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For sustainable development



## Mekong River Commission Hydrometeorological data management for basin characterisation




Paradis Someth  
Mekong River Commission Secretariat(MRCS)

*The Regional Exchange on IWRM Experiences in the Mekong River Basin*  
15-16 October 2014  
Vientiane, Lao PDR

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## Content



- Data and information collection and management
- Using the data and information for basin characterization
- Data, information and knowledge dissemination

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## Data collection



- The Procedures for Data and Information Exchange and Sharing (PDIES)
- Data from the Member Countries
  - Historical hydrometeorological data (some starting from the early 1900)
  - Updated historical data and information provided by the 4 Member Countries for a large array of stations
- Data from MRC with collaboration from the Member Countries
  - Near real-time hydro-meteorological telemetry data
  - Regularly updated rating curves for an array of hydro-meteorological stations

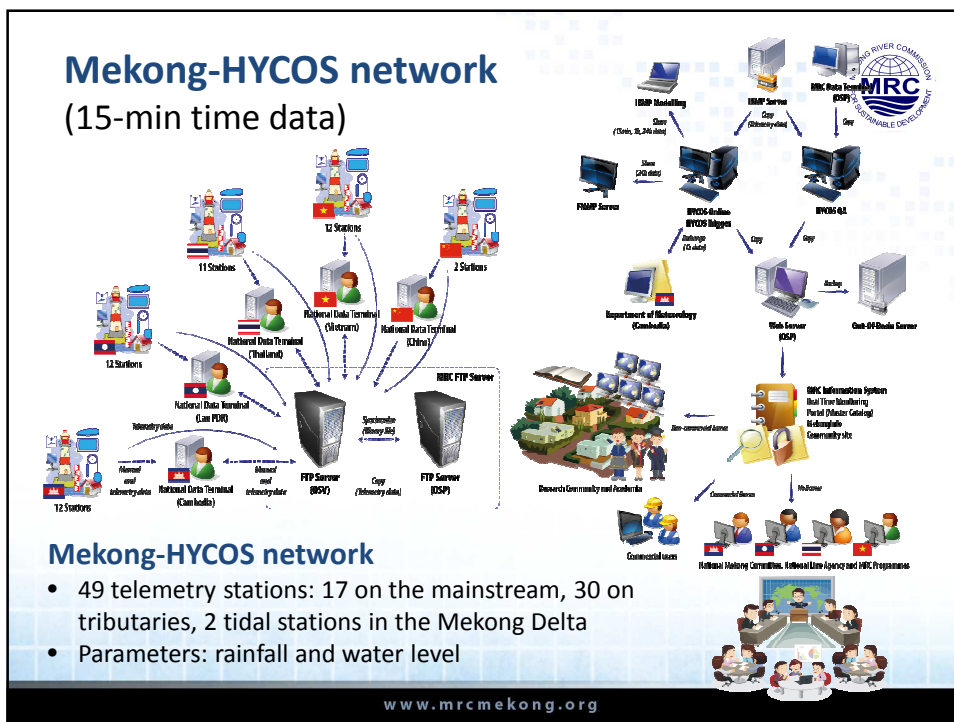
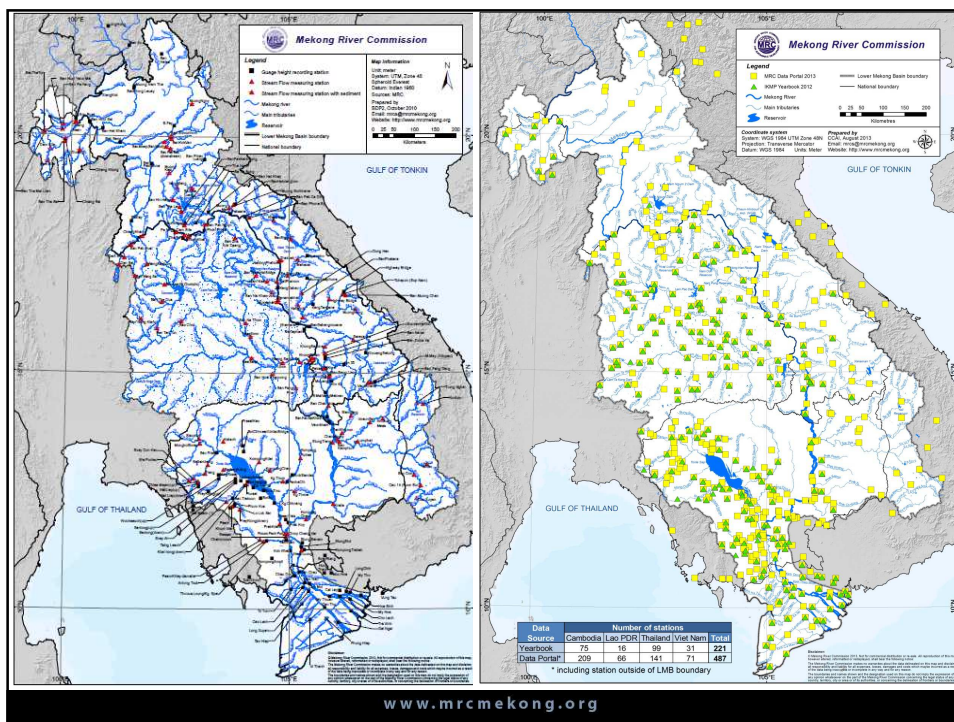
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## Historical time-series data




- **Hydrological data**
  - Parameters: water level and discharge
  - Stations: 142 (Thailand: 39, Lao PDR: 37, Cambodia: 35, Viet Nam: 31)
- **Meteorological data**
  - Parameters: Rainfall, Temperature, Relative Humidity, Wind Speed, Wind Direction, Evaporation, Sunshine Hour, Radiation, Pressure
  - Stations: 114 (Thailand: 44, Lao PDR: 7, Cambodia: 28, Viet Nam: 35)
- **Rainfall data**
  - Stations: 478 (Thailand: 141, Lao PDR: 63, Cambodia: 204, Viet Nam: 70)

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## Mekong-HYCOS network (15-min time data)

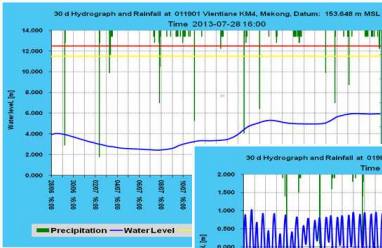


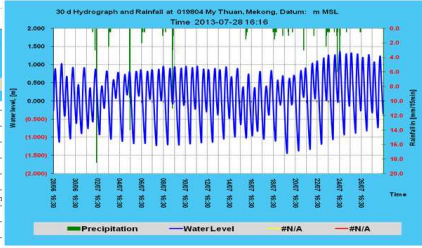
Click on station name on the map or on the list to see water level charts.  
Click here to see this in Google Earth

List of Mekong real time tributary monitoring stations  
Click the station name to see details for each station.



Station	River	St. Code	Country	Station	River	St. Code	Country
Jinghong	Lancang	092600	China	Manan	Lancang	092980	China
Batanbang	Saopao	350102	Cambodia	Ban Kengone	Bo Bang Hiang	350101	Lao PDR
				Khan		120101	Lao PDR
				Phao		270502	Lao PDR
				ong		430106	Lao PDR
				ong		011201	Lao PDR
				ong Fai		320107	Lao PDR
				Ou		100102	Lao PDR
				ong		013901	Lao PDR
				Nam		330113	Lao PDR
				ong Fai		320101	Lao PDR







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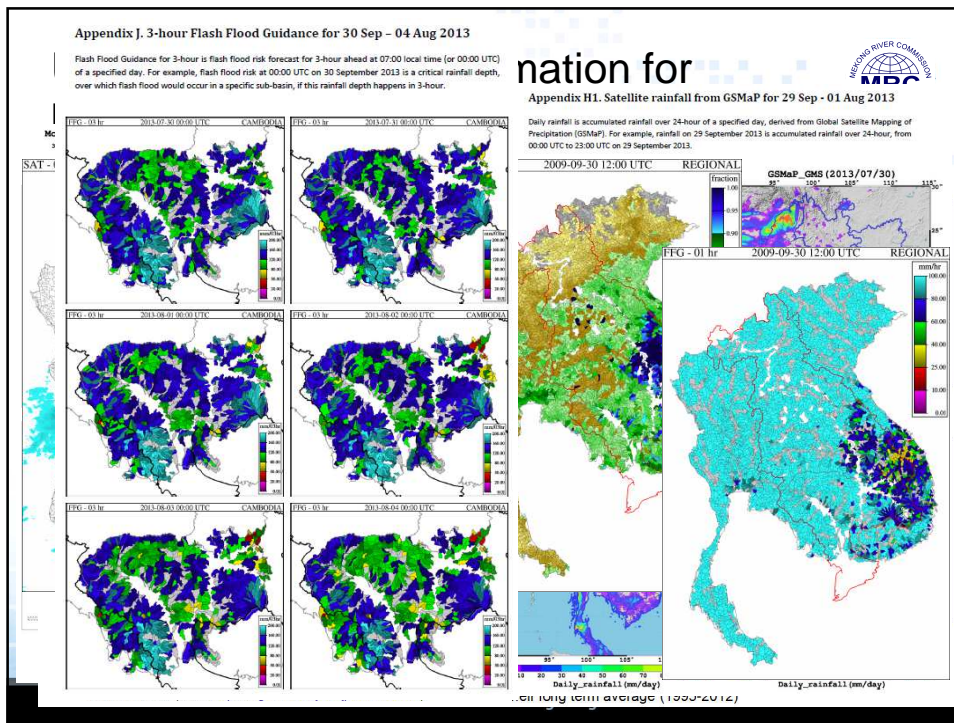
## MRC data management tool



- **HYMOS** for their historical hydro-meteorological time-series data management for **600+ hydro-meteorological stations**
- **HyMet** and **HYCOS** (Online, Trigger and QA – own made) tools and for receiving near real time data and basic QA/QC processes for **49 telemetry stations**
- **AQUARIUS** is used by **USGS (7,400 stream gauging stations for 500+ end users across the United States), NIWA (3,500 open and closed sites throughout New Zealand), and Water Survey of Canada (3,000 stream gauge stations, with 30+ regional offices and 200+ end users)**



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## Using the data and information for basin characterization

The collage features several MRC publications:

- Monthly Report on the Hydrological Conditions in the Lower Mekong Basin, July 2013**: A bulletin providing monthly reports on hydrological conditions.
- Assessment of Basin-wide Development Scenarios**: A report from the Basin Development Plan Programme Phase 2.
- Annual Mekong Flood Report 2010**: A report from the Flood Management and Mitigation Programme.
- Planning Atlas of the Lower Mekong River Basin**: A planning tool for the Basin Development Plan Programme.
- Impacts of climate change and development on Mekong flow regimes First assessment - 2009**: An MRC Technical Paper (No. 20, June 2010) assessing the impacts of climate change and development on flow regimes.
- State of the Basin Report 2010**: A comprehensive report on the basin's status.

# Data and information dissemination



**1995 Mekong Agreement and Procedures**  
River Commission  
**Mekong**  
Meeting the needs, keeping the balance.



National Mekong Committee, National Line Agency and MRC Programmes

Research Community and Academia




**Mekong River Commission**  
For Sustainable Development

**Procedures for Data and Information Exchange and Sharing**

P.O. Box 1013, Phnom Penh, Cambodia  
Telephone: 855 23 12 010  
Email: [secretariat@mrcmekong.org](mailto:secretariat@mrcmekong.org)

[www.mrcmekong.org](http://www.mrcmekong.org)

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**Basin Reports**

**Dangerous Goods Management Prepared for Chiang Saen Commercial Port**  
Provides guidance on developing a dangerous operations at Chiang Saen Commercial Port management.

Published on: 28th Oct 2013  
File size: 7.2 MB - Language: English  
Topic(s): River Transport, Basin Planning

**Mekong Vessel Inspection Scheme Prepared for Chiang Saen Commercial Port**  
Provides a checklist that can be used to inspect transport of general cargo and containers, liquid goods and solid dangerous goods in bulk, as well as other cargo.

Published on: 28th Oct 2013  
File size: 3.2 MB - Language: English  
Topic(s): River Transport, Basin Planning

**Waste Management Guidelines Prepared for Chiang Saen Commercial Port**  
Set out guidance on how to reduce and eliminate waste, to review existing facilities for development of a comprehensive waste management plan.

Published on: 28th Oct 2013  
File size: 2.6 MB - Language: English  
Topic(s): Climate Change, Environmental Health


**The BDP Story**  
The story behind the Basin Development Plan.

Published on: 1st Jan 2013  
File size: 6.5 MB - Language: English  
Topic(s): Basin Planning

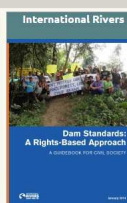
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Emerging infectious diseases: Antimicrobial resistance in the Greater Mekong subregion



**International Rivers**  
Dam Standards: A Rights-Based Approach



**WWF**  
Mekong Basin Assessment

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**Emergency response to artemisinin resistance in the Greater Mekong subregion. Regional framework for action 2013-2015**

The detection of P.falciparum resistance to artemisinins in border areas across the Greater Mekong subregion is a matter of great concern. Expanding access to artemisinin-based combination therapies (ACTs) is part of the reason for the remarkable recent success in reducing the global malaria burden.

Published by: WHO - Author: WHO,  
Updated on: Aug 2014  
File size: 2.9 MB - Language: English  
Keyword(s): antimalarial therapeutic use, artemisinin therapeutic use, drug resistance, malaria drug therapy  
Category: Health

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**Details**

Laos PDR, 8 in Thailand, 10 in Cambodia and 10 in Vietnam

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**Thank you!**  
**Questions, comments?**  
Your comments are most welcome!



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