May 2012 18:00 UTC.

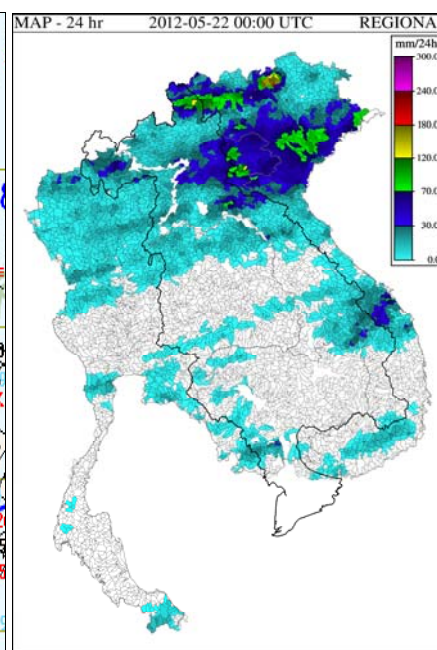


Figure 3-2 24 hourly Mean Aerial Precipitation (MaP) from 01:00 UTC on 21 May to 00:00 UTC on 22 May 2012.

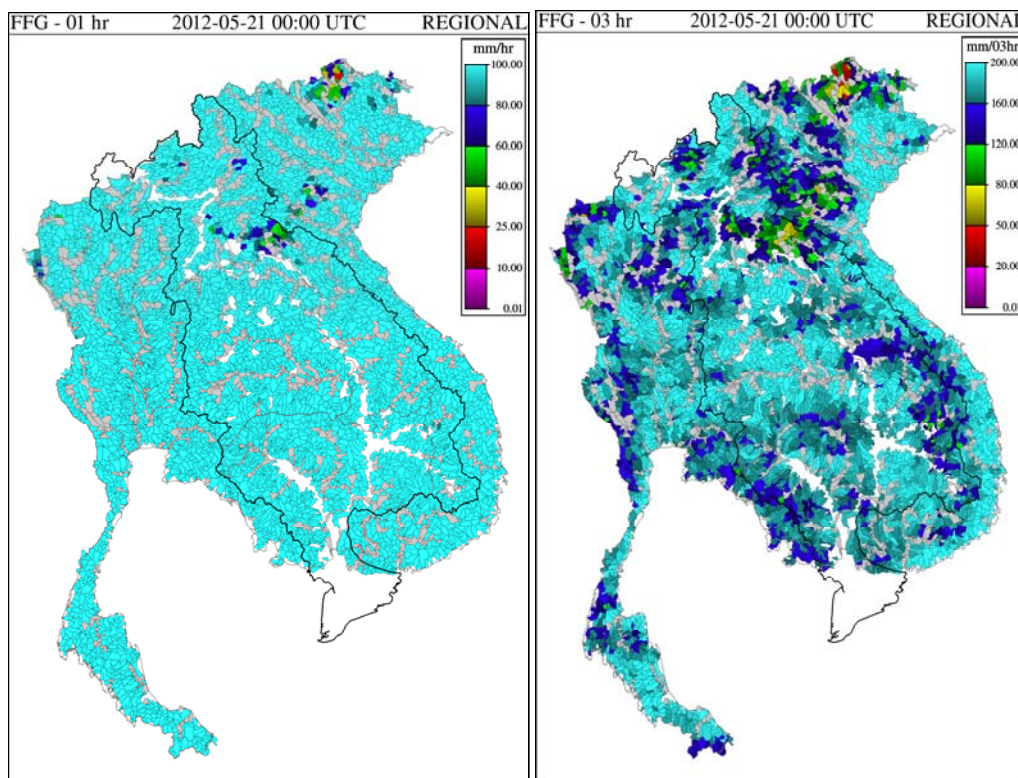


Figure 3-3 1 Hourly Flash Flood Guidance (FFG) on 21 May 2012 at 00:00 UTC (7:00 AM local time ) showed a number of high risk areas in some districts of northern provinces of Viet Nam.

Figure 3-4 3 Hourly Flash Flood Guidance (FFG) On 21 May 2012 at 00:00 UTC (7:00 AM local time ) showed a number of high risk areas in some districts of northern provinces of Viet Nam.

### 3.2 Flash flood in southern provinces of Thailand caused by low pressure (06-09 June 2012)

During the period 06-07 June 2012 the trough of low pressure was located across Myanmar, Thailand, Lao PDR and Viet Nam. Scattered thundershower with isolated heavy rain occurred over areas of Myanmar, Thailand, Cambodia, Lao PDR and Viet Nam, particularly in the South and the Southwest Coast of Thailand, the North and the Central of Lao PDR and Viet Nam the Central, the South and the Southwest of Cambodia. Figure 3-5 present the weather chart of LMB at 05 June 2012. Figure 3-6 presents the 24 hour accumulated Mean Aerial Precipitation from 01 :00 UTC of 05 June to 00:00 UTC on 06 June 2012.

On 06 June 2012 at 00:00 UTC (7:00 AM local time) the MRC Flash Flood Guidance System (MRCFFGS) detected that various areas of the southern provinces of Thailand were at risk of flash flood occurrences. Figure 3-7 and Figure 3-8 present the 1 hourly and 3 hourly FFG values at some areas of southern provinces of Thailand.

The information on flash flood risk areas on 06 June 2012 at 00:00 UTC was confirmed by the information published in the Thai newspaper “The Nation”. The flash flood risk areas, which were detected by the MRCFFGS, corresponded with the reported flash flood areas. Annex 1 provides the information collected from the “The Nation”.

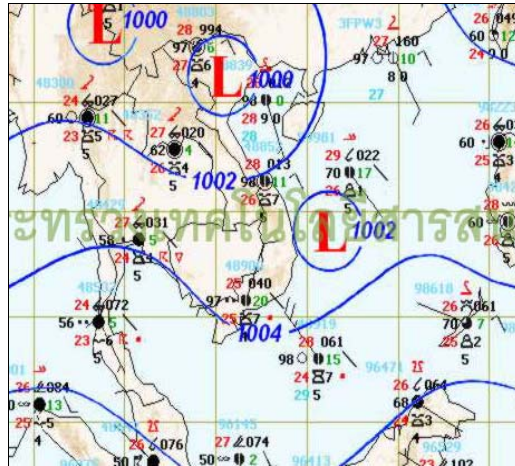


Figure 3-5 Weather situation in the LMB at 05 June 2012.

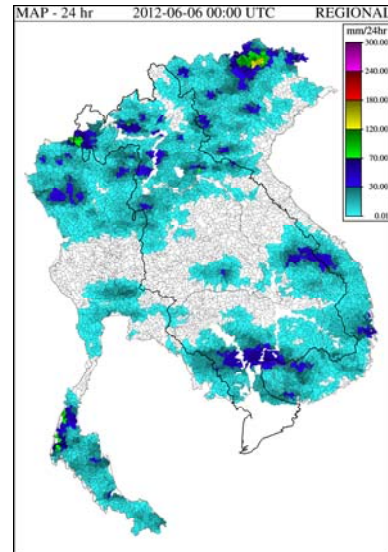


Figure 3-6 24 Hours Mean Aerial Precipitation (MAP) from 01:00 UTC on 05 June to 00:00 UTC on 06 June 2012.

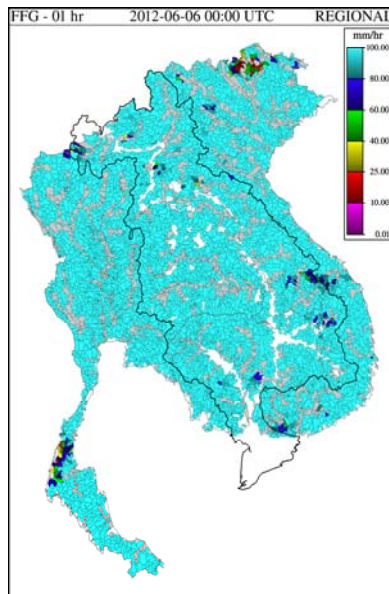


Figure 3-7 1 Hourly Flash Flood Guidance (FFG) on 06 June 2012 at 00:00 UTC (7:00 AM local time) showed a number of high risk areas in some districts of southern provinces in Thailand.

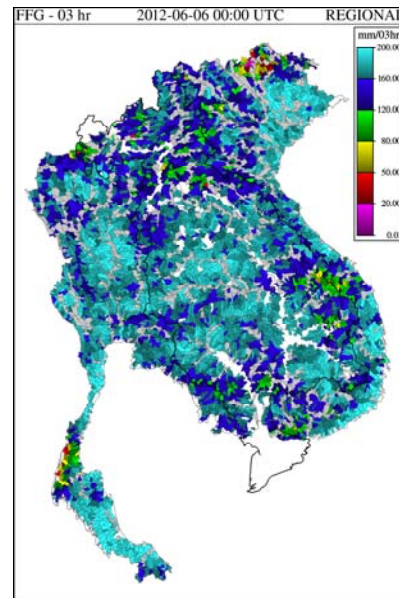


Figure 3-8 3 Hourly Flash Flood Guidance (FFG) on 06 June 2012 at 00:00 UTC (7:00 AM local time) showed a number of high risk areas in some districts of southern provinces in Thailand.



### 3.3 Flash flood in northern Viet Nam, Thailand and Lao PDR caused by TD Vicente (24 – 25 July 2012)

During 24-25 July the depression caused by typhoon “Vicente” dissipated overland as low pressure. Heavy rain occurred in the north, the northeast of Thailand, Lao PDR and Viet Nam. Figure 3-9 and Figure 3-10 present the weather chart during the depression caused by typhoon “Vicente”.

On 24 July 2012 at 00:00 UTC (7:00 AM local time) the MRC Flash Flood Guidance System (MRCFFGS) detected that some areas of the Nam Ou catchment were faced with high risk to flash flood occurrences. Figure 3-11 and Figure 3-12 present the 1 hourly and 3 hourly FFG values at some areas of the Mekong catchments, and other areas located in the northern provinces of Viet Nam and Thailand.

The information on flash flood risk areas on 24 July 2012 at 00:00 UTC was confirmed by the rapidly changing water levels at stations located in the Nam Ou, Nam Nam Khan, Nam Ngum sub-catchments. The hydrographs of those stations during the TD “Vicente” are presented in Figure 3-13, Figure 3-14 and Figure 3-15. Figure 3-16 presents the map which shows the flash flood risk areas and locations of the water level monitoring stations at the downstream part of flash flood risk areas, where rapidly changing flood levels were recorded. This is consistent with information, published in the newspaper “Vientiane Times”, dated 26 July 2012, the Vietnamese newspaper “Thanh Nien”, dated 26 July 2012, and the Thai newspaper “The Nation”, dated 25 July 2012, and corresponded with the flash flood risk areas, which were detected by the MRCFFGS. Annex 1 provides the information collected from the “Vientiane Times”.

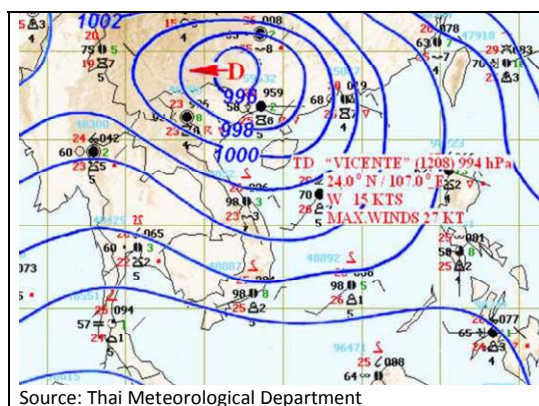


Figure 3-9 Weather Chart issued at 18:00 UTC on 24 July 2012.

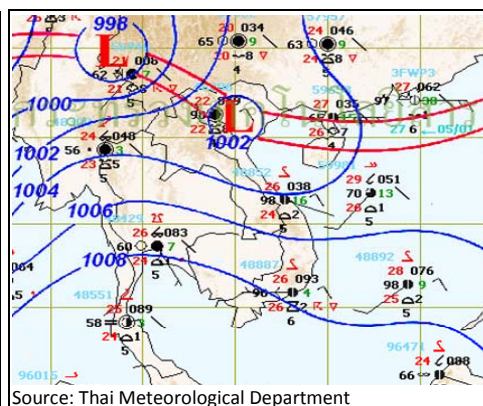


Figure 3-10 Weather Chart issued at 18:00 UTC on 26 July 2012.

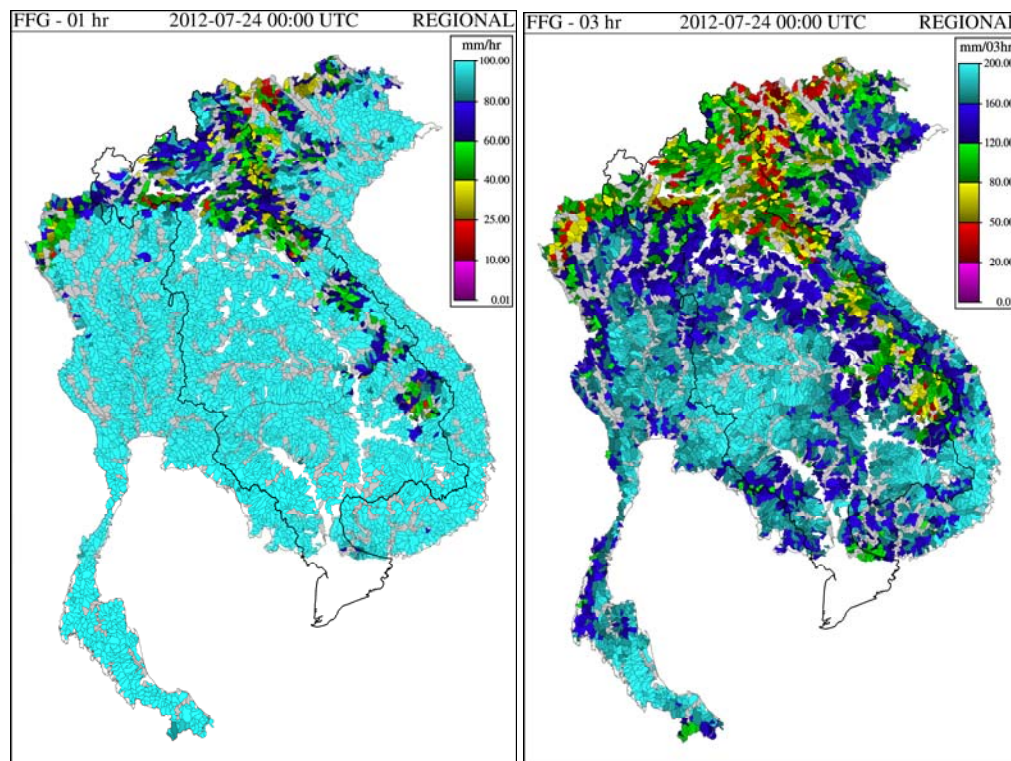


Figure 3-11 1 Hourly FFG on 24 July 2012 at 00:00 UTC.

Figure 3-12 3 Hourly FFG on 24 July 2012 at 00:00 UTC.

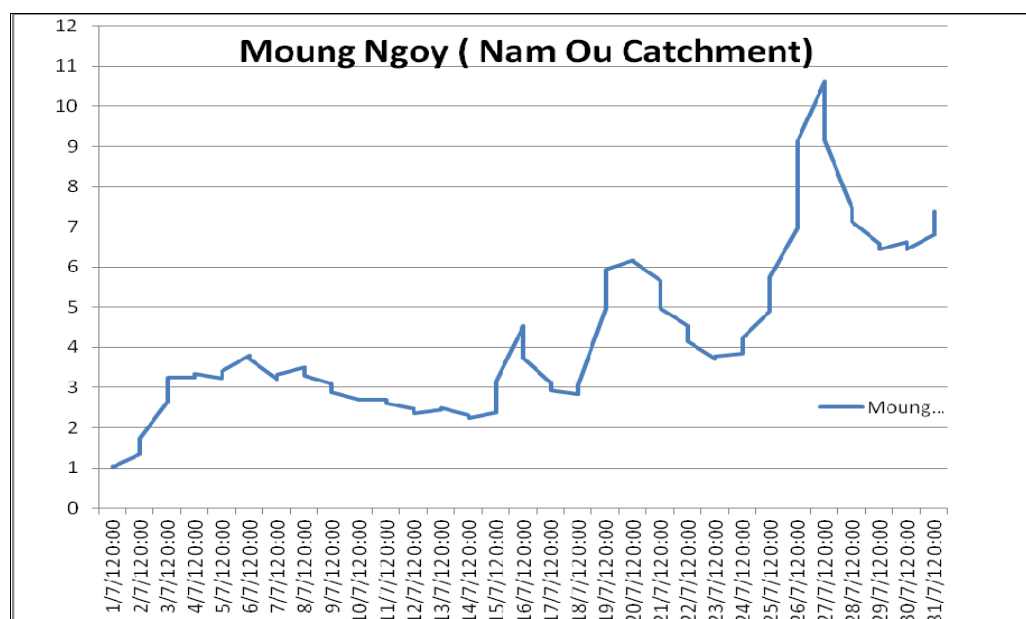


Figure 3-13 Hydrograph of Moug Ngoy station (Nam Ou catchment) during the TD "Vicente".

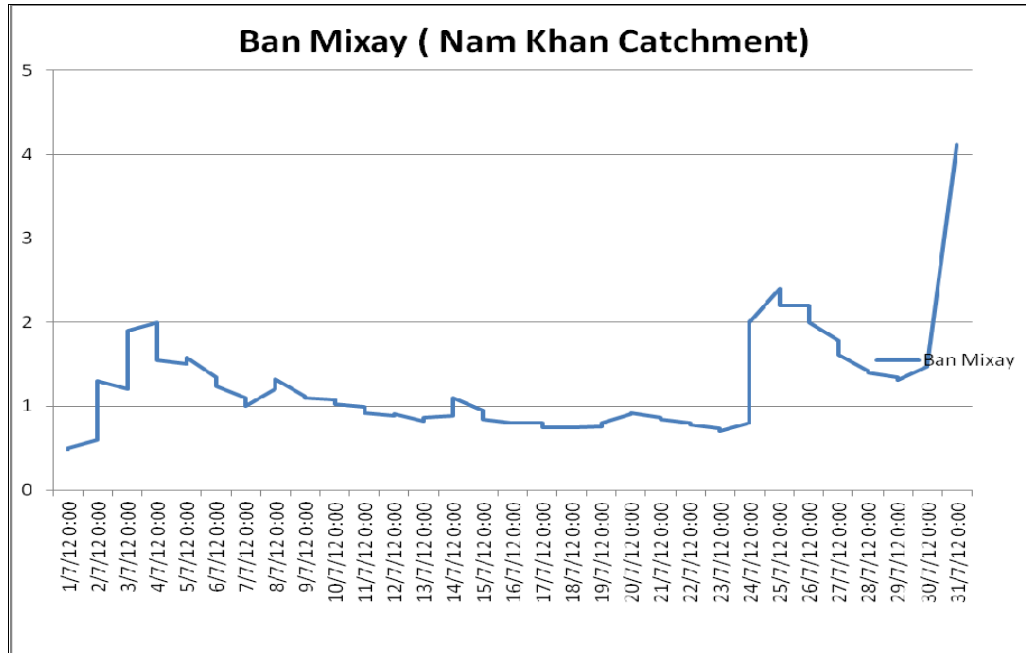


Figure 3-14 Hydrograph of Ban Mixay station (Nam Khan catchments) during the TD "Vicente".

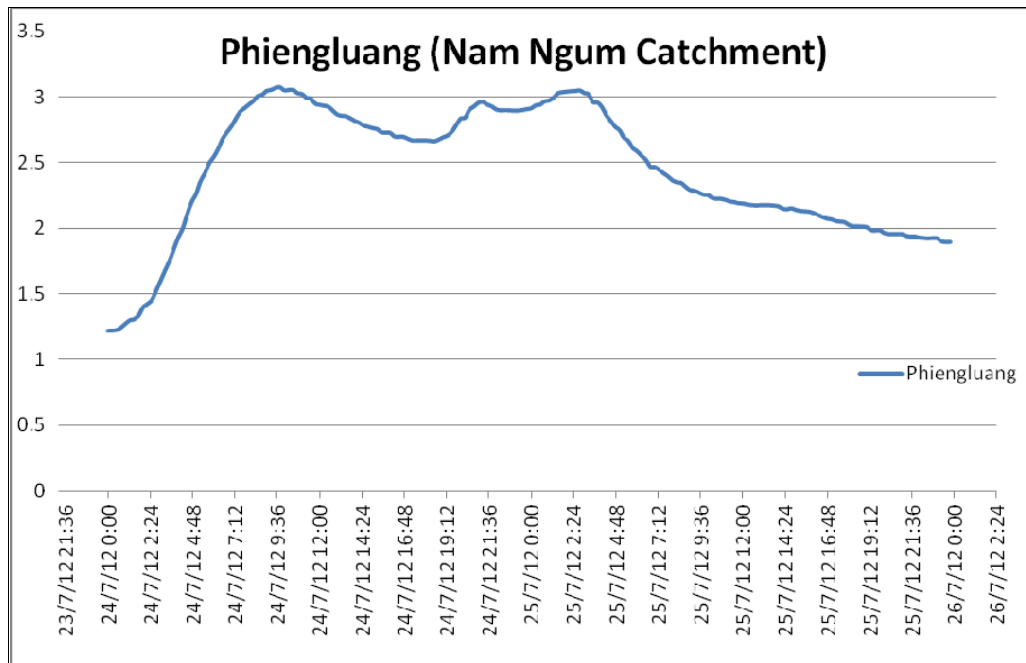
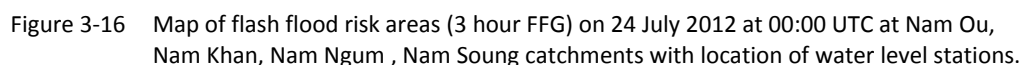


Figure 3-15 Hydrograph of Phiengluang station (Nam Ngum catchments) during the TD "Vicente".



During the period 28-30 July the ITCZ was present across the upper part of Thailand, the north of Lao PDR and Viet Nam. See Figure 3-17. The heavy rain occurred at the north, northeast of Thailand, Lao PDR and Viet Nam. MRCFFG system detected the flash flood risk areas at northern part of Viet Nam on 30 July 2012, See Figure 3-18. The information on flash flood risk areas on 30 July 2012 at 00:00 UTC was confirmed by the information published in the Viet Nam newspaper “Thanh Nien”, published on 01 August 2012. The flash flood risk areas detected by the MRCFFGS corresponded with the reported flash flood areas. Annex 1 provides the information collected from the “Thanh Nien”.



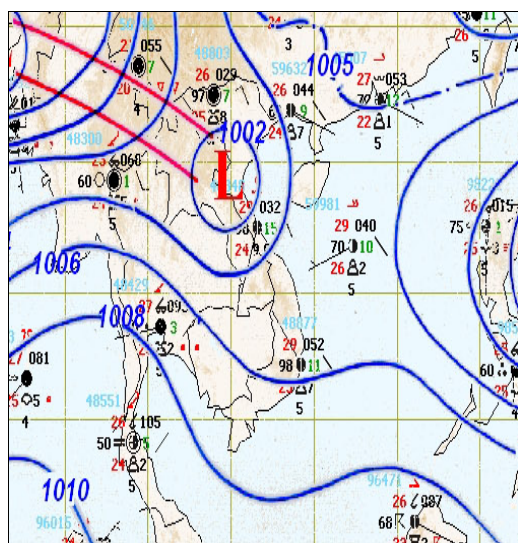


Figure 3-17 Weather chart issued at 18:00 UTC on 28 July 2012.

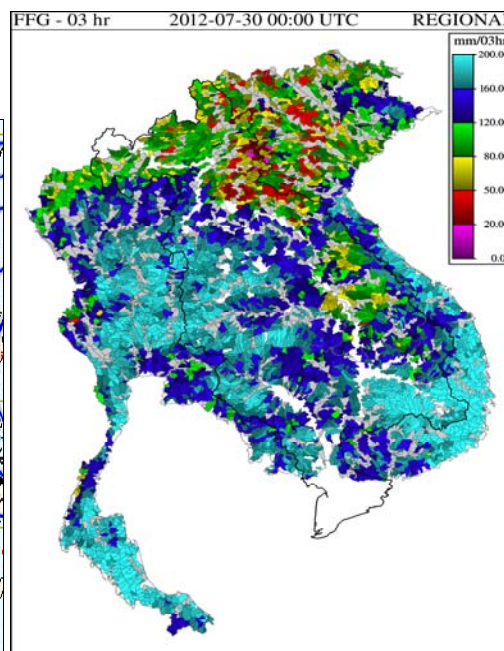


Figure 3-18 3 Hourly FFG on 30 July 2012 at 00:00 UTC.

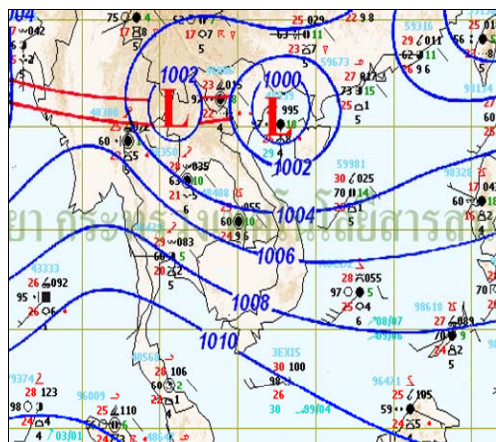
### 3.5 Flash flood at northern Lao PDR (08 August 2012) and at northern Thailand (11-12 August) caused by ITCZ

The Inter Tropical Convergence Zone (ITCZ) covered the northern part of Lao PDR down to the northern part of Cambodia from the 6-10 August 2012. See Figure 3-19 and Figure 3-20. This led to increased amounts of rainfall in some Mekong sub catchment located in the upper part of Lao PDR.

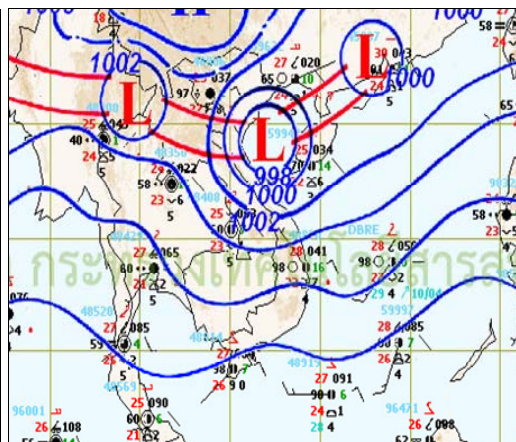
From the end of first week of August to the mid August 2012 the MRCFFG system detected several flash flood risk areas in the upper Mekong Basin. For example on 08 August 2012 at 00:00 UTC (7:00 AM local time) the MRCFFG detected flash flood risk areas at some villages in Luang Prabang Province in the northern part of Lao PDR. The Figure 3-21 and Figure 3-22 present the flash flood risk areas (in red color) of the 1 hour FFG and 3 hour FFG on 08 August 2012 at 00:00 UTC. This information on flash flood risk areas was confirmed by the “Vientiane Times” published on 10 August. It was also confirmed by the “Bangkok Post” published on 15 August 2012. Annex 1 provides the information collected from the “Vientiane Times” and the “Bangkok Post”.

The information on flash flood risk areas on 08 August 2012 at 00:00 UTC was confirmed by the rapidly changing water levels at stations located in the Nam Ou, Nam Khan sub-catchments. The hydrographs of those stations during the ITCZ are presented in Figure 3-23, Figure 3-24 and Figure 3-25 presents the map which shows the flash flood risk areas and locations of the water level monitoring stations at the downstream part of flash flood risk areas, where rapidly changing flood levels were recorded.





Source: Thai Meteorological Department.



Source: Thai Meteorological Department.

Figure 3-19 Weather Chart issued at 18:00 UTC on 06 August 2012.

Figure 3-20 Weather Chart issued at 18:00 UTC on 08 August 2012.

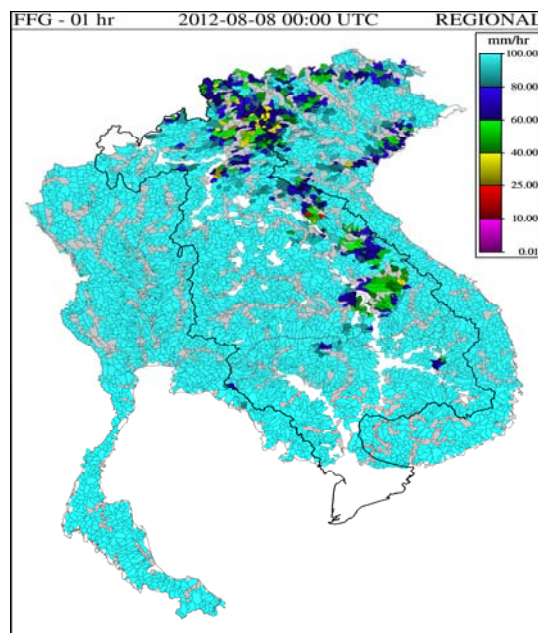


Figure 3-21 1 hour FFG on 08 August 2012 at 00:00 UTC.

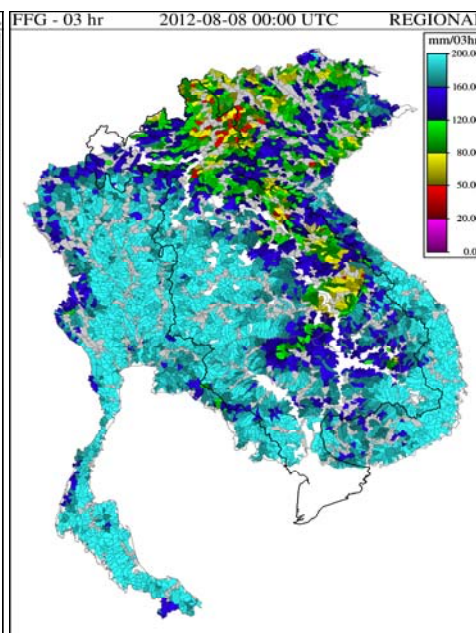


Figure 3-22 3 hour FFG on 08 August 2012 at 00:00 UTC.

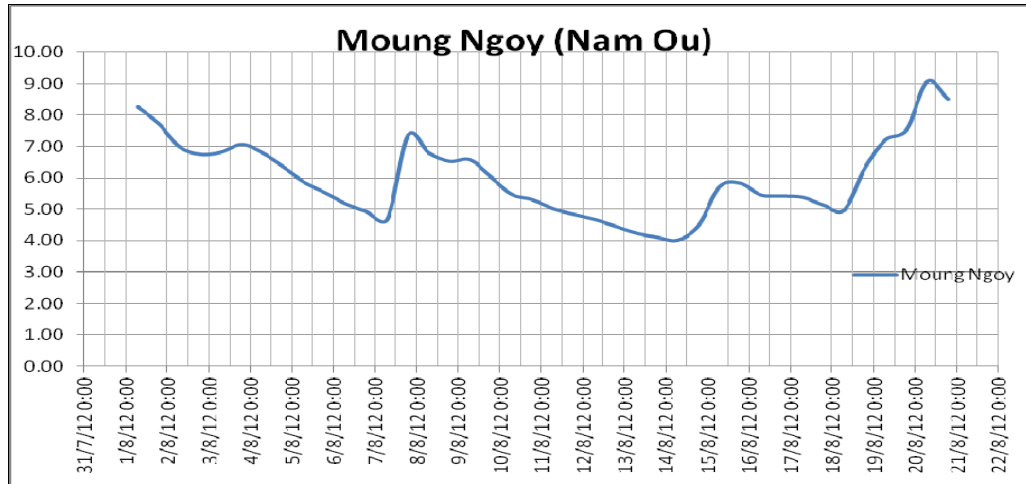


Figure 3-23 Hydrograph of MOUNG NGOY station (Nam Ou catchment) during flash flood on 07-08 August 2012.

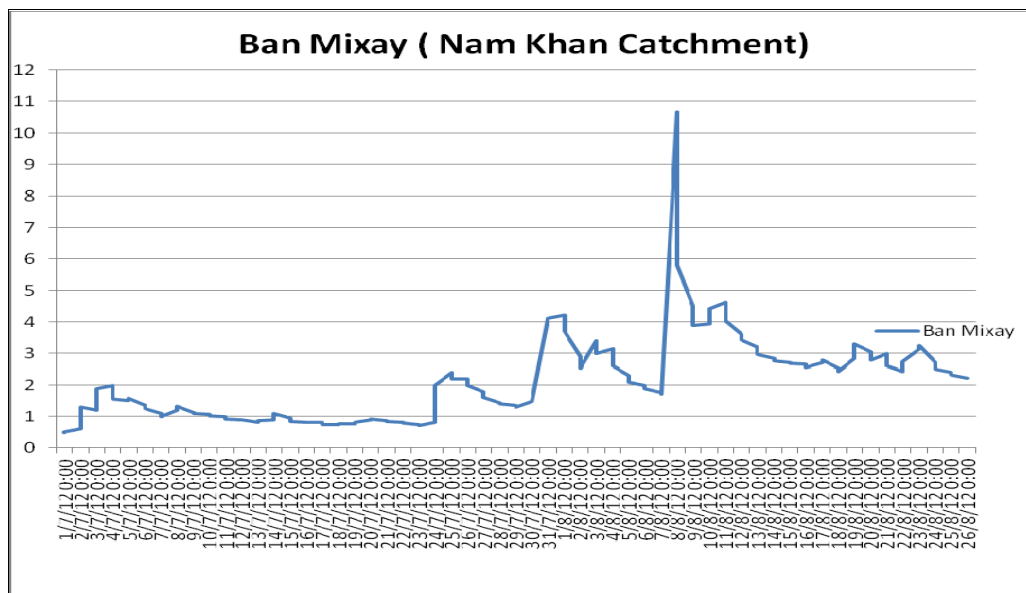


Figure 3-24 Hydrograph of BAN MIXAY station (Nam Khan catchments) during the flash flood 07-08 August 2012.

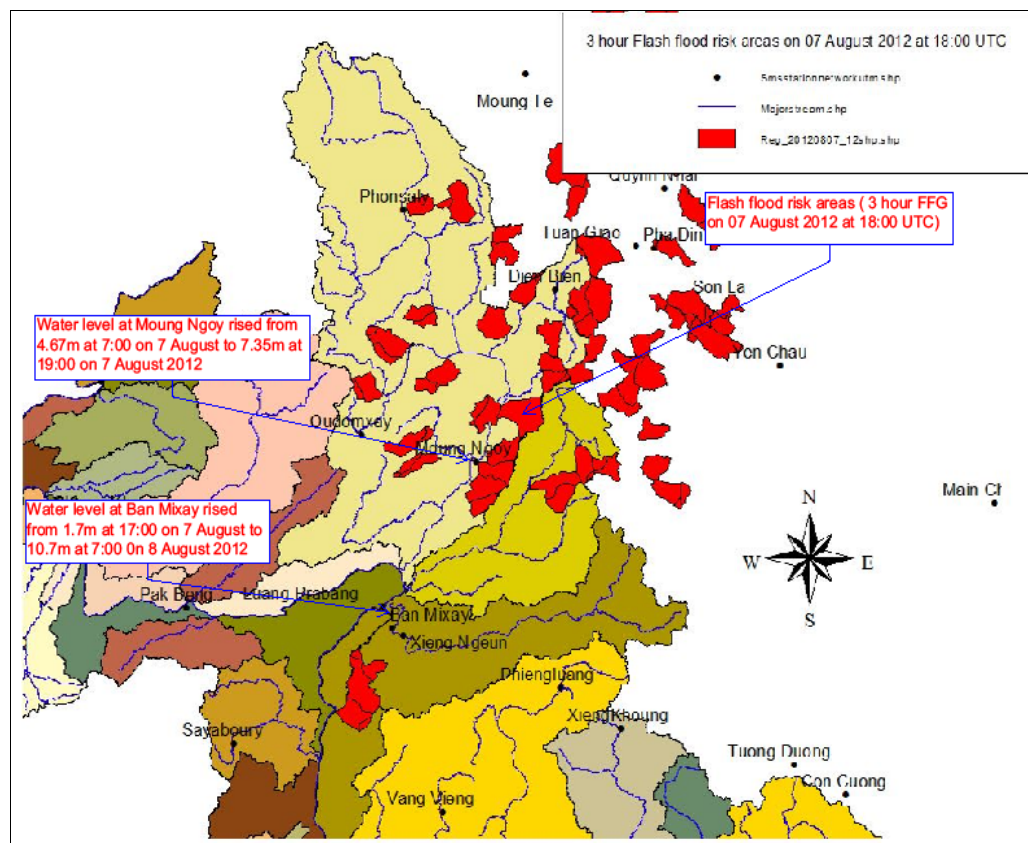


Figure 3-25 Map of flash flood risk areas (3 hour FFG) on 07 August 2012 at 18:00 UTC at Nam Ou, Nam Khan, catchments with location of water level stations.

### 3.6 Flash flood at Northern Viet Nam (17-18 August 2012), and Lao PDR (20 August 2012) caused by TS “Kai-Tak”

On 17 August 2012 at 01.00 am Local Cambodia Time (LCT), latitude from  $0^{\circ}\text{N}$  to  $28^{\circ}\text{N}$  and the longitude from  $90^{\circ}\text{E}$  to  $125^{\circ}\text{E}$ , Typhoon (TY) “Kai-Tak” was over upper South China Sea, about 170 kilometers Northeast of Hainan, China, or latitude  $20.5^{\circ}\text{N}$  and longitude  $112.3^{\circ}\text{E}$ , with maximum sustained winds about 120 km/h. “Kai-Tak” was moving west-northwestward at a speed of 25 km/h. See Figure 3-26.

During 18-19 August the Tropical Storm (TS) “Kai-Tak” was downgraded to Tropical Depression (TD) over the Northeast of Myanmar at latitude  $22.550\text{N}$  and longitude  $100.400\text{E}$ . Heavy and very heavy rain and very strong gust was expected in the North and the Northeast of Thailand, Lao PDR and Viet Nam. Figure 3-27 shows the infrared Image MTSAT during the TS “Kai-Tak”.

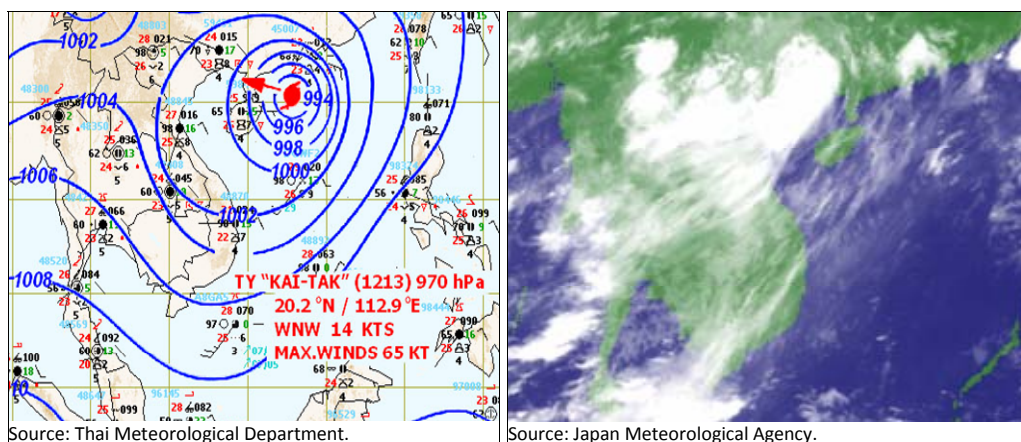


Figure 3-26 Weather Chart issued at 18:00 UTC on 16 August 2012.

Figure 3-27 Infrared Image, MTSAT IR, 18 August at 00.00 UTC.

On 17 August 2012 at 00:00 UTC (7:00 AM local time) the MRCFFG system detected a number of flash flood risk areas in the northern provinces of Viet Nam, such as Son La, Ha Giang and Lao Cai. The flash flood risk areas were also detected on 20 August 2012 at 00:00 UTC by MRCFFG system at some areas in the northern provinces of Lao PDR, such as at Phonsaly, Luangnamtha, Oudomxay, Bokea, Luangprabang (these provinces are part of the Nam Ou catchment). Figure 3-28 and Figure 3-29 present 3 hourly FFG on 17 august 2012 at 00:00 UTC and on 20 August 2012 at 00:00 UTC respectively. Flash floods were confirmed by the “Viet Nam News”, dated 20 August 2012, and “Vientiane Times”, dated 23 August 2012. An article from both newspapers is presented in Annex 1.

The occurrence of flash floods at the Nam Ou catchment can also be validated through recordings of rapidly changing water levels at Moung Ngoy hydrological station. A water level was recorded of 7.22m m at 07:00 AM on 19 August 2012. The water level rose to 9.08m at 07.00 AM on 20 August 2012. Figure 3-30 presents the hydrograph of Moung Ngoy hydrological station, and Figure 3-31 shows the map of the 3 hourly flash flood risk areas at Nam Ou catchment, and the location of the Moung Ngoy water level station.



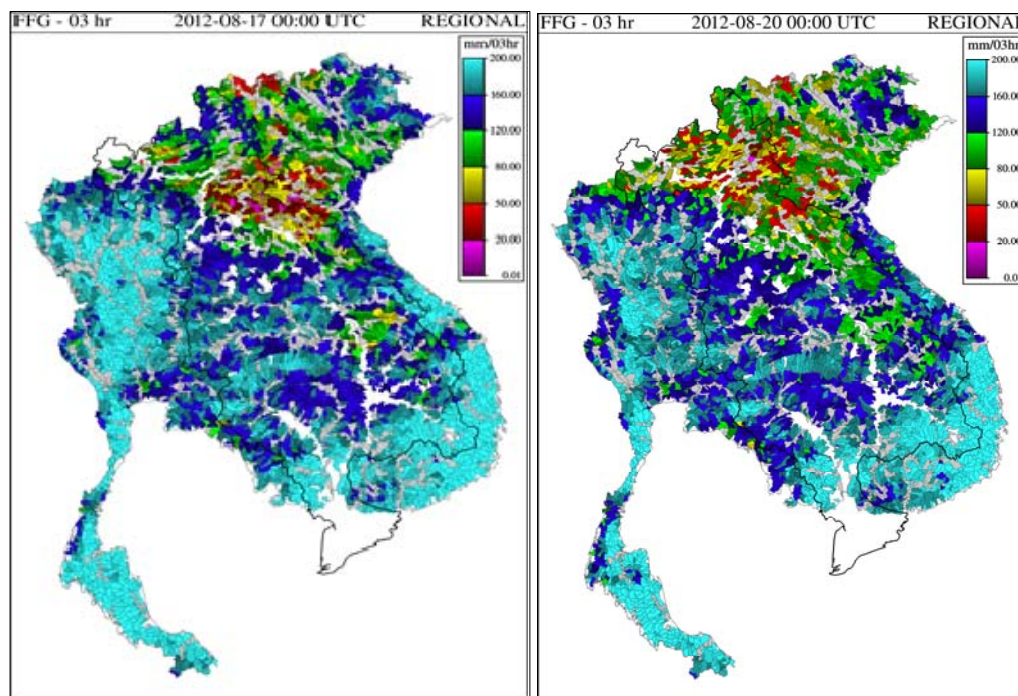


Figure 3-28 3 hour FFG on 17 August 2012 at 00:00 UTC.

Figure 3-29 3 hour FFG on 20 August 2012 at 00:00 UTC.

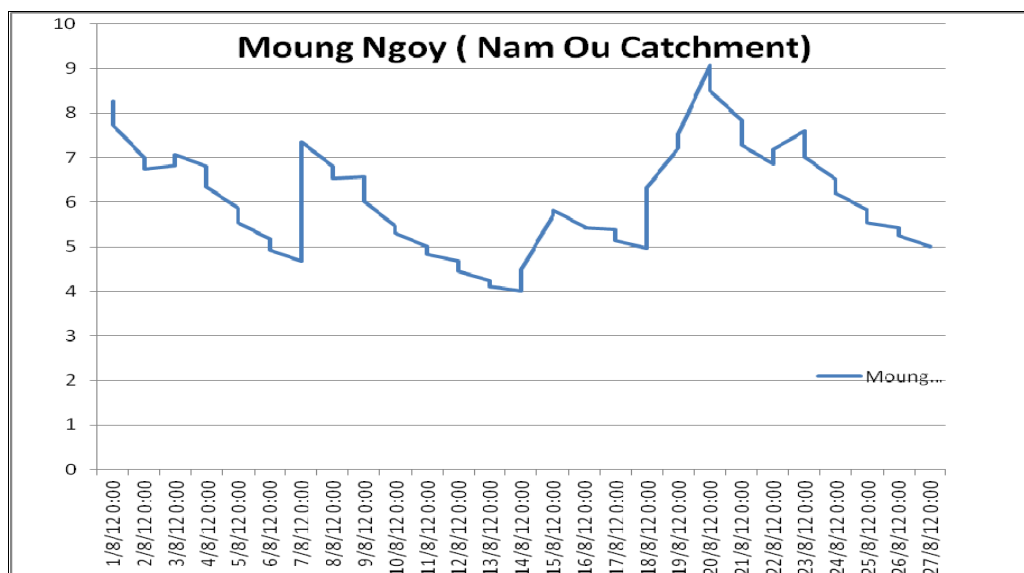


Figure 3-30 Hydrograph of MOUNG NGUY station (Nam Ou catchment) during flash flood on 20 August 2012.

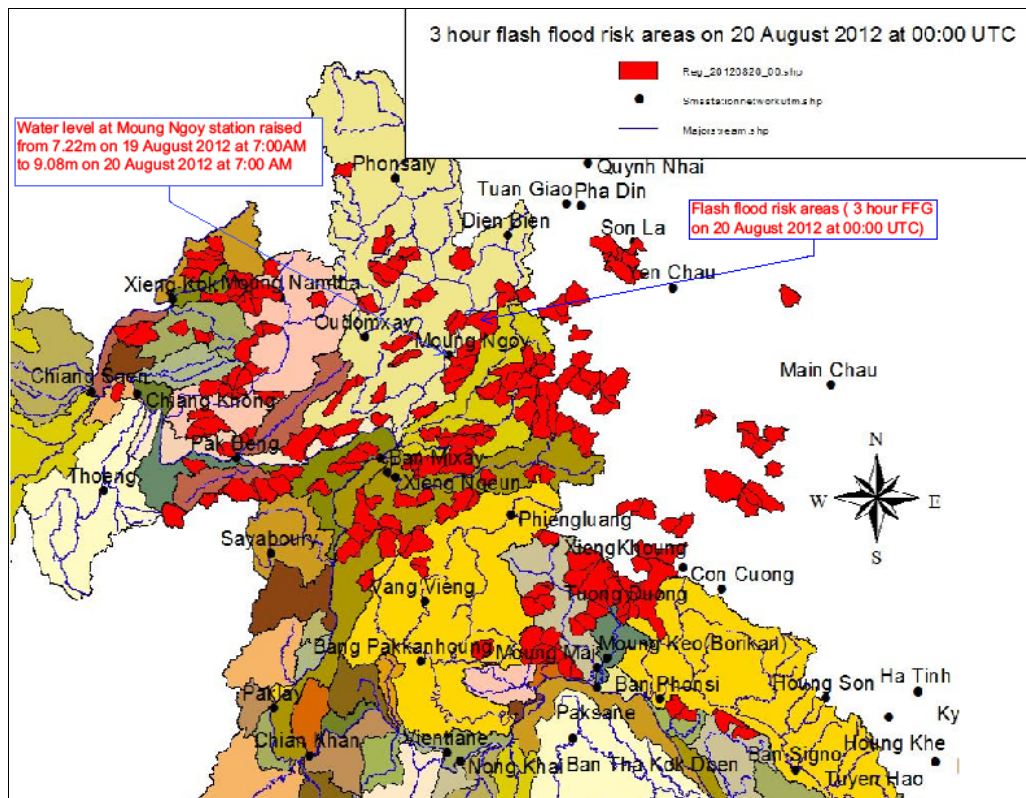


Figure 3-31 Map of flash flood risk areas (3 hour FFG) on 20 August 2012 at 00:00 UTC at Nam Ou catchment with location of water level stations.

### 3.7 Flash flood at Northern Viet Nam (31 August 2012)

During 30-31 August 2012 the northern part of Viet Nam, Thailand and Lao PDR was covered by Low Pressure, which generated a heavy rain. Figure 3-32 presents the weather chart during 30-31 August 2012. The flash flood risk areas were detected on 31 August 2012 at 00:00 UTC by MRCFFG system at some areas in the northern provinces of Viet Nam, such as at Lao Cai and Lai Chau. Figure 3-33 presents the 3 hourly FFG on 31 August 2012 at 00:00 UTC.

The flash flood was also confirmed by the “Viet Nam News”, dated 31 August 2012. An article from this newspaper is presented in Annex 1.

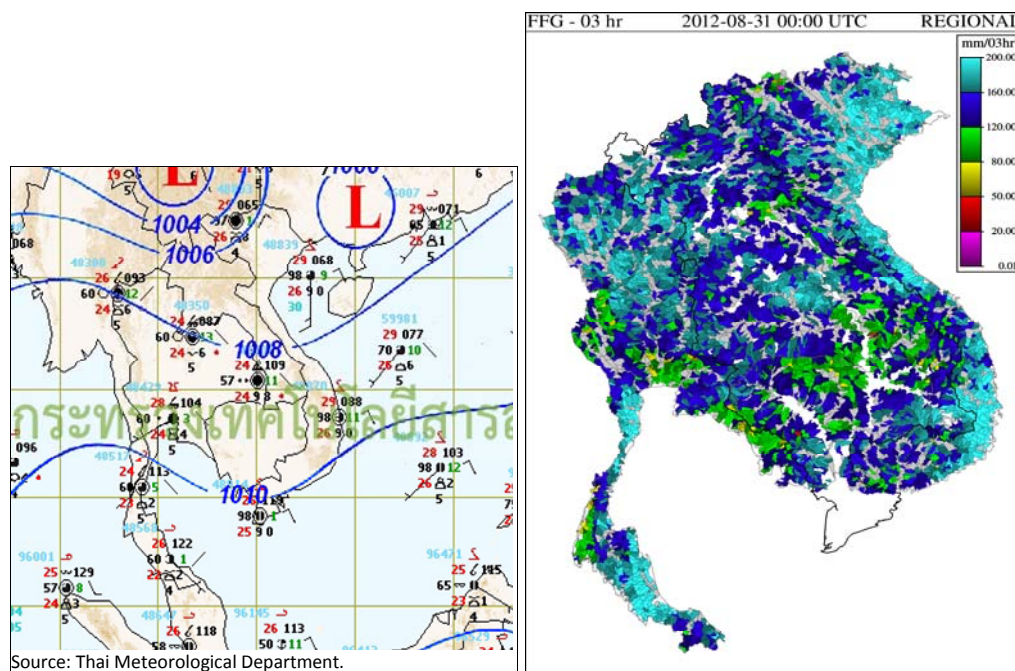


Figure 3-32 Weather Chart issued at 18:00 UTC on 29 August 2012.

Figure 3-33 3 hour FFG on 31 August 2012 at 00:00 UTC.

### 3.8 Flash flood at Northern Viet Nam caused by ITCZ (04 September 2012)

During the first week of September the Lower Mekong Region was covered by the severe weather condition caused by the Inter Tropical Convergence Zone (ITCZ), which was moved from the northern part of Lao and Viet Nam to the central part of Viet Nam. Figure 3-34 and Figure 3-35 present the weather chart of lower Mekong Region on 01 September 2012 and on 04 September 2012. During that period heavy rainfall occurred over several areas of Lao PDR, Viet Nam, Cambodia and Thailand.

Flash flood risk areas were detected on 03 September 2012 at 00:00 UTC by MRCFFG system in the northern provinces of Viet Nam, such as at Lao Cai, Lai Chau and Nghe An. Figure 3-36 presents the 3 hourly FFG on 31 August 2012 at 00:00 UTC.

This flash flood was also confirmed by the “Viet Nam News”, dated 05 September 2012. An article from this newspaper is presented in Annex 1.



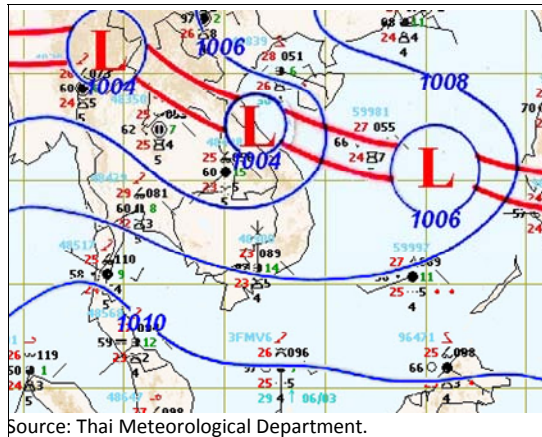


Figure 3-34 Weather Chart issued at 18:00 UTC on 01 September 2012.

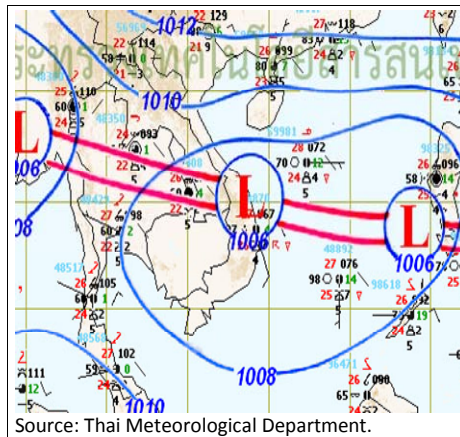


Figure 3-35 Weather Chart issued at 18:00 UTC on 04 September 2012.

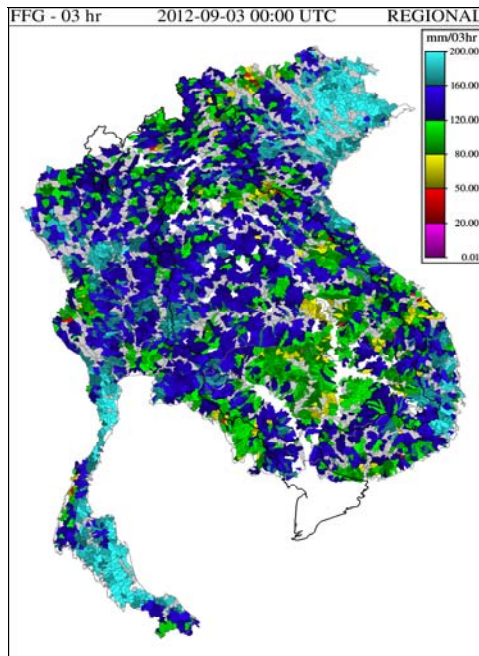


Figure 3-36 3 hour FFG on 03 September 2012 at 00:00 UTC.



Source: People's Army newspaper online, issued at 05 September 2012

Picture 3-1 Search, rescue, cleaning activity at Lao Cai Province after the flash flood occurred.

### 3.9 Flash flood at Southern of Thailand (06 September 2012)

During 06-07 September 2012 the Inter Tropical Convergence Zone (ITCZ) was located across Myanmar, the middle and south of Thailand, the south of Lao PDR, the upper South of Viet Nam and the North of Cambodia. Heavy rain and very heavy rain occurred in Myanmar, Thailand, Lao PDR, Cambodia and Viet Nam, particularly in the Central and the South of Thailand, the Central of Lao PDR and Viet Nam, the North, the Northeast and the Southwest of Cambodia during this period. Figure 3-37 shows the weather chart during



the ITCZ on 06-07 September 2012. The MRCFFG system, the 3 hourly FFG on 06 September 2012 at 18:00 UTC, detected a number of flash flood risk areas at some district in southern provinces of Thailand. These are presented in Figure 3-38.

The flash flood risk areas, which were detected by 3 hourly FFG on 06 September 2012 at 18:00 UTC, were also confirmed by Thai newspaper “The Nation”, dated on 07 and 10 September 2012. The information from above mentioned newspaper provided in Annex 1 of the present report.

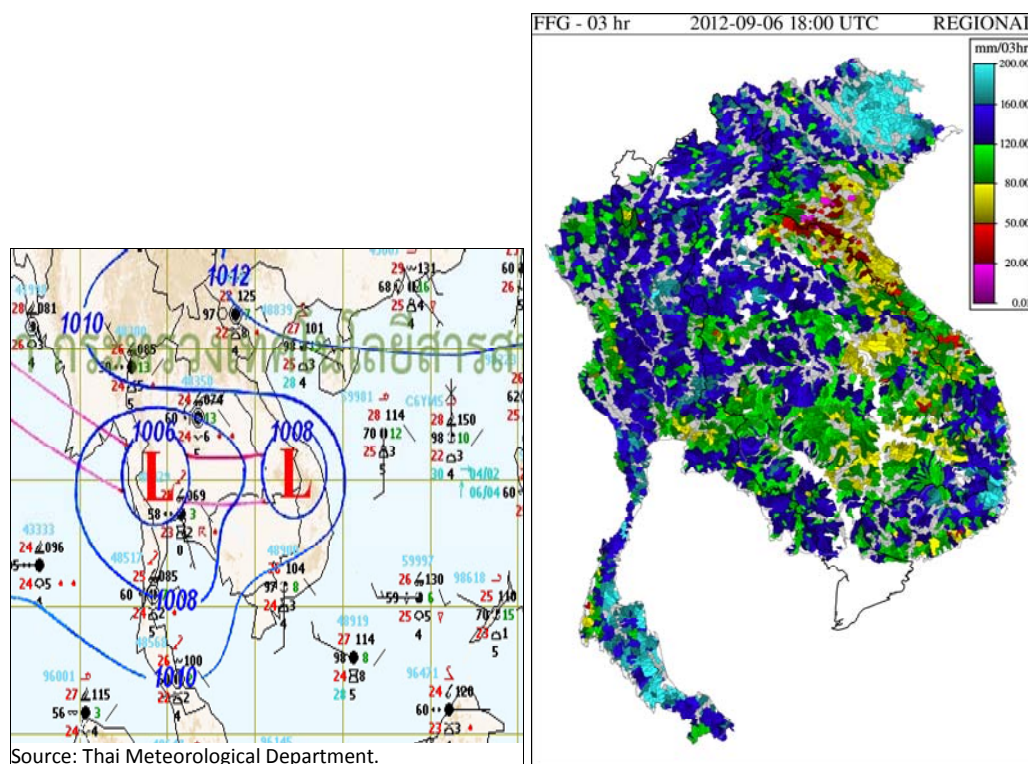


Figure 3-37 Weather Chart issued at 18:00 UTC on 06 September 2012. Figure 3-38 3 hour FFG on 06 September 2012 at 18:00 UTC.

### 3.10 Flash flood at Central Viet Nam (06 September 2012)

In the period 4-6 September 2012 the central region of Viet Nam was covered by low pressure, which generated a heavy rainfall for many provinces of central Viet Nam. Figure 3-39 presents the weather chart, issued on 05 September 2012 at 18:00 UTC. On 05 September 2012 at 00:00 UTC the MRCFFG system detected high risk areas to flash flood occurrence at many districts of provinces on central Viet Nam, such as at Nge An, Ha Tinh, Quang Binh and Quang Tri. Figure 3-40 presents the 3 hourly FFG on 05 September 2012 at 00:00 UTC.

This flash flood was also confirmed by the “Viet Nam News”, dated 07 September 2012. An article from this newspaper is presented in Annex 1.

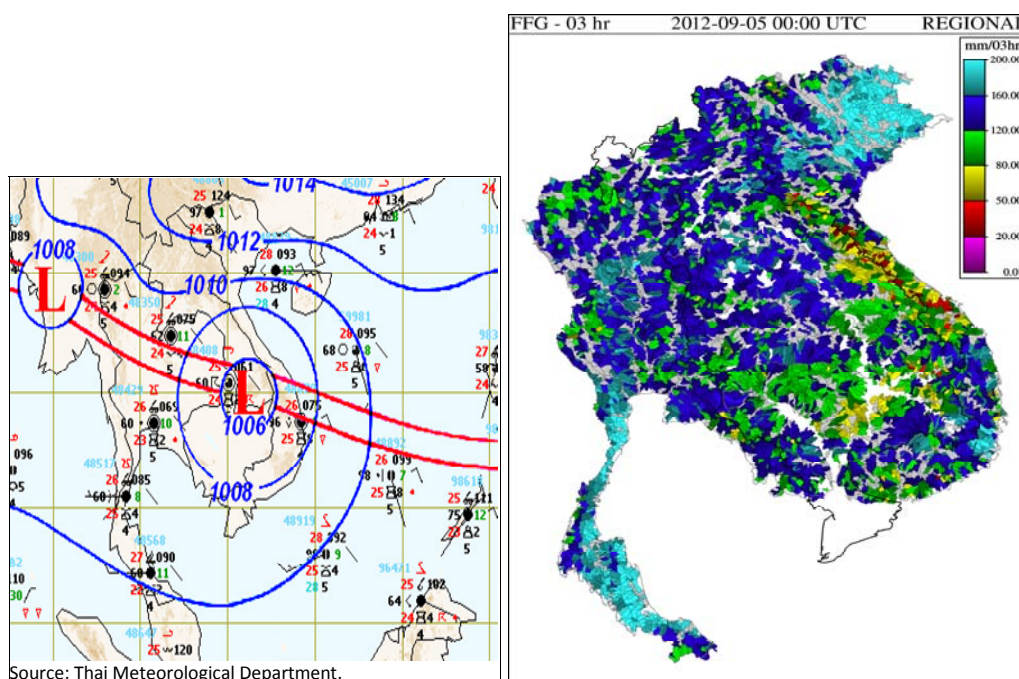


Figure 3-39 Weather Chart issued at 18:00 UTC on 05 September 2012.

Figure 3-40 3 hour FFG on 05 September 2012 at 00:00 UTC.

### 3.11 Flash flood at Central Viet Nam (07 September 2012)

The “Viet Nam News”, dated 9-10 September 2012, informed that some districts at Nghe An and Ha Tinh province of central region of Viet Nam has been faced with flash flood on 07 September 2012, caused by heavy rainfall since the beginning of September. On the previous day, 06 September 2012 at 00:00 UTC, flash floods occurred at those province. The 3 hourly MRCFFG system on 06 September 2012 at 00: 00 UTC detected a high risk at some districts of those two provinces. Figure 3-41 presents the 3 hourly FFG on 06 September 2012 at 00:00 UTC.

The information on flash flood, which occurred at Nghe An and Ha Tinh provinces on 07 September 2012, were reported in the “Viet Nam News”. See Annex 1.

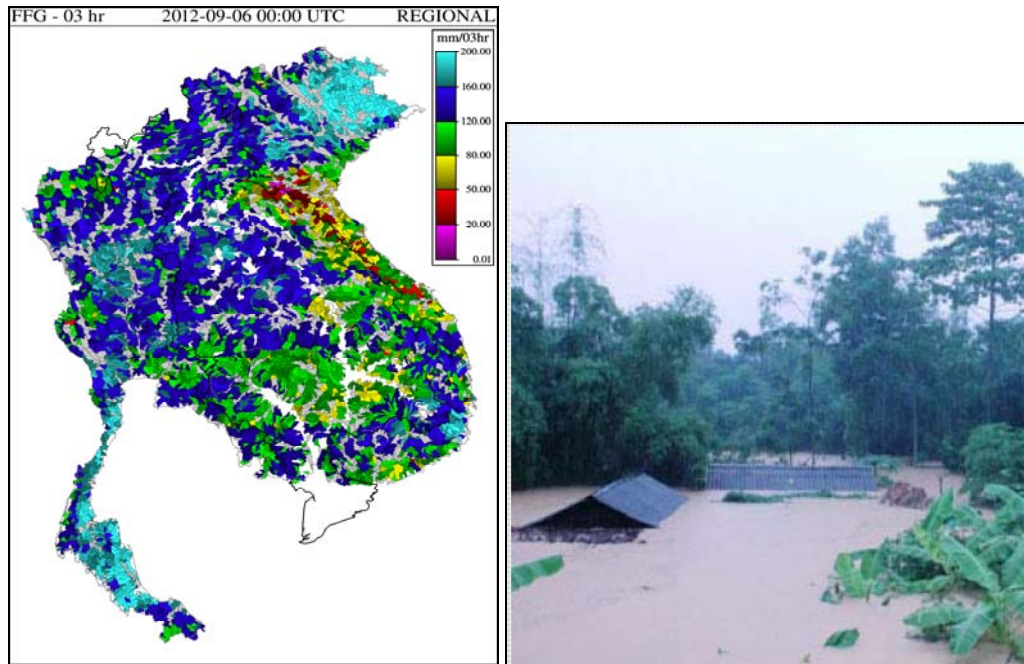


Figure 3-41 3 hour FFG on 06 September 2012 at 00:00 UTC.

Picture 3-2 Flash flood at central region of Viet Nam on 07 September 2012.

### 3.12 Flash flood at Banteay Meanchey Province (18 – 19 September 2012)

During the period from 16-18 September 2012 the Inter Tropical Convergence Zone (ITCZ) was located over Myanmar, the middle of Thailand, the northwest to Northeast of Cambodia, and the South of Viet Nam. The moderate Southwest Monsoon prevailed over the Andaman Sea and the Gulf of Thailand. Heavy and very heavy rain occurred over Myanmar, the East and the central part of Thailand, the South of Viet Nam, the northwest to northeast, the central, the south and the southwest of Cambodia during this period. Figure 3-42 present the Weather chart of LMB issued on 16 September 2012 at 18:00 UTC. Figure 3-43 shows 24 accumulated mean aerial precipitation over the LMB on 16 September 2012. According to a Cambodian newspaper a spokesperson of Banteay Meanchey Provincial Hall, Mr. Keo Ratanak, had reported that in the afternoon of 18 September 2012 people living at Poipet District and also people living of six other villages of Ou Chrov District had been evacuated, as a result of unexpected flash floods. The information on flash flood at Banteay Meanchey from the newspaper is provided in the Annex 2 of this report.

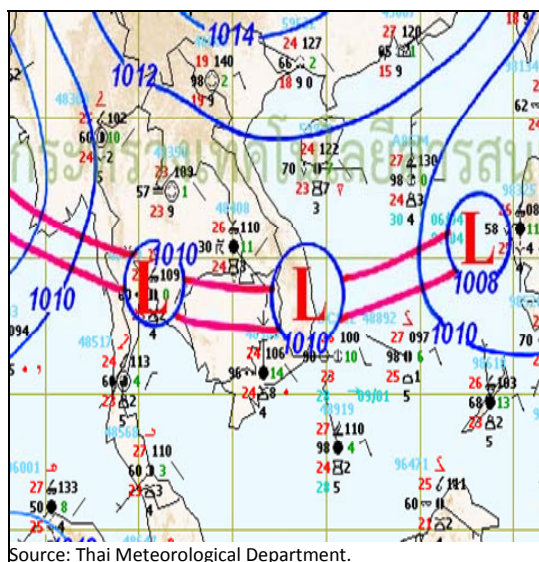


Figure 3-42 Weather Chart issued at 18:00 UTC on 16 September 2012.

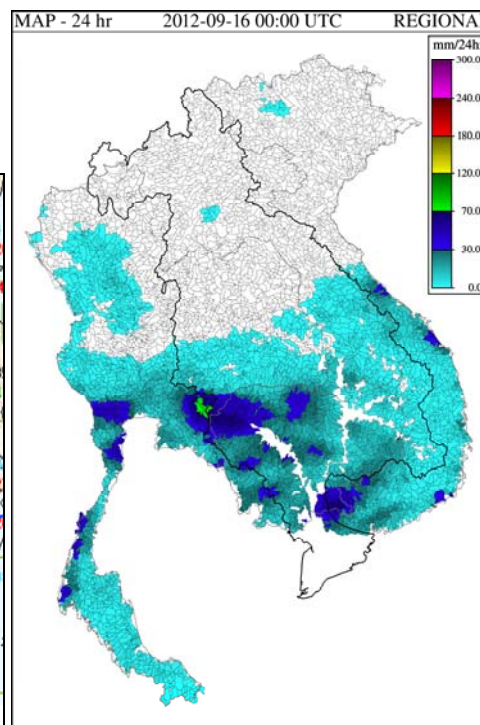


Figure 3-43 24 hour accumulated aerial precipitation on 16 September 2012 at 00:00 UTC.

Unfortunately during the period from 16 September to 18 September 2012 at 12:00 UTC, the MRCFFG system detected “flash flood risk areas warning level 2” for some areas in Poipet and Ou Chrov District of Banteay Meanchey Province in Cambodia, and also at various areas in Arranpathet Province of Thailand. Figure 3-44 and Figure 3-45 present the 3 hourly FFG at 16 September 2012 at 00:00 UTC and at 18 September 2012 at 12:00 UTC respectively. The flash flood events, which occurred in Poipet of Banteay Meanchey Province, show that the MRCFFG system provided insufficient accurate information to detect flash floods in these areas and under these circumstances. The system provided a flash flood risk areas warning at “level 2” for those areas (which normally is insufficient indication and too early to conclude that there is a high risk of flash flood occurrences), while in reality the flash floods had already happened at that warning level. More investigation on this event needs to be done during the upcoming dry season.



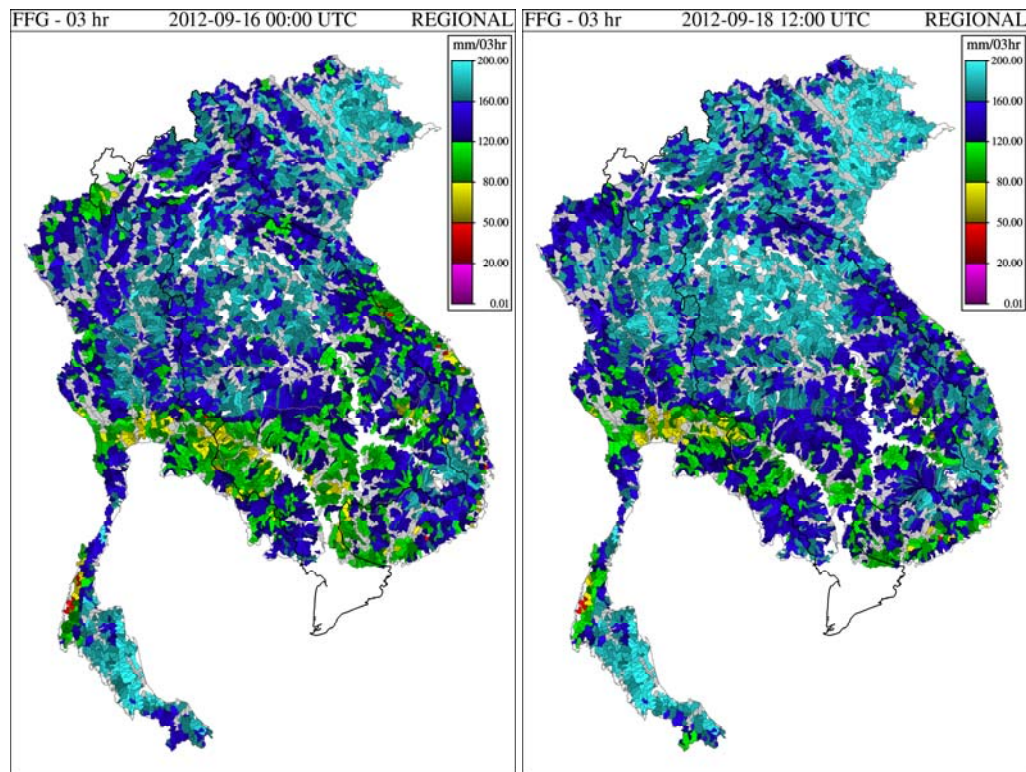


Figure 3-44 3 hour FFG on 16 September 2012 at 00:00 UTC.

Figure 3-45 3 hour FFG on 18 September 2012 at 12:00 UTC.

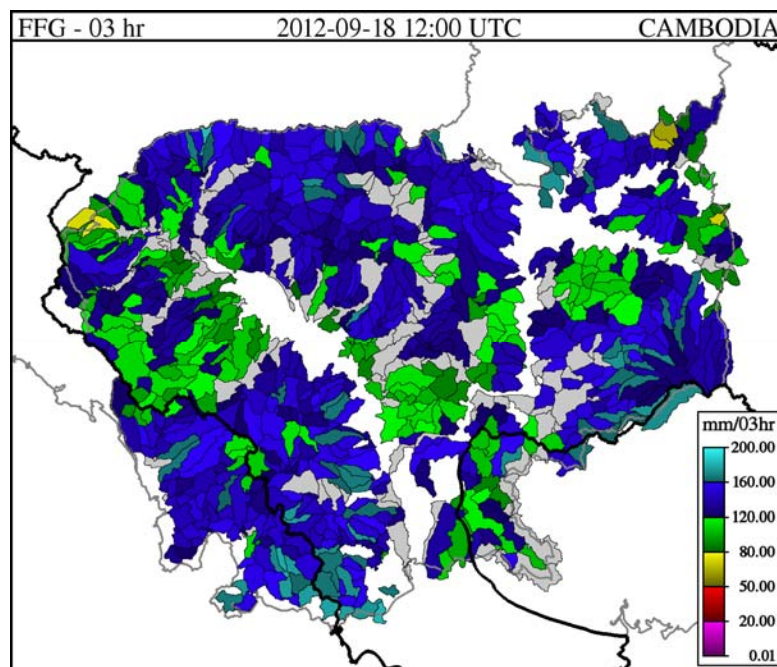


Figure 3-46 3 hour FFG on 18 September 2012 at 12:00 UTC shows that “flash flood risk area warning level 2” at Poipet District of Banteay Meanchey Province in Cambodia and surrounding areas near the Cambodia-Thailand border (yellow color scale).

### 3.13 Flash floods in Lao Cai Province of Viet Nam (26 September 2012)

During 23-26 September 2012 the Inter Tropical Convergence Zone (ITCZ) was positioned across Myanmar, the middle of Thailand, Cambodia and the South of Viet Nam, while the Southwest Monsoon prevailed over the Andaman Sea and the Gulf of Thailand. Moderate thundershowers with isolated heavy rain and very heavy rain occurred in various areas of Myanmar, the East, the West and the South of Thailand, the north and South of Viet Nam, the Northwest the Central, the South and the Southwest of Cambodia during this period. Figure 3-47 presents the weather chart with the ITCZ cover the Lower Mekong Basin. Figure 3-48 presents the infrared Image of MTSAT IR at 23 September 2012 at 23:30 UTC, which shows that northern part of Viet Nam was covered by the rainfall clouds.

The MRCFFG system with 3 hourly FFG on 24 September 2012 at 00:00 UTC detected a number of high risk areas to flash flood occurrence at some districts of Lao Cai Province. See Figure 3-49. This high risk area was confirmed by the “Vietnamnet” online newspaper, which informed that at 4 am on 26 September 2012 flash floods occurred in some districts of Lao Cai Province. This information is also provided in the Annex 1 of this report.

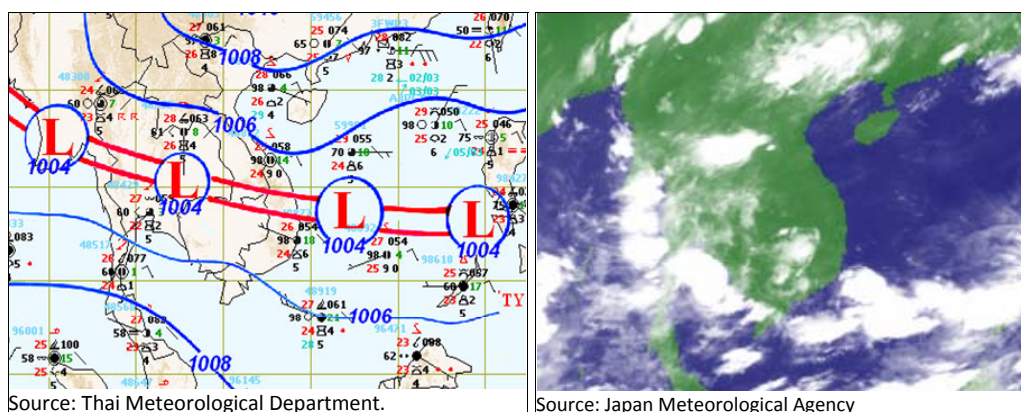


Figure 3-47 Weather Chart issued at 18:00 UTC on 24 September 2012.

Figure 3-48 Infrared Image, MTSAT IR, 23 September at 23.30 UTC.

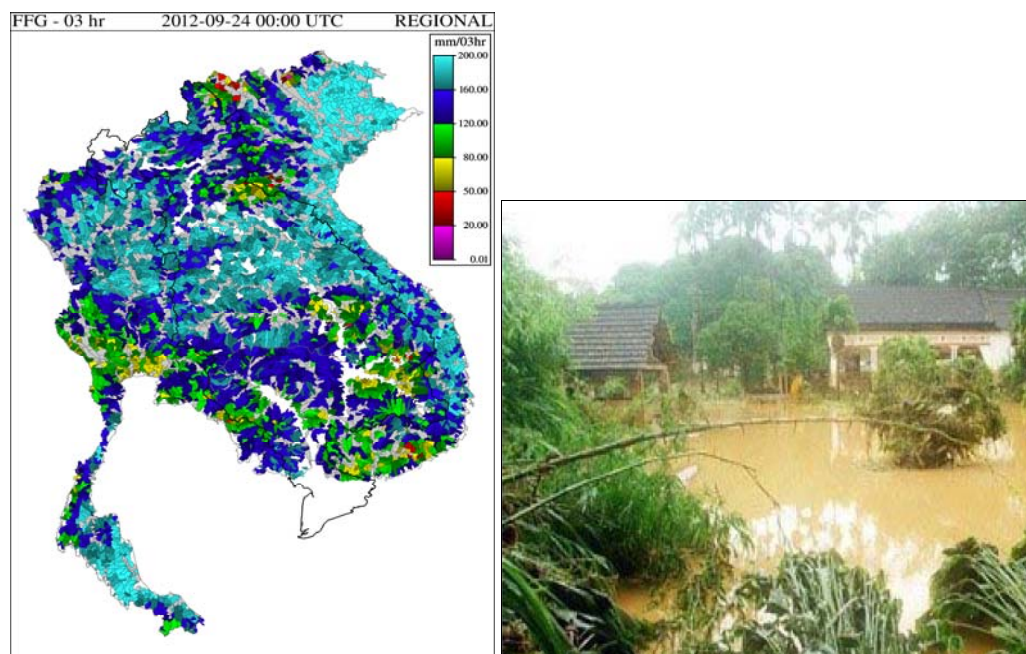


Figure 3-49 3 hour FFG On 24 September 2012 at 00:00 UTC.

Picture 3-3 Flash flood at Lao Cai Province of Viet Nam on 26 September 2011.

### 3.14 Flash floods in Viet Nam caused by Typhoon “Gaemi”

During 06-08 October Tropical Storm (TS) “GAEMI”, which had been downgraded as a Tropical Depression (TD) after it made landfall on 06 October, arrived in the late evening of 06 October over Central of Viet Nam, then continued across the North of Cambodia on early morning of 07 October. Torrential rains with heavy to very heavy rainfall, and windy and strong gust wind occurred over various areas, like the East and the Northeast of Thailand, the South of Lao PDR, the East, the North, the Northeast and the Northwest of Cambodia, the Central of Viet Nam during 06-08 October 2012 (see Figure 3-50). Figure 3-51 presents the infrared image of MTSAT IR issued on 05 October 2012 at 23:00 UTC.

The MRCFFG system with 3 hourly FFG on 06 October 2012 at 06:00 UTC detected flash flood risk areas at some areas in central Viet Nam and the Central Highlands of Viet Nam (see Figure 3-52). These flash flood areas were confirmed by the “Viet Nam News”, dated 08 October 2012, which informed that a number of districts of provinces, located in the Central Highlands and the central part of Viet Nam, such as at Tuy Hao City of Phu Yen Province and at Dan Nan of Dak Lak Province, had been hit by flash flood. The above mentioned newspaper is also included in Annex 1.



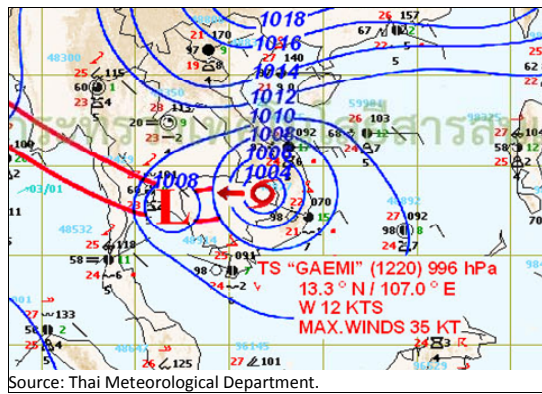


Figure 3-50 Weather Chart issued at 18:00 UTC on 06 October 2012.

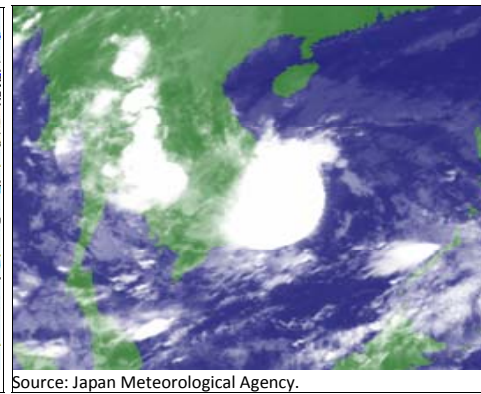


Figure 3-51 Infrared Image, MTSAT IR, on 05 October at 23:00 UTC.

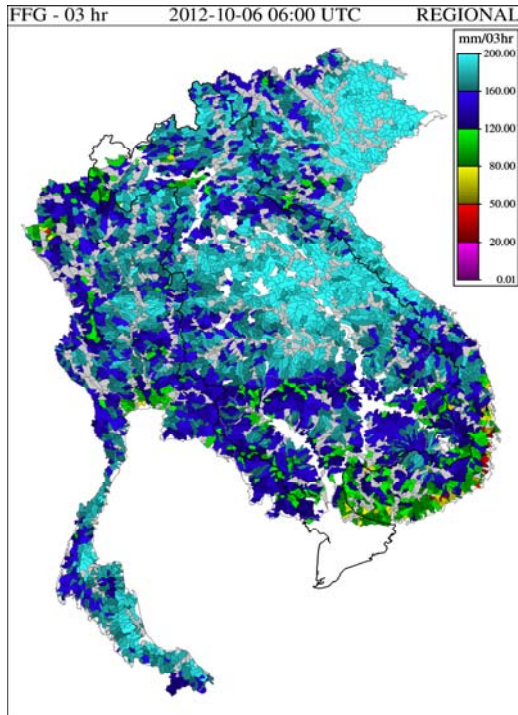


Figure 3-52 3 hour FFG on 06 October 2012 at 06:00 UTC.



Picture 3-4 Flash flood at central Viet Nam during Typhoon "Gaemi."



## 4. CONCLUSIONS AND RECOMMENDATIONS

The current report is the third evaluation report of the MRC Flash Flood Guidance (MRCFFG) system after 3 years of operation. Although this evaluation report does not cover all of the flash floods that occurred in the 2012 flood season (from 01 May to 31 October 2012), it is based on the available flash flood information that was collected from newspapers of the four riparian countries.

The alternative evaluation method is to compare the flash flood risk areas detected by the MRCFFG with changing water levels downstream of these areas, which have been used in this report. However these do not fully reflect the flash flood characteristics, because the available water levels and rainfall data in the operational database of the RFMMC are recorded once daily, while the flash floods mostly occur within a 6 hourly period.

Notwithstanding this, it can be concluded that the MRCFFG system during the severe weather conditions in region, such as tropical storms, tropical depressions or ITCZ, detected almost all flash flood risk areas in the Mekong region. There were only a few flash flood events that could not be detected by the system. Based on the experiences hitherto a number of recommendations are presented below, which are considered useful for further fine-tuning of the MRCFFG products during the 2013 flood season implementation:

1. Improvement of the Mean Aerial Precipitation (MAP) product by updating the bias correction factor for satellite rainfall (hydroestimator) processing.
2. After updating the bias correction factor for satellite rainfall processing, the RFMMC FFG operator should rerun the FFG system and check the results with the available flash flood information.
3. To carry out an in-depth investigation of the flash flood event at Bantey Meanchey Province in order to fully understand why the MRCFFG system did not sufficiently detect the flash flood conditions in those areas on 18-19 September 2012 (the system did however detect “flash flood risk areas warning level 2”).
4. Updating the GIS (provincial administration database). The current GIS information (provincial administrative database, villages, districts and provincial name) is collected from national line agencies in 2003. It may be concluded that this information does not reflect the real condition, as some countries in the region recently revised provincial boundaries.
5. Strengthening the connection between the RFMMC and the National FFG operations for the region in order to receive additional information on areas where flash floods occurred. Such information will improve this present FFG evaluation report.
6. Conducting Refreshment Training Courses of FFG system operation in combination with the Annual Flash Flood Gathering with the purpose to improve the knowledge on FFG operation, to introduce the new tool for FFG operation, and to exchange the experiences between National Center’s and RFMMC operators.
7. The RFMMC MRCFFG operator should develop, in close cooperation with the GIS expert of IKMP, an additional tool for the identification of Mekong sub-catchments, where flash floods occurred, as well as the location of hydrological stations in those

- sub-catchments, where rising water levels may have been recorded. If possible this tool should be connected “real time” with the FFG website.
8. Updating the MRCFFG information in the MRC webpage three times during daytime with 6 hourly intervals, at 07:00 AM, 01:00 PM and at 07:00 PM. During severe weather conditions such as tropical storms, tropical depressions, ITCZ etc. flash floods can occur at any time in any area of the LMB.

## ANNEXES

### Annex 1 Flash Flood in Lao PDR, Thailand and Viet Nam

#### Annex 1.1 Thanh Nien, Northern of Viet Nam Flash Flood, 21 May 2012



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#### Man killed, son missing in northern Vietnam flash flood

Last Updated: Thursday, May 24, 2012 02:40:00

A man died and his son is missing after they were swept away by a flash flood in Cao Bang Province in northern Vietnam Wednesday.

Dang Quay Sinh, 33, was found against a tree around 500 meters from his house while his nine-year-old son Dang Kiem Can was nowhere to be found.

The floodwaters from a nearby stream swept suddenly through a village in Nguyen Binh District at around 1:30 p.m., taking the two along with their house, which had been situated more than two meters higher above the stream.

Cao Bang authorities have given the family VND10 million (US\$500).

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By Cao Bac, Thanh Nien News

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Story from Thanh Nien News

Date of FFG products 21/05/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Ha Giang	Meo Vac	23.72	Ha Giang	TX. Ha Giang	46.16
Ha Giang	Yen Minh	23.72	Ha Giang	Dong Van	42.94
Ha Giang	Quan Ba	23.72	Ha Giang	Meo Vac	31.87
Ha Giang	Bac Me	23.72	Ha Giang	Yen Minh	37.23
Ha Giang	Vi Xuyen	23.72	Ha Giang	Quan Ba	39.26
Cao Bang	Bao Lac	23.72	Ha Giang	Bac Me	38.30
			Ha Giang	Vi Xuyen	39.47
			Ha Giang	Bac Quang	43.46
			Cao Bang	Bao Lac	34.37
			Tuyen Quang	Na Hang	44.81
			Tuyen Quang	Chiem Hoa	43.46

## Annex 1.2 The Nations, Ranong residents evacuated, Thailand, 6 – 8 June 2012

Thousands of Ranong residents evacuated - The Nation

<http://www.nationmultimedia.com/national/Thousands-of-Ranong-resident...>

August 20, 2012, 12:22 pm

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[Home \(http://www.nationmultimedia.com/\)](http://www.nationmultimedia.com/) » [national \(http://www.nationmultimedia.com/national/\)](http://www.nationmultimedia.com/national/) » Thousands of Ranong residents evacuated

## Thousands of Ranong residents evacuated

The Nation June 7, 2012 1:00 am



### Flood relief agencies on high alert in Chumphon, Surat Thani

Ranong has seen flash floods two days in a row. The first wave on Tuesday night prompted a school to close while

yesterday's flood at noon resulted in an evacuation order for 3,000 households.

Flood water yesterday hit three tambons in Kapur district, inundating 500 households in urban communities and another 1,000 in remote areas. Another 1,500 communities, including a large area of pigpens and shrimp ponds, were later hit, despite flood warnings that followed from the incident in a separate district of Ranong late on Tuesday night.

Those evacuated have not yet been permitted to return to their homes for fear of a third flash flood amid high tides and high rainfall, said Wichai Sricharoen, head of the local tambon administrative organisation.

Flood relief agencies have been readied in Ranong and neighbouring Chumphon while those in Surat Thani are on standby after lowlying districts were flooded, with 60 households evacuated. Other Surat Thani districts affected are Vibhavadi and Khiri Ratthanikhom where lowlevel inundation has affected residents living near the Tapi River.

#### National parks close routes

In Phatthalung, waterfalls in a number of national parks have been declared offlimits to tourists after heavy rain in the past few days, while trekking paths along Banthad mountain ridge have also been closed indefinitely.

In the North, four villages in tambon Ban Kew of Lampang's Mae Tha district have been hit by flash floods while rainwatermeasuring devices have been installed to monitor levels at 10 locations in Chiang Mai's Doi SuthepPui national park.

Park chief ranger Amphorn Panmongkhol said closure of parts or even the entire park could be ordered if rainwater levels neared dangerous levels, especially in areas near Mae Sa and Mok Fa waterfalls in Mae Rim and Mae Taeng districts respectively.



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Date of FFG products 06/06/2012 00:00 UTC time

1hour Flash Flood Guidance in Thailand			3hour Flash Flood Guidance in Thailand		
Provinces	Districts	FFG Value	Provinces	Districts	FFG Value
Chumphon	Phato	21.49	Thai Island		46.15
Ranong	Muang Ranong	21.49	Chumphon	Phato	37.68
Ranong	La-un	21.49	Chiang Mai	Fang	48.25
Ranong	Kapoe	17.11	Chiang Mai	King Amphoe Chaipakan	48.25
Surat Thani	Thachang	17.11	Phangnga	Khura Buri	46.15
			Ranong	Muang Ranong	32.69
			Ranong	La-un	37.68
			Ranong	Kapoe	23.29
			Ranong	Suk Samran	46.15
			Surat Thani	Thachang	23.29
			Surat Thani	Ban Takhun	46.15



State of disaster declared in parts of Chumphon - The Nation

<http://www.nationmultimedia.com/national/State-of-disaster-declared-in-p...>

August 20, 2012, 12:22 pm

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## State of disaster declared in parts of Chumphon

The Nation June 8, 2012 1:00 am



A state of disaster emergency has been announced in four Chumphon districts - the first in this wet season - following flash flooding, which had inundated 40 per cent of areas overnight.

Relief supplies and treatments have been given to residents in 127 villages in Thung Tako, Sawee, Tha Sae and La Mae districts in this southern province. Officials have also been put on alert for possible evacuations from more flooding.

In Pathum Thani, 200 angry residents from many estates upset at non-payment or insufficient compensation for flooding blocked a section of Phaholyothin-Lam Luk Ka Road, causing traffic congestion that stretched for kilometres.

Payments are not due till next Wednesday, but some residents had learnt they would get amounts lower than what they wanted and thus sought to protest. The blockade continued till press time although one lane was opened after talks between the protesters and a local administrative body.

In Surat Thani in the South, six of the 19 districts were under water , with more than 27,000 people in 8,500 households affected, said provincial governor Cherdasak Choosri. In Krabi, 20 families isolated by flooding in Muang district were rescued via a bridge made of rope in a dramatic effort by rescue workers.

A total of 500,000 first-aid kits and 400 doses of serum to deal with seven types of snake venom had been prepared, the Public Health Ministry said. It said there had been 400 cases of people suffering from diseases since the flooding began late last week.

Another 9,000 kits have been sent to three flood-hit provinces in the south - Phang Nga, Ranong and Krabi. Public announcements and leaflets warning people about waterborne diseases and diarrhoea have been provided in provinces not yet flooded.

Prime Minister Yingluck Shinawatra is due to visit Nonthaburi today to check on compensation payments to residents affected by last year's mega-flood. She may also fly to Chumphon to see flooded areas, after the Nonthaburi trip, although she has already assigned Natural Resources and Environment Ministry Preecha Rengsomboonsuk to visit that province.

THE NATION

Date of FFG products 07/06/2012 00:00 UTC time

1hour Flash Flood Guidance in Thailand			3hour Flash Flood Guidance in Thailand		
Provinces	Districts	FFG Value	Provinces	Districts	FFG Value
Ranong	Kapoe	23.63	Thai Island		41.07
Surat Thani	Thachang	23.63	Chumphon	Phato	44.15
			Chiang Mai	Fang	47.67
			Chiang Mai	King Amphoe Chaipakan	47.67
			Phangnga	Khura Buri	41.07
			Ranong	Muang Ranong	41.66
			Ranong	La-un	44.15
			Ranong	Kapoe	30.74
			Ranong	Suk Samran	41.07
			Surat Thani	Thachang	30.74
			Surat Thani	Ban Takhun	41.07

Floods force evacuations in Surat Thani - The Nation

<http://www.nationmultimedia.com/national/Floods-force-evacuations-in-...>

[Home \(http://www.nationmultimedia.com/\)](http://www.nationmultimedia.com/) » [national \(http://www.nationmultimedia.com/national/\)](http://www.nationmultimedia.com/national/) » Floods force evacuations in Surat Thani disaster response

## Floods force evacuations in Surat Thani

The Nation on Sunday June 10, 2012 1:00 am



### Overflow of Tapi River forces families in risky areas to move; flood-prevention work in Phitsanulok '70% finished'

Floods in the southern province of Surat Thani have affected some 2,000 people and 500 households, with residents in high-risk areas being evacuated.

The Tapi River in Phrasaeng district was overflowing its banks in many areas due to heavy rain. Floodwater levels on some roads in the district were 30-50 centimetres high, and reached 1 metre at points.

Around 60 out of 200 flood-affected families who live in risky areas in the district have been evacuated to stay at a temple and school after roads to villages were cut off by 60- to 80-centimetre-high floods.

Main roads in other districts of Surat Thani had also been inundated. Local authorities have warned people living in risky areas of possible flash floods and forest run-off and to keep checking weather forecasts.

Elsewhere in the South, floods in Trang's Wang Wiset district forced two schools to postpone reopening for the new semester for 30 days. Palm and rubber plantations along the overflowing Trang River had also been damaged.

A soil embankment of a reservoir broke and water damaged some palm and fruit plantations in Ranong's La-un district, while many residents in areas severely hit by floods in Kapoe district are waiting for assistance.

Ranong Provincial Administrative Organisation has set up a centre that will help mitigate storm, flood and landslide effects for local people after their assets and agricultural areas in many districts were damaged by such disasters. Officers at the centre will stand by round the clock to deliver immediate assistance.

Local authorities in Phuket said they were not worried much about floods but they would have to monitor possible landslides in slope areas.

Meanwhile, integrated projects to stop flooding in the rainy season in the northern province of Phitsanulok are 70-per-cent complete, and Prime Minister Yingluck Shinawatra is scheduled to visit next week to follow up on the progress of these.

Prime Minister's Office Minister Niwatthamrong Boonsongpaisan yesterday visited Phitsanulok to check on progress of projects in the province - which was badly flooded last year - prior to Yingluck's visit.

According to Governor Chairote Meedaeng, the projects were 70-per-cent complete. They include river and canal dredging and water-gate repairing.

Yingluck said the government's Single Command was collecting forecasts about the water situation from different agencies to check the overall flood situation before giving any instructions on water management.

She said three temporary water gates that would help release water in Nonthaburi would be finished by the end of July.

Urgent moves to be implemented were lowering dam levels, raising earth embankments, repairing water gates and installing pumps.

In related news, about 500 people in Bang Bua Thong in Nonthaburi staged a protest against alleged unfairness in flood-compensation payments.



Floods force evacuations in Surat Thani - The Nation

<http://www.nationmultimedia.com/national/Floods-force-evacuations-in-...>

Meanwhile, Governor Khajornsak Singtokul yesterday met hundreds of locals in Pathum Thani's Lat Lum Kao and Sam Khok districts who were not satisfied with compensation payments. He explained the criteria of the damage survey to them and told them he would have relevant agencies help them.

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- [Mom Luk Pia jailed for 4 years over prince's death](/national/Mom-Luk-Pia-jailed-for-4-years-over-prince's-death-30188602.html) [\(/national/Mom-Luk-Pia-jailed-for-4-years-over-prince's-death-30188602.html\)](/national/Mom-Luk-Pia-jailed-for-4-years-over-prince's-death-30188602.html)

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20/08/2012 12:25 PM

Date of FFG products 08/06/2012 00:00 UTC time

1hour Flash Flood Guidance in Thailand			3hour Flash Flood Guidance in Thailand		
Provinces	Districts	FFG Value	Provinces	Districts	FFG Value
No Risk Areas	to Flash Flood	Occurence	Thai Island		39.36
			Phangnga	Khura Buri	39.36
			Mae Hong Son	Muang Mae Hong Son	35.99
			Ranong	Suk Samran	39.36
			Surat Thani	Ban Takhun	39.36



## Annex 1.3 Vientiane Times, Heavy rains hit Luang Namtha, Lao PDR, 24 July 2012

2 | Thursday July 26, 2012

Vientiane Times

### Home news



Flood hit communities in Luang Namtha, after heavy rains hit the district recently.

## Heavy rains hit Luang Namtha

Times Reporters

Local communities flooded and rice crops underwater in Luang Namtha, after the district was hit by heavy rains on Monday and Tuesday.

Other crops including sweet corn and beans were also affected, but the damage has not been quantified as yet, according to local media reports.

Some livestock are missing after the heavy rains which caused rivers to rise rapidly, while a number of roads are also cut, but there were no people deaths or injuries reported.

The heavy rains came in the wake of tropical storm Vicente, which battered Hong

Kong before weakening and drifting over southern China as a rain depression.

Communities in Luang Namtha which were affected include Pong, Pasack, May, Luang and Donekhon villages, but water levels have begun to recede.

The provincial army unit had to transfer emergency rice supplies to Pasack, May and Donekhon villages by boat, and access to these communities remains difficult.

The provincial Deputy Governor, Mr Simoun Thourhouvieng, and district deputy governor, Mr Thongdaeng Sithason visited the affected areas recently, providing clean water and other necessities to the flood hit communities.

Pasack village head, Mr Phaengsone said that the flooding peaked during the night, and people had difficulty securing their livestock and personal possessions in the dark.

Over the last few days, the Meteorology and Hydrology Department has warned people, especially those living in northern provinces, about the storm but luckily it changed direction and Laos didn't face the full effects of it.

However, the provincial meteorology and hydrology sector expect that heavy rain will continue to fall in the province until the beginning of next month and large areas of the north will be affected to some extent.

## EU to fund climate change...

FROM PAGE 1

United Nations Framework Convention for Climate Change (UNFCCC) process and will enhance its capacity to mainstream climate change into other policies through its participation in the GCCA programme, Mr Goffin added.

Under this call for proposals, interested and eligible applicants are invited to submit only Concept Notes and then the pre-selected

candidates will be invited to submit a full application form for final selection to receive a European Union grant.

The EU is a major donor to Laos, disbursing on average 16 million euros in development assistance each year. However, grant aid provided to Laos by the EU and its member states could drop more than 100 million euros per year in total. Existing areas

of cooperation between Laos and the EU include education and health, rural development, food security, good governance, trade, UXO clearance and various other efforts.

European assistance aims to help Laos accomplish the millennium development goals (MDGs) in 2015, and graduate from the UN's list of least developed country status by 2020.

## Lao-Japan institute still requires support

Khamphone Syvongkay

The Lao-Japan Human Resource Development Institute (LJI) will focus on human resource development and try to earn enough revenue to be self-sustainable in the future.

LJI Lao Director, Assoc. Prof. Aloun Silattanakoun told *Vientiane Times* yesterday that "according to the agreement document, the Japanese government will cut funding for the institute by 2014."

"Actually, we don't want the Japanese government to cut funding. We were asked to reduce our spending as much as possible," he said.

LJI's assistance has developed many of the institute's staff skills, particularly in business administration, Japanese language and culture. Also, many students improved their academic qualifications or management of small-medium enterprises.

Through the institute, a project's coordination committee on capacity development of business people met on Tuesday at the National University of Laos (NUOL) to discuss achievements of the past and

map out a work plan for next year.

The meeting was chaired by the project Supervisor, NUOL Vice President, Assoc. Prof. Dr Saykhong Saynasine and JICA Lao Office Chief Representative, Mr Masato Togawa.

The Japanese government, through Japan International Cooperation Agency (JICA) has been providing assistance to the institute since 2000, in the form of office equipment, educational material and human resource development experts since 2000, Prof. Aloun said.

"The institute started out as a centre and was recently upgraded to an institute in the last two years," Prof. Aloun said. The institute promotes intellectual exchanges between NUOL and universities and other educational institutions in Japan, as well as those from other ASEAN countries.

From October to March this year, the institute and JICA have developed and practiced many activities in cooperation with various relevant sectors, especially updating its staff's skills in business administration.

It also held exchange programmes both within the university and outside as well, Dr Aloun said.

"Although the institute has carried out many useful activities in the past year, the majority of the institute's personnel have limited knowledge and skills in organisational management so some activities have not been developed to their full potential," he explained.

Some personnel have little motivation to work. So the LJI is facing a considerably high staff turnover rate and the does not have an efficient middle management personnel nor lecturers. As a result internal coordination is sometimes not so smooth.

Regardless, the institute have resolved to work with clear priorities which are consistent with the institute's role in improving internal coordination. This constitutes a driving factor in the institute's bid to improve the overall quality of its work.

It will also improve academic programmes and other activities based on internal capacity in order to meet the rising expectations of society, which is crucial for the sustainability of the institute.

## Notorious gangster killed in police shootout

Times Reporters

Officials from the Vientiane Police Headquarters announced yesterday that a notorious gangster named Viradeth, aka "Tui Hae," was killed in a shootout with police, while attempting to resist arrest.

Tui Hae, 29, opened fire on police at a house in Nongtha Neua village, Chanthabouly district of Vientiane when a large contingent of armed police arrived at the scene to place him under arrest.

One policeman was injured in the gun battle, while Tui Hae was shot dead.

"He was a very dangerous criminal who robbed many vehicles at gunpoint in

Vientiane," Police Lieutenant Colonel Salong Sengathath said.

"He was also involved in drug trafficking and the sale of illegal weapons."

According to police, Viradeth or Tui Hae and two accomplices were responsible for eight bag-snatchings in Vientiane back in 2005, for which he was sentenced to four years in prison.

He was released from prison in 2010 and soon began associating with other criminal elements.

Tui Hae was known to have close ties with Mr Deh, 32, from Phonsevang village, Sikhottabong district, Mr Keo, 34, from Thongsangnang village and Mr Le, from Sisavath village, Chanthabouly district, in Vientiane.

The gang of four were responsible for stealing 19 vehicles from victims at gunpoint in 2010.

Tui Hae was again arrested, processed by the court and returned to prison.

He was released from prison again earlier this year and promptly resumed his criminal ways, trafficking in drugs and firearms.

Lieutenant Colonel Salong said he refused to give up his life of crime, even after being arrested so many times before.

Following an investigation, police felt they had enough evidence to arrest Tui Hae once more.

They obtained information that he would be attending a drug party at a friend's house in Nongtha Neua village, Chanthabouly district and

decided to arrest him there.

Police encountered him near the house and ordered him to surrender. Tui Hae drew a pistol instead and began shooting at police. The police returned fire, killing the notorious gangster.

Lieutenant Colonel Salong said that Tui Hae was a very dangerous criminal and had been under investigation for some time. "He was a threat to peace and public safety," he said.

Police officials discussed three major social problems in Vientiane today.

The first is vehicle theft, which often happens when people do not take proper precautions or leave the engine running when they go to the shops to buy something.

The second problem is drug dealers, who are ruining lives and often target young people who are vulnerable and at risk.

Drug trafficking is also linked to various violent crimes, while drug users are more likely to get into fights and arguments.

The third is teenagers racing motorcycles, driving dangerously on modified motorcycles, and disturbing the peace with their noisy exhausts.

Lieutenant Colonel Salong warned people to take precautions to avoid becoming victims of crime. He suggested people always turn off a vehicle's engine and take the keys with them, avoid wearing valuable items on isolated roads, and stay aware of their surroundings, especially at night.

### Lao Press in Foreign Languages

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1hour Flash Flood Guidance in Lao				3hour Flash Flood Guidance in Lao			
Provinces	Districts	Villages	FFG Value	Provinces	Districts	Villages	FFG Value
Luangprabang	Xieng nge	NAMLIN	24.81	Phongsaly	May	HOUAYSONG TAI	33.71
Luangprabang	Xieng nge	NONGPA	24.81	Phongsaly	May	HOUAYSONG NEU	33.71
Luangprabang	Xieng nge	NALENG	24.81	Phongsaly	May	HOUAYVIK NEUA	33.71
Luangprabang	Xieng nge	PAKSANAM	24.81	Phongsaly	May	HOUAYVIK TAI	33.71
Luangprabang	Nan	PHANIP	24.81	Phongsaly	May	NAMNGA	33.71
Luangprabang	Nan	KHORNLONG	24.81	Phongsaly	May	NAMKHAM	33.71
Luangprabang	Nan	PADONG	24.81	Phongsaly	May	OMKANENG	33.71
Luangprabang	Nan	NAMOUANG GN.	24.81	Phongsaly	May	HOUAYVANGSOU	33.71
Luangprabang	Nan	NAMOUANG KAI	24.81	Phongsaly	May	HOUAY OUN	33.71
Luangprabang	Nan	PONGDEUA	24.81	Phongsaly	May	PONGHY	33.71
Luangprabang	Nan	HOUAYLATH	24.81	Phongsaly	May	TINTOK	33.71
Luangprabang	Nan	DAN	24.81	Phongsaly	May	OMPALONG	33.71
Luangprabang	Nan	HOUAYHOY	24.81	Phongsaly	May	PONGHY	33.71
Luangprabang	Nan	NAMPHAK	24.81	Phongsaly	May	TANLOTONG	33.71
Luangprabang	Nan	HOUAYME	24.81	Phongsaly	May	HOUAYVANGKANG	33.71
Luangprabang	Nan	HOUAYLONG	24.81	Phongsaly	May	NANGEUN	33.71
Luangprabang	Nan	SISAATH	24.81	Phongsaly	May	POUNGKHAO	33.71
Xayaboury	Khop	DOI HARE	20.64	Phongsaly	May	VANG KAO	33.71
Xayaboury	Khop	DONE TON	20.64	Phongsaly	May	OMTALEUM	33.71
Xayaboury	Khop	NAM TOM	20.64	Phongsaly	May	NALOUANG	42.13
Xayaboury	Khop	HOUY NGEUN	20.64	Phongsaly	May	VONGTOU	42.13
Xayaboury	Xienghon	MOK SA KIEN	23	Phongsaly	May	NAMNENE	40.21
Xayaboury	Xienghon	HONG KHOU	23	Phongsaly	May	HOUANENE	40.21
Xayaboury	Xienghon	KEW KENE	23	Phongsaly	khousa	PHIA	40.92
Xayaboury	Xienghon	NGEW	23	Phongsaly	khousa	SENKHAM	48.01
Xayaboury	Xienghon	NAM BENG	23	Phongsaly	khousa	KATANGKALA	48.94
Xayaboury	Xienghon	LAO OU	23	Phongsaly	khousa	CHALAKAO	48.94
Xayaboury	Xienghon	LAO SA NO	23	Phongsaly	khousa	SANTONCHONG	48.94
Bolikhamxay	Pakkading	NAMDEUA	22.21	Phongsaly	khousa	NAMMA NEUA	48.01
Bolikhamxay	Pakkading	NAKHEUA NOK	22.21	Phongsaly	khousa	RONGLEUK	48.01
Bolikhamxay	Pakkading	NAKHEUA NAY	22.21	Phongsaly	khousa	PHICHEU KAO	48.01
Bolikhamxay	Pakkading	NAHIN	22.21	Phongsaly	khousa	PHICHEU MAI	48.01
Bolikhamxay	Pakkading	THONGHURB	22.21	Phongsaly	khousa	SENKHAM NEUA	48.01
Bolikhamxay	Pakkading	NABOY	22.21	Phongsaly	khousa	HOUAYLA	48.01
Bolikhamxay	Viengthong	SOBSOR	18.93	Phongsaly	khousa	KOKPHAO	48.01
Bolikhamxay	Viengthong	PHADAENG	18.93	Phongsaly	Samphanh	KHANA	49.87
Bolikhamxay	Viengthong	NONGBUA(NON)	18.93	Phongsaly	Samphanh	LAXA KAO	48.94
Bolikhamxay	Viengthong	VANGPENE	18.93	Phongsaly	Samphanh	HINDENG	49.04
				Phongsaly	Samphanh	NAM ON	49.04
				Phongsaly	Samphanh	OMTHAM	49.87
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				Phongsaly	Samphanh	NAMNGA	49.87
				Phongsaly	Samphanh	KONGKHOU	48.94
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				Phongsaly	Samphanh	CHAPHIOU NOY	47.02
				Phongsaly	Bountay	IPUECHEUNG	47.02
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				Phongsaly	Bountay	SANO KAO	47.02
				Phongsaly	Bountay	NAMKOUANG	47.02
				Phongsaly	Bountay	MOUCHI MAI	47.02
				Phongsaly	Bountay	CHAME	47.02
				Luangnamtha	Viengphou	NAMTIENG	37.79
				Luangnamtha	Viengphou	TONGMANG	39.15
				Luangnamtha	Viengphou	LAIYANG	37.79



Luangnamtha	Nalae	LA ANG	39.15
Luangnamtha	Nalae	TAKHEUNG	39.15
Luangnamtha	Nalae	KAYE	37.79
Luangnamtha	Nalae	KHANEUNG	37.79
Luangnamtha	Nalae	SALEUANG	37.79
Luangnamtha	Nalae	MONGKHO	37.79
Luangnamtha	Nalae	SAKRANG	37.79
Luangnamtha	Nalae	NEUNGPHET	37.79
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Oudomxay	La	PHONXAI	48.01
Bokeo	Meung	NAMMEUNG	48.28
Bokeo	Meung	HUANA	48.28
Bokeo	Meung	MOUANG KANG	48.28
Bokeo	Meung	TORLAE	48.28
Bokeo	Meung	CHAKHA	45.92
Bokeo	Meung	CHAKOR	45.92
Bokeo	Meung	NAMKHA	48.28
Bokeo	Pha Oudo	KANG	42.31
Bokeo	Pha Oudo	MOKPORN	42.31
Bokeo	Pha Oudo	MOKSOUK	42.31
Bokeo	Pha Oudo	TAKHING	46.92
Bokeo	Pha Oudo	BONGLAOSOUNG	39.15
Bokeo	Pha Oudo	HANGDOI	39.15
Bokeo	Pha Oudo	TINPHA	46.92
Bokeo	Pha Oudo	MOKKHA KANG	42.31
Bokeo	Pha Oudo	SIBOUNHEUANG	42.31
Bokeo	Pha Oudo	PHA OU DOM	42.31
Bokeo	Pha Oudo	THINKEO NEUA	42.31
Bokeo	Pha Oudo	SAMIN	39.15
Luangprabang	Xieng nge	NAMLIN	32.79
Luangprabang	Xieng nge	NONGPA	32.79
Luangprabang	Xieng nge	NALENG	32.79
Luangprabang	Xieng nge	PAKSANAM	32.79
Luangprabang	Nan	PHANIP	32.79
Luangprabang	Nan	KHORNLONG	32.79
Luangprabang	Nan	PADONG	32.79
Luangprabang	Nan	NAMOUANG GNAI	32.79
Luangprabang	Nan	NAMOUANG KANG	32.79
Luangprabang	Nan	PONGDEUA	32.79
Luangprabang	Nan	HOUAYLATH	32.79
Luangprabang	Nan	DAN	32.79
Luangprabang	Nan	HOUAYHOY	32.79
Luangprabang	Nan	NAMPHAK	32.79
Luangprabang	Nan	HOUAYME	32.79
Luangprabang	Nan	HOUAYLONG	32.79
Luangprabang	Nan	SISAATH	32.79
Luangprabang	Nan	PHOKHAM	33.47
Luangprabang	Nan	PAKLAN	33.47
Luangprabang	Nan	PHONXAY	33.47
Luangprabang	Nan	HOUAYTHIP	33.47
Luangprabang	Nan	HOUAYXI	33.47
Luangprabang	Nan	PHONSANA	33.47
Luangprabang	Nan	HOUAYPHAKNAOT	33.47
Luangprabang	Nan	PHONTHONG	33.47
Luangprabang	Nan	PASACK	39.26
Luangprabang	Nan	BANKANG	39.26
Luangprabang	Nan	SAENGSAVANG	39.26
Luangprabang	Nan	HOUAYHIA	33.47
Luangprabang	Nan	PHONXAY	39.26

## Annex 1.4 Thanh Nien, Northern Viet Nam flash flood, 24 - 25 July 2012

Vietnam latest news - ThanhNienDaily | Vicente kills 7 in northern Vietn... <http://www.thanhniennews.com/index/pages/20120726-vicente-kills-7-in->



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### Vicente kills 7 in northern Vietnam after reducing to tropical depression

Last Updated: Thursday, July 26, 2012 03:10:00



A landslide caused by typhoon Vicente that buried part of a house in Tuyen Quang Province, on Thursday morning, killing a woman and her two children.

Typhoon Vicente left seven people dead and missing in Vietnam's northern highlands after the storm dwindled to a tropical depression that brought on heavy rains on Wednesday.

Nguyen Thi Thu, 28, and her two children (one 5 years old and the other nearly five months old) were killed in their sleep when a landslide crushed portions of their home in Tuyen Quang Province on Thursday morning, *Tuoi Tre* reported.

Quang Van Quyen, 8, died after being swept away in a flash flood in Son La Province on Wednesday.

Rescue workers are still looking for three other victims, including a man from Lao Cai and a husband and wife couple in Ha Giang.

A flash flood in Lao Cai swept away Tran Van Truong, 47, at around 5:30 p.m. on Wednesday while he was driving home from his job at an iron mine. The province reported heavy downpours that began on Wednesday afternoon and continued until 10 am Thursday, causing floods along several rivers.

A Leng Van Trieu, 48, and his wife Chao Thi Thao, 55, also remained missing following the heavy rains.

On Monday when the typhoon was still roughly 750 kilometers off Vietnam's northern coast, Prime Minister Hoang Trung Hai said at a meeting that the authorities need to prepare for possible landslides and be "especially careful" about rains after the typhoon.

"Our rain forecasts are not highly accurate yet," he said.

Vicente was the four typhoon from the East Sea to hit Vietnam this year.

The first one, typhoon Pakhar, hit Ho Chi Minh City hard in early April and killed two people in the surrounding provinces. The two subsequent storms, Talim and Doksuri, dissipated in the East Sea in June and caused no casualties in Vietnam.

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Thanh Nien News

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Date of FFG products 24/07/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Lao Cai	TX. Lao Cai	24.21	Ha Giang	Yen Minh	48.09
Lao Cai	Bat Xat	19.51	Ha Giang	Bac Me	48.09
Lao Cai	Sa Pa	18.97	Ha Giang	Hoang Su Phi	41.68
Lao Cai	Than Uyen	20.61	Ha Giang	Vi Xuyen	44.00
Lai Chau	TX. Lai Chau	21.83	Ha Giang	Xin Man	38.46
Lai Chau	Muong Te	20.43	Ha Giang	Bac Quang	40.52
Lai Chau	Phong Tho	18.45	Cao Bang	Bao Lac	48.09
Lai Chau	Sin Ho	21.57	Lao Cai	TX. Lao Cai	31.35
Lai Chau	Muong Lay	21.13	Lao Cai	TX. Cam Duong	31.55
Son La	Quynh Nhai	21.55	Lao Cai	Muong Khuong	49.21
Kon Tum	Sa Thay	24.43	Lao Cai	Bat Xat	25.07
			Lao Cai	Bac Ha	36.16
			Lao Cai	Bao Thang	49.21
			Lao Cai	Sa Pa	26.09
			Lao Cai	Bao Yen	36.69
			Lao Cai	Than Uyen	30.33
			Tuyen Quang	Na Hang	44.74
			Tuyen Quang	Chiem Hoa	44.74
			Lai Chau	TX. Lai Chau	29.29
			Lai Chau	Muong Te	41.03
			Lai Chau	Phong Tho	27.35
			Lai Chau	Sin Ho	35.67
			Lai Chau	Muong Lay	35.35
			Lai Chau	Tuan Giao	44.54
			Lai Chau	Dien Bien	45.64
			Lai Chau	Dien Bien Dong	47.06
			Son La	TX. Son La	41.13
			Son La	Quynh Nhai	35.06
			Son La	Muong La	41.93
			Son La	Thuan Chau	44.80
			Son La	Mai Son	43.23
			Son La	Song Ma	44.85
			Hoa Binh	Ky Son	41.06
			Nghe An	Tuong Duong	37.68
			Nghe An	Con Cuong	37.68
			Kon Tum	Dak Glei	36.62
			Kon Tum	Ngoc Hoi	33.85
			Kon Tum	Sa Thay	34.89
			Gia Lai	Chu Pah	34.68
			Gia Lai	Ia Grai	35.92



Vietnam latest news - Thanh Nien Daily | Flashfloods, landslides leave 9 ... <http://www.thanhniennews.com/index/pages/20120728-flashfloods-landsl...>



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## Flashfloods, landslides leave 9 dead, one missing in northern Vietnam

Last Updated: Saturday, July 28, 2012 04:05:00



Rescuers searching for a missing man in Ha Giang Province's Meo Vac District

Nine people have died, one person is missing and another has been injured in flashfloods and landslides triggered by typhoon Vicente in northern Vietnamese provinces over the past several days.

According to the Central Committee for Flood and Storm Control, a landslide in Tuyen Quang Province's Yen Son District killed three people while four others drowned in flashfloods in Ha Giang Province.

Two other fatalities happened in Son La and Lai Chau provinces while another has been listed missing after being swept away away by floods in Lao Cai Province.

Floods have swept 11 houses away and damaged 318 others in the northern provinces. More than 1,100 hectares of rice and crops were inundated.

The committee approved a proposal by the Electricity of Vietnam that it would not discharge water from the Hoa Binh and Son La hydropower reservoirs to avoid worsening the floods, while generating power at maximum capacity to deal with increasing water levels in the reservoirs.

By Quang Duan, Thanh Nien News

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Published:

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Date of FFG products 25/07/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Lao Cai	Bat Xat	23.19	Lao Cai	TX. Cam Duong	42.40
Lao Cai	Sa Pa	24.68	Lao Cai	Bat Xat	32.84
Lao Cai	Than Uyen	24.68	Lao Cai	Sa Pa	36.85
Lai Chau	Muong Te	20.69	Lao Cai	Than Uyen	40.35
Lai Chau	Phong Tho	23.19	Lai Chau	TX. Lai Chau	33.87
Lai Chau	Sin Ho	19.40	Lai Chau	Muong Te	36.46
Lai Chau	Muong Lay	19.63	Lai Chau	Phong Tho	36.63
Lai Chau	Tuan Giao	19.63	Lai Chau	Sin Ho	38.94
Lai Chau	Dien Bien	20.69	Lai Chau	Muong Lay	32.81
Lai Chau	Dien Bien Dong	19.63	Lai Chau	Tuan Giao	37.54
Kon Tum	Sa Thay	22.89	Lai Chau	Dien Bien	37.63
Gia Lai	la Grai	24.47	Lai Chau	Dien Bien Dong	44.45
			Son La	TX. Son La	41.01
			Son La	Quynh Nhai	40.86
			Son La	Muong La	41.51
			Son La	Thuan Chau	45.46
			Son La	Mai Son	44.71
			Son La	Song Ma	46.57
			Hoa Binh	Ky Son	48.46
			Nghe An	Tuong Duong	41.97
			Nghe An	Con Cuong	41.97
			Kon Tum	Dak Glei	49.97
			Kon Tum	Ngoc Hoi	49.97
			Kon Tum	Sa Thay	36.51
			Gia Lai	Chu Pah	36.81
			Gia Lai	la Grai	34.53

**Annex 1.5 Thanh Nien, Northern Viet Nam flash flood, 30 July 2012**

Vietnamlatest news - Thanh Nien Daily | Two dead, one missing after flash ... <http://www.thanhniennews.com/index/pages/20120801-one-killed-13-inj...>

[Print](#)**Two dead, one missing after flash floods strike northern Vietnam**

Last Updated: Wednesday, August 01, 2012 12:15:00



Flash floods killed two, injured eight and left one missing in northern Vietnam early this week.

The Central Steering Committee on Flood and Storm Prevention and Fighting issued a statement Tuesday, announcing that a flash floods had killed a person, flooded 450 hectares of agricultural fields and caused massive infrastructure damage in Yen Bai Province.

In nearby Cao Bang, floodwaters damaged 251 houses.

The same day, Voice of Vietnam reported that water had dislodged nearly 3,000 cubic meters in nearby Dien Bien Province where a rockslide killed one person and injured four others.

One remained missing among the debris and many of the victims have yet to be identified.

Damages to the province's fields and roads have been estimated to cost hundreds of thousands of dollars.

The National Center for Hydro-Meteorological Forecasting said a tropical depression combined with water discharge from hydropower dams has raised the high water mark to alarming levels in the Red, Thai Binh and Lo Rivers.

In it's most recent announcement, the agency reported that the waters have receded.

Thanh Nien News

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Published:

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Date of FFG products 30/07/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Lai Chau	Tuan Giao	19.25	Vietnam Island	Tam Thanh	43.76
Lai Chau	Dien Bien	19.48	Ha Tay	TX. Son Tay	46.86
Lai Chau	Dien Bien Dong	19.25	Ha Tay	Ba Vi	46.86
Son La	Song Ma	16.88	Ha Giang	Hoang Su Phi	46.42
Hoa Binh	Ky Son	20.92	Ha Giang	Xin Man	47.34
Nghe An	Tuong Duong	22.51	Ha Giang	Bac Quang	47.34
Nghe An	Con Cuong	24.57	Cao Bang	Ha Quang	48.49
			Cao Bang	Thong Nong	48.49
			Cao Bang	Hoa An	48.49
			Lao Cai	Bat Xat	35.62
			Lao Cai	Bac Ha	47.34
			Lao Cai	Sa Pa	38.06
			Lao Cai	Bao Yen	47.34
			Lao Cai	Than Uyen	39.65
			Bac Kan	TX. Bac Kan	39.45
			Bac Kan	Bach Thong	39.45
			Yen Bai	TX. Nghia Lo	42.78
			Yen Bai	Van Yen	48.27
			Yen Bai	Mu Cang Chai	43.58
			Yen Bai	Tran Yen	49.17
			Yen Bai	Van Chan	44.42
			Yen Bai	Tram Tau	44.52
			Phu Tho	Yen Lap	47.65
			Phu Tho	Thanh Son	42.54
			Lai Chau	Muong Te	45.61
			Lai Chau	Phong Tho	36.30
			Lai Chau	Sin Ho	46.71
			Lai Chau	Muong Lay	43.67
			Lai Chau	Tuan Giao	31.86
			Lai Chau	Dien Bien	34.51
			Lai Chau	Dien Bien Dong	36.19
			Son La	TX. Son La	35.75
			Son La	Muong La	41.85
			Son La	Thuan Chau	40.39
			Son La	Bac Yen	43.57
			Son La	Phu yen	46.18
			Son La	Mai Son	35.75
			Son La	Song Ma	35.23
			Son La	Moc Chau	42.68
			Hoa Binh	Da Bac	38.75
			Hoa Binh	Mai Chau	39.23
			Hoa Binh	Ky Son	32.60
			Hoa Binh	Kim Boi	46.52
			Hoa Binh	Tan Lac	36.31
			Hoa Binh	Lac Son	46.52
			Hoa Binh	Yen Thuy	49.75
			Thanh Hoa	Muong Lat	44.91
			Thanh Hoa	Quan Hoa	40.85
			Thanh Hoa	Quan Son	41.45
			Thanh Hoa	Ba Thuoc	36.31
			Thanh Hoa	Lang Chanh	36.18
			Thanh Hoa	Thuong Xuan	36.18
			Nghe An	Que Phong	41.66
			Nghe An	Tuong Duong	36.16
			Nghe An	Con Cuong	32.96



# Annex 1.6

## Vientiane Times, Flood cuts off road between Luang Prabang and Vientiane, Lao PDR, 8 August 2012



# Vientiane Times

The First National English Language Newspaper



THURSDAY AUGUST 9, 2012 ISSUE 184

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### Inside



**Health Sciences board meets to discuss future direction**  
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**200,000 relocated in Shanghai as typhoon Haikui nears**  
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**WTC helps reduce investment risks**  
PAGE 8

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## Laos, DPRK leaders hold talks on bilateral ties

Times Reporters

President Choummaly Sayasone welcomed the visiting Supreme People's Assembly President of the Democratic People's Republic of Korea (DPRK), and held talks on bilateral ties in Vientiane yesterday.

Mr Kim Yong-Nam, the President of the Presidium of the Supreme People's Assembly of the DPRK and his delegation arrived in Vientiane on Tuesday for a three-day official goodwill visit to Laos at the invitation of President Choummaly Sayasone.

An official welcoming ceremony was held yesterday at the Presidential Palace in Vientiane. The Lao president and high-ranking officials welcomed Mr Kim and his delegates.

In the bilateral talks, held shortly after the welcoming ceremony, president Choummaly told Mr Kim that it was a great honor for the Lao People's Revolutionary Party (LPRP), government and people of Laos to receive him and his delegation. The two leaders highly value and are gratified by the



President Choummaly Sayasone (left) and Mr Kim Yong-Nam, the President of the Presidium of the Supreme People's Assembly of the DPRK, inspect the honour guard.

friendly relations and sound cooperation between the two countries, a press release from the Lao Ministry of Foreign Affairs said.

Leaders of the two nations have maintained close contact through

exchanges of visits. President Choummaly paid an official goodwill visit to the DPRK in September, 2011.

President Choummaly and Mr Kim also exchanged views over the bilateral relations between the two countries, as

well as exchanging views on regional and international issues of common interest. They briefed each other on the socio-economic development situation of their respective countries.

CONTINUED PAGE 2

## WB extends support for road sector project in Laos

Khone Savanh Latsaphao

The World Bank (WB) signed a financing agreement with the Lao government in Vientiane yesterday, for an additional grant of US\$21 million for the Lao Road Sector Project.

The main objectives of this project currently are to improve road services on National Roads 1B and 6A in Phongsaly and Huaphan provinces.

The funding grant will support maintenance works on critical sections of the provincial road network, and establish a contingency fund for rapid disaster response in the event of landslides or flooding cutting the roads.

The additional grant builds upon the good progress made improving the roads for which an original sum of US\$27.8 million was granted in 2010.

The new money will help finance features that reinforce the disaster resilience of the above mentioned roads, by undertaking slope stabilisation works, installing drainage systems, improving bridges and river crossings and upgrading the road surfacing.

Additional financing will also be used to construct a bridge over the river Nam Ma, connecting two sections of National Road 6A. The planned bridgeworks will be co-financed with monies allocated from the national budget and the road maintenance fund.

While a large part of the additional grant finances civil works, institutional aspects have also been considered. Institutional strengthening activities

CONTINUED PAGE 3

## Flood cuts off road between Luang Prabang and Vientiane

Khamphone Syvongxay

Many families living along the Nam Khan River in Luang Prabang province have been affected by flooding after the area was hit by heavy rains on Tuesday night.

Most of people worst affected live in Xieng Ngeun district, while hundreds of hectares of rice and other crops in Phoumy district also have been flooded.

Flooding has affected three river valleys, with water

levels in the Nam Khan, Nam Ming and Nam Bak rivers beginning to rise at 2am yesterday, according to local media reports.

Road No 13 North was cut in the Xieng Ngeun area around 15 kilometres from Luang Prabang town itself, and it is currently not possible to travel from Luang Prabang to Vientiane by road.

The provincial authorities have yet to receive any reports of injuries or deaths,

but they cannot be ruled out at this stage. They will have to wait until the waters subside before they can assess how many hectares of farmland were damaged by the flood.

Due to the speed with which the rivers rose, it is likely there will be livestock reported missing, as local villagers would have struggled to move them to higher ground in time to keep them safe.

The water flows in the Nam Khan were different

never seen a flood event like this in the last few years since he moved to the province.

He said that yesterday evening, a lot of people in the Provincial capital gathered to see the Nam Khan reach danger levels in the capital. The river is threatening to top its banks into the area of town between Vat Phousy and the Nam Khan, but the situation remains safe for now.

The water flows in the Nam Khan were different

CONTINUED PAGE 3







## More regular scrutiny required from ministry inspectors

Times reporters

Party and state inspection Chief Dr Bounthong Chitmany has asked inspectors for the Ministry of Information, Culture and Tourism to conduct thorough internal monitoring and inspection on a regular basis, in order to improve its efficiency and effectiveness.

Mr Bounthong, a Party Politburo member and Chairman of the Inspection Committee of the Party Central Committee, gave the advice at the two-day meeting on the inspection work of the ministry, which closed yesterday in Vientiane.

He stressed the need for the inspectors to work harder to contribute in realising the main objectives of the Party and state inspection work. He explained that the objective is to make the Party more 'transparent, strong and consolidated' in order to give people confidence in the Party's leadership.

In order to realise such a goal, Dr Bounthong suggested the meeting participants put in place and realise the advice of President Choummaly Sayasone, which was recounted at the 2nd National Meeting on Inspection Affairs held in March, along with other related documents presented at the two-day meeting.

He stated that the Party committee, leading officials and cadres, and officials at all levels must understand and recognise that inspection work and other anti-corruption measures are 'critically important work' inseparable from the Party's leadership and the government's administration.

"We must realise the negative impacts that will arise if we are careless and fail to put in place the monitoring and inspection regime required," he told the meeting.

"Whichever organisation is careless regarding inspection work and anti-corruption measures will encounter problems and unforeseen consequences for their organisation."

He reiterated that effective inspection work is necessary to ensure all Party members and officials, including leading officials at all levels, properly implement the Party's guidelines, policies and resolutions, as well as state laws and the national socio-economic development plan.

Dr Bounthong, who is also President of the State Inspection Organisation and Head of the Central-Level Anti-Corruption Organisation, suggested the officials undertake more regular monitoring in an effort to prevent problems from occurring. He stated that regular monitoring is often missing in various state agencies, which enable problems occur.

"Normally, we make only emergency inspections of targets where problems were suspected or reported to be occurring," he told the meeting. "If monitoring is regularly carried out, it will help prevent the problems from occurring."

He stressed the need for inspectors to give feedback to one another in order to improve weak points in their work, after learning that inspectors commonly fail to give genuine assessments of their results as they don't want to hurt the feelings of others.



Dr Bounthong Chitmany.

## Deputy Prime Minister stresses natural resource development

Khamphone Syvongxay

Deputy Prime Minister Asang Laoly urged leaders of the Ministry of Natural Resources and Environment to focus on priorities in the development of their areas of responsibility in Laos.

Regarding land management, the ministry should improve the policies on land use and land title in line with the law and increase mechanisms and measures for land management in order to reduce problems, he stressed at the meeting on Tuesday in Vientiane.

The ministry must continue to take increased responsibility for land allocation, registration of land titles and permits for the use of government land. He also urged a shift in the use of government land towards rent and concessions for the agricultural industry and mineral excavation.

Mr Asang also said that surveys and environmental assessments should be carried out in order to determine areas suitable for obtaining minerals, to assist in obtaining foreign and domestic investment. This will be important for future industry development. Laos also needs laboratories in order to



Deputy Prime Minister Asang Laoly.

properly analyse samples.

In the forestry sector, the ministry should focus on conservation and crack down on illegal logging. Mr Asang said Laos should increase the area of forest cover to 65 percent and reforest 3.9 million hectares by 2015 in line with the Ministry of Agriculture and Forestry plan.

For water resources, meteorology and hydrology, proper laws should be established and projects implemented, Mr Asang said. Improving these sectors would provide warning of natural disasters and lessen their effect, especially droughts and floods.

He also stressed the importance of a food security

plan and the growing of commercial crops. Growers of agricultural products also need to be flexible and adjust their crops to counter the effects of climate change.

"As we know, the natural resource and environmental sectors are an important strategic area for country development because Laos still has rich natural resources which provide a high potential for national socio-economic development," he said.

Most Lao people are still using natural resources to produce products for their own consumption and development in the past has contributed to improving living conditions and poverty reduction.

To reach the targets, he asked each sector to follow the political ideas of the Party and government for implementing work and asking individuals to improve action plans, taking responsibility for their duties to update knowledge and skills.

The ministry should also increase awareness of the importance of natural resources and environmental responsibility and should cooperate with government agencies as well as foreign nations and NGOs.

## WB extends support for road ...

FROM PAGE 1



Mr Santiphab Phomvihane (right) and Ms Keiko Miwa, shake hands after the signing ceremony.

include the development financing mechanisms, such of sector capacities for the as establishing Public Private management of innovation Partnerships.

It also involves the expansion of the e-government platform developed under the original project, and further strengthening the internal control environment in order to promote efficiency.

The additional financing will also boost activities that support fiduciary, environmental and social safeguard management capacities at the central and provincial levels.

As traffic volumes are rapidly increasing on both urban and national roads, the grant will complement the provision of road signage and barriers to improve safety on key transport arteries.

There will also be provisions to finance traffic safety campaigns promoting accident prevention, the enforcement of safety rules, and quality assurance at driving schools in Laos.

Grant monies will also go towards topping-up the emergency contingency fund, which was depleted following typhoons Haima and Nock Ten last year.

The Lao Road Sector Project is an important part of the Laos Country Partnership Strategy (CPS), which was endorsed by the World Bank Board in March 2012.

The strategy aims to improve the connectivity of the country, through a robust programme of road improvement and eventual expansion, with new investments in provincial infrastructure.

The Ministry of Public Works Transport commenced the road sector project in 2010, with the initial World Bank grant of US\$27.8 million.

In addition, the Japanese government has also provided US\$1 million through the World Bank, while the government has contributed more than US\$14.3 million to the road improvement effort.

## Trade fair to be held to celebrate Uprising Day

Somxay Sengdara

Vientiane will celebrate Uprising Day this year with a showcase of achievements by the business sector in the capital city, the provinces and other ASEAN countries.

Vientiane Vice Mayor Mr Saithong Keoduangdy told representatives from various media organisations about the plan at a press conference on Tuesday.

"We will celebrate this nationally-important event by focusing on showcasing the achievements of the business sector in the capital city over the past 37 years. We will do so by organising a trade fair and other political and cultural activities," he said.

The trade fair, which will run at the Asean Mall in Vientiane from August 18 to 28, will boast exhibits by around 150 domestic and foreign businesses.

Of that number, 10 are model family business units, and 20 are restaurants based in the capital city, which will take part in the food contest during the event.

Mr Saithong said the focus of the food contest is not only on the taste of the menu, but also the way the food is served



Mr Saithong Keoduangdy speaks at the press conference.

and the quality of service by the waiters and waitresses.

The 10-day event will be accompanied by cultural performances such as traditional songs including Lam Kone, Lam Khou, and Khuen, as well as other arts shows.

Asean Mall is the creation of Vientiane businessman, Mr Vixay Navientiane, and one of the most dynamic real estate developments in Vientiane.

Mr Saithong explained that Vientiane authorities selected the mall as the location for the celebration because it symbolises the success of a

Vientiane businessman who started his entrepreneurial career with very little capital.

"We have selected the venue because it is an obvious sign reflecting the achievement of a Vientiane businessman under the Party's guidance, and it is located in an area with a beautiful view of That Luang marsh," he said.

The trade fair and other related activities are aimed at promoting Lao's cultural identity, its domestic produce, and the tourism industry. It also aims to build relationships between Vientiane and the provinces, and with the capital cities of other ASEAN countries.

On August 23, Vientiane authorities, together with the Party, government, and people, will organise a meeting at the National Culture Hall, to commemorate the historical date, and the achievements of Vientiane people in terms of national defence and development over the past 37 years.

The opening ceremony for the trade fair will be held on August 18, in conjunction with the official opening of the mall, which had earlier been scheduled to open on July 22.

### Weather forecast

Vientiane			
Date	Temperature in (C) Min Max	Weather	
09/08/2012	19 22	Scattered showers	
10/08/2012	18 21	Isolated showers	
11/08/2012	18 18	Light rain	
Luang Prabang			
Date	Temperature in (C) Min Max	Weather	
09/08/2012	21 27	Isolated showers	
10/08/2012	21 27	Isolated showers	
11/08/2012	22 28	Light rain	
Luang Prabang			
Date	Temperature in (C) Min Max	Weather	
09/08/2012	23 26	Isolated showers	
10/08/2012	23 27	Isolated showers	
11/08/2012	24 28	Light rain	
Vientiane Capital			
Date	Temperature in (C) Min Max	Weather	
09/08/2012	24 29	Scattered showers	
10/08/2012	23 28	Isolated showers	
11/08/2012	24 28	Isolated showers	
Savannakhet			
Date	Temperature in (C) Min Max	Weather	
09/08/2012	20 30	Isolated showers	
10/08/2012	20 31	Light rain	
11/08/2012	21 32	Isolated showers	
Pakse			
Date	Temperature in (C) Min Max	Weather	
09/08/2012	25 30	Isolated showers	
10/08/2012	25 31	Light rain	
11/08/2012	26 32	Isolated showers	

## Heavy rains cause flooding...

FROM PAGE 1

than previous years, even after rains, because this year there was a large number of trees and other debris coming down the river, and the current much stronger than usual, Mr Mongkhon said.

The provincial authorities believe that the damage will be largely restricted to

Phonsay and Xieng Ngeun districts.

People and their crops in other areas are likely to have been spared, but this has yet to be verified.

They are now warning people in low lying areas along the banks of the Nam Khan to take the necessary

precautions and move their livestock and other valuables to higher ground, in case the waters continue to rise.

The Meteorology and Hydrology Department has confirmed that the current flooding was caused by an isolated rainfall event.



## Inside



Laos remains safe from EV-71 virus  
PAGE 2



Typhoon Haiwai leaves 19 dead in Manila  
PAGE 7



The supernatural inspires spirit house film  
PAGE 22

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## Electricity cut in Xieng Ngeun after flooding

Khamphone Syvongxay

People in the chief town of Xieng Ngeun district, Luang Prabang province have lost electricity, with more than 10 villages impacted by flooding heavy rain on Tuesday.

More than 100 families along the Nam Khan River were displaced from their homes, and had to stay at schools and village clubs, even as water levels in the river began to recede yesterday.

Most of the people affected are in Xieng Ngeun, Pak Khan, Pak Vek, Moud and Sun Luang villages, local media reported.

They may be at risk of flooding again if they go back to their homes now because the weather forecast is predicting rainfall to continue throughout the rest of this week.

The floodwaters rose quickly during the day before falling again at night. About 1,000 people have been affected by the flash flooding, which has not happened in the area since many years ago.

District and provincial authorities are now

encouraging companies, government organisations and individuals to make donations to assist with flood relief, a reporter in Xieng Ngeun district, Mr Leksay Khotsay, told the *Vientiane Times* yesterday.

He said that some victims have already received clean water and dry food from the authorities, while more help is still required because the water supply is also affected.

Water levels of the Nam Khan have now receded about 7-8 metres in the district area, while in the provincial capital it has dropped 2-3 metres.

Road No 13 North in the Xieng Ngeun area in Luang Prabang province was cut off by a landslide caused by heavy rain on Wednesday. It's now open for use after the provincial transportation sector cleared it yesterday, Mr Leksay said.

Authorities could not yet estimate the number of crops affected or the number of livestock missing. They are sending technical staff to the field to collect detailed information for a report, he said.

Houses, rice stores and other residential, business,



Boys in Xieng Ngeun move their personal possessions to higher ground by boat, with flood waters reaching the roof of their house.  
—Photo Koutkeo Sengthavy

and government properties have also been damaged but there have been no deaths or injuries reported.

Local communities have encountered difficulties communicating with each other, because many roads within the district are badly damaged.

The Meteorology and Hydrology Department yesterday warned people and authorities to be aware of potential flooding and landslides after strong winds and heavy rain.

The warning applies especially to people living in Mork May and Thathom

districts of Xieng Khuang province, Horn district in Vientiane province, and Bonkhan and Vienthong districts of Boukhamxay province.

People in these areas were urged to stay up to date with weather forecasts over the next few days.

## Economic zones promote development in Laos: Govt report

Somsack Pongkhao

Laos has witnessed a lot of changes after allowing investors to develop special and specific economic zones (SEZs) to accelerate economic growth, according to a report at an SEZ meeting in Vientiane on Thursday.

So far the government has approved the establishment of 10 SEZs, of which eight are specific economic zones.

The zones have resulted in the construction of new buildings and roads as well as the establishment of electricity and water supplies, communication systems and other facilities, generating a lot of development in rural areas of Laos.

By 2020, the government expected to build about 25 SEZs as a way to create incentives to attract foreign investment in Laos.

Yesterday's meeting aimed to review the progress of the implementation of the

planned and approved SEZ projects over the past six months, and set a plan for the last six months of this year.

The meeting was chaired by Deputy Prime Minister and President of the Lao National Committee for Special Economic Zones (NCSEZ), Mr Somsavat Lengsavad and attended by high-ranking officials from line ministries and the provinces.

Minister to the Government Office and Vice President of the NCSEZ Ms Bounpheng Mounphosay released a report at the meeting about the progress of SEZ implementation in Laos.

She said over the past six months of this year, the NCSEZ has made numerous achievements, including drafting an SEZ law and preparing to open meetings in northern, central and southern parts of Laos.

The meetings will be held to collect opinions from local authorities and ensure the

comprehensiveness of the law, before submitting it to the government and National Assembly at the end of this year.

The law aims to facilitate further SEZ development in Laos and generate job opportunities for Lao people, in order to alleviate poverty.

The NCSEZ committee has already completed the formulation of a national strategy for SEZ development for the period from 2011-2020, which was approved at the government meeting in June.

The committee has developed a computer programme for use in the zones to monitor investment activities and tax collection in the zones. The programme is now being used at pilot projects in various SEZs throughout the country.

During the meeting, participants gave opinions and sought ways to address

CONTINUED PAGE 3

## Govt increases allowances for vocational students

Phaisythong Chandra

The government will this year provide a new monthly allowance of between 196,000 and 280,000 kip to disadvantaged students who come from poor families, who have registered to study in specific subjects at vocational training colleges or schools around the country.

This will replace the 70,000 kip monthly allowance provided last year after officials saw that the

amount was not sufficient for their daily expenses and so did not attract enough students. This is why the government announced the increase, a senior education official advised.

The Ministry of Education and Sports' Technical and Vocational Education Department Director General, Mr Noupahm Ousa, told the *Vientiane Times* on Wednesday that the new allowance will be provided to

CONTINUED PAGE 2



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Date of FFG produc 08/08/2012 00:00 UTC time

1hour Flash Flood Guidance in Lao				3hour Flash Flood Guidance in Lao			
Provinces	Districts	Villages	FFG Value	Provinces	Districts	Villages	FFG Value
Bolikhamxay	Pakkading	NAMDEUA	23.1	Phongsaly	Phongsaly	NAMXA	45.3
Bolikhamxay	Pakkading	NAKHEUA NOK	23.1	Phongsaly	Phongsaly	KIOU	45.3
Bolikhamxay	Pakkading	NAKHEUA NAY	23.1	Phongsaly	Phongsaly	HOUAYLOU	45.3
Bolikhamxay	Pakkading	NAHIN	23.1	Phongsaly	May	HOUAYSONG TAI	35.02
Bolikhamxay	Pakkading	THONGHURB	23.1	Phongsaly	May	HOUAYSONG NEU	35.02
Bolikhamxay	Pakkading	NABOY	23.1	Phongsaly	May	HOUAYVIK NEUA	35.02
Bolikhamxay	Pakkading	NAMKHOU	20.77	Phongsaly	May	HOUAYVIK TAI	35.02
Bolikhamxay	Pakkading	THONGNAMI	20.77	Phongsaly	May	NAMNGA	35.02
Khammuane	Hinboon	PHON THONG	21.8	Phongsaly	May	NAMKHAM	35.02
Khammuane	Hinboon	KHOUN NGEUN	21.8	Phongsaly	May	OMKANENG	35.02
Khammuane	Hinboon	KHOUN KHAM	21.8	Phongsaly	May	HOUAYVANGSOU	35.02
Khammuane	Hinboon	NAM SA NAM	21.8	Phongsaly	May	HOUAY OUN	35.02
Khammuane	Hinboon	THAM TAME	21.8	Phongsaly	May	PONGHY	35.02
Khammuane	Hinboon	NA KHAM	21.8	Phongsaly	May	TINTOK	35.02
Khammuane	Hinboon	VANG TA KHON	21.8	Phongsaly	May	OMPALONG	35.02
				Phongsaly	May	PONGHY	35.02
				Phongsaly	May	TANLOTONG	35.02
				Phongsaly	May	HOUAYVANGKANK	35.02
				Phongsaly	May	NANGEUN	35.02
				Phongsaly	May	POUNGKHAO	35.02
				Phongsaly	May	VANG KAO	35.02
				Phongsaly	May	OMTAEUM	35.02
				Phongsaly	May	NALOUANG	48.26
				Phongsaly	May	VONGTOU	48.26
				Phongsaly	khua	CHAN MAI	36.6
				Phongsaly	khua	PHIA	32.69
				Phongsaly	khua	SENKHAM	44.15
				Phongsaly	khua	NAMMA NEUA	44.15
				Phongsaly	khua	RONGLEUK	44.15
				Phongsaly	khua	PHICHEU KAO	44.15
				Phongsaly	khua	PHICHEU MAI	44.15
				Phongsaly	khua	SENKHAM NEUA	44.15
				Phongsaly	khua	HOUAYLA	44.15
				Phongsaly	khua	KOKPHAO	44.15
				Phongsaly	khua	LATVAN	36.6
				Phongsaly	khua	HOUAYPOUNG	36.6
				Phongsaly	khua	MOKPHEAK	36.6
				Phongsaly	khua	HOUAYTHONG	36.6
				Phongsaly	khua	HOUAYPHIENG	36.6
				Phongsaly	khua	THONGSET	36.6
				Phongsaly	khua	TAMLOUY	36.6
				Phongsaly	Bounneua	MAILONGTHONG	46.91
				Phongsaly	Bounneua	NALEU EU	46.91
				Phongsaly	Bounneua	PHOUMOUNG	46.91
				Phongsaly	Bounneua	HOUAYPONG	46.91
				Phongsaly	Bounneua	PHANNIOU	46.91
				Phongsaly	Bounneua	PHOUXA	46.91
				Phongsaly	Bounneua	KIMKO	46.91
				Phongsaly	Nhot ou	TAKOUXANG	47.58
				Phongsaly	Nhot ou	PACHEOLIN	47.58
				Phongsaly	Nhot ou	PEULAOXOU KAO	47.58
				Phongsaly	Nhot ou	LAO PHOU CHAY	47.58
				Phongsaly	Nhot ou	PEULAOXOU MAI	47.58
				Oudomxay	Xay	YAO NOY	42.61
				Oudomxay	Xay	VANGDEUNG	42.61
				Oudomxay	Xay	HOUAYTAM	47.49



Oudomxay	La	PHOUSATHI	44.15
Oudomxay	La	PHONXAI	44.15
Oudomxay	La	NAMMA	47.49
Oudomxay	La	HOUAYTHONG	47.49
Oudomxay	La	MOKTOK	47.49
Oudomxay	La	MOKSONG	47.49
Oudomxay	La	TANGNGEUY	47.49
Oudomxay	La	TATMOUANE	47.49
Oudomxay	La	BANMAI	47.49
Oudomxay	La	PHAVI	47.49
Oudomxay	La	NAKHOM	47.49
Oudomxay	La	PHONXAI	36.6
Oudomxay	La	TALOLOM	36.6
Oudomxay	La	HOUAYXANG	36.6
Oudomxay	La	KAY TAI	36.6
Oudomxay	La	KAY NEUA	36.6
Oudomxay	La	LAOVANG	36.6
Oudomxay	La	SENLOUANG	36.6
Luangprabang	Xieng ngeun	NAMLIN	37.45
Luangprabang	Xieng ngeun	NONGPA	37.45
Luangprabang	Xieng ngeun	NALENG	37.45
Luangprabang	Xieng ngeun	PAKSANAM	37.45
Luangprabang	Nan	PHANIP	37.45
Luangprabang	Nan	KHORNLONG	37.45
Luangprabang	Nan	PADONG	37.45
Luangprabang	Nan	NAMOUANG GNAI	37.45
Luangprabang	Nan	NAMOUANG KANG	37.45
Luangprabang	Nan	PONGDEUA	37.45
Luangprabang	Nan	HOUAYLATH	37.45
Luangprabang	Nan	DAN	37.45
Luangprabang	Nan	HOUAYHOY	37.45
Luangprabang	Nan	NAMPHAK	37.45
Luangprabang	Nan	HOUAYME	37.45
Luangprabang	Nan	HOUAYLONG	37.45
Luangprabang	Nan	SISAATH	37.45
Luangprabang	Nan	PHOKHAM	42.72
Luangprabang	Nan	PAKLAN	42.72
Luangprabang	Nan	PHONXAY	42.72
Luangprabang	Nan	HOUAYTHIP	42.72
Luangprabang	Nan	HOUAYXI	42.72
Luangprabang	Nan	PHONSANA	42.72
Luangprabang	Nan	HOUAYPHAKNAO	42.72
Luangprabang	Nan	PHONTHONG	42.72
Luangprabang	Nan	HOUAYHIA	42.72
Luangprabang	Nambak	MOKKOK	40.45
Luangprabang	Nambak	SAENSI	40.45
Luangprabang	Nambak	SAENKHAM	40.45
Luangprabang	Ngoi	BOUMKOR	46.31
Luangprabang	Ngoi	KOBOUA	46.31
Luangprabang	Ngoi	KIOUHIN	46.31
Luangprabang	Ngoi	PHONXAY	46.31
Luangprabang	Ngoi	PHOUVIENG	46.15
Luangprabang	Ngoi	POUNGFA	41.44
Luangprabang	Ngoi	NAMBONG	41.44
Luangprabang	Ngoi	NAM-ER	41.44
Luangprabang	Ngoi	MAI	40.45
Luangprabang	Ngoi	PHADONG	40.45
Luangprabang	Ngoi	HATKHAAM	40.45
Luangprabang	Ngoi	PHONEXAI	41.44

## Annex 1.7 Bangkok Post, Isan on flood alert as Mekong level surges, Thailand, 10 August 2012

Bangkok Post article

Page 1


The world's window on Thailand

WEATHER

### Isan on flood alert as Mekong level surges

Published: 14/08/2012 at 01:38 AM  
Newspaper section: [News](#)

Northeastern provinces have stepped up flood surveillance and preparedness after the water level in the Mekong River rose sharply due to heavy rainfall over recent days.

Nakhon Phanom Meteorological Centre yesterday issued a flood warning to residents, especially those living along the banks of the Mekong River and its tributaries, after the water level in the river rose to 10 metres, nearing its crisis level of 13 metres.

The repeated rainfall over the past four days was triggered by a low pressure ridge covering Laos and Vietnam and the southwest monsoon.

If the water level reaches its crisis point, farmland and residential areas along Mekong tributaries would be at risk of flooding because the water would not be able to flow into the Mekong River, Nakhon Phanom governor Anukul Tangkananukulchai said.

Some farmland on the banks of the Songkhram River has already been inundated, he said.

However, the governor added, the situation should not be as critical as last year because major dams in the northeast still have additional capacity to take on water.

The Royal Irrigation Department said major dams in the Northeast stand at 25-49% of capacity.

In Nakhon Ratchasima province, workers and heavy machines were mobilised to clean up waterways which connect to Lam Phra Ploeng reservoir in Pak Thong Chai district in case the reservoir needs to release water.

The province was hit by a major flood in 2010 with slow water drainage caused by clogged waterways partly to blame.

The water level of the Lam Phra Ploeng reservoir was at 19% of storage capacity yesterday, while other dams and reservoirs in the province had an average storage level of about 36%.

The Disaster Mitigation and Prevention Department yesterday reported that flooding in Mae Hong Son, Tak, Phayao, and Nan provinces had eased. Disaster relief teams had been sent to clean up villages and repair damaged roads and bridges.

Mae Hong Son governor Narumon Palwat conducted an aerial survey of the flood-hit areas in the tourist district of Pai and found some roads and waterways had been cut off by rocks and mud brought down from the mountain by torrential rains. A southwest monsoon triggered torrential rains that soaked the northern provinces, including Mae Hong Son, between Aug 9 and 12.

In Tak province, authorities found a building at Mae Kun Sam Tha school had subsided after the flooding. Students will study at a shelter at a nearby temple until repairs are complete.



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Writer: [Post Reporters](#)  
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20/08/2012 11:08:39 AM

Date of FFG products 10/08/2012 00:00 UTC time

1hour Flash Flood Guidance in Thailand			3hour Flash Flood Guidance in Thailand		
Provinces	Districts	FFG Value	Provinces	Districts	FFG Value
Nan	King Amphoe Song K	21.76	Nan	Thung Chang	47.52
			Nan	King Amphoe Song k	38.47



## Annex 1.8 Viet Nam New, Tropical storm Kai Tak death toll climbs to 27, Viet Nam, 17 August 2012

Monday August 20, 2012

### NATIONAL

http://vietnamnews.vn.net.vn Viet Nam News 3

## Dioxin cleaned up at Phù Cát airbase

**BÌNH ĐỊNH**— Work to remove soil contaminated by dioxin has been completed at Phù Cát airbase in central Bình Định Province under a project organised by the Office of the National Steering Committee on Overcoming the Consequences of Toxic Chemicals used by the US during the war in Viet Nam, and the United Nations Development Programme (UNDP).

The landfill is part of a US\$5 million UNDP and Global Environment Facility project named "Environmental Remediation of Dioxin Contaminated Hotspots in Viet Nam", launched in July 2010 and implemented by the Ministry of Natural Resources and Environment in close co-operation with the Ministry of National Defence.

Associate Professor Lê Kế Sơn, director of the project, said the landfill was completed in full compliance with national regulations and met international standards. With the closing of the landfill, the risk of dioxin exposure to the environment and local population had been eliminated.

"Phù Cát airbase has been removed from the list of three dioxin hotspots in Viet Nam. Dioxin is no longer leaking from the site and dioxin will no longer have an impact on the environment and people living in the surrounding area," he said.

Along with dioxin remediation at Phù Cát airbase, dioxin contaminated sites in Đà Nẵng will also be remediated before 2016 using thermal desorption technology with funding from the US Government.

For Biên Hòa airport, a master remediation plan is expected to be completed and approved by the Prime Minister this year. Officials estimate that at least 200,000 cubic metres of contaminated soil remained at these three hotspots.

Colonel Trần Thành Công, an official from the Ministry of National Defence's Department of Science, Technology and Environment, said the project had proven the determination of the Government of Viet Nam, the efforts of local organisations, and attention and support from international communities in completing remediation of Agent Orange contaminated areas.

The landfill is just one of a series of assignments to be completed towards complete environmental remediation in particular and overcoming toxic chemicals in Viet Nam after the war in general, he said.

"The landfill marks good progress for us along the path to overcoming toxic chemicals in the country after the war," he said. — VNS

## City to subsidise education for poor

**HCM CITY** — The HCM City People's Council has approved the municipal administration's proposal to issue several support policies for poor and nearly poor households in the 2012-2015 period.

These include specific regulations on education support for the 2012-2013 academic year.

The city expects to spend VND16.19 billion (US\$770,000) in implementing a policy that exempts or reduces school fees for city pupils who are taking "second shift" classes held in the afternoons. This shift has three 45-minute study periods per day, six days a week, as opposed to the "first shift" that

will have five study periods.

The city also plans to subsidise 50 per cent of tuition fees for students from poor households whose average income is between VND10-12 million (\$476,000-571,000) per person per year, and 100 per cent of the fees for students from households with incomes below VND10 million per person per year.

A total of 1,500 students are expected to be supported with VND4 billion (\$190,000).

The city will also support poor workers to learn English before going to work overseas. Another programme will provide vocational training support for poor workers from the city's 17 districts. — VNS

## Top lawmaker seeks...

FROM PAGE 1

The project aims to create favourable conditions for NA deputies and people's council members to express their confidence about key posts on

behalf of all voters. This is expected to enhance the responsibilities of those people.

The project will be presented to the NA's fourth meeting session by the end of this year. — VNS

## Tropical Storm Kai Tak death toll climbs to 27



A 10m-deep and 50m-wide hole suddenly appeared on a stretch of Lê Văn Lương Street in Hà Nội, after three days of heavy rains caused by Tropical Storm Kai Tak. The storm hit northern Viet Nam on Friday, claiming 27 lives and injuring at least 15 others. — VNA/VNS Photo

**HÀ NỘI** — By yesterday morning, up to 27 people lost their lives and some 15 others were reported missing or injured after tropical storm Kai Tak hit northern Viet Nam last Friday, according to the National Committee for Search and Rescue.

The storm also destroyed 116 houses and ripped the roofs from nearly 6,000 houses. It submerged nearly 23,000ha of rice and subsidiary crops and more than 1,300ha of aquaculture products. Landslides occurred in some 900km of national and provincial highways in Phú Thọ, Lào Cai and Hà Giang provinces.

Mountainous northern Yên Bái Province was the hardest-hit province, with five deaths, one missing and nine injured. Nearly 6,800 houses were damaged or destroyed when the storm swept through the province.

On Saturday, the National Committee for Search and Rescue successfully found a fishing vessel from central Bình Định Province with seven fishermen on board, which was floating offshore due to technical problems, and pulled it to a safe area. The centre also rescued another vessel from central Quảng Bình Prov-

ince with six fishermen on board yesterday.

The National Centre for Hydro-Meteorological Forecasting said that although the storm, the fifth of its kind in the East Sea this year, has weakened into a low pressure system and is dissipating, it will nevertheless continue to cause heavy rain during the next few days. Localities are advised to provide updated information to residents and make emergency preparations in advance. Flash floods and landslides may occur in northern mountainous areas.

Meanwhile, Electricity of Viet Nam is working on repairing the electric grids and transformer stations damaged by the storm. Hydro-power plants' reservoirs are under control and ready to release water to ensure safety for the lowlands. — VNS

## Imported fruit to be quarantined

**HÀ NỘI** — Starting in September, fresh fruit, plants and plant products will be kept in quarantine before being imported to Viet Nam, according to a new circular launched by the Ministry of Agriculture and Rural Development.

Circular 39 stipulates a list of plants to be analysed for chemical contamination, crop failure and disease before being imported. These include fresh fruit and seeds, cultivated plants, and some kinds of wood.

Deputy Minister of Agriculture and Rural Development Bùi Bá Bổng said that plants which have new

origins or are imported to Viet Nam for the first time must undergo analysis.

Imported plants found to have risks of diseases or crop failure or bear warnings about chemical risks from export countries would also be required to be analysed in Viet Nam, he said.

The ministry reserved the right of exempting plants from analysis when necessary, he said.

The move was made after the ministry inspected 104 samples of foreign fruits and vegetables on sale at the markets last month.

The tests found that pesticide residues in samples of

three kinds of Chinese fruits and vegetables were much higher than local limits. Two samples of Chinese grapes had difenoconazole residues 3-5 times higher than safety standards.

Recently, Chinese grapes were reportedly imported from China over the Lào Cai border, labeled as American grapes and sold for VND20,000-40,000 (\$0.9-1.9) per kilo.

American grapes are commonly priced at VND90,000-100,000 (\$4.2-4.7) per kilo.

Nguyễn Ngọc Hạnh, a housewife in Hà Nội's Bạch Mai Street, said she only

bought fruit she knew were domestically produced such as bananas, grapefruits, oranges and avocado.

"Imported fruit must travel a long way to get to Viet Nam. I think they must add chemicals to preserve the fruit better. I prefer it fresh," she said.

The circular takes effect on September 27.

Previously, imported fruits were only required to have quarantine certificates granted by the ministry's Post-Entry Quarantine Center 2, which did not include any analysis of pesticide residues or damage from toxic or banned chemicals. — VNS

### BRIEFS

#### Tunnel collapse kills two in Nghe An

**NGHỆ AN** — A tunnel collapse yesterday afternoon at the Nam Pong hydroelectric facility in the central province of Nghệ An's Quỳnh Châu District left two dead and five seriously injured, according to initial counts.

The injured were reported to include foreign nationals. All were hospitalised at Quỳnh Châu General Hospital, about 15km from the facility by forest road.

A landslide explosion was believed to be the reason of the collapse, but local authorities are further investigating.

#### Food poisoning outbreak in Highlands

**LÂM ĐỒNG** — Food poisoning symptoms required 25 people in the Central Highlands province of Lâm Đồng's Đức Trọng District to be hospitalised yesterday evening.

The first cases of an apparent food poisoning outbreak came to the centre on Saturday, with symptoms of vomiting, severe abdominal pains, acute diarrhoea and high fever. All reported buying products from a bakery in Liên Nghĩa township.

A similar case occurred in the township about a month ago, with 20 people hospitalised for food poisoning after buying products from another local bakery.

#### Journey helps pay for educational materials

**HCM CITY** — Canon Viet Nam has implemented a "Help with love" journey from the north to the south, donating educational materials to a total of 10 primary, secondary and high schools in poor provinces.

The total value of donated presents this year is VND800 million.

The donated materials include textbooks to library, school bags for young pupils and teachers and valuable equipment such as cassette players, personal computers and printers. — VNS

Date of FFG products 17/08/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Son La	TX. Son La	13.76	Ha Giang	Hoang Su Phi	48.65
Son La	Thuan Chau	16.68	Ha Giang	Vi Xuyen	48.65
Son La	Mai Son	16.68	Ha Giang	Xin Man	48.65
Son La	Song Ma	18.14	Lao Cai	Bat Xat	35.10
Hoa Binh	Ky Son	12.95	Lao Cai	Sa Pa	45.95
Nghe An	Que Phong	20.97	Lao Cai	Than Uyen	47.17
Nghe An	Tuong Duong	15.33	Lai Chau	Muong Te	46.52
Nghe An	Con Cuong	19.35	Lai Chau	Phong Tho	37.51
Nghe An	Anh Son	21.45	Lai Chau	Sin Ho	45.66
Nghe An	Thanh Chuong	20.99	Lai Chau	Muong Lay	45.80
			Lai Chau	Dien Bien Dong	44.13
			Son La	TX. Son La	20.32
			Son La	Thuan Chau	29.90
			Son La	Mai Son	23.83
			Son La	Song Ma	35.48
			Hoa Binh	Ky Son	22.87
			Thanh Hoa	Muong Lat	48.01
			Thanh Hoa	Quan Son	42.51
			Thanh Hoa	Lang Chanh	35.99
			Thanh Hoa	Thuong Xuan	35.99
			Nghe An	Que Phong	37.67
			Nghe An	Quy Chau	47.44
			Nghe An	Tuong Duong	34.58
			Nghe An	Con Cuong	35.70
			Nghe An	Anh Son	35.92
			Nghe An	Thanh Chuong	30.79



## Annex 1.9 Vientiane Times, Northern provinces struggle after heavy rain, landslides, Lao PDR, 20 August 2012

2 | Thursday August 23, 2012

Vientiane Times

### Home news

## Northern provinces struggle after heavy rain, landslides

Khamphone Syvongxay

Laos' northern provinces are struggling with the after effects of heavy rain and landslides caused by Typhoon Kai-Tax over the weekend.

Many roads and some access bridges are destroyed or impassable, while heavy rain has affected farmers' rice and sweetcorn crops, and livestock in different areas across the north, especially Oudomxay, Xiang Khuan, Luang Namtha, according to local authorities' reports.

Torrential rainfall continues to hamper local farmers, and trading is impossible because blocked roads mean locals can't travel.

Most of those affected in Oudomxay are in Xay, Nya, La, and some in Baeng districts, the provincial Agriculture and Forestry Department reported

to *Vientiane Times* yesterday.

The total damage caused won't be known until district authorities report their estimations to the department.

There are no reported deaths or injuries but people should be aware and careful of further flooding and landslides, the department warned.

Heavy rain poured down for four hours between Friday night and Saturday morning in Xay district town, district authority Mr Sivisay Bounsavath said.

Many irrigation systems, rice, and other commercial crops were destroyed by landslides, but the district is waiting for more information from technical staff after they visited the fields over the last few days, he said.

"We were caught by heavy rain and landslides quite suddenly, and this time it was

much more severe than we've seen for many years," Mr Sivisay said.

The main road from the district town to the Phonhom village area, which is around 20 kilometres, can't be accessed by car because two bridges on the road are damaged.

There are other local roads affected, but some national roads were cleared as a matter of urgency to re-establish communication.

Roads still remaining blocked will be cleared in orders of priority. Excavation machines are on standby at sites considered susceptible to another landslide.

However, isolated showers and heavy rains will continue to fall in many areas of every part of Laos according to the Meteorology and Hydrology Department.



Public security personnel have brought in 177 new motorcycles to escort the leaders' convoys at the upcoming ASEM Summit in Vientiane.

## Bigger police bikes brought in to boost security

Soukniundon Southivongnorath

Traffic police and other officials from the Ministry of Public Security are set to receive much more powerful motorcycles, in a bid to beef up security ahead of the ASEM Summit in November.

More than 170 Honda ST 1300cc road bikes and lightweight CBR250cc motorcycles have been brought in through the Honda New Chip Xeng Group company, for traffic and headquarters police to use during the meeting.

Over 70 police gathered in Vientiane recently for a practical training course on the new motorcycles they will be riding in order to provide security during the Asia-Europe Meeting (ASEM) in Vientiane this November.

Honda New Chip Xeng's Vice President Saneu Chounramany said these are the most modern and fastest motorcycles ever used for security in Laos.

Police from the Traffic Department and the Central Security Police Headquarters were given training on how to ride the larger and more powerful motorbikes, which will be employed in the security convoys protecting the visiting leaders.

The government picked these vehicles for their quality and ability to guarantee security,

so long as officials are taught how best to use them, Mr Saneu said.

"The ST 1300cc road bikes are high speed, heavy and modern, and the police need to know how to control them in the right way. So we brought in experts from a Thai Honda company to train them," he explained.

The new bikes represent an upgrade on the 750cc bikes normally used by security forces in Laos.

A representative from the Central Security Police Headquarters, Major Phayvanh Viyalath, said he had plenty of experience with the 750cc motorcycles, but not this new batch.

However, he was confident they would be up to speed with the new bikes fairly rapidly. "We won't spend much time to familiarise ourselves with the new vehicles, and it won't be too hard to learn the new system," he said.

The training course will take two days to complete, and include both practical and theoretical elements.

According to one of the training specialists, there will be 50 motorcycles in use and 127 of the larger ST 1300cc road bikes. Four of the bigger bikes will be used to secure the vehicle of each leader, while the smaller CBR 250's will be used to clear the roads of traffic.



The public works and transport sector clear a road after a landslide in northern Laos.

### A unique French language magazine

Le Rénovateur is a weekly magazine of general information written in French and discussing current events in Laos. Readers will find it different from other newspapers and can enjoy news about culture, consult their horoscope and find out about radio and TV programmes, as well as check on current movies at the French Language Centre.

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Phongsaly	khousa	CHAN MAI	20.56	Phongsaly	May	HOUAYSONG TAI	49.04
Phongsaly	khousa	LATVAN	20.56	Phongsaly	May	HOUAYSONG NEU	49.04
Phongsaly	khousa	HOUAYPOUNG	20.56	Phongsaly	May	HOUAYVIK NEUA	49.04
Phongsaly	khousa	MOKPHEAK	20.56	Phongsaly	May	HOUAYVIK TAI	49.04
Phongsaly	khousa	HOUAYTHONG	20.56	Phongsaly	May	NAMNGA	49.04
Phongsaly	khousa	HOUAYPHIENG	20.56	Phongsaly	May	NAMKHAM	49.04
Phongsaly	khousa	THONGSET	20.56	Phongsaly	May	OMKANENG	49.04
Phongsaly	khousa	TAMLOUY	20.56	Phongsaly	May	HOUAYVANGSOU	49.04
Luangnamtha	Viengphou	NAMTIENG	22.83	Phongsaly	May	HOUAY OUN	49.04
Luangnamtha	Viengphou	LAIYANG	22.83	Phongsaly	May	PONGHY	49.04
Luangnamtha	Nalae	KAYE	22.83	Phongsaly	May	TINTOK	49.04
Luangnamtha	Nalae	KHANEUNG	22.83	Phongsaly	May	OMPALONG	49.04
Luangnamtha	Nalae	SALEUANG	22.83	Phongsaly	May	PONGHY	49.04
Luangnamtha	Nalae	MONGKHO	22.83	Phongsaly	May	TANLOTONG	49.04
Luangnamtha	Nalae	SAKRANG	22.83	Phongsaly	May	HOUAYVANGKANG	49.04
Luangnamtha	Nalae	NEUNGPHET	22.83	Phongsaly	May	NANGEUN	49.04
Oudomxay	Xay	YAO NOY	23.13	Phongsaly	May	POUNGKHAO	49.04
Oudomxay	Xay	VANGDEUNG	23.13	Phongsaly	May	VANG KAO	49.04
Oudomxay	La	PHONXAI	20.56	Phongsaly	May	OMTALEUM	49.04
Oudomxay	La	TALLOM	20.56	Phongsaly	khousa	CHAN MAI	27.98
Oudomxay	La	HOUAYXANG	20.56	Phongsaly	khousa	PHIA	39.36
Oudomxay	La	KAY TAI	20.56	Phongsaly	khousa	LAOLY	47.78
Oudomxay	La	KAY NEUA	20.56	Phongsaly	khousa	SENKHAM	41.84
Oudomxay	La	LAOVANG	20.56	Phongsaly	khousa	LYSOU	47.78
Oudomxay	La	SENLOUANG	20.56	Phongsaly	khousa	SANAMCHEP	47.78
Bokeo	Meung	NAMMEUNG	19.83	Phongsaly	khousa	KATANGKALA	46.92
Bokeo	Meung	HUANA	19.83	Phongsaly	khousa	CHALAKAO	46.92
Bokeo	Meung	MOUANG KANG	19.83	Phongsaly	khousa	SANTONCHONG	46.92
Bokeo	Meung	TORLAE	19.83	Phongsaly	khousa	NAMMA NEUA	41.84
Bokeo	Meung	CHAKHA	21.64	Phongsaly	khousa	RONGLEUK	41.84
Bokeo	Meung	CHAKOR	21.64	Phongsaly	khousa	POULOU	47.78
Bokeo	Meung	NAMKHA	19.83	Phongsaly	khousa	PHICHEU KAO	41.84
Bokeo	Pha Oudo	TAKHING	24.77	Phongsaly	khousa	PHICHEU MAI	41.84
Bokeo	Pha Oudo	TINPHA	24.77	Phongsaly	khousa	MOKKOUANG	47.78
Luangprabang	Park Ou	KOKNGIOU	20.38	Phongsaly	khousa	SENKHAM NEUA	41.84
Luangprabang	Park Ou	KANGKHUANG	20.38	Phongsaly	khousa	HOUAYLA	41.84
Luangprabang	Park Ou	HOUAYHOOM	20.38	Phongsaly	khousa	KOKPHAO	41.84
Luangprabang	Park Ou	HOUAY-OUN	20.38	Phongsaly	khousa	LATVAN	27.98
Luangprabang	Park Ou	YANANG	20.38	Phongsaly	khousa	HOUAYPOUNG	27.98
Luangprabang	Park Ou	BOUAKKHOUAY	20.38	Phongsaly	khousa	MOKPHEAK	27.98
Luangprabang	Park Ou	HOUAYPHA	20.38	Phongsaly	khousa	HOUAYTHONG	27.98
Luangprabang	Park Ou	PHAPON	20.38	Phongsaly	khousa	HOUAYPHIENG	27.98
Luangprabang	Park Ou	PHOULOY	20.38	Phongsaly	khousa	THONGSET	27.98
Luangprabang	Park Ou	HOUAYLERN	20.38	Phongsaly	khousa	TAMLOUY	27.98
Luangprabang	Nambak	MOKKOK	14.99	Phongsaly	Samphanh	LAXA KAO	46.92
Luangprabang	Nambak	SAENSI	14.99	Phongsaly	Samphanh	KONGKHOUM	46.92
Luangprabang	Nambak	SAENKHAM	14.99	Phongsaly	Samphanh	PHIALOUANG	47.78
Luangprabang	Nambak	HOUAYA	18.9	Phongsaly	Samphanh	SENLOUANG MAI	46.92
Luangprabang	Nambak	VANGHIN	18.9	Phongsaly	Samphanh	SANAMHA	47.78
Luangprabang	Nambak	NAMMONG	18.9	Phongsaly	Samphanh	YANGPA	39.18
Luangprabang	Nambak	KACHET	18.9	Phongsaly	Samphanh	CHAPHIOU NOY	39.18
Luangprabang	Nambak	MAKPHOUK	18.9	Phongsaly	Bounneua	MAILONGTHONG	45.57
Luangprabang	Nambak	CHONGCHA	18.9	Phongsaly	Bounneua	NALEU EU	45.57
Luangprabang	Nambak	CHUPHONG	18.9	Phongsaly	Bounneua	PHOUMOUNG	45.57
Luangprabang	Nambak	LAOMA	18.9	Phongsaly	Bounneua	HOUAYPONG	45.57
Luangprabang	Nambak	PHERN	18.9	Phongsaly	Bounneua	PHANNIOU	45.57



Luangprabang	Nambak	SAEN TAI	18.9	Phongsaly	Bounneua	PHOXA	45.57
Luangprabang	Nambak	HONGTOU	18.9	Phongsaly	Bounneua	KIMKO	45.57
Luangprabang	Nambak	HOUVANH	18.9	Phongsaly	Bountay	IPEUCHEUNG	39.18
Luangprabang	Nambak	HOUAYKHOUA	18.9	Phongsaly	Bountay	CHEUGNA	39.18
Luangprabang	Nambak	KIOUCHADI	18.9	Phongsaly	Bountay	SANO KAO	39.18
Luangprabang	Ngoi	BOUMKOR	24.7	Phongsaly	Bountay	NAMKOUANG	39.18
Luangprabang	Ngoi	KOBOUA	24.7	Phongsaly	Bountay	MOUCHI MAI	39.18
Luangprabang	Ngoi	KIOUHIN	24.7	Phongsaly	Bountay	CHAME	39.18
Luangprabang	Ngoi	PHONXAY	24.7	Luangnamtha	Namtha	NAMYANG	42.73
Luangprabang	Ngoi	PHOUVIENG	15.01	Luangnamtha	Namtha	NAMSA	42.73
Luangprabang	Ngoi	POUNGFA	15.44	Luangnamtha	Namtha	VIENG NEUA	42.73
Luangprabang	Ngoi	NAMBONG	15.44	Luangnamtha	Namtha	LOUANG	42.73
Luangprabang	Ngoi	NAM-ER	15.44	Luangnamtha	Namtha	KHON	42.73
Luangprabang	Ngoi	MAI	14.99	Luangnamtha	Namtha	DONKHOUN	42.73
Luangprabang	Ngoi	PHADONG	14.99	Luangnamtha	Namtha	NAMNGEN	42.73
Luangprabang	Ngoi	HATKHAAM	14.99	Luangnamtha	Namtha	PHIENGNGAM	42.73
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Luangprabang	Ngoi	PHONEKHAM	15.44	Luangnamtha	Namtha	PASAK	42.73
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Luangprabang	Ngoi	HUAYTHONGTA	15.44	Luangnamtha	Sing	MEUTO KAO	44.31
Luangprabang	Ngoi	HUAYTHONG NE	15.44	Luangnamtha	Sing	PAXANG	44.31
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Luangprabang	Ngoi	HUAYLAAN	13.97	Luangnamtha	Long	SOMPAN MAI	43.91
Luangprabang	Ngoi	LONGKHOUN	13.97	Luangnamtha	Long	MEKHONG NEUA	44.31
Luangprabang	Ngoi	CHORMYING	13.97	Luangnamtha	Long	MEKHONG TAI	44.31
Luangprabang	Ngoi	HUAYTHONG	13.97	Luangnamtha	Long	PHAKHAM	43.91
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Luangprabang	Ngoi	HUAYHOUNNOI	15.01	Luangnamtha	Long	CHAKHAMSENG N	44.92
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Luangprabang	Ngoi	TOUBNORK	12.6	Luangnamtha	Long	PALAO	48.17
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Luangprabang	Ngoi	KATANGXIENG	12.6	Luangnamtha	Long	PHATE KAO	48.17
Luangprabang	Ngoi	TOUBNAI	12.6	Luangnamtha	Long	CHAMAI	48.17
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Luangprabang	Pak xeng	PHONENGAM	12.6	Luangnamtha	Long	SENCHOUNPOU	44.92
Luangprabang	Pak xeng	NAMAI	12.6	Luangnamtha	Long	CHAKHAMSEN TAI	44.92
Luangprabang	Pak xeng	MOKPAEK	12.6	Luangnamtha	Long	HOUAYHON	43.91
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Luangprabang	Ngoi	HUAYNOT	15.01	Luangnamtha	Viengphou	NAMSEUA	35.96
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				Oudomxay	La	SENLOUANG	27.98
				Oudomxay	Namor	HOUAYXANG	44.93
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				Oudomxay	Nga	HOUAY PRONG	35.2
				Oudomxay	Nga	PAK HOUAY	35.2
				Oudomxay	Nga	PADONG	35.4
				Oudomxay	Nga	SAMPHAN MAI	35.4
				Oudomxay	Nga	NOKLAVAN	37.26
				Oudomxay	Nga	HUAYCHI	33.72
				Oudomxay	Nga	BANKHUANG	33.72
				Oudomxay	Nga	HUAY O	33.72
				Oudomxay	Nga	HUAYPHANG	33.72
				Oudomxay	Nga	PHOUVIENG	36.06
				Oudomxay	Nga	KHOKPHOU	37.26
				Oudomxay	Nga	HUAYKHAYAIYAI	37.26
				Oudomxay	Nga	MOKCHALAENG	37.26
				Oudomxay	Nga	HUAYKHAYAINOI	37.26
				Oudomxay	Nga	MOKMIN	37.26
				Oudomxay	Nga	NAXAAN	36.06
				Oudomxay	Nga	HOUAY MO	36.06
				Oudomxay	Nga	PHOUSOUNGYAI	33.72



Oudomxay	Nga	NAMOUANG	33.72
Oudomxay	Nga	NGONYAI	33.72
Oudomxay	Nga	NGONNOI	33.72
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Oudomxay	Hoon	KONLANG	34.94
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Oudomxay	Hoon	PHONEKHAM	34.94
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Oudomxay	Pakbeng	PING	42.1
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Oudomxay	Pakbeng	MOKKHAE	33.71
Oudomxay	Pakbeng	KHAM	42.1
Oudomxay	Pakbeng	HUAYXAENG	42.1
Oudomxay	Pakbeng	CHAENG	42.1
Oudomxay	Pakbeng	NGON	42.1
Oudomxay	Pakbeng	PHOUHONGTHEUI	42.1
Oudomxay	Pakbeng	PHOUHONGLOUN	42.1
Oudomxay	Pakbeng	TONHAI	42.1
Oudomxay	Pakbeng	MOKCHONGNOI	33.71
Bokeo	Meung	NAMMEUNG	27.16
Bokeo	Meung	HUANA	27.16
Bokeo	Meung	MOUANG KANG	27.16
Bokeo	Meung	TORLAE	27.16
Bokeo	Meung	CHAKHA	29.78
Bokeo	Meung	CHAKOR	29.78
Bokeo	Meung	NAMKHA	27.16
Bokeo	Pha Oudo	MOKXAIJ	40.16
Bokeo	Pha Oudo	KANG	35.04
Bokeo	Pha Oudo	MOKPORN	35.04
Bokeo	Pha Oudo	VIENGKHAM	40.16
Bokeo	Pha Oudo	KHOM	40.16
Bokeo	Pha Oudo	MOKSOUK	35.04
Bokeo	Pha Oudo	TAKHING	33.11
Bokeo	Pha Oudo	BONGLAOSOUNG	34.23
Bokeo	Pha Oudo	HANGDOI	34.23
Bokeo	Pha Oudo	TINPHA	33.11
Bokeo	Pha Oudo	MOKKHA KANG	35.04
Bokeo	Pha Oudo	SIBOUNHEUANG	35.04
Bokeo	Pha Oudo	PHA OU DOM	35.04
Bokeo	Pha Oudo	THINKEO NEUA	35.04
Bokeo	Pha Oudo	SAMIN	34.23
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Luangprabang	Luangprab	LONGWAY MAI	37.58
Luangprabang	Luangprab	LONGWAY KAO	37.58
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Luangprabang Xieng nge	NALENG	37.71
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Luangprabang Viengkham	NAMXAI	37.72
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Huaphanh Xamneua	SATHORN	49.08
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Huaphanh Viengthon	DORNKHOUN	37.05
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Huaphanh Viengthon	LENG	40.73
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Huaphanh Viengthon	HOUAYSANGORN	45.01
Huaphanh Viengthon	NGONE	45.01
Huaphanh Viengthon	NUOM	45.01
Huaphanh Viengthon	BOR	45.01
Huaphanh Viengthon	LONGNGOUAPA	31.60
Huaphanh Viengthon	PHOULUANG	31.60
Huaphanh Viengthon	HOUAPHOU	38.01
Huaphanh Viengthon	PHIENGDON	31.60
Huaphanh Viengthon	NAPOUAK	31.60
Huaphanh Viengthon	VIENGTHONG	31.60
Huaphanh Viengthon	NAPHONE	38.01
Huaphanh Viengthon	HOUAYMAKFAY	35.57
Huaphanh Viengthon	SAN-ONG	41.92



Huaphanh	Viengthon	NAVIENG	31.60
Huaphanh	Viengthon	NASAN	36.40
Huaphanh	Viengthon	MOUANGHIEM	31.60
Huaphanh	Viengthon	NAPHANHONG	31.60
Huaphanh	Viengthon	GNOT-HIT	31.60
Huaphanh	Viengthon	PHONXONG	40.73
Huaphanh	Viengthon	NGAO	44.80
Huaphanh	Viengthon	NAHAY	45.01
Huaphanh	Viengthon	PACHATH	39.44
Huaphanh	Viengthon	PAKHA	39.44
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Huaphanh	Viengthon	BONG	39.44
Huaphanh	Viengthon	PHONSAATH	36.40
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Huaphanh	Viengthon	NAMPOUNG	36.40
Huaphanh	Viengthon	MEUA KAO	41.92
Huaphanh	Viengthon	NGAO	44.80
Huaphanh	Viengthon	CH AK	41.92
Huaphanh	Viengthon	HUAYSA	36.40
Huaphanh	Huameuang	SOBLAP	41.19
Huaphanh	Huameuang	HOMTHONG	41.19
Huaphanh	Huameuang	NAMTAN	41.19
Huaphanh	Huameuang	NAPHIENG	41.19
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Huaphanh	Huameuang	KADAENG	38.32
Huaphanh	Huameuang	VANGMOR	41.19
Huaphanh	Huameuang	PHIENGDI	41.19
Huaphanh	Xamtay	NAXANG	40.36
Huaphanh	Xamtay	HANG	36.34
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Huaphanh	Xamtay	NATOG	36.34
Huaphanh	Xamtay	XANGPHOU	40.36
Huaphanh	Xamtay	PAKHOM	44.67
Huaphanh	Xamtay	NAXEO	40.36
Huaphanh	Xamtay	NAMMORN	40.36
Huaphanh	Xamtay	PHAPHEUNG	44.67
Huaphanh	Xamtay	PANG NUA	44.67
Huaphanh	Xamtay	DAENDIN	37.45
Huaphanh	Xamtay	POUNGTHAK	37.45
Huaphanh	Xamtay	XIENGPAN	46.87
Huaphanh	Xamtay	BOK	46.87
Huaphanh	Xamtay	HINTANG	46.87
Huaphanh	Xamtay	HOUAYKHAY	46.87
Huaphanh	Xamtay	NAPHADAENG	37.45
Huaphanh	Xamtay	NONGLAO	37.45
Huaphanh	Xamtay	HOUAY-EIRK	37.45
Huaphanh	Xamtay	HOUAYSAMATH	37.45
Huaphanh	Xamtay	VANGHIN	37.45
Huaphanh	Xamtay	POUNGSIENG	37.45
Huaphanh	Xamtay	NAVIN	37.45
Huaphanh	Xamtay	NANGOM	37.45
Huaphanh	Xamtay	THAMKHOUANG	37.45
Huaphanh	Xamtay	TANGSAOH	37.45
Huaphanh	Xamtay	NAKOMEU	37.45
Huaphanh	Xamtay	HOUAYNGOUA	37.45
Huaphanh	Xamtay	POUNGWAI	37.45
Huaphanh	Xamtay	KEOKOUT	37.45

Huaphanh	Xamtay	PHADAENG TAI	37.45
Huaphanh	Xamtay	PHADAENG NEUA	37.45
Huaphanh	Xamtay	HOUAYXAY	37.45
Huaphanh	Xamtay	HOUAYPEUY	37.45
Huaphanh	Xamtay	PAKHOM	37.45
Huaphanh	Xamtay	PHAKHAO	44.67
Huaphanh	Xamtay	NONGPHOUK	36.34
Huaphanh	Xamtay	PHEUAK TAI	36.34
Huaphanh	Xamtay	PHOUKERN	36.34
Xayaboury	Hongsa	VIENGKEO	40.02

## **Annex 1.10 Vietnam Net, 5 dead, 5 mission after flash flood, Viet Nam, 31 August 2012**

<http://english.vietnamnet.vn/fms/society/26446/5-dead-5-missing-after-fl...>

### **5 dead, 5 missing after flash flood**

*At least five people were killed and five others remain missing after a flash flood triggered by torrential rains swept through northern mountainous Lao Cai Province's Nam Luc Commune on August 31.*



Deputy Chief of the Bac Ha District's People's Committee Office Dang Van Khoa said that by yesterday afternoon, rescue teams had found the bodies of only five victims.

"We are trying to seek the rest deep in the pile of land, soil, cement and brick. They're likely to be buried under this rubble," Khoa told Viet Nam News from the scene.

"All of the victims are local residents who were swept away with their houses at about 3.20am yesterday morning. They were still sleeping," he said.

The victims are Dao ethnic people, living in ten houses near Nam Luc Stream. All of these houses and crops were completely swept away. Ten other houses were partially destroyed.

"Luckily, the flash flood was 2 kilometres away from a primary and a secondary school. Thus, students can start their new academic year as planned," he said.



Luu Minh Hai, deputy director of the provincial Centre for Hydro-Meteorological Forecasting, said the flash flood was triggered by heavy downpours in the commune that lasted since Thursday night.

<http://english.vietnamnet.vn/fms/society/26446/5-dead-5-missing-after-fl...>

"We informed locals about the scattered rain in the province but didn't give any warnings as we couldn't estimate the water level," Hai said.

"It was a partial downpour. The sloping stream in the commune made the flow faster and stronger and caused landslides from the mountain," he said.

Currently, about 300 workers are still working at the scene. Nam Du and Nam Cham villages are still being isolated.

According to Khoa, the rescue work should be carried out faster as the northern region may experience rain in the next three days.

The province has mobilised temporary houses for families of victims and compensated families of the deceased VND3 million (US\$144). Those whose houses collapsed received VND2 million (\$96).

Heavy rains also caused landslides and blocked rail roads in the province. Nguyen Thanh Tung, representative of the Lao Cai-Yen Bai Railroad Management Unit, said about 40 cubic metres of land and soil poured onto the rail road in Bao Thang District.

Some pictures by VietNamNet at Nam Cham on August 31:





<http://english.vietnamnet.vn/fms/society/26416/society-in-brief-31-8.html>

## SOCIETY IN BRIEF 31/8

### 13 dead and missing in Lao Cai flood waters

A flash flood hit Nam Nhu hamlet, Nam Luc commune, Bac Ha district in the northern province of Lao Cai on August 31, killing four people and leaving 9 others missing.

Dang Van Khoa, an official of the Bac Ha district People's Committee, said that all 13 victims are residents of Nam Nhu hamlet.

Rescue forces have found four dead bodies, and are searching for those still missing.

Located in a remote mountainous area, Nam Thu is home to ethnic minority groups. Rough terrain and poor telecommunications links have left it increasingly vulnerable to flash floods.

### Hue gets new bridge over Perfume River

Authorities today opened a new bridge over Hue's Huong (Perfume) River.

The Bach Ho (White Tiger) Bridge is 542.5 metres long including the approach roads and 34.5 metres wide, with four lanes and sidewalks on either side.

The five-span bridge also has six viewing-towers for people to relax and enjoy the river views.

Construction of the bridge began in December 2009, and cost VND730 billion (nearly US\$35 million).

Nguyen Van Cao, chairman of the Thua Thien – Hue Province People's Committee, said the bridge would significantly contribute to the province's socio-economic development, especially tourism, and also ease traffic on the Phu Xuan Bridge, which is deteriorating after decades of operation.

### More than 1,000 receive citizenship

More than one thousand people received Vietnamese citizenship status at a ceremony in the border district of Dak Glei in Kon Tum province this morning.

Among those present were Justice Minister Ha Hung Cuong and many high ranking officials.

A representative of Kon Tum People's Committee read out State President Truong Tan Sang's decision to give citizenship to 1066 people who had been living at Dak Glei and Ngoc Hoi districts for several decades.

All had settled down before July 1, 1989, but did not hold Vietnamese citizenship status. According to a provincial representative, they all abided by Vietnamese law and wanted to become citizens. This is in accordance with Article 22 of the Citizenship Law issued in 2008.

Local authorities said the immigrants lived in 383 households and had stable lives, mingling with local inhabitant both at work and study.

### "Blue Moon" coming to Vietnam soon

Vietnamese people will have the chance to see a blue moon when it graces the night sky at 20:58 on August 31 (local time).

It is the second full moon in a month after the first one appeared on the first day of August.

However, there will be nothing particularly blue about the moon, despite its colorful name.

There will be a long wait until July 2015 to see a similar astronomical phenomenon that often occurs in a lunar leap year.

### Filipino baby born on flight, being cared for in HCM City

A Filipino baby born prematurely on a flight from the United Arab Emirates to the Philippines has been cared for in Vietnam after the plane urgently landed in Ho Chi Minh City.

The baby is the first child of a Filipino couple, Angelo Josephe Violete, and his 32-year-old wife Nedris Masahud.

They were on board Emirates Airlines flight EK332 from Dubai to Manila on August 22 when Masahud gave birth to a premature

1 of 4

02/11/2012 11:43 AM

Date of FFG products 31/08/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Lao Cai	Bat Xat	14.38	Lao Cai	Bat Xat	18.93
Lao Cai	Sa Pa	14.38	Lao Cai	Sa Pa	18.93
Lai Chau	Phong Tho	14.38	Lai Chau	Phong Tho	18.93
			Dak Lak	Dak Nong	37.33

### **Annex 1.11 People's Army Newspaper, More forces mobilized to search for flood victims, Viet Nam, 3 September 2012**

More forces mobilized to search for flood victims - People's Army News...

<http://www.qdnd.vn/qdndsite/en-US/75/205320/print/Default.aspx>

## **PEOPLE'S ARMY NEWSPAPER ONLINE**

ORGAN OF THE MILITARY CENTRAL COMMISSION AND VIETNAMESE MINISTRY OF NATIONAL DEFENSE  
THE VOICE OF THE ARMED FORCES AND PEOPLE

### **More forces mobilized to search for flood victims**

QDND - Wednesday, September 05, 2012, 20:51 (GMT+7)



PANO – The Steering Board for Flood and Storm Control and Rescue of Lao Cai province on September 4<sup>th</sup> instructed Bac Ha district to mobilize 200 local militia on the search for three victims of recent flooding in Nam Cham village, Nam Luc commune.

Over the past days, districts, communes and relevant agencies have worked with each other to quickly help local people who were affected by the flood. Besides, district and army medical forces of the Military Command of Lao Cai province provided water treatment and decontamination for local people. As of

5pm on September 4<sup>th</sup>, the search team had found seven out of ten victims.

According to the Steering Board, Bac Ha district and surrounding districts will continue mobilizing local militia and working with other provinces to find victims.

**Translated by Tran Hoai**

1442/GP - BTTTT 15-10-2009

Editor-in-Chief: Major General LE PHUC NGUYEN

Deputies Editor-in-Chief: Colonel PHAM VAN HUAN, Colonel HA MANH TUONG, Colonel NGUYEN KIM TON

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Date of FFG products 03/09/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Nghe An	Tuong Duong	18.03	Lao Cai	Bat Xat	40.85
Nghe An	Con Cuong	23.35	Lao Cai	Sa Pa	33.84
			Lao Cai	Than Uyen	35.67
			Lai Chau	Phong Tho	37.90
			Hoa Binh	Ky Son	44.18
			Nghe An	Tuong Duong	31.07
			Nghe An	Con Cuong	31.58
			Quang Binh	Minh Hoa	47.37
			Da Nang	Hoa Vang	44.45
			Quang Nam	Hien	44.45
			Quang Nam	Dai Loc	44.45
			Quang Nam	Dien Ban	35.69
			Quang Nam	Duy Xuyen	35.69
			Quang Nam	Que Son	35.69
			Dak Lak	Dak Nong	49.78
			Binh Thuan	Ham Thuan Nam	33.97
			Binh Thuan	Tanh Linh	33.97

### **Annex 1.12 People's Army Newspaper, Floods leave 12 dead, missing, injured in central region, Viet Nam, 5 September 2012**

Floods leave 12 dead, missing injured in central region- People's Army...

<http://www.qdnd.vn/qdndsite/en-US/75/205679/print/Default.aspx>

## **PEOPLE'S ARMY NEWSPAPER ONLINE**

ORGAN OF THE MILITARY CENTRAL COMMISSION AND VIETNAMESE MINISTRY OF NATIONAL DEFENSE  
THE VOICE OF THE ARMED FORCES AND PEOPLE

### **Floods leave 12 dead, missing, injured in central region**

QDND - Friday, September 07, 2012, 20:37 (GMT+7)



Photo: vnexpress

Heavy rains and floods had killed five, injured six and left one missing in central provinces by the afternoon of September 6, according to the National Committee for Search and Rescue.

Among the deaths, two were in Thanh Hoa province, two in Nghe An province and one in Ha Tinh province.

The floods have also submerged more than 1,500 houses and over 1,800 ha of crops and fruit trees. Luong Son commune in Thanh Hoa province's Thuan Xuan district has been totally isolated.

Many traffic routes in the region have been flooded. Especially, a 5-km section on National Road No. 1A from Tam Diep town

in Ninh Binh province to the area near Bim Son town, Thanh Hoa province was deep in water, causing serious traffic congestion for many hours.

The Military Zone 4 has instructed its units to implement flood prevention, search and rescue measures and coordinate with regional localities in timely solving the consequences of the natural disaster.

According to the Central Hydrometeorological Forecasting Centre, floods on rivers from Thanh Hoa to Nghe An and in the lower section of La River are rising quickly. On September 7, the water levels on rivers in Thanh Hoa are forecast to reach the warning level 1 while that in the lower section of Ca River in Nghe An may hit the warning level 2.

**Source: VNA**

1442/GP - BTMTT 15-10-2009

Editor-in-Chief: Major General LE PHUC NGUYEN

Deputies Editor-in-Chief: Colonel PHAM VAN HUAN, Colonel HA MANH TUONG, Colonel NGUYEN KIM TON

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<http://english.vietnamnet.vn/fms/society/43665/floods-claim-five-lives-in...>

### Floods claim five lives in central region

*VietNamNet Bridge – Torrential rains have caused widespread flooding in the central region, killing five local people and leaving one missing, according to the National Committee for Search and Rescue.*



Two deaths were reported in Thanh Hoa Province, two in Nghe An Province, and one in Ha Tinh Province.

Heavy downpours also submerged more than 1,500 houses, 1,833 hectares of subsidiary crops, and many sections of provincial roads.

Luong Son Commune of Thuong Xuan District, Thanh Hoa Province, was completely cut off.

Military Zone No4 worked with local administrations to deploy flood control plans and evacuate local residents to higher ground.

The National Hydro-meteorological Forecasting Centre reported that water levels of major rivers in the region are rising very quickly and are likely to exceed the first and second alert levels on September 7.

Flood-prone, low-lying and mountainous areas were warned against flash floods and landslides that could occur at any time as water-soaked soil there has already been saturated.

In an urgent telegram issued on September 6, the National Committee for Flood and Storm Control and the National Committee for Search and Rescue asked Thanh Hoa and Nghe An provinces to be well prepared for emergencies.

*VietNamNet/VOV*

Date of FFG products 05/09/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Ha Tinh	Duc Tho	16.86	Hoa Binh	Ky Son	42.48
Ha Tinh	Huong Son	18.94	Nghe An	Tuong Duong	42.57
Ha Tinh	Huong Khe	16.65	Nghe An	Con Cuong	41.98
Quang Binh	TX. Dong Hoi	22.27	Ha Tinh	Duc Tho	25.42
Quang Binh	Minh Hoa	16.22	Ha Tinh	Huong Son	27.23
Quang Binh	Bo Trach	21.88	Ha Tinh	Huong Khe	29.21
Quang Binh	Quang Ninh	22.28	Quang Binh	TX. Dong Hoi	30.90
Quang Binh	Le Thuy	16.67	Quang Binh	Tuyen Hoa	35.66
Quang Tri	Cam Lo	20.85	Quang Binh	Minh Hoa	26.98
Quang Tri	Huong Hoa	20.07	Quang Binh	Bo Trach	33.97
Quang Tri	Da Krong	18.20	Quang Binh	Quang Ninh	31.15
Thua Thien Hue	Phong Dien	15.39	Quang Binh	Le Thuy	24.53
Thua Thien Hue	Huong Tra	15.21	Quang Tri	Gio Linh	35.70
Thua Thien Hue	A Luoi	15.21	Quang Tri	Cam Lo	32.45
Da Nang	Hoa Vang	16.51	Quang Tri	Huong Hoa	30.03
Quang Nam	Hien	16.51	Quang Tri	Da Krong	28.04
Quang Nam	Dai Loc	16.51	Thua Thien Hue	Phong Dien	23.00
Quang Nam	Dien Ban	17.85	Thua Thien Hue	Huong Tra	22.49
Quang Nam	Duy Xuyen	17.85	Thua Thien Hue	Huong Thuy	33.82
Quang Nam	Que Son	17.85	Thua Thien Hue	Phu Loc	42.32
			Thua Thien Hue	A Luoi	30.75
			Thua Thien Hue	Nam Dong	39.21
			Da Nang	Hoa Vang	38.30
			Quang Nam	Hien	38.12
			Quang Nam	Dai Loc	30.28
			Quang Nam	Dien Ban	24.30
			Quang Nam	Duy Xuyen	24.30
			Quang Nam	Que Son	24.30
			Quang Nam	Hiep Duc	47.31
			Quang Nam	Phuoc Son	47.31
			Quang Nam	Tra My	47.31
			Kon Tum	Sa Thay	44.33
			Gia Lai	Chu Pah	47.05
			Gia Lai	Ia Grai	43.05
			Binh Thuan	Ham Thuan Nam	33.03
			Binh Thuan	Tanh Linh	33.03

### **Annex 1.13 Vietnam Net, Floods kill 11 in central region, Viet Nam, 6 September 2012**

<http://english.vietnamnet.vn/fms/society/43797/floods-kill-11-in-central-r...>

#### **Floods kill 11 in central region**

The recent floods in central provinces from Thanh Hoa to Ha Tinh have left 11 people dead or missing.



Heavy rains also caused water levels in rivers to increase dramatically, breaking part of a dyke. Thousands of houses and hectares of crops have been destroyed and losses are estimated to amount to thousands of billions of Vietnamese dong.

Local authorities are currently implementing urgent measures to cope with floods and ensure public safety.

According to the Thanh Hoa provincial committee for flood and storm control, as of September 7, large-scale flash floods had killed five people in the region, swept away 100 houses and submerged nearly 2,400 houses and more than 20,000 hectares of rice and subsidiary crops, with losses estimated at nearly VND640 billion.

The flood control committee said river water levels are receding and dykes are likely to be broken. Meanwhile it has also mobilized forces to be on guard around the clock and prepare the necessary equipment to deal with any emergencies.

Four people in Nghe An province are reported dead or missing and homes and crops have been destroyed due to flooding and heavy rains.

Floods and thunderstorms killed two in Ha Tinh province and inundated around 1,500 houses and 820 hectares of crops.

Ha Tinh province allowed pupils in inundated districts to stay home from school and is now working on dealing with the consequences of the flooding.

The National Steering Committee for Flood and Storm Prevention and Control has asked these provinces to closely monitor the water levels of rivers and take measures to cope with flash floods and landslides.

VOV

## Floods claim five lives in central region

Updated: 5:22PM (GMT+7), Fri, September 7, 2012



Landslides blocking National Road No. 8 to Cau Treo Border Gate in Ha Tinh province

crops and 500 ha of fruit trees have been flooded.

Heavy downpours submerged many roads and residential areas in Vinh city, Nghe An province. Remote communes Mai Son and Yen Tinh are isolated.

Tuyen Hoa district in Quang Binh province has suffered torrential rains with rainfall recorded at 303 mm in Dong Tam and 220 mm in Mai Hoa station, leading to rising water levels on the Gianh River at 0.5 metres higher than the second warning level. The floods inundated more than 300 ha of summer-autumn rice crops in some downstream communes of Gianh River and damaged several roads.

It is forecast that water levels of rivers from Thanh Hoa to Nghe An and downstream rivers in Ha Tinh province continue to rise. The provinces from Thanh Hoa to Ha Tinh are warned of possible flash flooding from the rivers and streams in low-lying areas and landslides in the mountainous areas.

The Central Steering Committee for Flood and Storm Control and the National Committee for Search and Rescue has instructed the local authorities to keep pace with the situation and to promptly deal with any problems and direct people to quickly harvest summer-autumn rice crops while paying particular attention to the effective operation of irrigation and drainage systems.

### Find this article at:

<http://en.nhandan.org.vn/cmlink/nhandan-online/homepage/society/current/floods-claim-five-lives-in-central-region-1.366435>

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Date of FFG products 06/09/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Hoa Binh	Ky Son	14.56	Hoa Binh	Ky Son	25.42
Nghe An	Que Phong	18.17	Nghe An	Que Phong	33.21
Nghe An	Quy Chau	15.97	Nghe An	Quy Chau	26.38
Nghe An	Quy Hop	15.67	Nghe An	Quy Hop	23.43
Nghe An	Tuong Duong	15.42	Nghe An	Tuong Duong	25.32
Nghe An	Con Cuong	15.62	Nghe An	Con Cuong	23.19
Nghe An	Anh Son	15.64	Nghe An	Anh Son	23.21
Nghe An	Thanh Chuong	16.71	Nghe An	Thanh Chuong	28.68
Ha Tinh	Duc Tho	18.05	Nghe An	Nam Dan	48.74
Ha Tinh	Huong Son	18.58	Ha Tinh	Duc Tho	26.52
Ha Tinh	Huong Khe	19.00	Ha Tinh	Huong Son	29.69
Quang Binh	Tuyen Hoa	23.57	Ha Tinh	Huong Khe	27.63
Quang Binh	Minh Hoa	22.27	Quang Binh	TX. Dong Hoi	38.48
Da Nang	Hoa Vang	22.56	Quang Binh	Tuyen Hoa	32.07
Quang Nam	Hien	22.56	Quang Binh	Minh Hoa	33.15
Quang Nam	Dai Loc	22.56	Quang Binh	Bo Trach	38.72
Quang Nam	Dien Ban	20.04	Quang Binh	Quang Ninh	39.64
Quang Nam	Duy Xuyen	20.04	Quang Binh	Le Thuy	33.66
Quang Nam	Que Son	20.04	Quang Tri	Gio Linh	43.45
Binh Thuan	Ham Thuan Nam	21.80	Quang Tri	Cam Lo	41.47
Binh Thuan	Tanh Linh	21.80	Quang Tri	Huong Hoa	40.43
			Quang Tri	Da Krong	42.00
			Thua Thien Hue	Phong Dien	43.63
			Thua Thien Hue	Huong Tra	44.89
			Thua Thien Hue	Huong Thuy	35.97
			Thua Thien Hue	Phu Loc	48.41
			Thua Thien Hue	A Luoi	42.91
			Thua Thien Hue	Nam Dong	44.81
			Da Nang	Hoa Vang	40.47
			Quang Nam	Hien	41.63
			Quang Nam	Dai Loc	36.71
			Quang Nam	Dien Ban	26.56
			Quang Nam	Duy Xuyen	26.56
			Quang Nam	Que Son	26.56
			Binh Thuan	Ham Thuan Nam	29.44
			Binh Thuan	Tanh Linh	29.44

### **Annex 1.14 Nation Multi Media, Ranong faces more floods, landslides, Thailand, 6 September 2012**

Ranong faces more floods, landslides - The Nation

<http://www.nationmultimedia.com/national/Ranong-faces-more-floods-land...>

floods, landslides

## **Ranong faces more floods, landslides**

Boonleun Promprathankul,  
Parinya Iamtarn

The Nation September 7, 2012 1:00 am



Large parts of Ranong province were flooded yesterday after a heavy downpour. Residents in risky zones have been told prepare for evacuation if the situation worsens.

**Large parts of Ranong province were flooded yesterday after a heavy downpour. Residents in risky zones have been told prepare for evacuation if the situation worsens.**

Ranong residents will be bracing for more floods and landslides today and tomorrow.

"We have issued warnings because our province is still under a low-pressure ridge," Ranong disaster-prevention-and-mitigation chief Chaowalit Nitarat said yesterday.

He was speaking after landslides spilled onto the Phetkasem Road in more than 10 spots.

Ranong's assistant highway chief Arthon Kuasin said the landslides came in the wake of a heavy downpour and

Ranong faces more floods, landslides - The Nation

<http://www.nationmultimedia.com/national/Ranong-faces-more-floods-lan..>

that machines had been deployed to remove the landmass from the road.

"Drivers should be careful," he said.

Flash floods have already swamped many communities in Ranong's La-un district, affecting more than 100 residents.

Colonel Chalernporn Khamkhieo, chief of the 25th Infantry Division's 2nd Battalion, said 90 soldiers had been dispatched to help flood victims.

In the North, flooding has already wreaked havoc in many areas. In Lamphun, the Mae Tha, Ban Thi, Pa Sang, Li and Thung Hua Chang districts had been declared disaster zones. Up to 40,481 people in 116 villages were inundated. Fortunately there have been no reports of casualties.

In Phitsanulok, disaster-prevention-and-mitigation chief Boonying Khumsuphan warned people in Wat Bote, Chat Trakan, Nakhon Thai, Noen Maprang and Wang Thong districts to beware of possible flash floods and mudslides.

"Run-off water is flowing down to our province and now there's heavy rain as well," he said.

The Meteorological Department forecast downpours in many zones across the country until today. Most of Bangkok and its adjacent provinces will face thundershowers and rain.

Although the rains have not flooded the capital, traffic congestion brought many major roads in Bangkok to a standstill yesterday morning.

FM 91 Traffic Pro radio station received reports of serious congestion on Vibhavadi-Rangsit, Paholyothin, Ram-Indra, Chaengwatthana, Ngamwongwan, Chaiyapruet, Ratchadaphisek, Serithai, Ramkhamhaeng, Rama IX and Srinakharin roads all morning. Traffic on several expressways such as Bang Na-Bon Kai also came to a standstill, and only began to ease in the afternoon.

The station said 49 road accidents had been reported in Bangkok and its adjacent provinces yesterday, killing two and injuring 37 others.

The weather bureau also warned boatmen to beware of rough weather in the upper part of the Gulf of Thailand and the Andaman Sea over the next couple of days.

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02/11/2012 2:39 PM

Date of FFG products 06/09/2012 18:00 UTC time

1hour Flash Flood Guidance in Thailand			3hour Flash Flood Guidance in Thailand		
Provinces	Districts	FFG Value	Provinces	Districts	FFG Value
Lampang	Ngao	16.13	Thai Island		34.27
Lampang	Wang Nua	16.13	Chaiyaphum	Nong Bua Daeng	48.89
Phayao	Muang Phayao	16.13	Phangnga	Khura Buri	34.27
			Ranong	Suk Samran	34.27
			Lampang	Ngao	23.37
			Lampang	Wang Nua	23.37
			Surat Thani	Ban Takhun	34.27
			Phayao	Muang Phayao	23.37

### **Annex 1.15 Vietnam Net, Flash floods block the road to Sa Pa, Viet Nam, 24 September 2012**

<http://english.vietnamnet.vn/fms/society/48958/flash-floods-block-the-roa...>

#### **Flash floods block the road to Sa Pa**

*VietNamNet Bridge - At about 4am on September 26, flash floods suddenly came in Ngoi Duong and Doi streams, caused severe damage in Lao Cai Province.*



Floods entered houses and washed away belongings, broke fish ponds and flooded 8ha of crops and fruit trees of three households in NamCuong Ward, Lao Cai City.

In Cam Duong commune, floods attacked the Lao Cai Traditional Medicine Hospital, damaging drugs and medical devices and submerged dozens of houses in Ngam Tran and Lang That areas. The flash floods were caused by upstream heavy rains.

Heavy rains and flash floods have eroded the two arterial roads in Lao Cai - 70 and 4D. The 4D road that connects the city of Lao Cai to Sapa and Lai Chau province, is seriously damaged.

There were nine eroded points on this road. The rock and soil volume is not great but at km124 +600 a huge rock slid from the mountain to block the road.

Sa Pa Road Maintenance Bureau had to ask for urgent assistance from the Lao Cai Road Management and Repair Co., Ltd. to use explosives to break this huge rock.

By 2pm of September 26, the 4D highway was still congested. On the two sides of the blocked point, tourist cars and trucks carrying goods to Sapa City and Lai Chau province queued for more than 3 km long.

**VietNamNet reports in pictures:**



<http://english.vietnamnet.vn/fms/society/48958/flash-floods-block-the-roa...>



Date of FFG products 24/09/2012 00:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Ha Giang	Xin Man	12.65	Ha Giang	Xin Man	18.76
Lao Cai	Bac Ha	12.65	Lao Cai	Bac Ha	18.76
Lao Cai	Bao Yen	15.27	Lao Cai	Bao Yen	22.59
Lai Chau	Muong Te	24.03	Lai Chau	TX. Lai Chau	41.61
Hoa Binh	Ky Son	19.64	Lai Chau	Muong Te	40.54
Binh Thuan	Ham Thuan Nam	22.55	Lai Chau	Sin Ho	37.81
Binh Thuan	Tanh Linh	22.55	Lai Chau	Muong Lay	37.54
			Hoa Binh	Ky Son	34.37
			Kon Tum	Sa Thay	43.65
			Gia Lai	Chu Pah	34.24
			Gia Lai	Ia Grai	36.43
			Lam Dong	TX. Bao Loc	39.29
			Lam Dong	Bao Lam	39.29
			Lam Dong	Da Huoi	39.29
			Binh Thuan	Ham Thuan Bac	39.40
			Binh Thuan	Ham Thuan Nam	34.82
			Binh Thuan	Tanh Linh	38.20
			Binh Thuan	Duc Linh	39.29

## Annex 1.16 Thanh Nien, Three dead, two missing as typhoon Gaemi hits central, Viet Nam, 6 October 2012

Vietnam latest news - Thanh Nien Daily | Three dead, two missing as typh... <http://www.thanhniennews.com/index/pages/20121008-two-dead-one-mis...>



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### Three dead, two missing as typhoon Gaemi hits central Vietnam

Last Updated: Monday, October 08, 2012 02:30:00



Typhoon Gaemi has left at least three persons dead and two another missing after striking central Vietnam Saturday night.

On Sunday morning, rescue workers in the Central Highlands province of Dak Lak found the body of **Nguyen Thi Thuy**, an 18-year-old girl, who was swept away the previous night while crossing a local stream on a bridge.

They also found the body of **Nguyen Thi Thuy**, 35, swept away while picking coffee at a local farm.

Two people from the nearby **Quang Nam Province** were still missing after a similar accident.

Also that morning, police in Da Nang recovered the body of a man in his thirties, found earlier floating in flood water. Police are working to identify the victim.

Local authorities estimated that nearly 600 houses were flooded by the typhoon's heavy rainstorms, as were 210 hectares of paddy fields and 245 hectares of gardens.

The typhoon was the seventh formed off Vietnam's coast this year. It caused massive rainfalls of between 155 mm and 318 mm across several central provinces.

Rains thinned Monday morning, but many hydropower reservoirs in the area are discharging water and river levels are still rising.

Before the typhoon arrived, 5,137 families in flood-prone areas had been evacuated to safe ground. A further 64 households were removed from dangerous areas on Sunday.

The year's sixth typhoon, Tempin, passed by Vietnam in the East Sea in late August. It had little impact on the country.

But that was just one week after typhoon Kai-Tak killed 27 people in landslides and flash floods in northern Vietnam, damaging more than 11,700 houses and flooding nearly 23,000 hectares of rice paddies.

In July, typhoon Vicente left nine others dead and missing in the north.

Pakhar, the year's first typhoon, hit Ho Chi Minh City in early April and killed two people in neighboring provinces.

Two subsequent storms, Talim and Doksuri, dissipated in the East Sea in June and caused no casualties in Vietnam.

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By Nguyen Tu, Thanh Nien News

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Date of FFG products 06/10/2012 06:00 UTC time

1hour Flash Flood Guidance in Vietnam			3hours Flash Flood Guidance in Vietnam		
Provinces	Districts	FFG value	Provinces	Districts	FFG Value
Phu Yen	Tuy Hoa	14.60	Phu Yen	Tuy Hoa	25.71
Phu Yen	Song Hinh	14.82	Phu Yen	Song Hinh	28.09
Khanh Hoa	Van Ninh	14.60	Khanh Hoa	TP. Nha Trang	39.66
Khanh Hoa	Ninh Hoa	14.82	Khanh Hoa	Van Ninh	21.01
Khanh Hoa	Cam Ranh	20.77	Khanh Hoa	Ninh Hoa	32.49
Khanh Hoa	Khanh Son	19.79	Khanh Hoa	Dien Khanh	39.66
Ninh Thuan	Ninh Son	20.20	Khanh Hoa	Cam Ranh	31.94
Ninh Thuan	Ninh Hai	21.01	Khanh Hoa	Khanh Son	32.27
Binh Thuan	Ham Thuan Bac	23.64	Dak Lak	Dak Nong	33.95
Binh Thuan	Ham Thuan Nam	22.37	Ninh Thuan	Ninh Son	28.18
Binh Thuan	Tanh Linh	19.84	Ninh Thuan	Ninh Hai	29.15
			Ninh Thuan	Ninh Phuoc	48.77
			Dong Nai	Xuan Loc	49.22
			Binh Thuan	Tuy Phong	48.77
			Binh Thuan	Ham Thuan Bac	31.87
			Binh Thuan	Ham Thuan Nam	30.37
			Binh Thuan	Tanh Linh	27.38
			Binh Thuan	Duc Linh	49.22



## Annex 2 Action Aid, Flash floods: safeguarding families in Banteay Meanchey, Cambodia, 24 September 2012

Flash floods: safeguarding families in Banteay Meanchey | ActionAid

<http://www.actionaid.org/cambodia/2012/09/flash-floods-safeguarding-fa...>

**act:onaid** End poverty together.

### Flash floods: safeguarding families in Banteay Meanchey

Monday, 24 September 2012 – 18:01



by Savann Oeum  
Cambodia team  
Communication Officer

A mother of five children, 39-year-old Long Kimleap is now in her house surrounded by the water. The floods came suddenly on 19th September 2012, in Sentepheap village in the northwest of Cambodia - near the Thailand border.

Kimleap is a mother of two ActionAid Cambodia sponsored children. She recalled the terrible night that the flash flood reached her village in Tuol Pongro Commune, Malai District, Banteay Mean Chey province, and washed away many of her essential possessions. Cooking pots, food storage containers, and farming equipment - including her animals (chickens and ducks) now she only has two cows remaining - were all lost.

*My family and I were sleeping and not aware of the flood water that came into our house until it flowed into my ear and my hair got wet. I rushed to grab my youngest child and woke my husband quickly to help me take care of our other children.*

Kimleap's family, like many others, was evacuated to the safe area near to her village. Fortunately this time the family's displacement only lasted one day and she returned home after her husband observed the flood situation had reduced slightly, though the flood water is still just underneath her house. If the water level rises again they will have to leave their house and return to the evacuation area, said Kimleap.

Three people are reported dead and around 8,600 households are heavily affected at the moment, including 2,842 households who were displaced by the flash flood. The Provincial Committee for Disaster Management (PCDM) provided this information during the coordination meeting with NGOs and other stakeholders on Friday 21st September, 2012.

Actionaid staff are currently in the affected areas distributing some immediate food relief and undertaking assessments about the immediate, medium, and longer term needs of affected families. Water levels are still high and are likely to increase in the coming days, according to community focal persons living close to the Thailand border. The PCDM have stated that water levels in Thailand are 1-2 meters above ground level and the Thai authorities plan to re-open the flood gates on 25th September.

Many parts of Banteay Mean Chey province, especially Malia, Poi Pet and O'Chrove district are currently affected by the flash floods because of days of heavy raining as well as the opening of the flood gates on the dam in Thailand. The flood has meant that many

Flash floods: safeguarding families in Banteay Meanchey | ActionAid

families are facing immediate food shortages, with no access to clean drinking water, and no sanitation - which poses a health threat from waterborne diseases. Their livelihoods are seriously affected, and they have great concern about their future.

Not only Kimleap's family is badly affected by the floods - **thousands of other villagers are running out of food and have had their homes damaged and livelihoods affected.**

*My remaining food can only feed the family for another three days. I am so worried - how can I feed my children? Will the water go down, or will more come?*



When asked how she would get through this situation without emergency support from NGOs, Kimleap said her family used to earn its income from selling labor in neighboring Thailand. However, since the flooding Thailand has closed its borders and there is no work for the family to earn money to get through this latest flood. She added that she will have to sell her few remaining possessions, and probably her cows, to have money to respond to her family's immediate needs.

**Many flood-affected women interviewed said that without emergency support from government or NGOs, they will have limited options.** Some of them will be forced to borrow money from local money lenders (*with high interest rates*) whilst others hope to be able to access money from the few micro finance institutions in their areas. Other women will sell their possessions for immediate food and tools to restore their livelihoods. Others interviewed said they will go to the local forests in search of food, and fish in the local rivers. Many women thought that their husbands will have to go to other areas in Thailand in search of opportunities to earn money for their families to survive. But they don't want them to leave as their families are currently so vulnerable, to leave them alone would add to their already heavy burden. They hope that Thailand will reopen the border soon, so they can once again sell their labor in neighboring Thailand.

Actionaid is currently working in the province in collaboration with its local partner NGO, CHRD, and has been able to provide immediate initial food supplies in some villages. This initial food relief will last for the first two weeks, to keep the family from hunger and reduce their exposure to the communicable diseases which claim the vulnerable during the first few weeks of any flood.

ActionAid and our partner CHRD responded to 192 families today with immediate food support in Sok San Village, Nimith Commune and are providing assistance to a further 71 families in 3 villages in Tuol Pongro Commune, Malia District tomorrow. Actionaid's support will be extended the following day to a further 875 families in 5 villages in O'bejuon Commune as the water levels there remain high and their existing emergency food supplies are now reducing to vulnerable levels.

Flash+floods+spark+concern+\_+National+news.jpg (JPEG Image, 1131 ...

<http://1.bp.blogspot.com/-rs88WBHjYQY/UFqBQWeOQ6I/AAAAAA...>

Flash floods spark concern | National news

<http://www.phnompenhpost.com/index.php/2012091958790/National-...>**Flash floods spark concern**

Wednesday, 19 September 2012

Phak Seangly and Thik Kaliyann



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About 1,600 families across 14 villages in Banteay Meanchey have been evacuated after heavy rains over Thailand caused flash flooding, sparking food shortage concerns in at least one community.

Poipet governor Ngor Meng Chroun said that by yesterday afternoon, 1,260 families had been evacuated. While Uk Keo Ratanak, spokesperson for Banteay Meanchey provincial hall, said six of 11 villages in Ou'Chrov district's Ou'Bei Chean commune were also flooded, with local authorities and the Red Cross assisting villagers as they continued to gauge the scale of the disaster.

"I measured the water level, and it's one metre higher than Monday's, so we are evacuating villagers with more than 10 tractors and motorbikes," said Yorn Sokha, chief of the Ou'Bei Chean village, where more than half of the village's 220 families have shifted to safer grounds.

Ou'Bei Chean villager So Savoeurn, 48, said people were now worrying about a food shortage.

"Both roads and homes are flooded... Most of villagers are workers who make money to survive one day at a time. Now [that] we are flooded, we will run out of food soon," he said.

In Siem Reap, water levels of the river have risen by about half a metre in two days. The Apsara Authority is working with Siem Reap authorities to dig three channels to re-direct water and avoid flooding in the tourist town.

Department of Water Resources and Meteorology director Noun Krisna said the heavy rains were likely to continue through Sunday.

To contact the reporters on this story: Phak Seangly and Thik Kaliyann at [newsroom@phnompenhpost.com](mailto:newsroom@phnompenhpost.com)  
With assistance from Rosa Ellen

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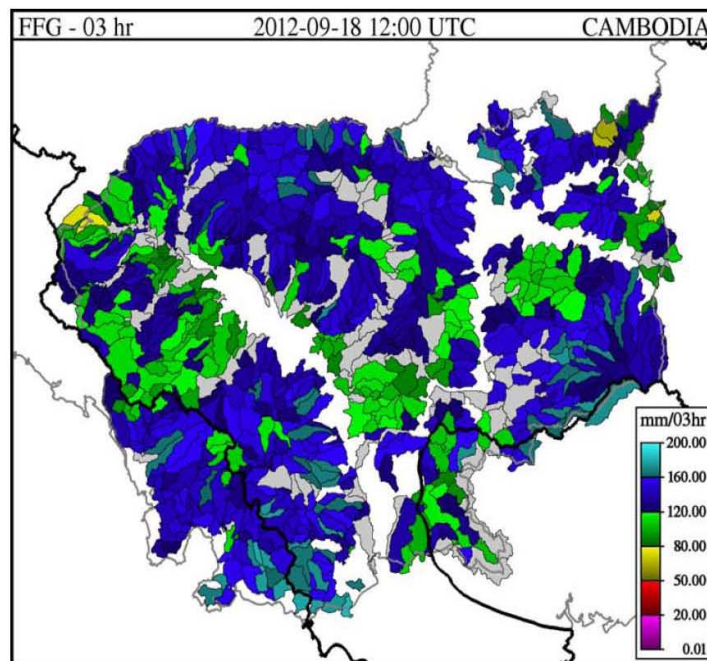


Figure 1: 3 hour FFG on 18 September 2012 at 12:00 UTC , shows that second flash flood warning level at Popet district of Bantey Meanchey province of Cambodia and surrounding areas near the Cambodia- Thai border (yellow color scale)

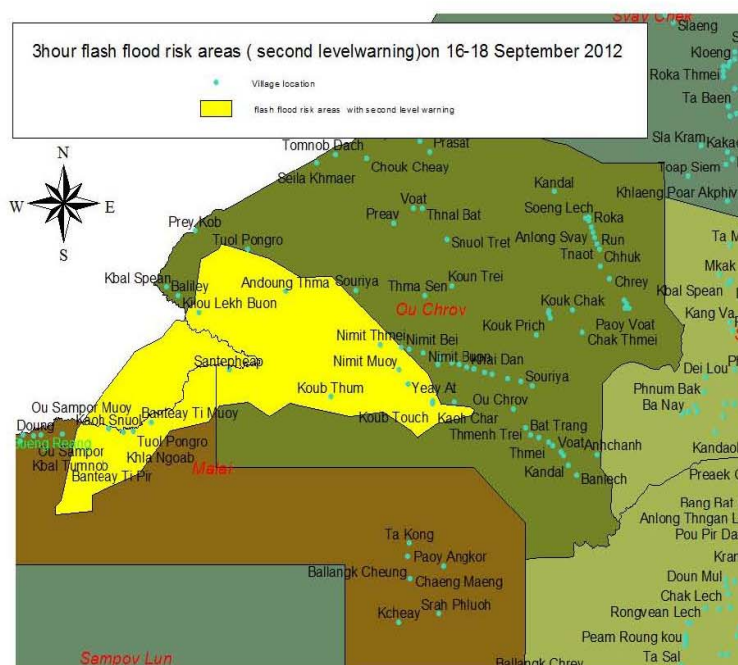


Figure 2 : Villages and districts under the flash flood risk areas with second level warning , detected by MRCFFG on 16-18 September 2012