Difficulties in Spatial Analyses of Wide-Scale Geographies Conservancy 🧩



Basic Freshwater Condition Analyses

- Length of river
- Area of waterbody surfaces
- Volume of water

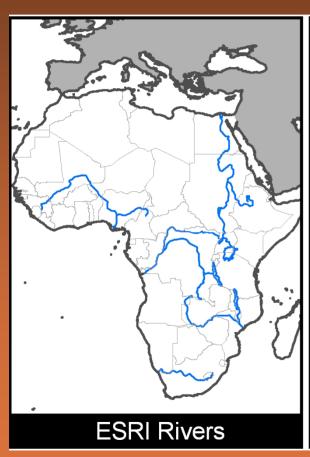
Currently, we are unable to perform these most basic analyses at a wide scale with much accuracy or precision because the data are not adequate.

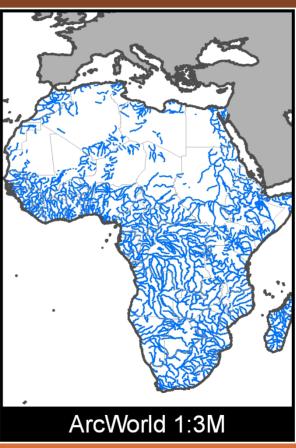
Problems in Spatial Analyses of Wide-Scale Geographies

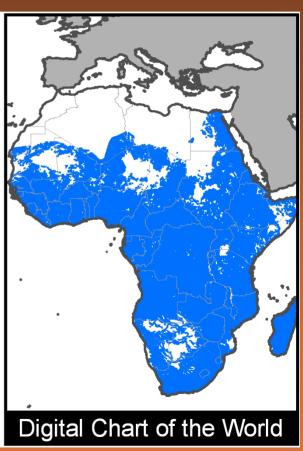
- Scale and scale differences of input data
- Lack of data
- Quality of data (i.e. human error, inadequate technology)
- Varied methodologies used to fill different portions of data set



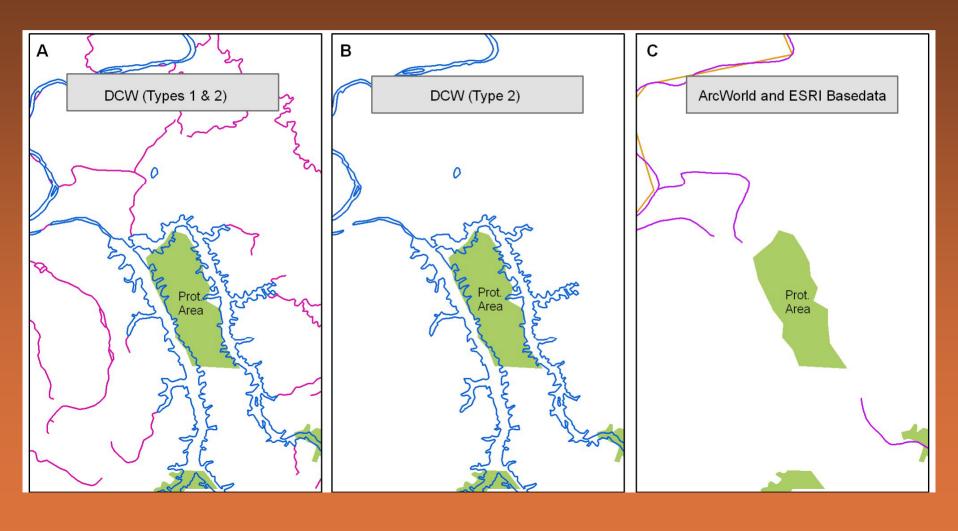
Problems of Existing Global Datasets



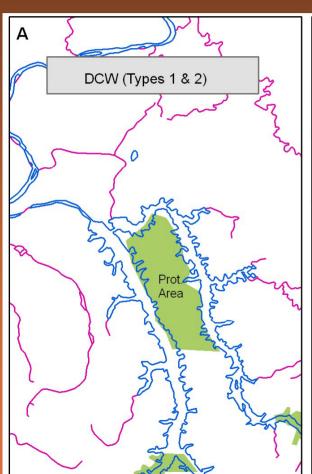


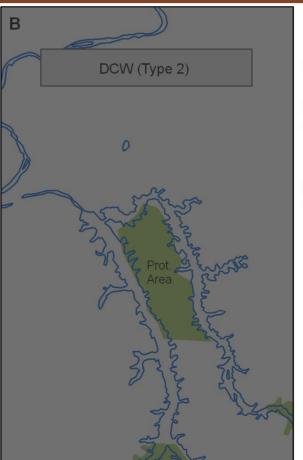


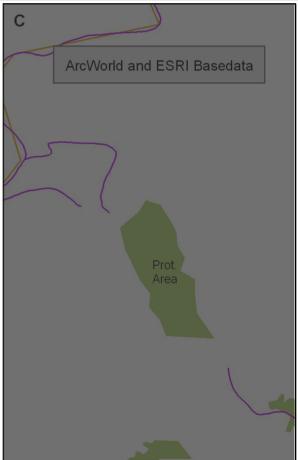




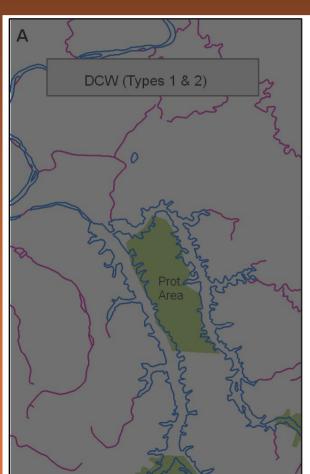


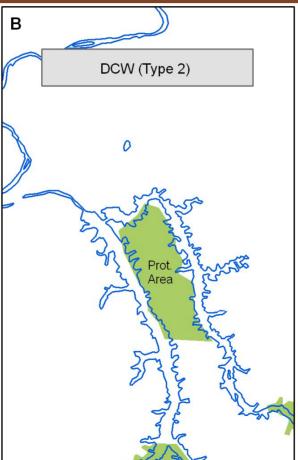


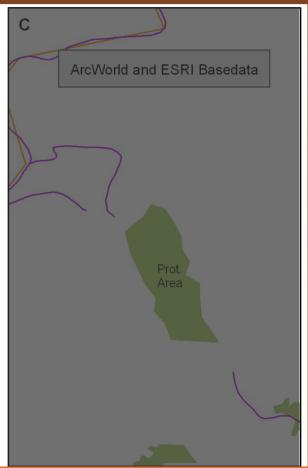










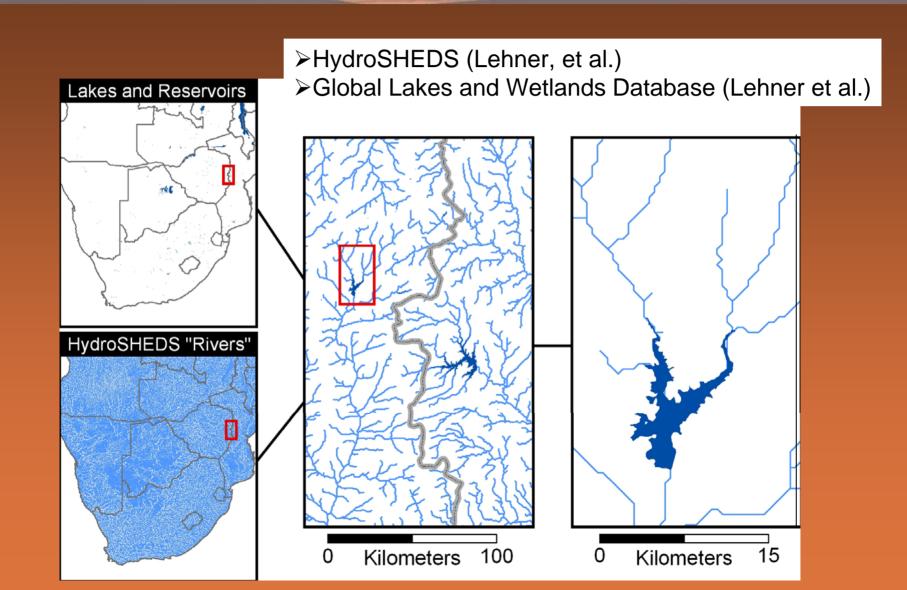








Improvement of Data





Positive Outlook!

Short Term:

- HydroSHEDS (Lehner, et al.)
- Global Lakes and Wetlands Database (GLWD) (Lehner, et al.)

Long Term:

- Continued improvement of the WDPA
- New technologies for data development
- Increased organizational capacity and skills