

# MRC'S DROUGHT FORECASTING AND EARLY WARNING SYSTEM (DFEWS)

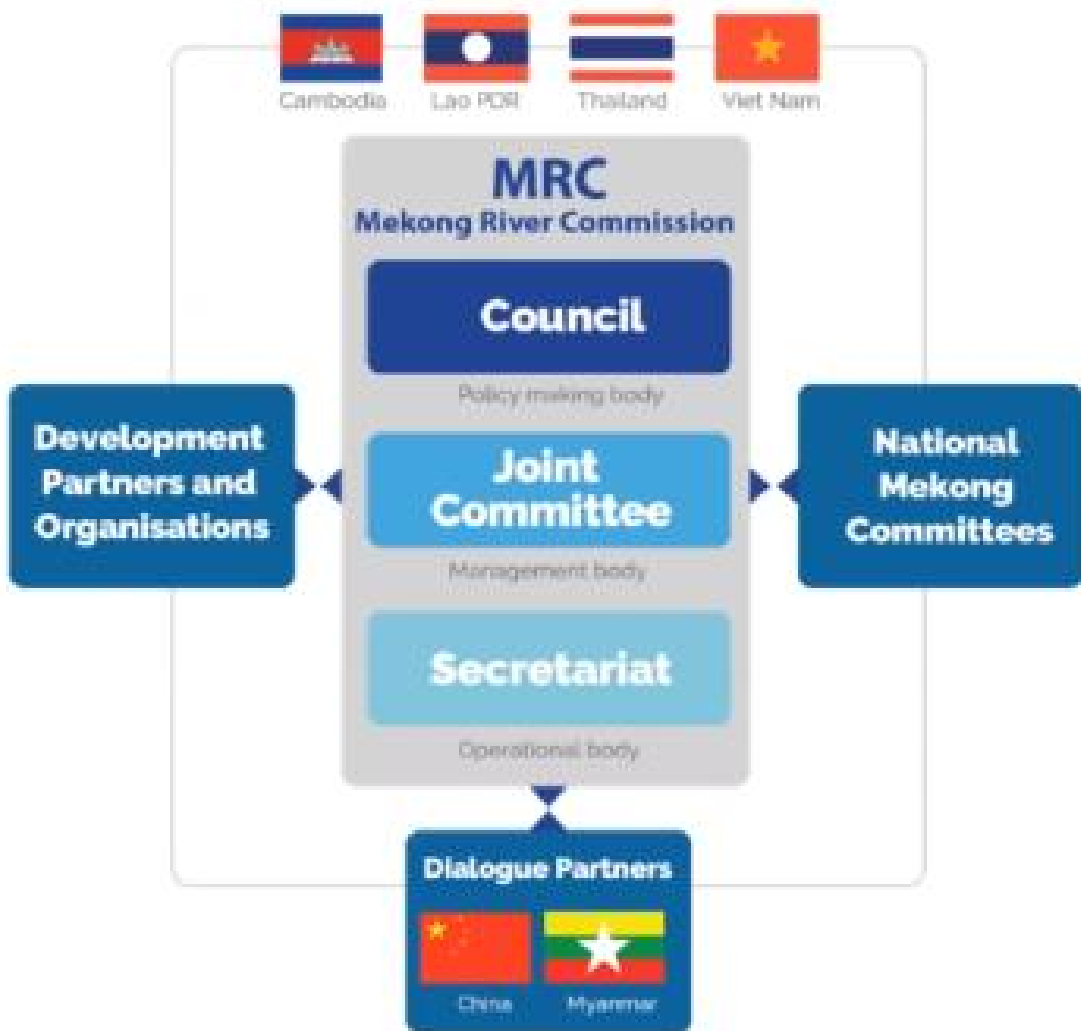
*Hour IX, Technical Expert on Drought Management and Mitigation/Technical Support Division*



- **THE MEKONG RIVER COMMISSION (MRC)**
- **MRC'S DROUGHT FORECASTING AND EARLY WARNING SYSTEM (DFEWS)**
- **CAPACITY BUILDING ON DROUGHT ASSESSMENT**

# THE MEKONG RIVER COMMISSION (MRC)

## MRC Governance Structure



The Mekong River Commission (MRC) was established through the 1995 Mekong Agreement by the Government of Cambodia, Lao PDR, Thailand, and Vietnam.

# THE MEKONG RIVER COMMISSION (MRC)

## Vision for the Mekong River Basin

An economically prosperous, **socially just** and **environmentally sound** Mekong River Basin

## Mission of the Mekong River Commission

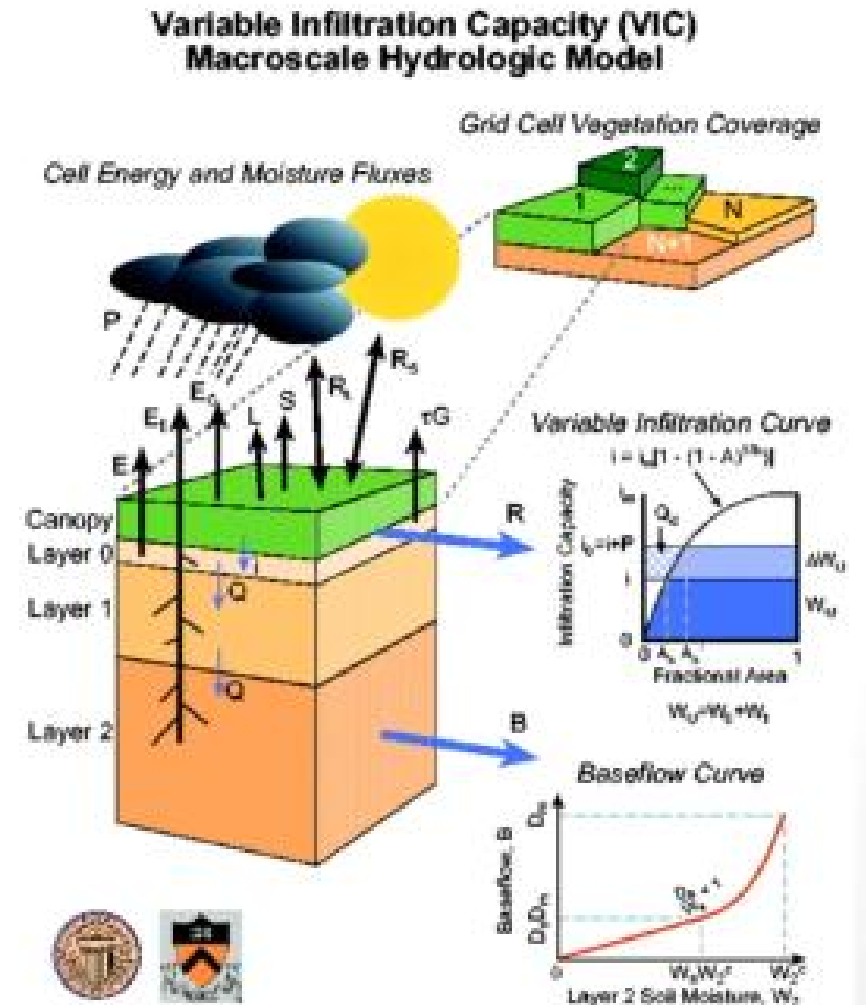
To **promote and coordinate sustainable management and development** of water and related resources for the **countries' mutual benefit** and the **people's well-being**



# The MRC Drought Forecasting & Early Warning System

The MRC Drought Forecasting and Early Warning System (DFEWS):

- Weekly drought monitoring: using
  - The Standardized Precipitation Index (SPI)
  - Index of Soil Water Fraction (ISWF)
  - Combined Drought Indicator (CDI)
- Weekly and monthly drought forecasting: using
  - North American Multi-Ensemble Model (NMME)
  - Variable Infiltration Capacity (VIC)
  - SPI, SRI, SMA, and CDI forecasts



# The MRC Drought Monitoring & Forecasting in the LMB

## Weekly drought forecasting on MRC front page

Mekong River Commission  
For Sustainable Development

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### Mekong river monitoring and forecasting

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From May 22 to 28, the LMB is forecasted to be abnormally dry over the middle part of the LMB with moderate and severe droughts in Kratie, Vientiane, Loui, Hong Sai Lengka, Mdoi Thang, Sakon Nakhon, Nong Khai, Nakhon Phanom, Khamsavan, Mukdahan, Yasothon, Sakon, Roi Et, Gans, Sakon, Maha Sarakham, Udon Thani, Nakhon Phanom, Chanthaburi, and Lai Chao. The forecasted droughts are caused by abnormally below rainfall.

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## Weekly drought forecasting on MRC DFEWS

Mekong River Commission

### Drought Forecasting and Early Warning for the Lower Mekong Basin

Forecast for: 20-05-2022

Weekly Forecast

Current Drought Index (CDI)

■ Severe Drought (CDI < -1.5)
 ■ Moderate Drought (CDI < -1.0)
 ■ Mild Drought (CDI < -0.5)
 ■ No Drought (CDI > -0.5)

The implementation focus on drought conditions and a combined early warning and early response system for drought conditions.

### This Week's Drought Summary

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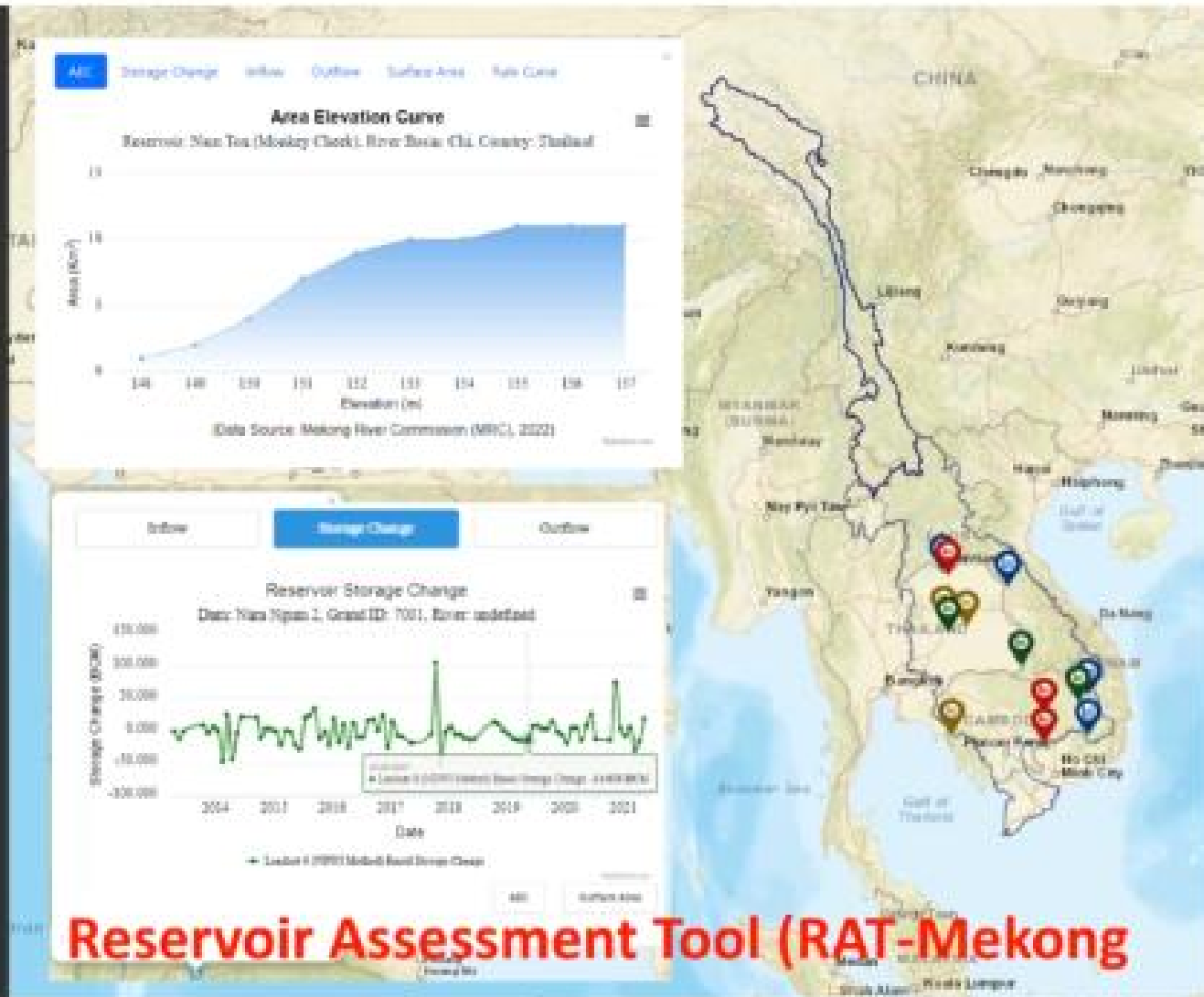
## Seasonal Outlook

### Seasonal Outlook

Seasonal Outlook

Seasonal Outlook

# The MRC Drought Monitoring & Forecasting in the LMB



MRC also has the Reservoir Assessment tools (RAT-Mekong) which provide bi-weekly analysis of hydrological conditions of some potential reservoirs based on high-resolution satellite data.

The tool aims to assist both flood and drought management activities for MRC Member Countries.

<https://portal.mrcmekong.org/map-service/rsat>

# CAPACITY BUILDING ON DROUGHT ASSESSMENT

MRCs provides the following coordination and supports for capacity building to MCs:

- National and regional trainings to MCs on drought monitoring and forecasting tools
- On-the-job-trainings to the MC's Associate Flood and Drought Forecasters
- Support MCs in building new monitoring stations on drought indicators including hydro-met, salinity intrusion, groundwater, and soil moisture

