

Outline

- 1 Introduction
- 2 Day 1 (Monday) - L2SWBM Technical Updates
 - L2SWBM background and technical overview
 - Recent and ongoing research projects
 - Version control and code repositories
 - Reality check (under the hood)
- 3 Day 2 (Tuesday) - Copulas and Federal Perspectives
 - Using Copulas
 - Federal Agency Partners
- 4 Day 3 (Wednesday) - Beyond the (Laurentian) Great Lakes
 - African Great Lakes
 - Mono Lake
 - NSF large lakes proposal (and other ideas)

Outline

- 1 Introduction
- 2 Day 1 (Monday) - L2SWBM Technical Updates
 - L2SWBM background and technical overview
 - Recent and ongoing research projects
 - Version control and code repositories
 - Reality check (under the hood)
- 3 Day 2 (Tuesday) - Copulas and Federal Perspectives
 - Using Copulas
 - Federal Agency Partners
- 4 Day 3 (Wednesday) - Beyond the (Laurentian) Great Lakes
 - African Great Lakes
 - Mono Lake
 - NSF large lakes proposal (and other ideas)

Water Balance Model for Lake Malawi

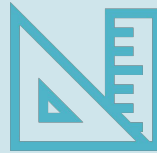
Howie Zihao Chen

6/4/2019

Outline



Importance of studying Lake Malawi



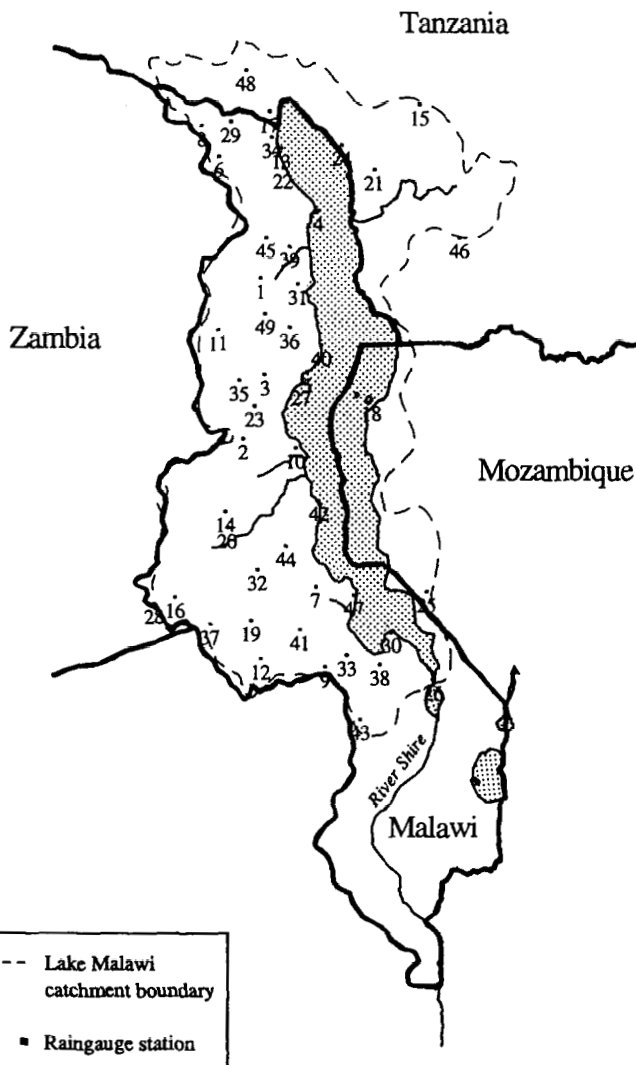
Methodology of the Water Balance Model



Current result and outcome

Raingauge Locations

Calder et al (1995); Journal of Hydrology



Legend

Malawi

Precipitation stations

Temperature stations

Calibration stations

Watersheds

Chire

Kaombe

Lake Chilwa

Lake Malawi

Lilongwe

Namitete

Owangawa

Rukuru

Shire

South Rukuru

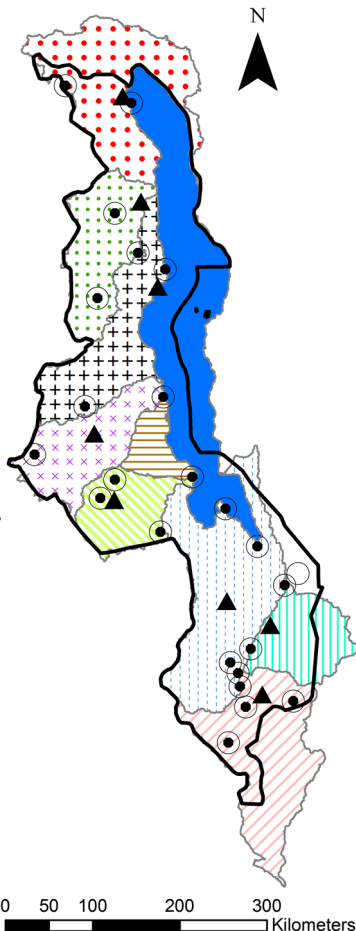


Fig. 2. Precipitation, temperature, and streamflow gauging stations

Importance of Studying Lake Malawi

- Hydropower in the Middle Shire
- Irrigation
- Fisheries
- Agriculture

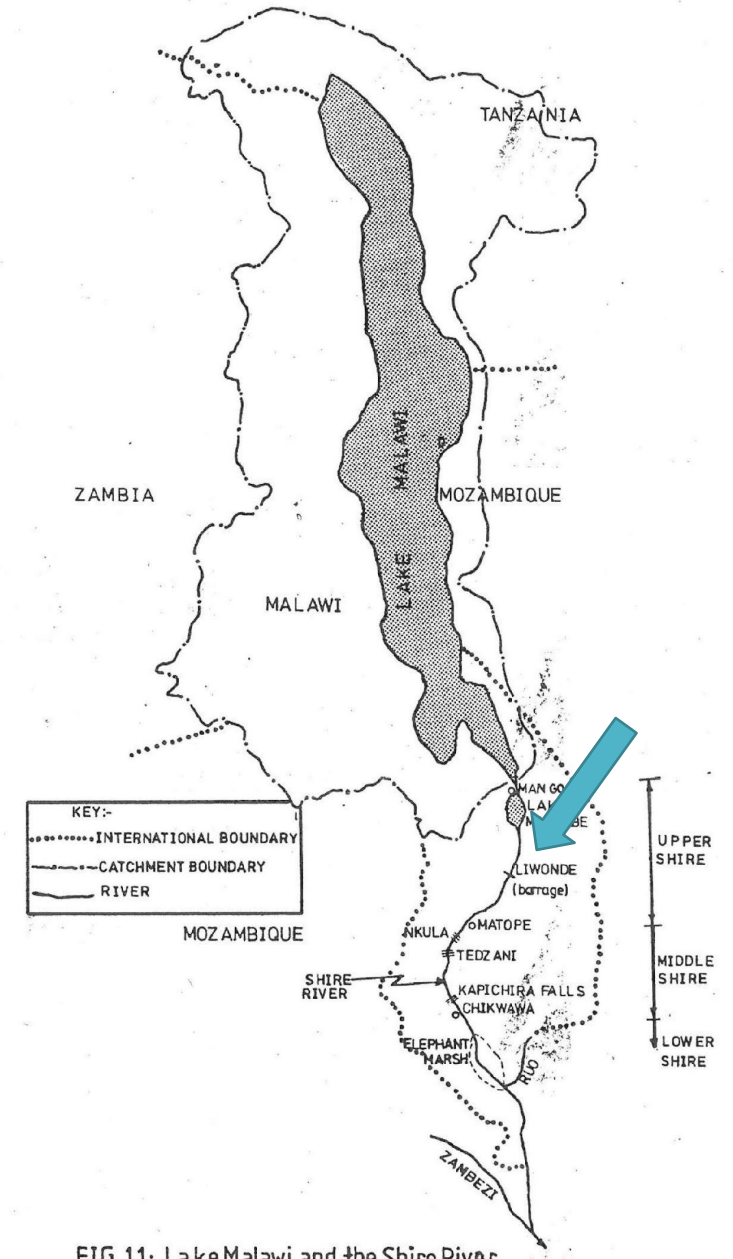


FIG 1.1: Lake Malawi and the Shire River.



Google









Nkula Falls Power Station

Shire River

Shire River

Google





DNR approves water plan

The Wisconsin Department of Natural Resources said Tuesday it will forward the City of Waukesha's request for Lake Michigan water to the Conference of Great Lakes Governors. Waukesha's application to purchase lake water from Oak Creek needs the unanimous approval of the Great Lakes governors.



L2SWBM and Copula Mini-Workshop

University of Michigan
School for Environment and Sustainability

July 2022