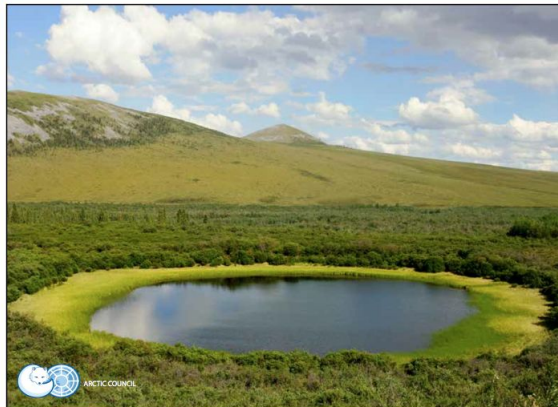
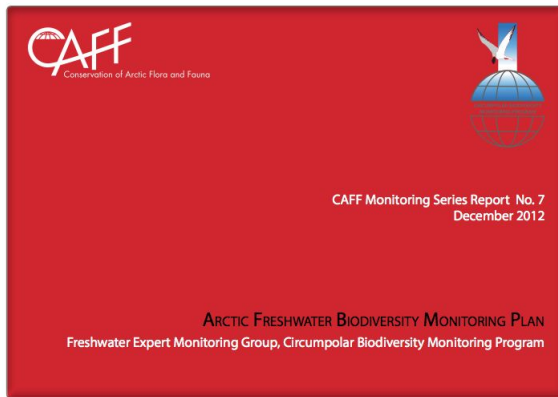


CBMP-freshwater activities and links to other ongoing projects/initiatives



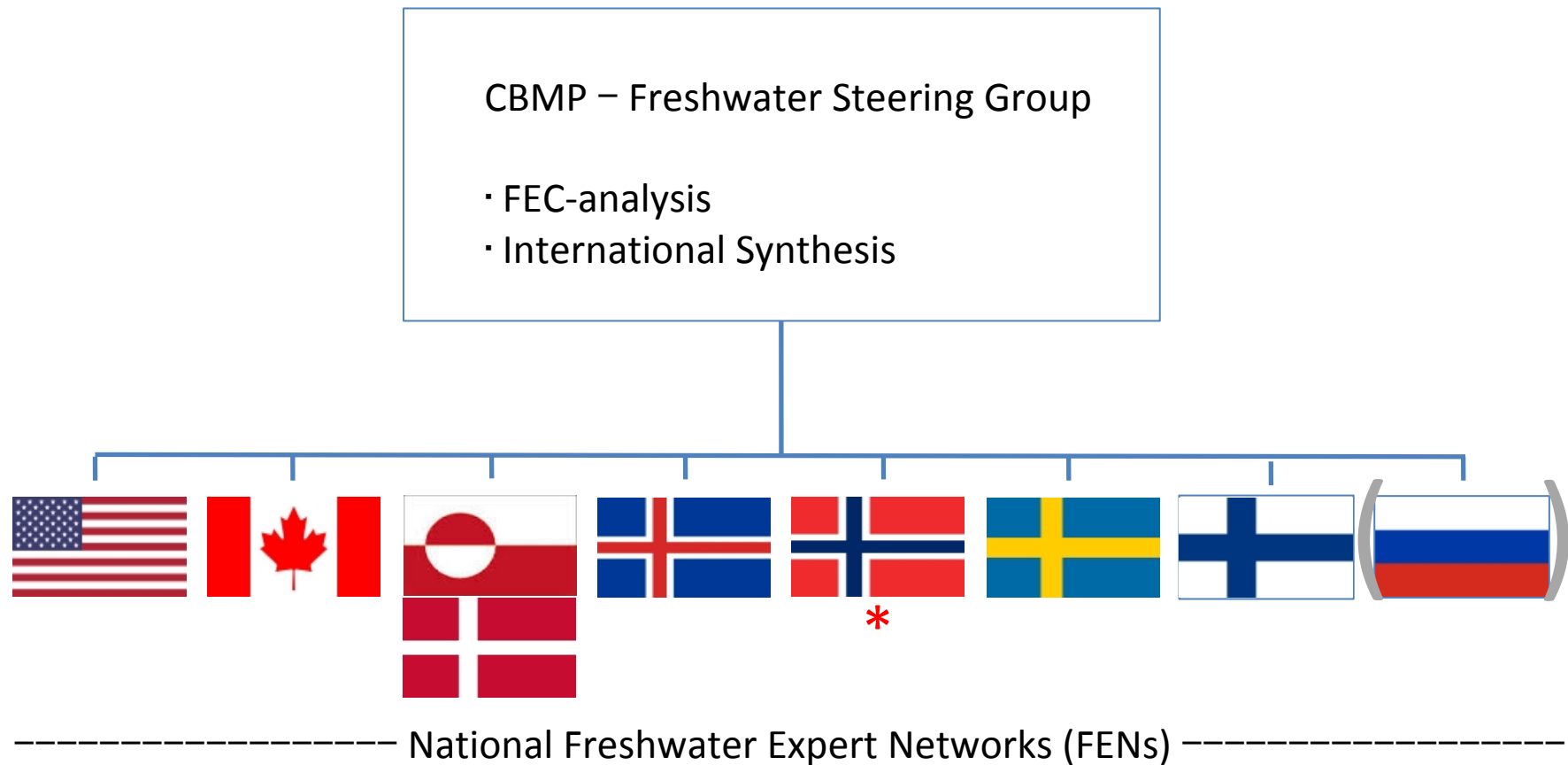
*Willem Goedkoop &
Joseph Culp
Co-chairs CBMP-freshwater*

FSG – Freshwater Steering Group



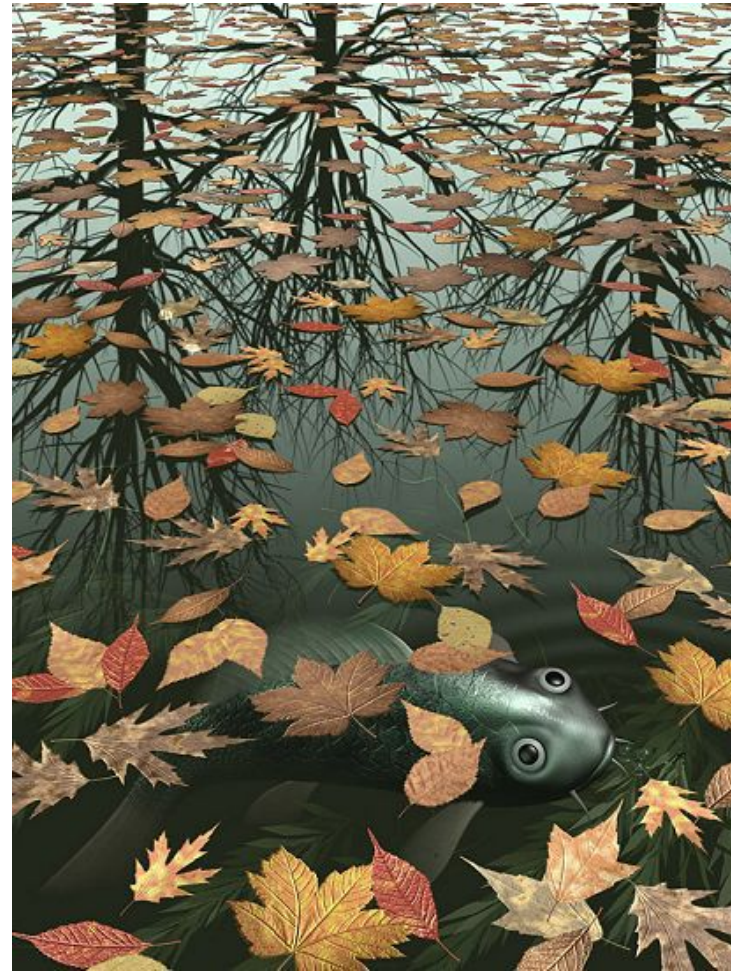
Missing: Chris Zimmerman (US), Petri Liljaniema (Finland), Russian rep, Permanent Members

Governance structure



Freshwater ecosystems are "mirrors of the landscape"

- Closely reflect changes in land use in the catchment
- Water chemistry as the template/habitat for freshwater biodiversity (= abiotic FECs)
- Water chemistry as early-warning indicators of ecological change



Original by Maurits Cornelis Escher

Outline of work 2014–2017 (1)

Project	Deadline	Objectives/Tasks	Deliverables
1. Establishing Baseline Knowledge and Data (FENs)	February 28, 2014	<ul style="list-style-type: none"> Review and revise contemporary metadata in table Collect historical and paleo metadata and add to table If data are published, get a pdf of paper or report 	<ul style="list-style-type: none"> Completed metadata table including data for each of 3 time periods
2. Metadata Synthesis (FENs)	October 1, 2014	<ul style="list-style-type: none"> Review metadata collected in Project 1 to summarize the available data for each time period and answer questions in TOR Create summary maps for FECs 	<ul style="list-style-type: none"> Summary report presenting an overview of the spatial and temporal coverage of data for each FEC for each time period (with maps)
3. Data Acquisition and QA/QC (FENs, FSG)	October 1, 2015	<p>FSG:</p> <ul style="list-style-type: none"> Identify QA/QC methods to be used <p>FENs:</p> <ul style="list-style-type: none"> Acquire FEC data identified in Projects 1 and 2 Conduct QA/QC on data Identify “ideal” monitoring stations based on data availability/quality 	<p>FSG:</p> <ul style="list-style-type: none"> QA/QC recommendations <p>FENs:</p> <ul style="list-style-type: none"> A dataset for each of the 3 time periods

Outline of work 2014–2017 (2)

Project	Deadline	Objectives/Tasks	Deliverables
4. Sample Methodology (FENs, FSG)	FENs: October 1, 2015 FSG: February 1, 2016	FENs: <ul style="list-style-type: none"> Summarize sample methodology in data and create recommendations FSG: <ul style="list-style-type: none"> Determine areas of sampling compatibility and incompatibility Created recommendations for sample methodology and frequency 	FENs: <ul style="list-style-type: none"> Report on sample methodology and recommendations FSG: <ul style="list-style-type: none"> Sampling recommendations for State of Arctic report
5. National Assessment Report (FENs)	September 1, 2016	<ul style="list-style-type: none"> Analyze data and conduct synthesis of state of national Arctic freshwaters (follow outline from FSG) 	<ul style="list-style-type: none"> National Assessment Report
6. State of Arctic Report (FSG)	February 19, 2017 (first draft)	<ul style="list-style-type: none"> Combine National Assessment Reports into overall synthesis of the state of Arctic freshwaters 	<ul style="list-style-type: none"> State of Arctic Report (first draft)

Links to other international processes and/or activities

- GEO-BON (1): GEO BON handbook will include a box on the Freshwater Monitoring plan in their freshwater chapter
- Geo-BON (2): A short description about CBMP-Freshwater delivered to GEO-BON home page
- Arctic Freshwater Synthesis (Focus on hydrology, Chair = Terry Prowse) – Participation of CBMP-Freshwater co-chairs
- INTERACT: Participation in proposal INTERACT2
- AMAP : Invitations to meetings, e-mail exchange

Recent OUTPUT from CBMP-Freshwater

- Annual performance reports
- Promotion video on Arctic Freshwater Biomonitoring
- Arctic Freshwater Biomonitoring poster
- Contribution to CBMP strategic plan 2013–2017
- Special session on “Ecological Change in Arctic and Alpine Freshwaters” at the Joint Aquatic Sciences Meeting in Portland in May 2014
- Country ”one-pagers” implementation reports



Thank you!