CEON: The terrestrial Circum-Arctic Environmental Observatories Network:

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The CEON Concept

• The concept of a terrestrial CEON was introduced at a FARO meeting at ASSW 2000.
• Promote sustained high quality environmental observations in the Arctic.
• Promote dissemination of environmental observations to Arctic researchers.
• Encompass & build on the strengths of existing stations & environmental observatory networks within the Arctic.
Rationale of CEON

• Dramatic changes are occurring in terrestrial systems of the Arctic. Drivers of change include processes originating within & outside of the Arctic system.
• Change assessment & predictive power is low & limited/threatened by loss of sustained observational time series.
• To improve these – need observation platforms that provide adequate, diverse & sustained time series observations that cross international boundaries.

• Starting points for CEON include enhancement of established infrastructure and facilitation of ongoing research & monitoring as well as improving transfer of knowledge at an international level.
Scandinavian/North European Network of Terrestrial Field Bases
European Network for Arctic-Alpine Environmental Research
EMAN
Environmental Monitoring & Assessment Network (Canada)
ISIRA
Interim Scientific Initiation in the Russian Arctic
National (US) Ecological Observatory Network
International Long-Term Ecological Research Network

SCANNET
ENVINET
NEON
EMAN
CEON
ISIRA
ILTER (GTOS/GCOS)
ILTER
International Long-Term Ecological Research Network
The ‘Ideal’ Network Design

- Broad range of environmental measurements.
- Standardized methodology & instrumentation.
- Integrated data archive.
- Frequent synthesis efforts.
- Refinement of monitoring over time.

BUT!!!!

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The Realistic Network Design

- Partners are autonomous, some overlap of questions/measurements.
- Large potential for integration & standardization.
With Time..... $n+1$

- Increased collaboration.
With Time….. $n+2$

- Increased Integration
With Time..... $n+3$

- Increased broader impacts.
- Focus on Win-Win scenarios.
Thank you....

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- [www.cevl.msu.edu/ael/projects/ceon.html](http://www.cevl.msu.edu/ael/projects/ceon.html)
- Soon to be…. [www.ceoninfo.org](http://www.ceoninfo.org)