

ICP Waters

International Cooperative Programme on Assessment and Monitoring Effects of Air Pollution on Rivers and Lakes

Current issues



Task Force meeting in Helsinki June 4-6







Change in leadership ICP Waters

- Kari Austnes leader of
 Programme Centre
- Heleen de Wit Chair

- Motivated by the Norwegian Environment Agency to strengthen the scientific leadership of ICP Waters
- Chair and leader of Programme Centre are both responsible for leading ICP Waters as centre for air pollution effects on surface waters, to produce cience-based support for clearair policy







Participation

- Welcome to new Focal Centres!
 - Armenia, Georgia and Spain
- Thanks to ICP Integrated Monitoring for continued good collaboration and organization of joint meetings
- Thank you National Focal Centres!
 - Attending and contribution to Task Force meetings
 - Timely and good quality contributions to databases
 - Participation in intercomparisons
 - Active contributions to thematic reports and publications





Participation in annual activities



| | | Chemical data (last yr of delivery) | Biological data (last year with data) | Participation in TF meetings 2016- 2019 | Participation in chemical intercomparison 2016-2017 | Participation in biological intercalibration 2016-2018 |
|--|--------------|--|---|---|--|---|
| | Armenia | 2012 | | • | | |
| | Austria | 2015 | | • | • | |
| | Belarus | 2015 | | | | |
| | Belgium | | | | • | |
| | Canada | 2018 | | • | • | |
| | Croatia | | | | | |
| | Czech Rep. | 2018 | 2017 | • | • | |
| | Estonia | 2018 | | • | • | • |
| | Finland | 2018 | | • | • | |
| | France | | | | • | |
| | Georgia | | | • | | |
| | Germany | 2018 | 2017 | • | • | • |
| | Ireland | 2018 | 2016 | • | • | • |
| | Italy | 2018 | | • | • | |
| | Latvia | 2019 | 2018 | • | | |
| | Lithuania | | | | • | |
| | Moldova | 2018 | | • | • | |
| | Montenegro | 2012 | | • | | |
| | Netherlands | 2016 | | • | • | |
| | Norway | 2018 | 2018 | • | • | • |
| | Poland | 2018 | | • | • | |
| | Russia | 2016 | | • | • | |
| | Serbia | | | | • | |
| | South Africa | | | • | | |
| | Spain | 2014 | | • | • | |
| | Sweden | 2018 | 2018 | • | • | • |
| | Switzerland | 2018 | 2017 | • | • | • |
| | UK | 2018 | 2015 | • | • | |
| | USA | 2018 | | • | • | |
| | Total | 21 | 8 | 23 | 22 | 6 |



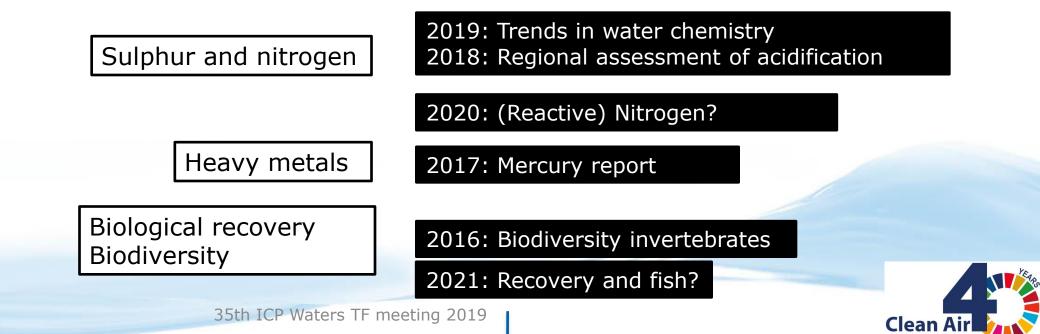




Programme aims

- Assess the degree and geographic extent of the impact of atmospheric pollution, in particular acidification, on surface waters
- Collect information to evaluate dose/response relationships
- Describe and evaluate long-term trends and variation in aquatic chemistry and biota attributable to atmospheric pollution







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2018-2019 Workplan

| 1.1.1.10 | Regional assessment of surface water acidification | Final report (2018) | ICP Waters with possible contributions from ICP Modelling and Mapping and ICP Integrated | | |
|----------|--|--|---|--|--|
| 1.1.1.11 | Prepare new thematic report for 2019 (suggested topic "Retention and effects of reactive nitrogen in surface waters"; to be decided at 2018 ICP Waters Task Force meeting) | Report (2019) | ICP Waters with possible contributions from other bodies under the Convention | | |
| 1.1.1.34 | Further explore the fish mercury database | 7 Report or scientific paper | ICP Waters | | |
| 1.4 | Improving the functioning of V | f WGE and EMEP and their subsidiary bodies | | | |
| 1.4.1 | Analyse effects monitoring networks within WGE to improve integrated working and reporting | Report on the effects monitoring network within WGE (2019) | WGE, ICPs | | |
| 1.4.3 | Develop a common portal to enable integrated assessments and to assist Parties in their implementation of air pollution strategies | Improvement of data access via the web (2019) | EMEP, WGE including ICPs and other subsidiary bodies | | |

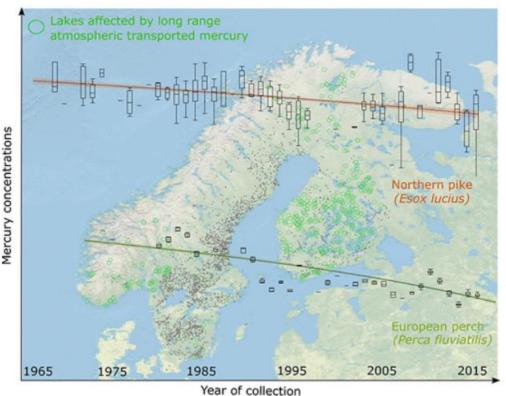




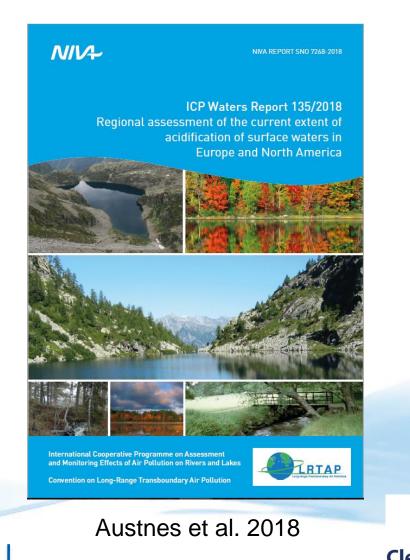
NIVA

Recent publications

Long-term decline in Hg in fish

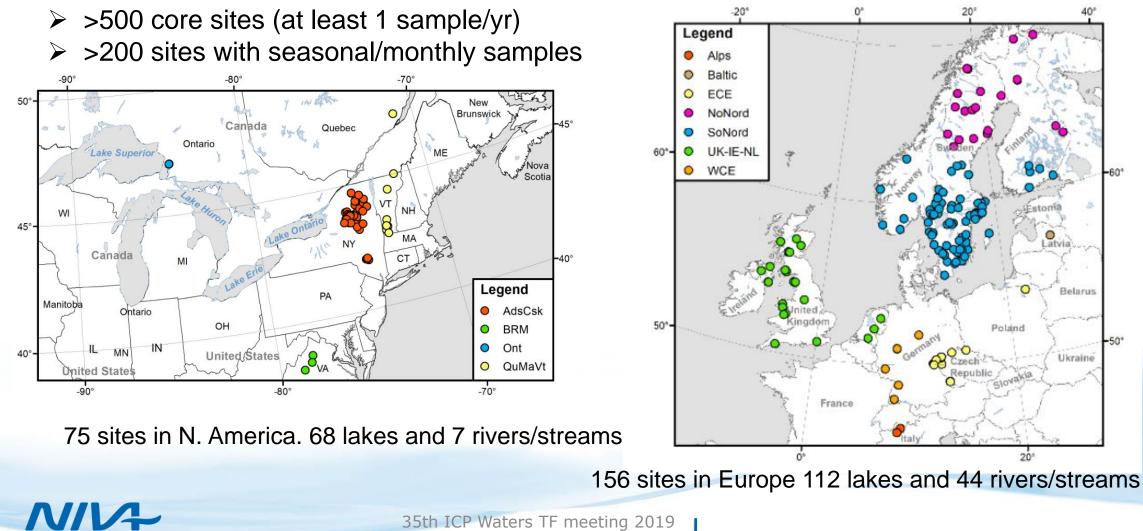


Braaten et al. 2019 Environ. Sci. Technol. 53, 1834-1843.



Clean Air

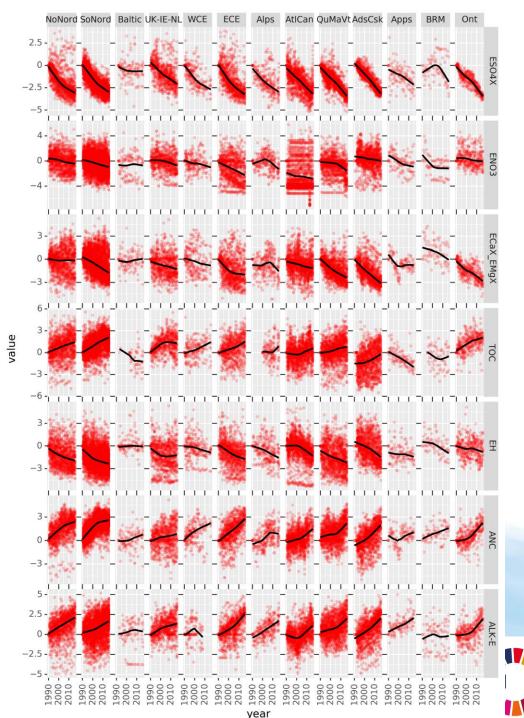
Extended database & current trend analysis





Ongoing trend assessment water chemistry

- 1990-2016
- Long-term trends
- Episodes
- Breakpoints
- Land use change & recovery



Current issues ICP Waters

- Data portal & open access
 - How is the open data access policy in your country?
- Trend assessment

 Presentation later today
- Support for NEC Directive
- Continued collaboration with ICP IM and other bodies under Convention
- Workplan 2020-2021

- Possible thematic reports
 2020-2021
 - Long-Term Changes in Watershed Retention of Nitrogen

Its Causes and Aquatic Consequences



John L: Stoddard

ManTech Environmental Technology, Inc., U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, OR 97333

- Ca limitation?
- Climate as a confounding factor?

35th ICP Waters TF meeting 2019 Biol

Biological recovery – fish?



Policy-relevant messages – annual report to WGE Based on activities programme centre & NFCs

- Minamata convention
 - Contributions to guidelines on monitoring in freshwater ecosystems
 - Presence at COP meetings
- Mercury budget Norway
 - TF on Reactive Nitrogen
 uses National Nitrogen
 Budgets

- Acidification report
 - Pointing out current status, data availability in acidsensitive areas (or lack there-of), usefulness of other databases (WFD) to assess acidification
 - Relevant to NEC Directive
- Climate change and landuse impacts on recovery
- EECCA countries





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Enjoy the meeting!

TF meeting 2010 in Helsinki



TF meeting 2018 in Warsaw



