

Project information

Project title

Climate variations and contaminants in the Pasvik border area – effects on limnic ecosystems

Year

2011/2012

Project leader

Guttorm N. Christensen, ApN

Participants

- ApN Project leader - Guttorm N. Christensen
- Bioforsk: responsible contact person - Paul Aspholm,
- UiT: responsible contact person - Per-Arne Amundsen,
- NINA: responsible contact person - Bjørn Meidel Larsen
- NIVA: Marit Mjelde

Flagship

Terrestrial, Theme: Ecosystem effects of extreme climate events and season

Funding Source

Fram Centre, EU-Kolarctic

Summary of Results

The proposal "Trilateral cooperation on Environmental Challenges in the Joint Border Area" are submitted to the Kolarctic programme (Interreg). The Programme Kolarctic ENPI CBC is one of the ENPI financing instruments of the European Union. The ENPI programmes are being implemented on the external borders of the EU. The participants from Norway are Akvaplan-niva, Bioforsk, University of Tromsø, NIVA, NINA (Trondheim), NILU (Kjeller) and the County of Finnmark (Project coordinator on Norwegian side). In addition there are several partners in Russia and Finland.

The activities in the project are:

Activity 1. Model calculations to obtain knowledge and information on the emissions, dispersion and deposition of airborne pollutants in the transboundary area for support in the estimation of the effects of climate change and ecological state. Use of meteorological observations to assess climate change.

Activity 2. Comparison of national and international classifications of ecological state and environmental health.

Activity 3. Influence of pollution and climate variation in small rivers indicated by freshwater pearl mussels.

Activity 4. Effects of hazardous substances, water level regulation and climate change on the ecological condition on the of the River Pasvik and Inari Lake.

Activity 5. Evaluation and development of existing lake monitoring network of River Pasvik catchment area.

Activity 6. Communication and Dissemination of Information.

Activity 7. Project Management and Administration.
Funding will be decided in December 2011.

Figur 1: Limnic system Pasvik:



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Published Results/Planned Publications

No publications – funding for a proposal.

Communicated Results

- 2 workshops including all the Norwegian participants in the proposal – (May and June)
- 1 workshop with the County of Finnmark (May)
- One workshop where all institutes working with freshwater systems in the Fram Centre were invited (November)

Interdisciplinary Cooperation

This has been discussed in the network and will be included in the next proposal to Fram Centre and other funding possibilities.

Budget in accordance to results

The funding from the Fram Centre made it possible to include several more institutes into the proposal. A new network is established because of the funding from the Fram Centre.

Could results from the project be subject for any commercial utilization

No

Conclusions

The workshops led to new ideas, new knowledge and an establishment of new network for scientist working in the northeastern part of Norway (Pasvik area). The new group of scientist will cooperate and develop proposals for doing more research in the Pasvik region. Existing long-term monitoring efforts related to climate, water chemistry, and fish and zooplankton in the Pasvik watercourse will be integrated and expanded into a comprehensive observation system for adaptive monitoring (Limnosystem Pasvik). Interdisciplinary topics related to cultural heritage and indigenous people will be included in future studies.

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