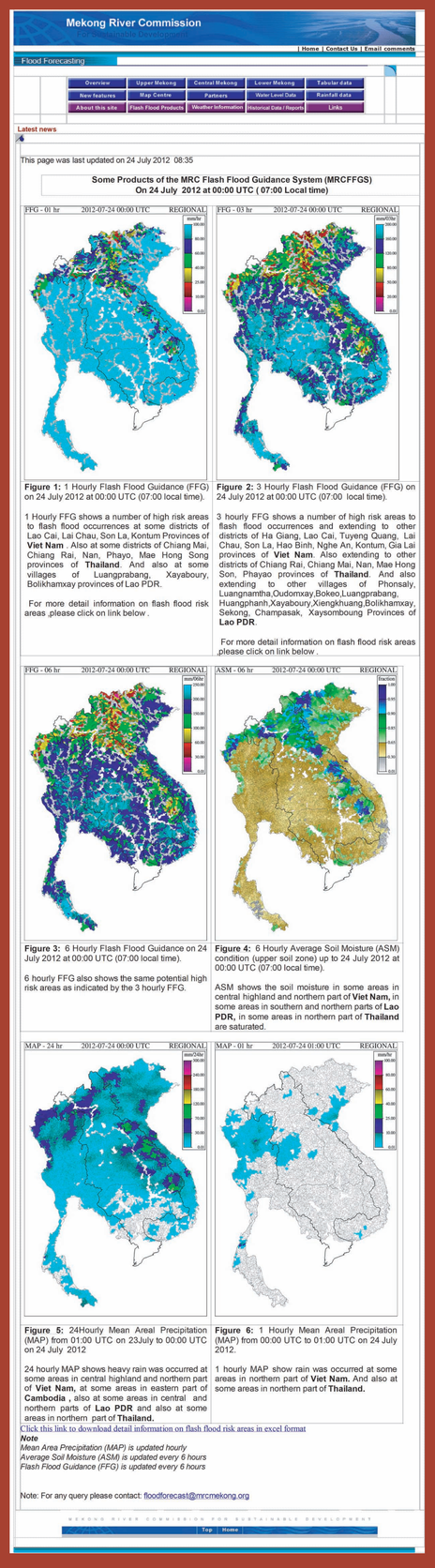
OPERATIONAL MRC FLASH FLOOD GUIDANCE SYSTEM

System for Flash Flood Alerts and Warnings

HYDROLOGIC RESEARCH CENTER

USAID FROM THE AMERICAN PEOPLE

Overview of MRCFFG information on MRC web site


Mekong River Commission

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Flood Forecasting

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Latest news

This page was last updated on 24 July 2012 08:35

Some Products of the MRC Flash Flood Guidance System (MRCFFGS)
On 24 July 2012 at 00:00 UTC (07:00 Local time)

FFG - 01 hr 2012-07-24 00:00 UTC REGIONAL

Figure 1: 1 Hourly Flash Flood Guidance (FFG) on 24 July 2012 at 00:00 UTC (07:00 local time).

1 Hourly FFG shows a number of high risk areas to flash flood occurrences at some districts of Lao Cai, Lai Chau, Son La, Kontum Provinces of **Viet Nam** . Also at some districts of Chiang Mai, Chiang Rai, Nan, Phayo, Mae Hong Song provinces of **Thailand**. And also at some villages of Luangprabang, Xayaboury, Bolikhamxay provinces of Lao PDR.

For more detail information on flash flood risk areas ,please click on link below .

FFG - 03 hr 2012-07-24 00:00 UTC REGIONAL

Figure 2: 3 Hourly Flash Flood Guidance (FFG) on 24 July 2012 at 00:00 UTC (07:00 local time).

3 hourly FFG shows a number of high risk areas to flash flood occurrences and extending to other districts of Ha Giang, Lao Cai, Tuyeng Quang, Lai Chau, Son La, Hao Binh, Nghe An, Kontum, Gia Lai provinces of **Viet Nam**. Also extending to other districts of Chiang Rai, Chiang Mai, Nan, Mae Hong Son, Phayao provinces of **Thailand**. And also extending to other villages of Phonsaly, Luangnamtha,Oudomxay,Bokeo,Luangprabang, Huangphanh,Xayaboury,Xiengkhuang,Bolikhamxay, Sekong, Champasak, Xaysomboung Provinces of **Lao PDR**.

For more detail information on flash flood risk areas ,please click on link below .

FFG - 06 hr 2012-07-24 00:00 UTC REGIONAL

Figure 3: 6 Hourly Flash Flood Guidance on 24 July 2012 at 00:00 UTC (07:00 local time).

6 hourly FFG also shows the same potential high risk areas as indicated by the 3 hourly FFG.

ASM - 06 hr 2012-07-24 00:00 UTC REGIONAL

Figure 4: 6 Hourly Average Soil Moisture (ASM) condition (upper soil zone) up to 24 July 2012 at 00:00 UTC (07:00 local time).

ASM shows the soil moisture in some areas in central highland and northern part of **Viet Nam,** in some areas in southern and northern parts of **Lao PDR,** in some areas in northern part of **Thailand** are saturated.

MAP - 24 hr 2012-07-24 00:00 UTC REGIONAL

Figure 5: 24Hourly Mean Areal Precipitation (MAP) from 01:00 UTC on 23July to 00:00 UTC on 24 July 2012

24 hourly MAP shows heavy rain was occurred at some areas in central highland and northern part of **Viet Nam,** at some areas in eastern part of **Cambodia** , also at some areas in central and northern parts of **Lao PDR** and also at some areas in northern part of **Thailand.**

MAP - 01 hr 2012-07-24 01:00 UTC REGIONAL

Figure 6: 1 Hourly Mean Areal Precipitation (MAP) from 00:00 UTC to 01:00 UTC on 24 July 2012.

1 hourly MAP show rain was occurred at some areas in northern part of **Viet Nam.** And also at some areas in northern part of **Thailand.**

Click this link to download detail information on flash flood risk areas in excel format

Note
Mean Area Precipitation (MAP) is updated hourly
Average Soil Moisture (ASM) is updated every 6 hours
Flash Flood Guidance (FFG) is updated every 6 hours

Note: For any query please contact: floodforecast@mrcmekong.org

MEKONG RIVER COMMISSION FOR SUSTAINABLE DEVELOPMENT

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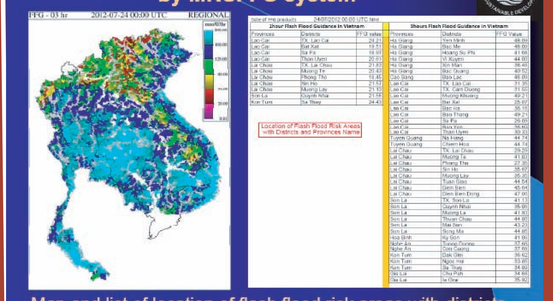
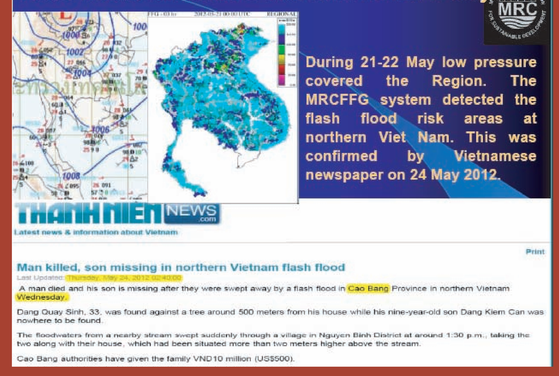
Some Result from Daily Operational of MRCFFG System During Flood Season 2012

Information on flash flood risk areas provided by MRCFFG system

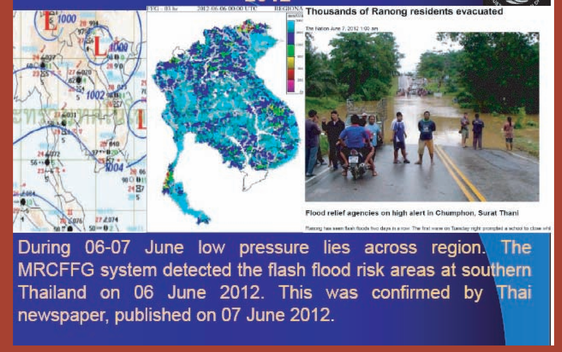


Map and list of location of flash flood risk areas with districts and provinces name

Flash floods at northern Viet Nam on 23-24 May 2012

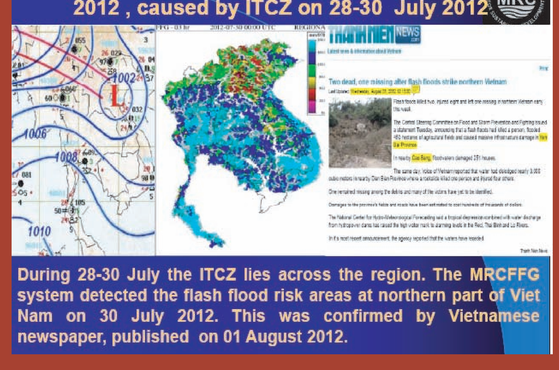


Flash floods at southern Thailand on 6-9 June 2012

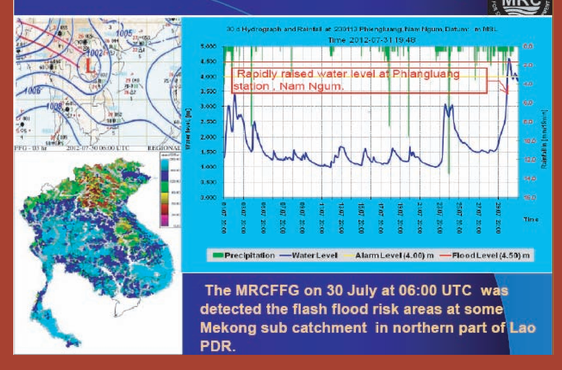


Flash floods at northern Viet Nam, Thailand and Lao PDR on 24-25 July 2012, caused by TD VICENTE

Flash floods at northern Viet Nam on 30 July 2012 , caused by ITCZ on 28-30 July 2012



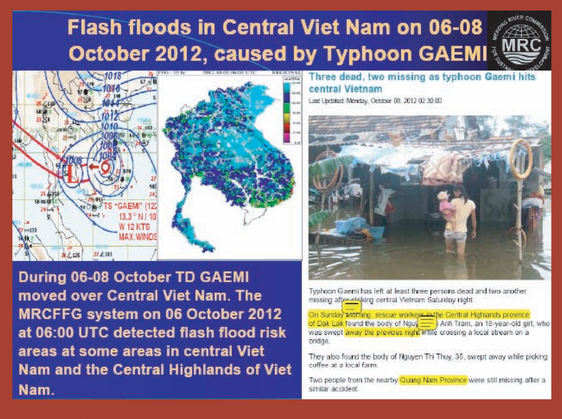
Flash floods in northern Lao PDR 29-30 July 2012



Flash floods at northern Lao PDR on 08 August 2012

Flash flood in Central Viet Nam on 07 September

Flash floods in Central Viet Nam on 06-08 October 2012, caused by Typhoon GAEMI



Conclusion

During sever weather condition the MRCFFG system detected almost all flash flood risk areas in the Mekong region. There were only few flash flood events that the system could not

Recommendation

- In order to get more reliability, the MRCFFG system needs to be improving some parameter (such as biascorrection factor).
- Streaming the information on MRCFFG system to the concerned authorities and NGOs such, that it can be used for early warning for people living in flash flood risk areas.
- Maintaining the connection between the RFMMC and National FFG operators for the region in order to exchnage the experiances learned from FFG operation after each flood season.