

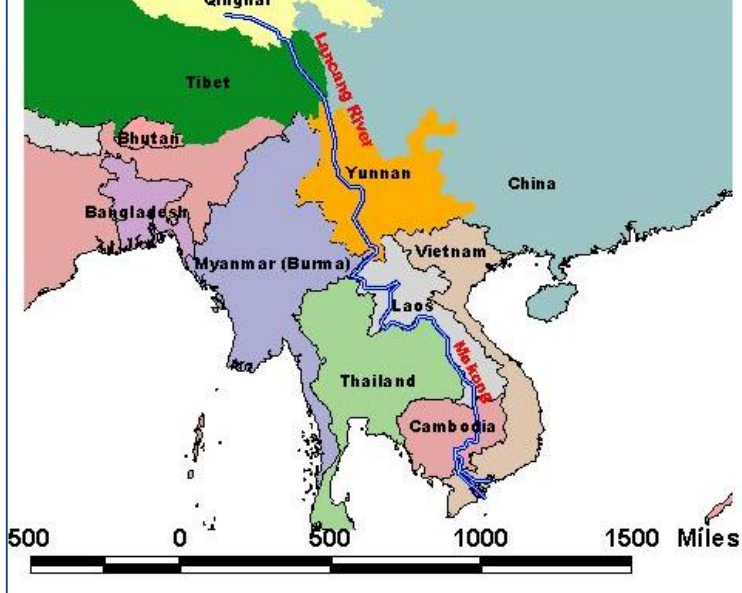
An aerial photograph showing a wide river, likely the Mekong, with muddy brown water. The surrounding land is a mix of green fields and brown, flooded areas. Some buildings and infrastructure are visible along the riverbanks.

MEKONG RIVER COMMISSION

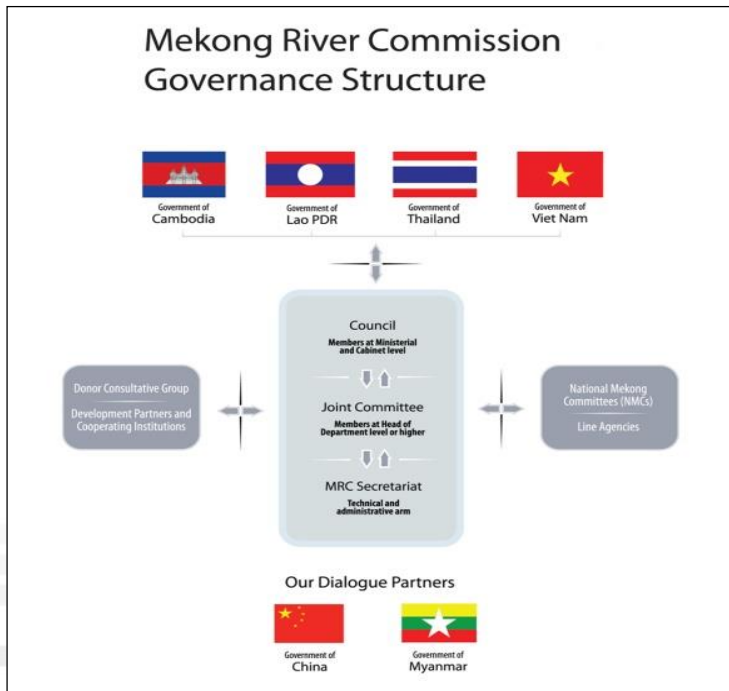
Regional Flood Management and Mitigation Centre
(RFMMC)

Lessons Learnt from the Implementing of the Mekong flood forecast services

Prepared by RFMMC for the Expert Group Meeting on Strategies towards Building Resilience
to Disasters in Asia and the Pacific, 26 October 2015, Bangkok Thailand



Regional Flood Management and Mitigation
Centre, Phnom Penh, Cambodia



The regional centre serves important role for data and information sharing, exchange capacity and collaboration across Members (MRC, 2004) → the new structure of the MRCS (2016) the centre remains as a core function.

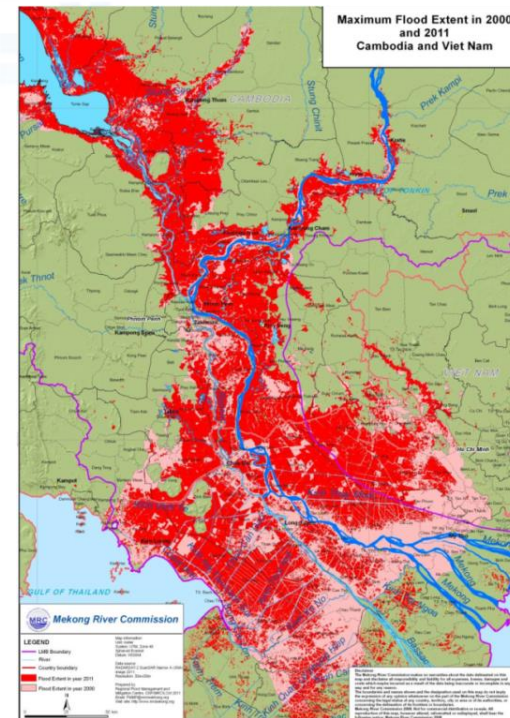
Floods and flooding in Mekong

1966 (worst in over 100 years)

2000 (worst in over 40 years)

2011 (worst in over 30 years)

Table: flood damages



Year	US\$ million	% total	Fatalities	% total
2000	517	13	710	26
2001	215	6	492	18
2011	493	13	416	15
2013	2,172	53	500	18



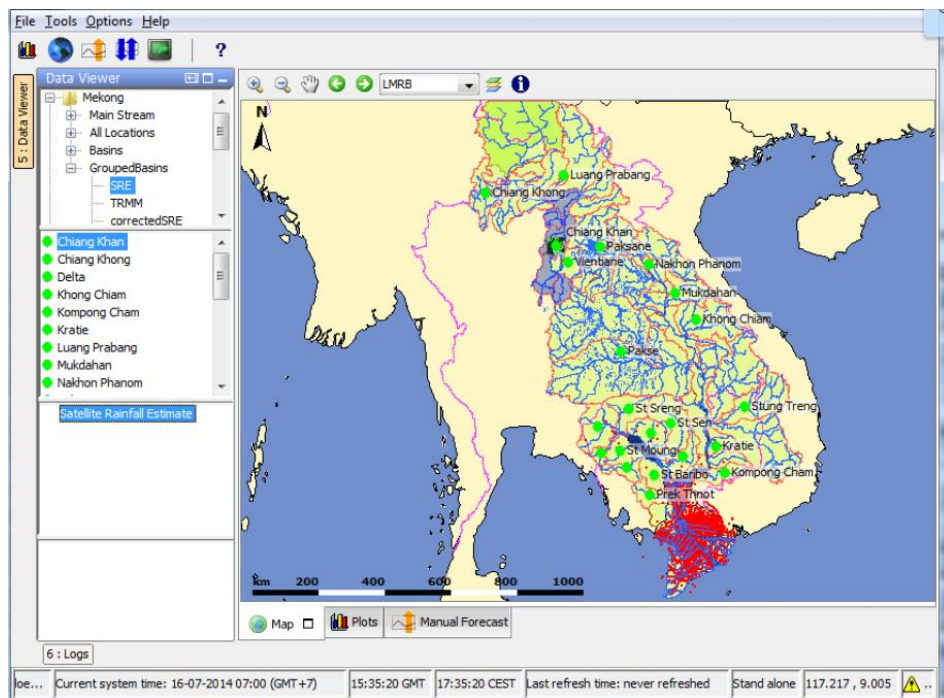
Our focus is non-structural measures
by intervention **flood forecasting and
warning systems**



*Adaptation measures in the **flood management** context should involve a best mixture of structural and non-structural measures, with the aim of minimizing the losses of life from flooding and maximizing the net benefits derived from the floodplains (WMO,2004)*

Flood warning services at the Centre

Flood Forecasting System (FFS)



Flood Forecasting
River Flooding

Flash Flood Guidance System (FFGS)

This page was last updated on 29 March 2011 08:30

Some Products of the MRC Flash Flood Guidance System (MRCFFGS)
On 29th March 2011 at 00:00 UTC (07:00 Local time)

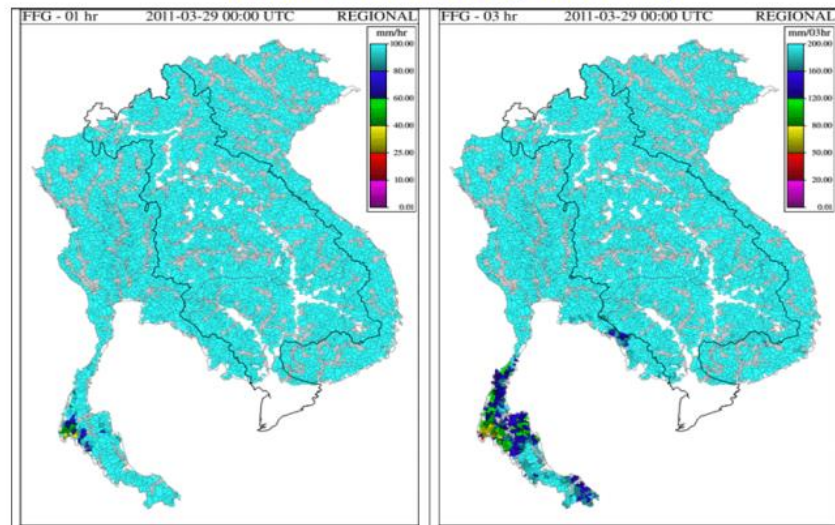
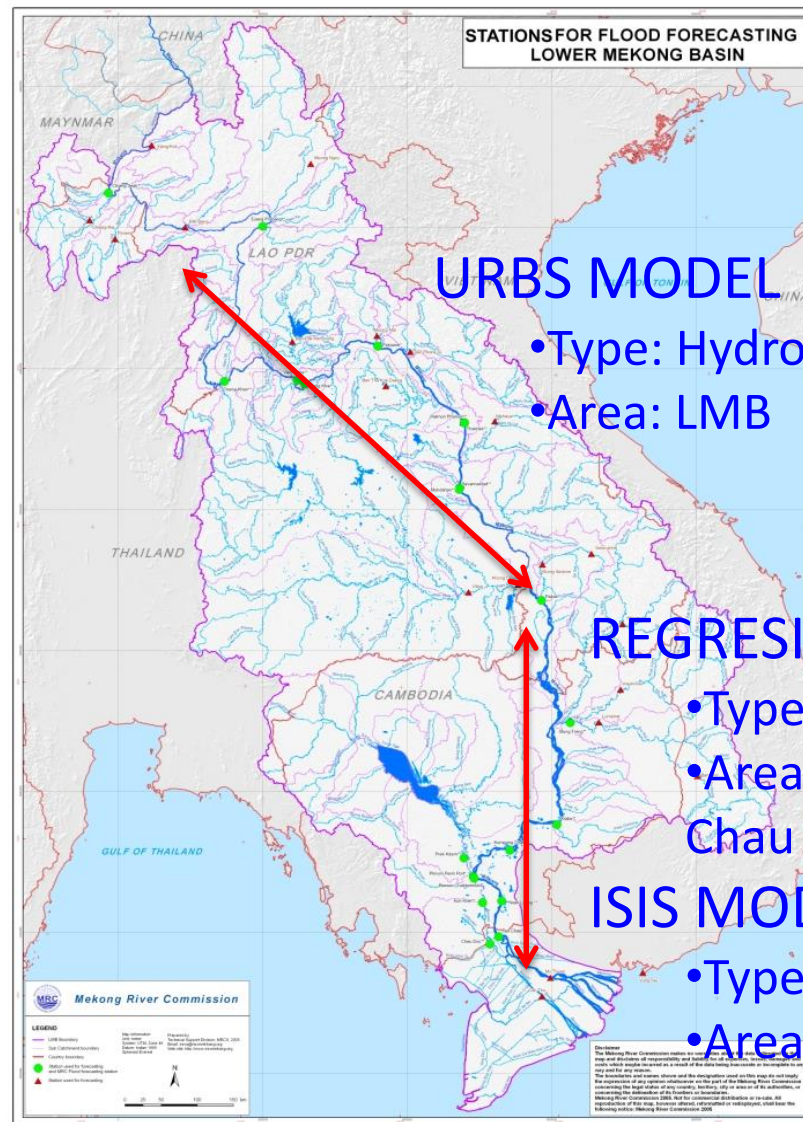


Figure 1: 1 Hourly Flash Flood Guidance (FFG) on 29th March 2011 at 00:00 UTC (07:00 local time)

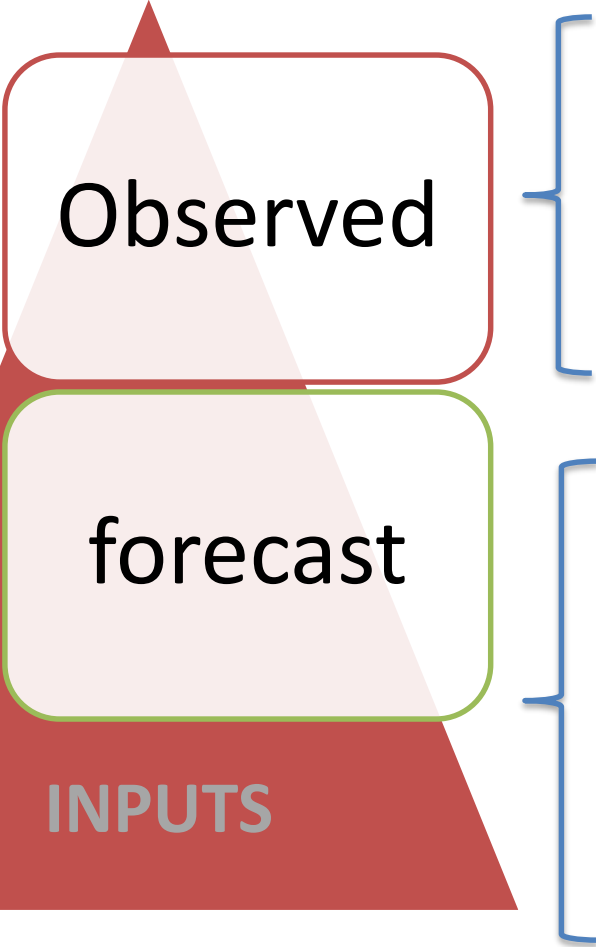
Figure 2: 3 Hourly Flash Flood Guidance (FFG) on 29th March 2011 at 00:00 UTC (07:00 local time)

Warning System
Flash Flooding

5-7 days lead time
Short-term flood
forecasting and
river monitoring for
22 locations along
the Mekong
mainstream from
Chiang Sean,
Thailand to Chau
Doc/Tan Chau,
Vietnam.



Data and information



Observed

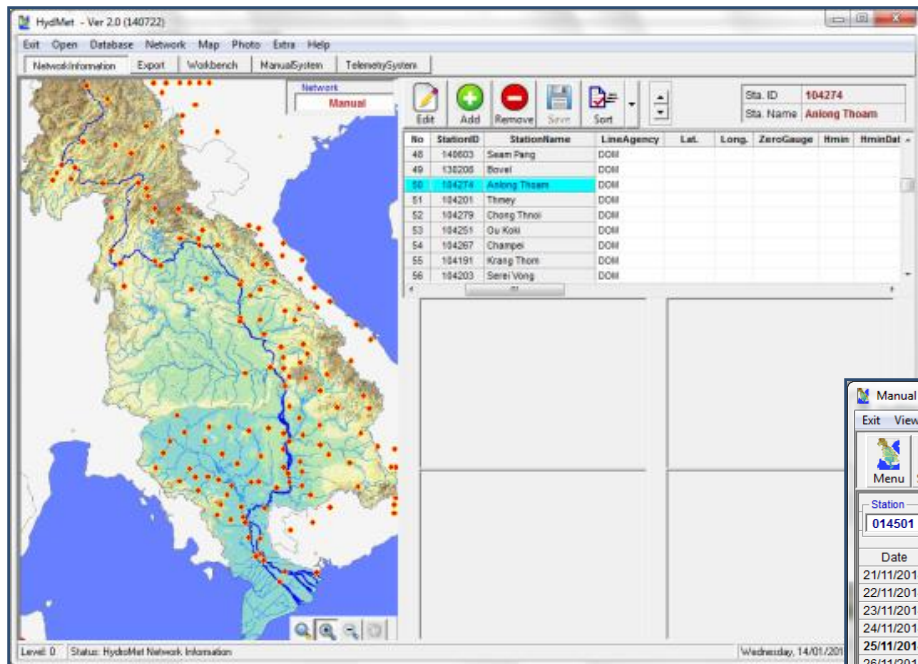
- Daily near real time rainfall and water level
- 15 min and 1 hourly real time telemetry data
- 3 hours GTS rainfall data
- Weather situation notices (2-6 times/weeks)

forecast

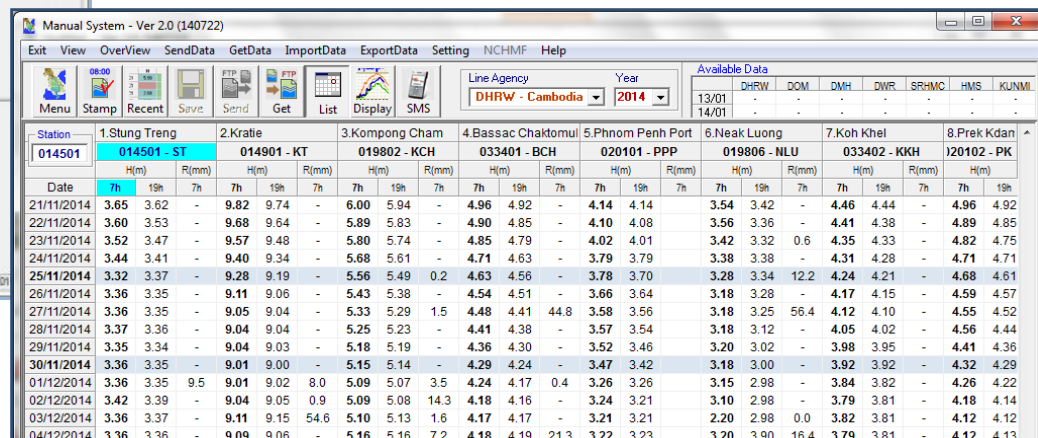
- Daily Satellite Rainfall Estimates (SRE)
- Daily Numerical Weather Prediction (NWP) hourly TRMM/Hydro-estimator
- 3 hourly Access G model rainfall
- Rainfall data from ECMWF

INPUTS

Hydmet software stored observed data



- time records
- import/export functions
- reporting functions
- etc



Station	1.Stung Treng	2.Kratie	3.Kompong Cham	4.Bassac Chaktomul	5.Phnom Penh Port	6.Neak Luong	7.Koh Khel	8.Prek Kdan
Station	014501 - ST	014901 - KT	019802 - KCH	033401 - BCH	020101 - PPP	019806 - NLU	033402 - KKH	120102 - PK
Date	7h	19h	7h	19h	7h	19h	7h	19h
21/11/2014	3.65	3.62	-	9.82	9.74	-	6.00	5.94
22/11/2014	3.60	3.53	-	9.68	9.64	-	5.89	5.83
23/11/2014	3.52	3.47	-	9.57	9.48	-	5.80	5.74
24/11/2014	3.44	3.41	-	9.40	9.34	-	5.68	5.61
25/11/2014	3.32	3.37	-	9.28	9.19	-	5.56	5.49
26/11/2014	3.36	3.35	-	9.11	9.06	-	5.43	5.38
27/11/2014	3.36	3.35	-	9.05	9.04	-	5.33	5.29
28/11/2014	3.37	3.36	-	9.04	9.04	-	5.25	5.23
29/11/2014	3.35	3.34	-	9.04	9.03	-	5.18	5.19
30/11/2014	3.36	3.35	-	9.01	9.00	-	5.15	5.14
01/12/2014	3.36	3.35	9.5	9.01	9.02	8.0	5.09	5.07
02/12/2014	3.42	3.39	-	9.04	9.05	0.9	5.09	5.08
03/12/2014	3.36	3.37	-	9.11	9.15	54.6	5.10	5.13
04/12/2014	3.36	3.36	-	9.09	9.06	-	5.16	5.16

HYMET TOOL is a potential

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_3990

