Review of Activities & Outputs/ Lessons Learned concerning the C5 –Approach

In Lao P.D.R

By NFU/LNMCS 24 February 2011

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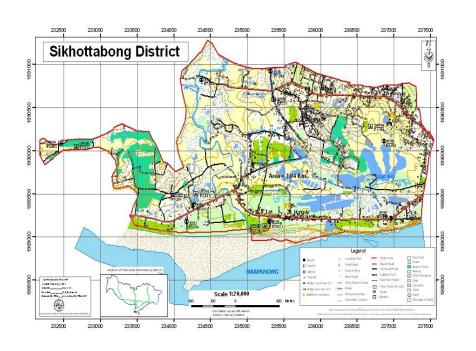
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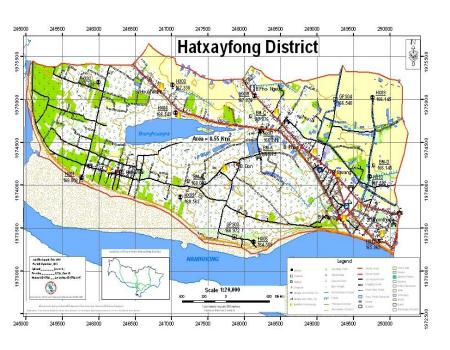
1. Introduction

- The Flood Management and Mitigation Programme Component 5 (FMMP C5/Land Management), a project of the Mekong River Commission, is funded by GTZ and implemented by the GFA Consulting Group GmbH.
- The development objective of the project is to improve and increase the competence of civil authorities at various levels, emergency managers and communities concerning flood management and mitigation. The immediate activities of the project are to ensure emergency management systems in the riparian countries (as Combodia, Lao, Vietnam and Thailand) dealing more effectively with the Mekong floods.

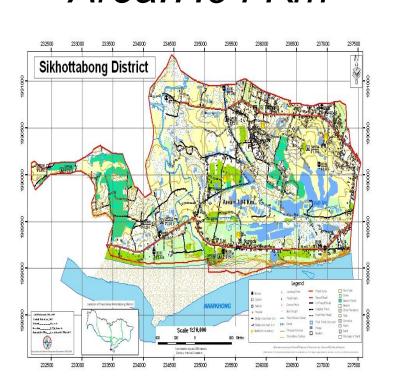
2. Flood Mark installation

 The flood marks was conducted at the selected villages at 2 pilot areas in Sikottabong with 2 village(8 flood marks) and Hatxayfong District with 7 villages(11 Flood marks) of Vientiane capital.





Flood Mark at Sikhottabong District:
 Area:7.04 Km² * Nong Da village: 4 floot







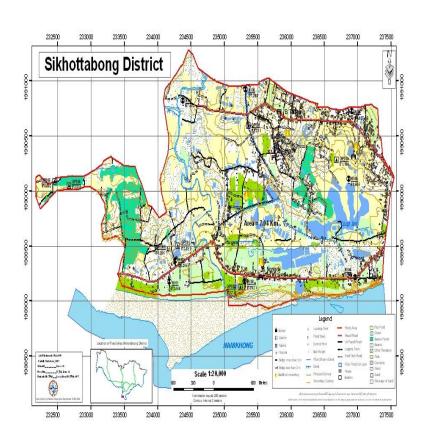




- 4 flood marks.
- 1. Datum: South China sea 48 P 1989162.432; UTM 234169.338 Staff gauge from 1 m to 2 m BM-01 of flood marker.
- **2.** Datum : South China sea 48 P 1989378.828;UTM 234249.802 Staff gauge from 1 m to 2 m BM-02 of flood marker.
- 3. Datum: South China sea 48 P 1989166.506;UTM 235299.708 Staff gauge from 1 m to 2 m BM-03 of flood marker.
- **4.** Datum : South China sea 48 P 1989208.896;UTM 236959.921 Staff gauge from 1 m to 2 m BM-04 of flood marker.

• Flood Mark at Sikottabong District: Area:

7.04 Km²



Tadthong Village: 4 flood marks.



5. Datum: South China sea 48 P1990721.158;UTM 236906.646 Staff gauge from 1 m to 2 m BM-05 of flood marker.



6. Datum: South China sea 48 P 1990916.517;UTM 235314.228 Staff gauge from 1 m to 2 m BM-06 of flood marker.



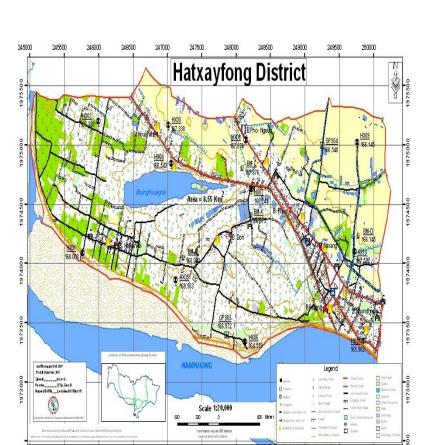
7. Datum: South China sea 48 P 1990843.250;UTM 234385.886 Staff gauge from 1 m to 2 m BM-07 of flood marker.



8. Datum : South China sea 48 P 1990115.501;UTM 236866.873 Staff gauge from 1 m to 2 m BM-08 of flood marker.

Flood Mark at Hatxayfong District:

Area: 8.55 Km²



•Hatkanxa Village:

2 flood marks



1.Datum : South China sea 48 P 1974077.546;UTM 245764.789 Staff gauge from 1 m to 2 m HX-01 of flood marker.



2. Datum: South China sea 48 P 1975190.065; UTM 245992.165 Staff gauge from 1 m to 2 m HX-02 of flood marker.

•HouaHa Village:



2 flood marks

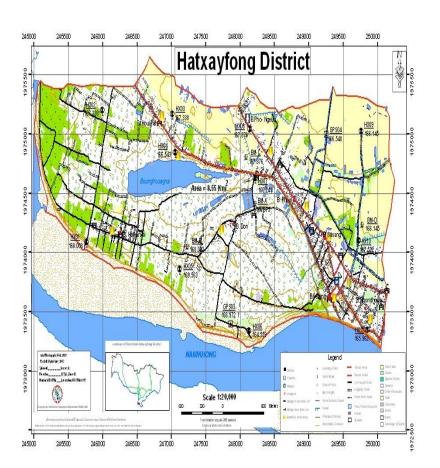
3. Datum South China sea 48 P 1975157.229;UTM 247011.180 Staff gauge from 1 m to 2 m HX-03 of flood marker.



4. Datum: South China sea
48 P 1974828.441;UTM 247056.739
Staff gauge from 1 m to 2 m HX-04 of flood marker.

Flood Mark at Hatxayfong District:

*Area:8.55 Km*²



•Done Village:



2 flood marks

5. Datum: South China sea 48 P 1973846.463; UTM 247121.476 Staff gauge from 1 m to 2 m HX-05 of flood marker.



6. Datum: South China sea 48 P 1973335.957;UTM 248155.429 Staff gauge from 1 m to 2 m HX-06 of flood marker.

•Phosi Village:

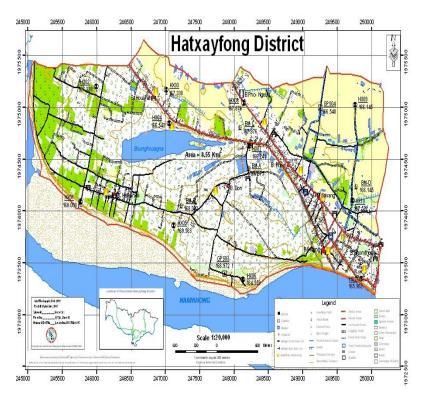


1 flood marks

7. Datum: South China sea 48 P 1974610.203;UTM 248260.281 Staff gauge from 1 m to 2 m HX-07 of flood marker

Flood Mark at Hatxayfong District:

*Area:8.55 Km*²



* Phongeun Village:



1 flood marks

8. Datum: South China sea 48 P 1975031.705; UTM 248142.970 Staff gauge from 1 m to 2 m HX-08 of flood marker.

*Savang Village:



2 flood marks

9. Datum: South China sea 48 P 1975012.771;UTM 249759.683 Staff gauge from 1 m to 2 m HX-09 of flood marker.



10. Datum : South China sea 48 P 1974097.869;UTM 249720.674 Staff gauge from 1 m to 2 m HX-10 of flood marker.

Chomthong Village: 1 Flood marks



11. Datum : South China sea 48 P 1973331.998;UTM 249855.026 Staff gauge from 1 m to 2 m HX-11 of flood marker.

<u>Leveling and Survey</u>: (By NGD)

Measurement of the geographical location (zero gauges)/ position and height of the 8 flood marks at Sikottabong district based on the nearest bench marks at the airport and 11 flood marks at Hatxayfong district based on the existing gauging station at Vientiane Km4.

<u>Output</u>

Sikottabong District:

No.	Village name	Approx.Long.N	Approx. Lat.E	Alt.(Zero gauge MSL)	Flood Marks
1.	Ban Nongda	234169.338	1989162.432	171.467	BM-01
2.	Ban Nongda	234249.802	1989378.828	172.657	BM-02
3.	Ban Nongda	235299.708	1989166.506	172.871	BM-03
4.	Ban Nongda	236959.921	1989208.896	170.346	BM-04
5.	Ban Tadthong	236906.646	1990721.158	184.537	BM-05
6.	Ban Tadthong	235314.228	1990916.517	177.240	BM-06
7.	Ban Tadthong	234385.886	1990843.250	166.931	BM-07
8.	Ban Tadthong	236866.873	1990115.501	169435	BM-08

Hatxayfong District:

No.	Village name	Approx.Long.N	Approx. Lat.E	Alt.(Zero gauge MSL)	Flood Marks
1.	Ban Hatkanxa	245764.789	1974077.546	168.008	HX-01
2.	Ban Hatkanxa	245992.165	1975190.065	167.691	HX-02
3.	Ban HouaHa	247011.180	1975157.229	167.338	HX-03
4.	Ban HouaHa	247056.739	1974828.441	166.543	HX-04
5.	Ban Done	247121.476	1973846.463	168.563	HX-05
6.	Ban Done	248155.429	1973335.957	166.478	HX-06
7.	Ban Phosi	248260.281	1974610.203	166.150	HX-07
8.	Ban Phongeun	248142.970	1975031.705	167.528	HX-08
9.	Ban Savang	249759.683	1975012.771	166.145	HX-09
10.	Ban Savang	249720.674	1974097.869	167.429	HX-10
11.	Ban Chomthong	249855.026	1973331.998	167.962	HX-11

3.Bill Board and Cell phone

 The 4 bill boards were installed at the community's office of 4 villages during May 2009. During the community villagers were trained to read the water level and to adjust water level data on the bill board. And each village where installed the billboard receive 3 cell phone and 1 boat.

NongDa Village:



1.Mr. Khampayvanh Navaman Security of Village

2. Mr. Sengphet PhengKhampane Teacher

3. Mr. Saisamone Security of Village

Tadthong Village:



1. Mr. Noukham Phommalansy

2. Mr. Bounngouang keoma

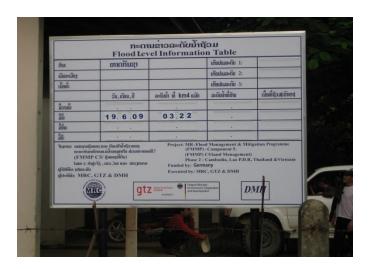
3. Mr. Phetleousay Dasouk

Deputy Chief of Village

Security of Village

Chief of youth union

Hatkanxa Village:



- 1. Mr. Vilaysack Chanthavong Chief of Village
- 2. Mr. Sisouphanh Thongthoumma Deputy chief of Village
- 3. Mr. Savienne Khanxay Deputy Chief of Village

PhoSi Village:



1.Mr. Sipaseuth VanhKeo Chief of Village Phosi

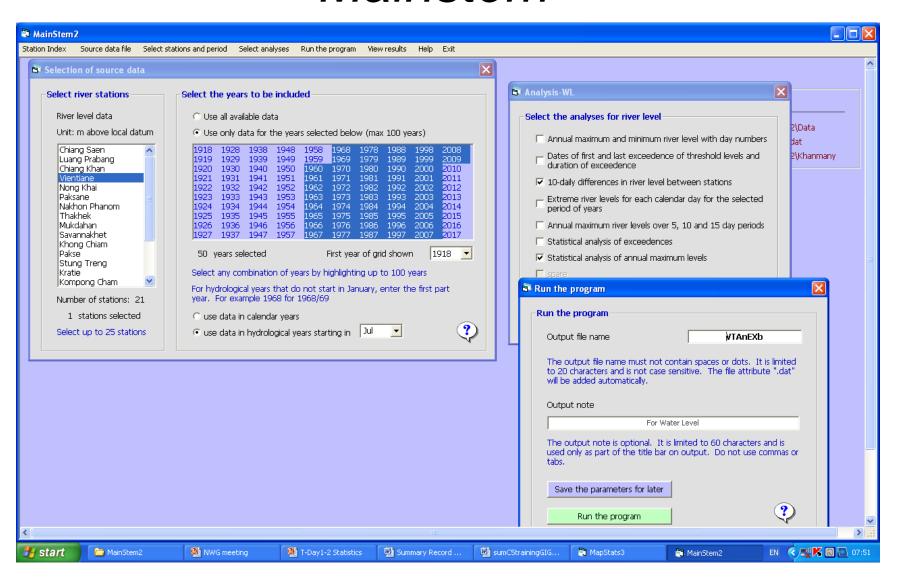
2. Mr. Sonsavanne PhisaiPhanh Teacher

3. Mr. SonKan Faimeita Chief of Village PhoNgeun

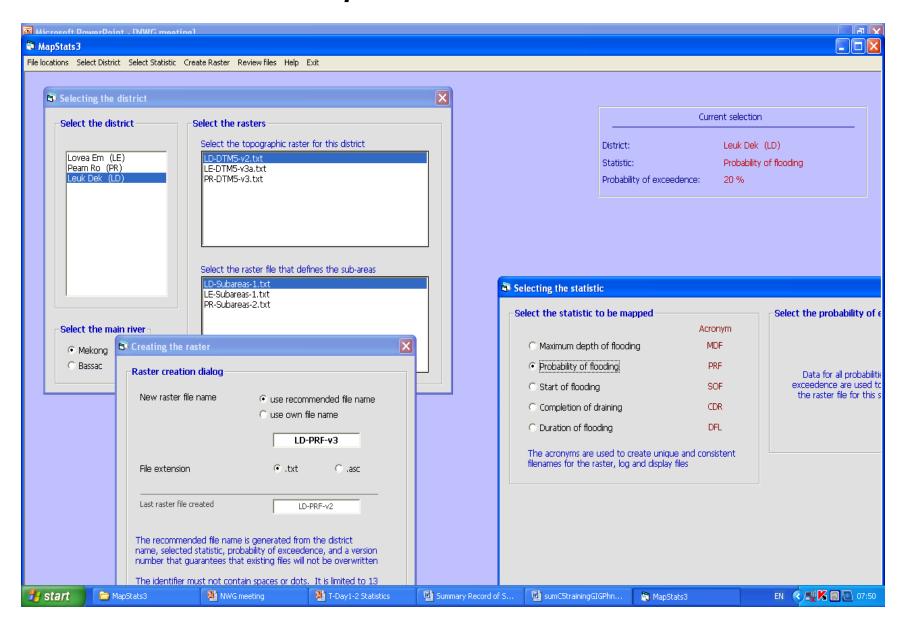
4.Lession learn from Cambodia

- The Study tour from 22-26 February 2010 we understood that the probability flood map very useful for the agriculture land zoning; Planning on irrigation; disaster management programme. The more important activities are the water level from Mekong and from flood mark which presented by DHRW.
- The training on ArcGIS also very useful for the preparing the probability map.
- How to use Mapstats software and Mainstem program.

Mainstem



Mapstats Software



5. Supported equipment

Boat ; Cell phone and Computer









5. Conclusion and recommendation

- The flood markers was installed on time
- The community of each Villages have good cooperation and working closely with the project team as DMH and NGD.
- The bill boards are very important for each villages and Give good information of Mekong water level and Flood marker level and also the flooding area.
- The water level from flood Marker still not yet record due to the water level from Mekong in the Year 2009 was low.
- The training on GIS and study tours are important activities to help national working group how to make sure implementation and create the probability Map.
- Need satellite data of flooding area for the year 2008.
- Continue to collect data from The flood mark (2011)

Thank you for your kind attention