

# Title: Roadmap towards Effective Flood Hazard Mapping in Cambodia

January 25 - February 19, 2005.

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## I. Introduction:

In Cambodia almost every year is effected by flood, flooding from the rivers and from the localize rainfall. Many people who live in inundation area are faced to the problems. Besides losing lives, some properties, animals and their Agricultural product all of them have insufficient food and clean water for drinking for using everyday during occurring of flood.

The characteristic of topography of Cambodia besides Mekong River we have other rivers tributaries, Tnle Sap Great Lake and much other lake surrounded low land area. The northeastern part is high land and mountain range located along Southwest West and North of the country.

Cambodia is effected of Northeast Monsoon start from mid November to mid may dry no rain and Southwest Monsoon dominated from mid may to mid November, the effected of this Monsoon bring rain normally heavy rain occurring from August to September so in this period is inundation in year. The annual inundation is 28 – 33% of the total area of country (181,035 Km<sup>2</sup>).

## **The curriculum**

The training was impressive, insightful and relevant to my job. It will improve my professional knowledge of the technical on the methodology to promote public awareness on flood damage mitigation. I considered topics on Hydrological statistics; Flood runoff and inundation analysis; Hydrologic observation and Precision very relevant. However, it was too short of a refresher course for trainees. Lectures on Development of dynamic Flood Hazard Map; and Effectiveness of Flood Hazard Maps and its Challenges (with the Flood and Inundation) were very impressive and very important.

A flood in Cambodia is occurred almost every year, flood disaster become serious and affecting to economic development. The geographical characteristic of country caused a flood disaster. Many natural disasters cannot be avoided, but those disasters can be mitigated if we have effective contingency planning as flood forecasting, emergency response, financial availability, human and material resources in place, full network, good coordination by individually, government agencies and organizations with effective and rapid response. This is way Flood Hazard Map will it roles. Develop one Flood Hazard Map for a target area for some sub-basin where flash floods were severely affected. Our Flood Forecasting Office has established with local administration for implementing an activity and serve for public information and distribution of flood information. The area is available of some data and has been used for some project by initial study and considered that it will be important inputs which project is undertaking.

### **These actions will be set up a short and long-term Project**

#### **Short Term Studies**

Study on the feasibility on data collection with existing as topography hydrological data in the basins.

#### **Mid/Long-term Project**

Improve of the quality of flood forecasting which our office is forecast and establish Flood Hazard Map information, finally gives a hydrological forecast on what would be the effect of such within the next day by cooperating some line agency, I really know that it would be better reception and comprehension by the residents as well as people involved operations.

### **Advice / Suggestions for Effective Flood Management in Japan**

Now Japan has produced a very good methodology of flood management and flood hazard maps. Some might have too complicated for conducting. Many things had been identified on the discussion on Town-Watching activity. I would say those are very relevant. Provision of singe board for flood evacuation routes should be written at least two languages Japanese as well as English.

### **Advice / Suggestions for Training Course**

Training course is not enough too short it should be longer is important to do more exercises and practices to present something from their own sides: specifically their country's condition on flooding and its mitigation. This way everybody get benefited can learns from each other there is sharing of knowledge.

### **Conclusion**

Through the training course I can get much more knowledge about how to make flood hazard map and understanding how important of it and I will develop it and distribute to the residents and local of authorities and explain to the people in order to mitigate flood disaster.