



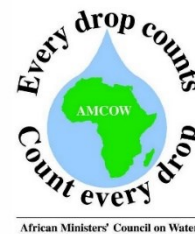
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Emerging pollutants in Lake Tana: Potential impact on fishery and its implication on human exposure

**UNESCO-IHP International Initiative on Water Quality
Case Study Series on Emerging Pollutants**

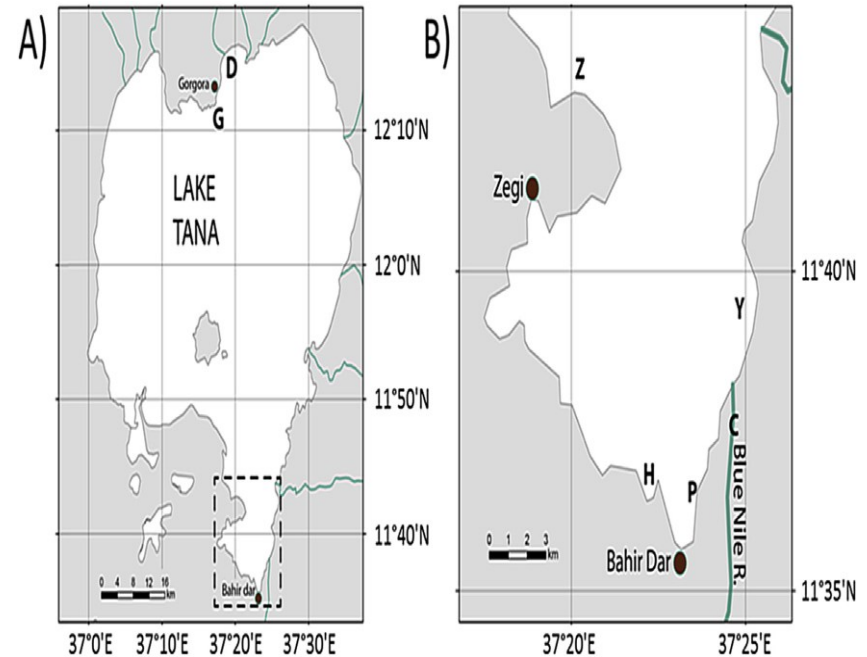
Presenter: Habiba Gashaw (Dr.)

**October 30, 2018
Libreville, Gabon**

Material and methods

Lake Tana

- The largest lake in Ethiopia
- Time of sampling-
October, 2014
- Samples
Fish, water and sediment
- In total 26 PFAS were analyzed



Result and discussion

- **PFAS in fish muscle ranged between**

- ❖ 2.1 ng/g (*L. gorguari*) and

- ❖ 0.85 ng/g (*O. niloticus*)

- **In water**

the highest PFAS concentration found is 5.6 ng/l at waste damp area

- **in sediment**

the PFAS concentrations showed similar contamination levels at all sites (0.2-0.5 ng/g dw)

Conclusion

Pollutants that are accumulated in water bodies could harm the fish and other biota then after many years human beings might be affected by those pollutants who are eating fish

Recommendations

- To prevent the pollution of water bodies the government of Ethiopia must educate the community on how to damp wastes
- Especially, engagement of young researchers in water governance and policy processes is the best way of water pollution prevention
- stake holders
- ❖ Governmental organization (eg. Ministry of water in Ethiopia)
- ❖ Educational organizations (eg. Universities)
- ❖ international organizations (Like UNESCO)



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Poly- and perfluoroalkylated substances
and fish muscle tissue from Lake Tana
human exposure

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THANK
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