

August 2018

Lake Tanganyika's Fisheries and Fish Diversity:

Addressing Threats from Village to Basin-Scale



Colin Apse

Africa Freshwater Conservation Director

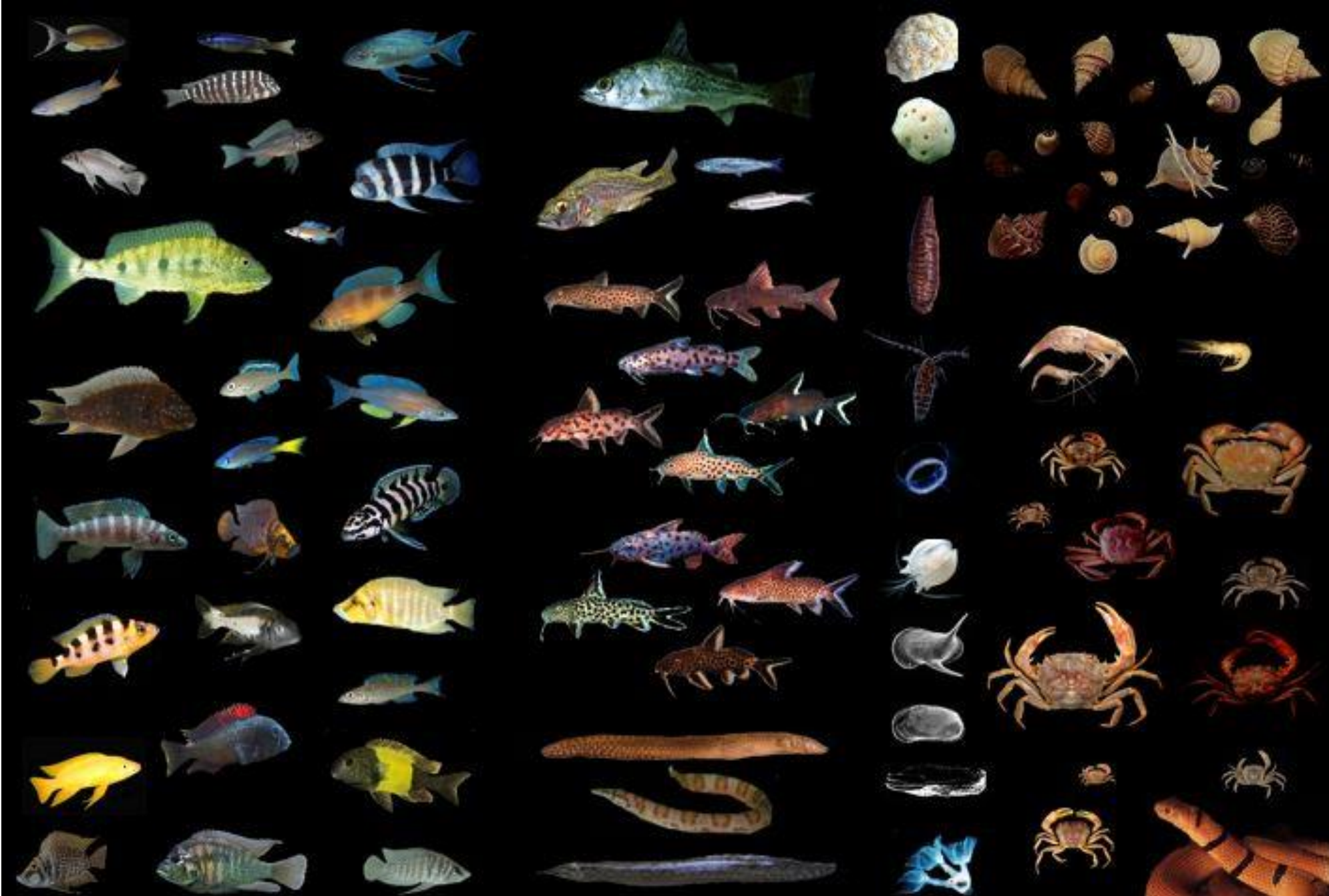
The Nature Conservancy

capse@tnc.org



- 17% of world's available freshwater
- Longest and second deepest lake
- Largely intact, but threatened
- High rate of population growth
- Relatively poor infrastructure

AFRICA | Lake Tanganyika's Freshwater Biodiversity





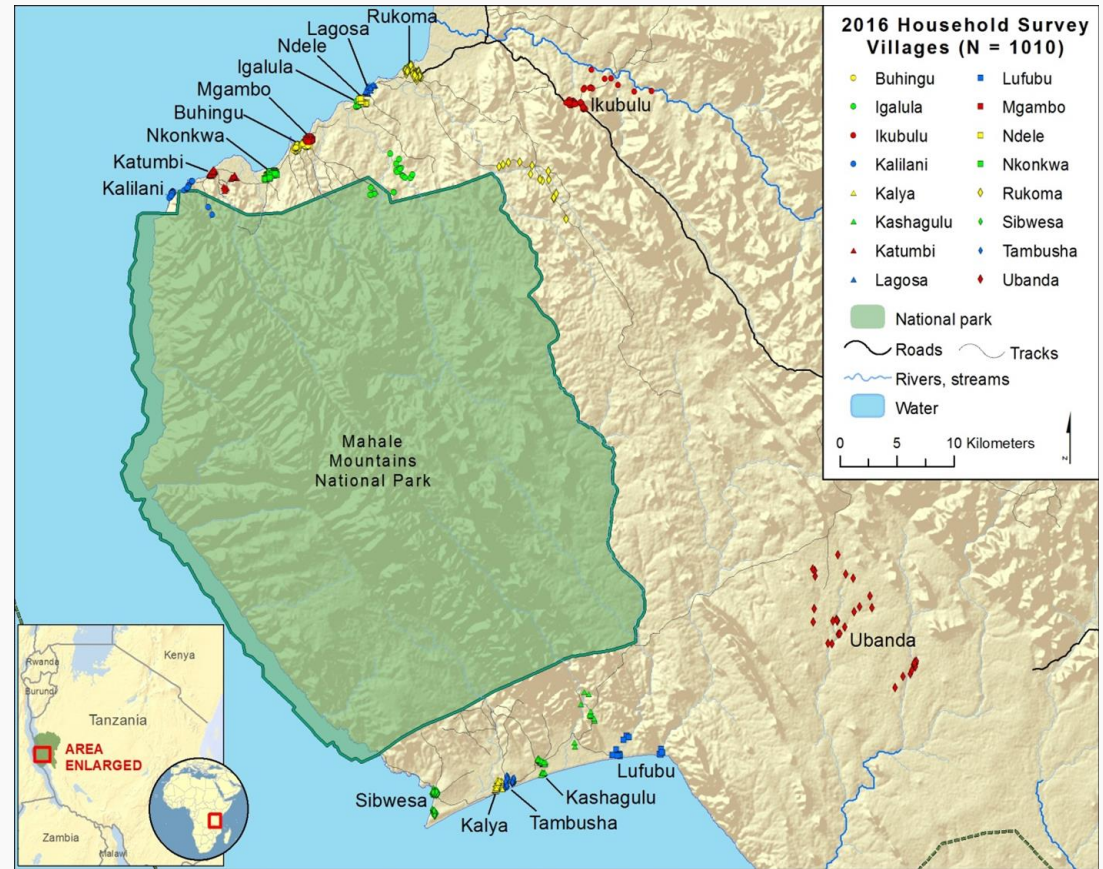
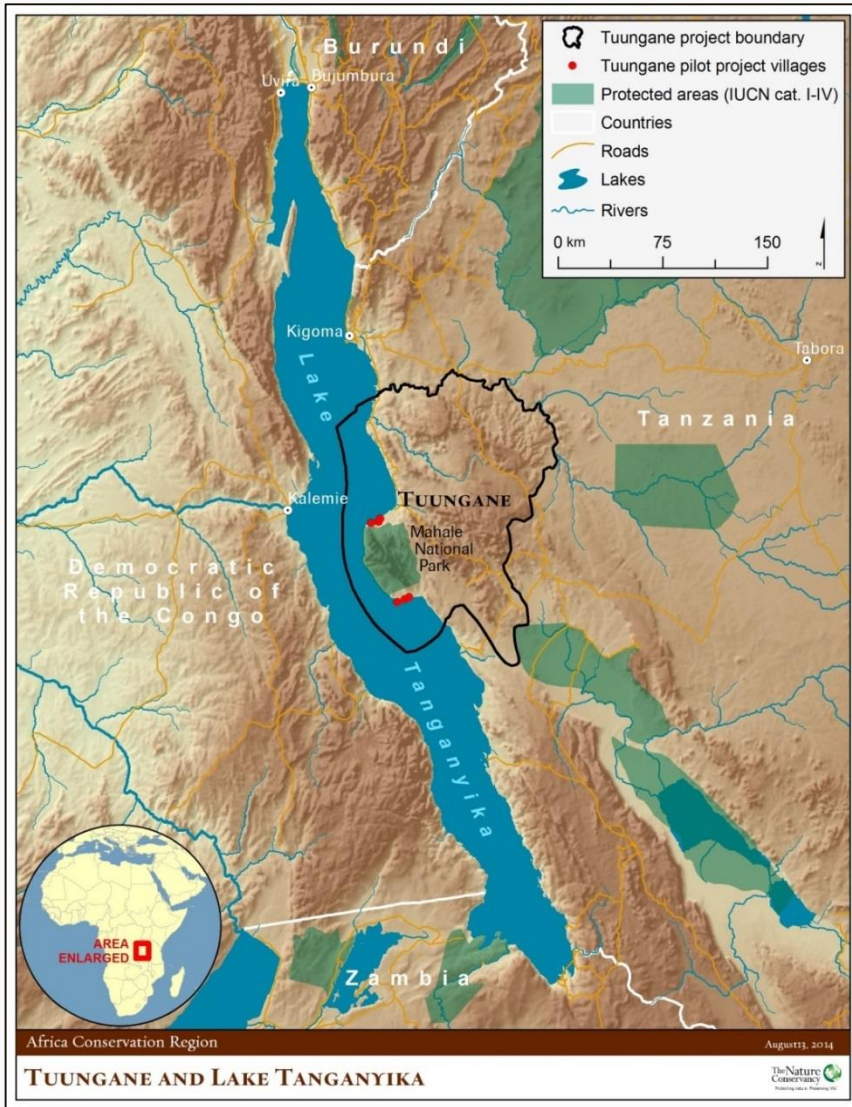
- Dominated by two clupeid species: *Stolothrissa tanganicae* and *Limnothrissa miodon* along with *Lates stappersii*
- Artisinal, open access
- Night fishing, kerosene lanterns given way to LED lights
- Doubling of fishing effort, decline of catch



AFRICA | Threats to Fishery & Biodiversity



AFRICA | Lake Tanganyika & The Tuungane Project





“The fish are here for us, so when they increase, it’s good for us, forever.”

—RAPHAEL KALAMBWE, Kashagulu Village Beach Management Unit (**BMU**) Officer, Forest Scout Leader, & Conservation Banks Member

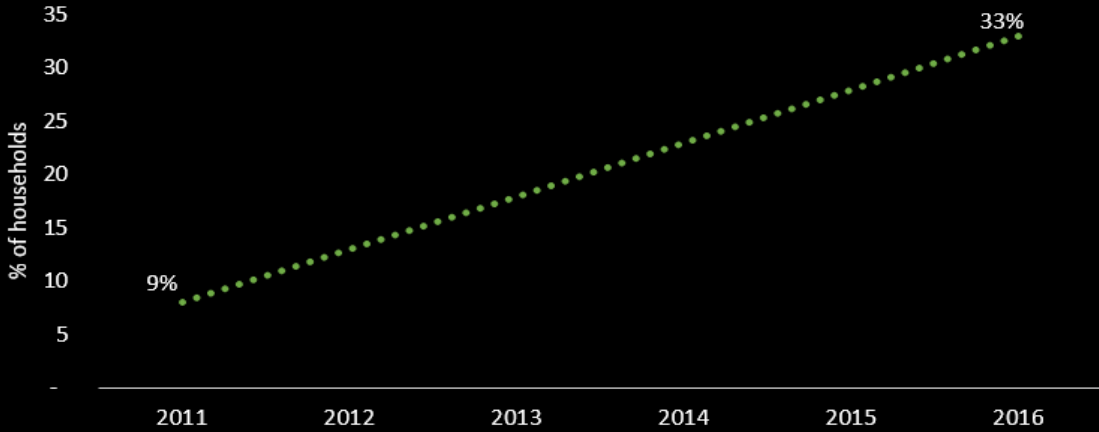
Kigoma, Tanzania







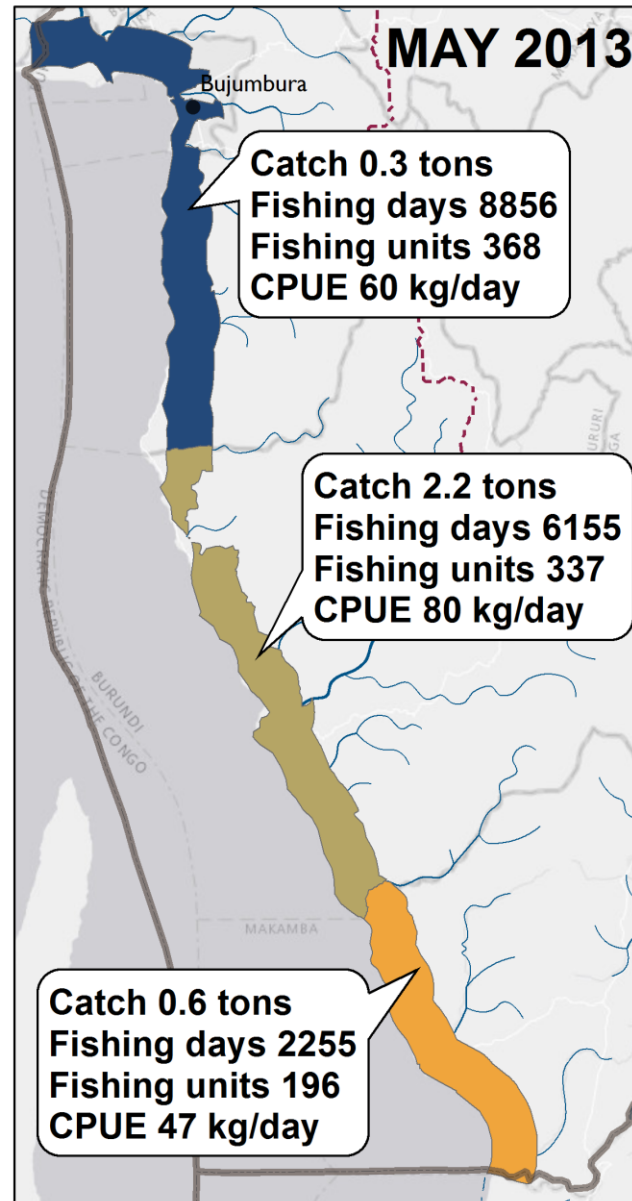
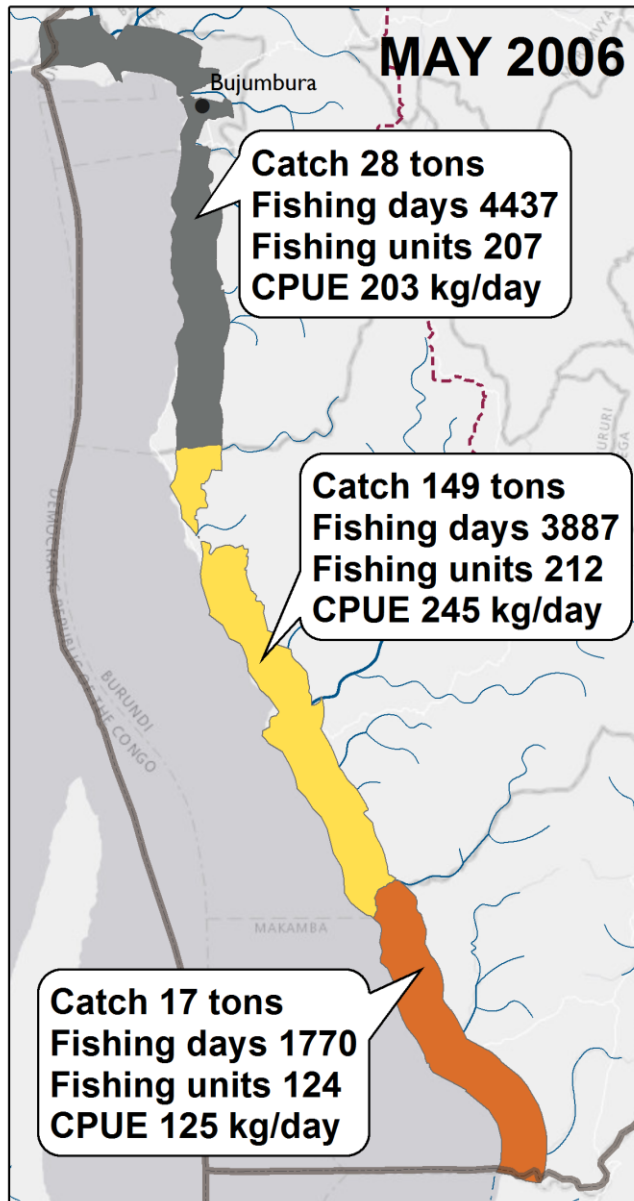
Perceived an increase in *dagaa* catch compared to 5 years ago (%)



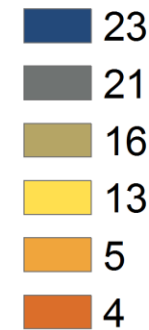
Statistical test: Wald F=2.932; p=0.09



Lates stapersii catch



Overall Number of Fish Species Recorded at Landings





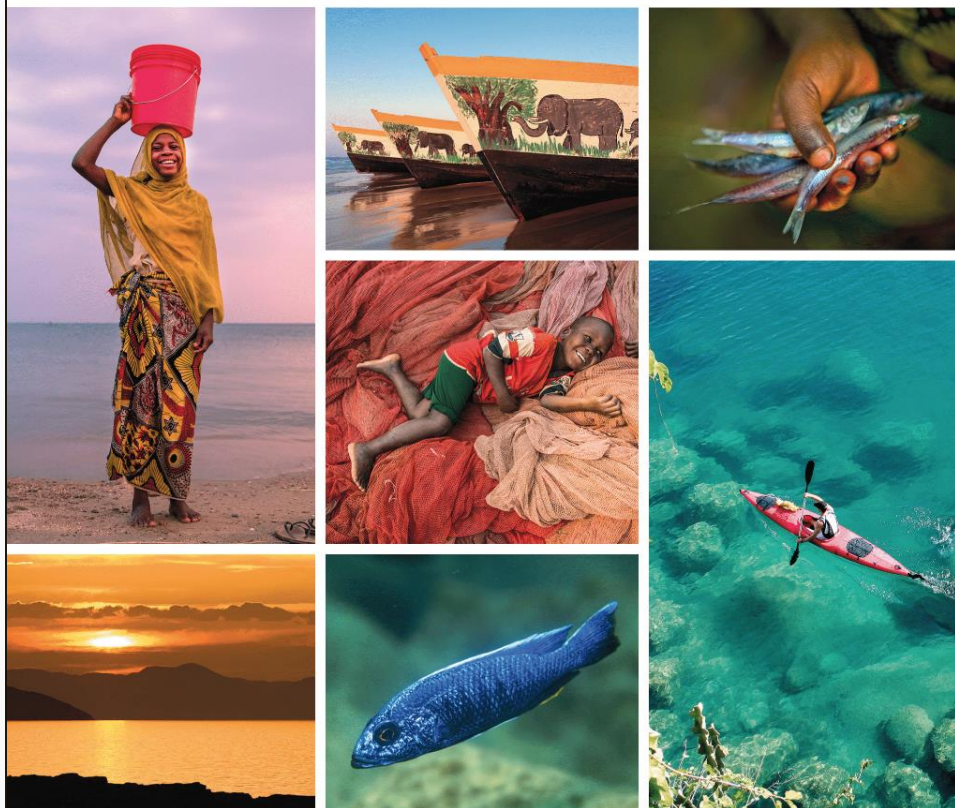
- Freshwater scientists from the four basin countries plus international scientists; Lake Tanganyika Authority (LTA); government officials all in a workshop process
- **22** sites agreed upon for KBA designation and management action

Burundi	3 sites
DRC	6 sites
Tanzania	9 sites
Zambia	4 sites

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AFRICA | Understanding Fishery Trends





AFRICA | Some Remaining Challenges

- Scaling and long-term finance of co-management approach
- Sedimentation & nutrient pollution
- Climate change
- Oil & port development



