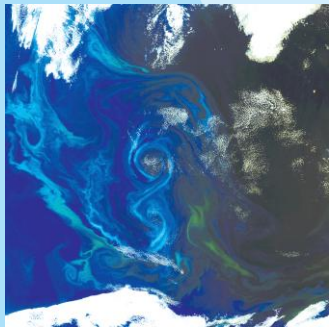




GEF Transboundary Waters Assessment Programme:

Contributing to Indicator-Based Management of Transboundary Aquatic Systems

Sherry Heileman (IOC/UNESCO), Liana Talaue McManus (UNEP)



Outline

- TWAP background and overview
- LMEs
- LMEs assessment methodology
 - Conceptual framework
 - LMEs modules/themes and Indicators
- Indicator results (examples)
- Assessment products
- TWAP Open Ocean themes and indicators
- TWAP marine components and Regional Seas
- Sustaining TWAP
- Socio-economic indicators

GEF International Waters (IW) Focal Area: Before 2007

Are GEF
investments
improving
aquatic systems?

...No indicator-
based
reference data
for these

...How may
GEF IW
prioritize its
investments?



Indicator-based Assessment of Transboundary Waters

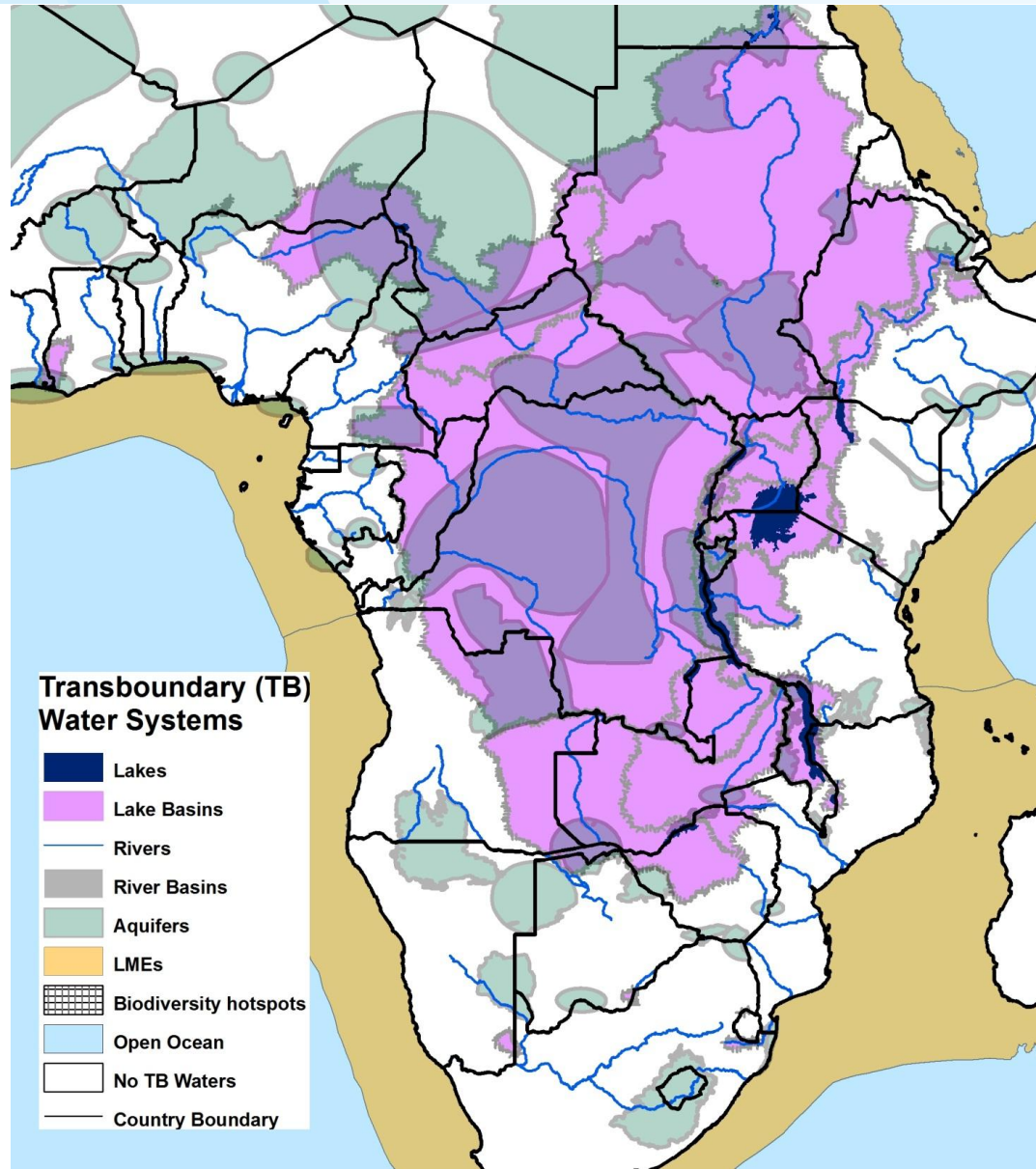
Water Systems: Groundwater, Lakes,
Rivers, Large Marine Ecosystems, &
the Open Ocean

Transboundary Nature: A significant level of complexity

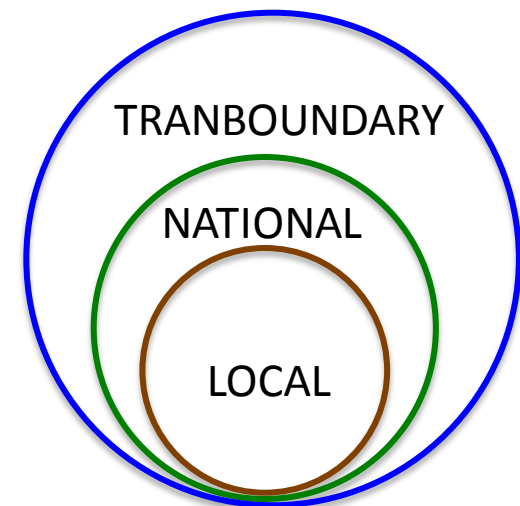


- Geopolitical boundaries define transboundary (TB) nature
- Resulting human interactions overlay on the natural processes that are linked
- TB properties are greater than sum of TB basin country units
- **Emergent properties** at TB scale are the major focus of assessment

Transboundary Water Systems: Nested Scales



- Surface and Groundwater Conjunctive Use
- Upstream and downstream connectivity
- Nested scales (natural; geopolitical)
- Attributes at cross-component analysis



Attributes of good indicators

- A measure of the state of a TB water body, subject to pressures
- Should have **directionality**: low to high values indicate trend from good to worse states
- Has a reference state; time series data with good spatial coverage is higher information content than a few points in time and space
- Variability in values is the statistical basis for discriminating bodies at risk, plus science-based threshold values where known

TWAP Full Sized Project (2013-15): Global Indicator-Based Assessment

- ◆ Long-term goal: Promote financing of **indicator (results) - based** management and development of transboundary water systems
- ◆ Project objective:
 - (1) Conduct **first global assessment** to assist GEF and other donors to improve the setting of funding priorities;
 - (2) Formalize **partnerships with key institutions** aimed at incorporating transboundary considerations

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_12333

