



Ecological monitoring of nature ecosystems: national and international standards and implementation experience in North-Western Federal District

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SPb CPO “Biologists for nature
conservation”

Baltic Fund for Nature

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Baltic Fund for Nature



St. Petersburg charitable public organisation
“Biologists for nature conservation”

Created in 1995

as a section of the **St. Petersburg Society of Naturalists**
– one of the oldest natural scientific societies in Russia
established in 1868 at St. Petersburg University

Strategy - attraction for the nature conservation projects
experts from different organisations

Our main goals



1. Promoting practical application of scientific research results; involvement of Russian experts in implementation of international environmental projects and programmes in the North-West Russia;
2. Promoting the development of protected areas' network in the North-West Russia;
3. Promoting and supporting the development of nature-friendly and sustainable economy, including environmentally safe agriculture, in the North-West Russia;
4. Supporting environmental education and awareness in the region, including the development of eco-tourism;
5. Collaborating with state institutions and local authorities via exchange of environmental information, consulting and promoting the development of strategies and action plans on biodiversity preservation, research and other nature conservation activities.

Main partners in Russia



- Ministry of natural resources and ecology of Russian Federation
- Federal Supervisory Natural Resources Management Service of North-Western Federal District
- Government of St. Petersburg
- Government of Leningrad region:
 - Committee for protection, control and regulation of the use of wildlife fauna of Leningrad region
 - Committee for natural resources of Leningrad region
- Saint-Petersburg State University
- Karelian Research center RAS
- Zoological institute RAS
- Botanical institute RAS
- Pskov pedagogical institute
- Association of zapovedniks and national parks of the North-West Russia
- “Green World” (Sosnovyi Bor)
- Ecocenter “Zapovedniki” (Moscow)
- Biodiversity Conservation Center (Moscow)

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Our main foreign partners:



WWF

WWF Швеции
WWF Дании
WWF Финляндии
WWF России
WWF International



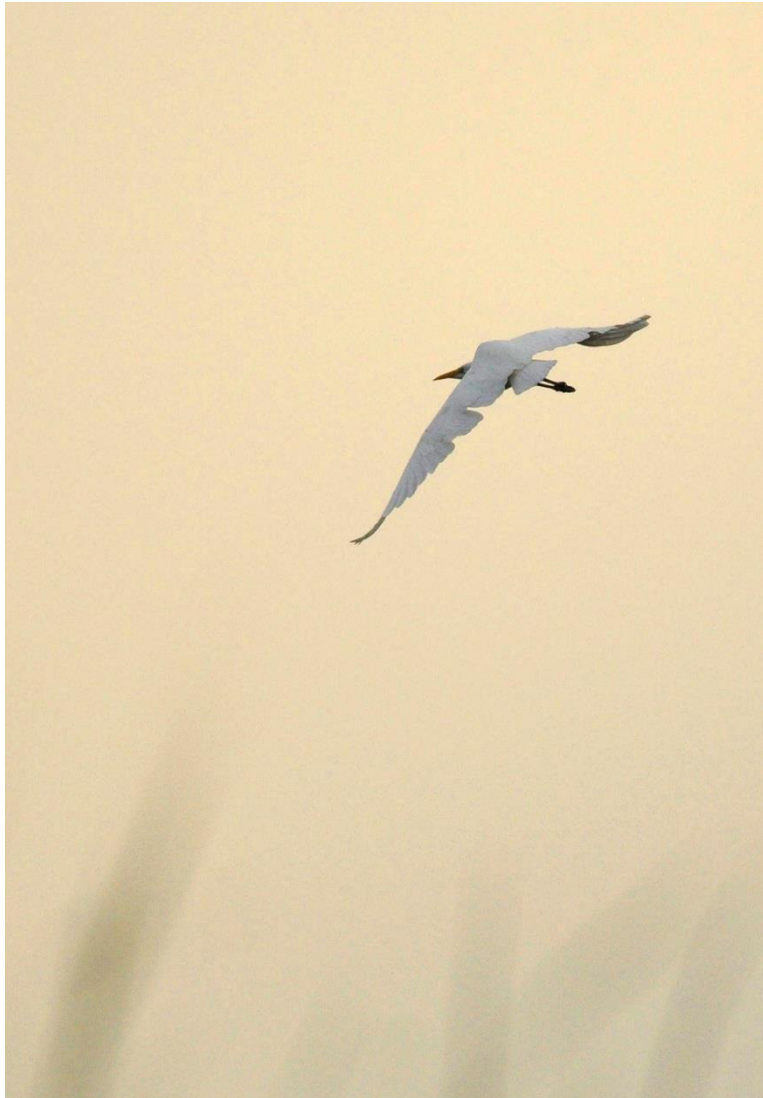
уровень



– Пятый

уровень

Importance of ecological monitoring



- At the south coast of St. Petersburg in “The South coast of the Neva bay” nature reserve first observation of Great White Egret (*Ardea alba*) was made in the end of September 2015. Distribution of the species to the North from common areal may be caused by climate change.

(photo by S. A. Cousov)

HELCOM Baltic Sea Action Plan

Nutrients on natural levels

Natural levels of oxygen and algal blooms

Viable populations of species

Natural marine and coastal landscapes

Natural distribution of fauna and flora



Thriving and balanced communities

EUTROPHICATION

BIODIVERSITY

MARITIME TRAFFIC

HAZARDOUS SUBSTANCES

No alien species

Hazardous substances on natural levels

Minimum sewage and air pollution

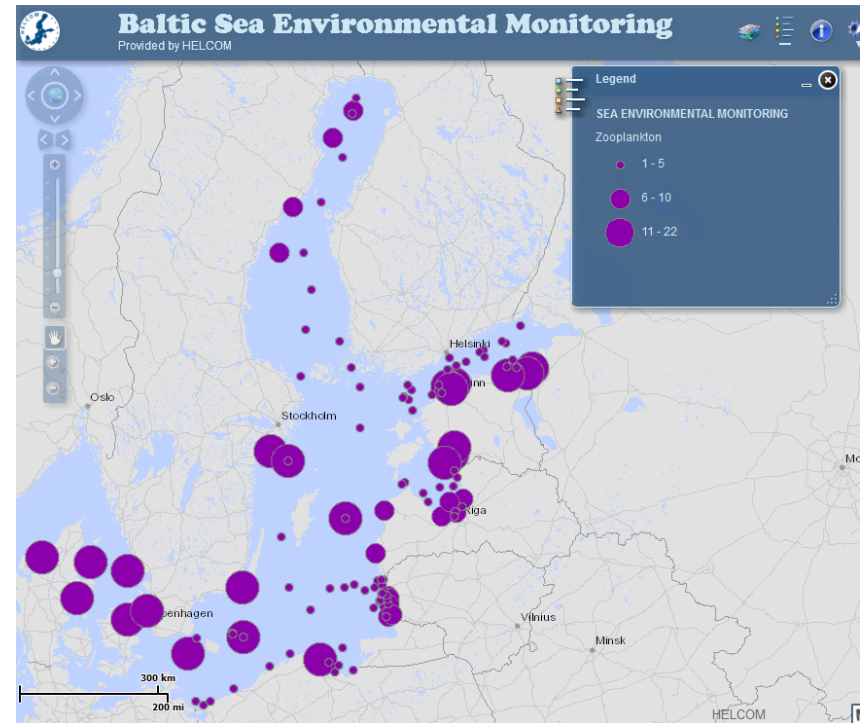
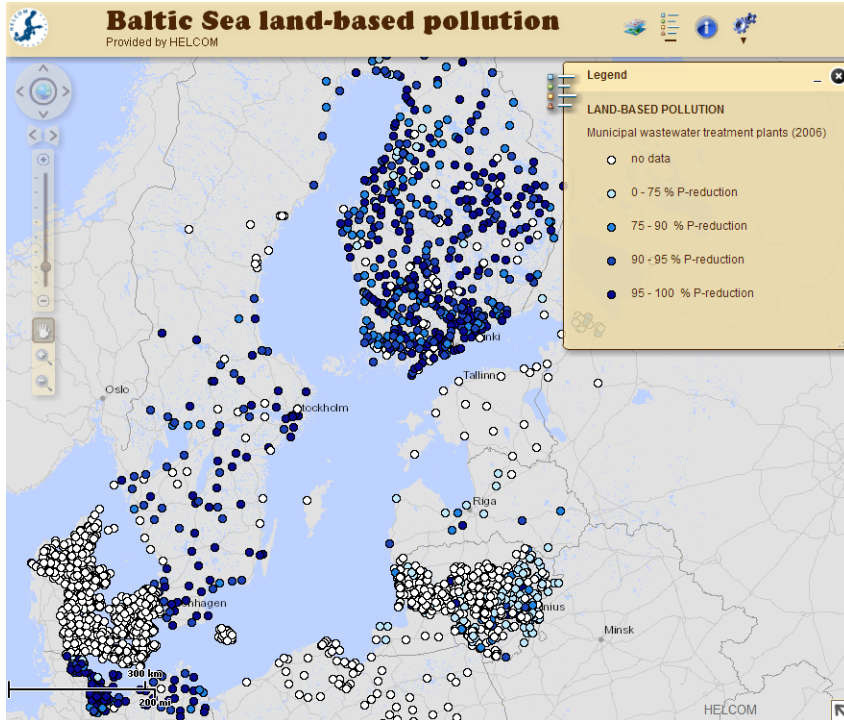
No illegal or accidental discharges

Healthy wildlife

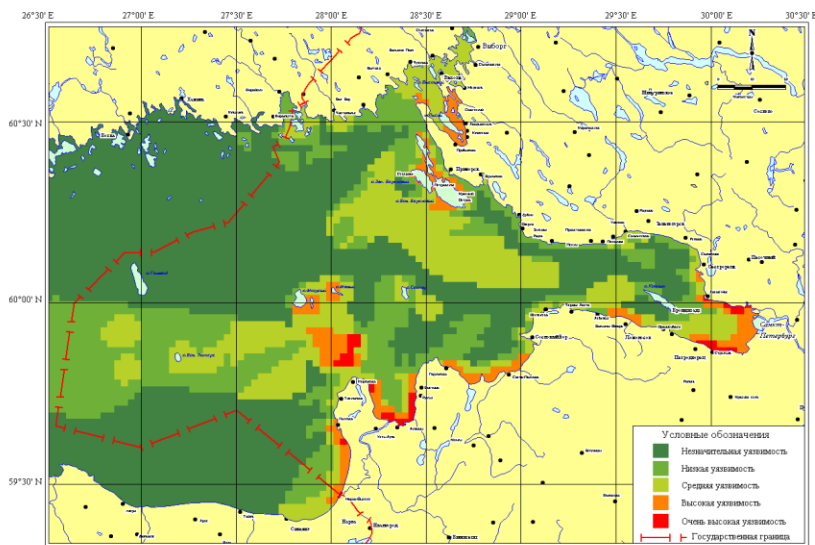
All fish healthy to eat



- The current standards of environmental monitoring in the Baltic Sea region are facilitated by internationally approved (including Russia) Baltic Sea Action Plan.
- The key goal of the international monitoring is to develop the open online GIS-database of key parameters for decision making for sustainable development of the region.

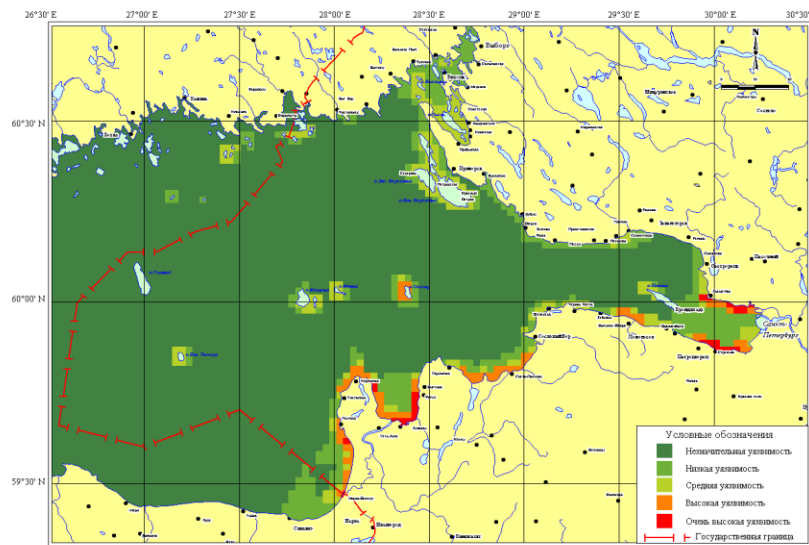


Maps of seasonal sensitivity of the Gulf of Finland to oil pollution based on the integral biological data



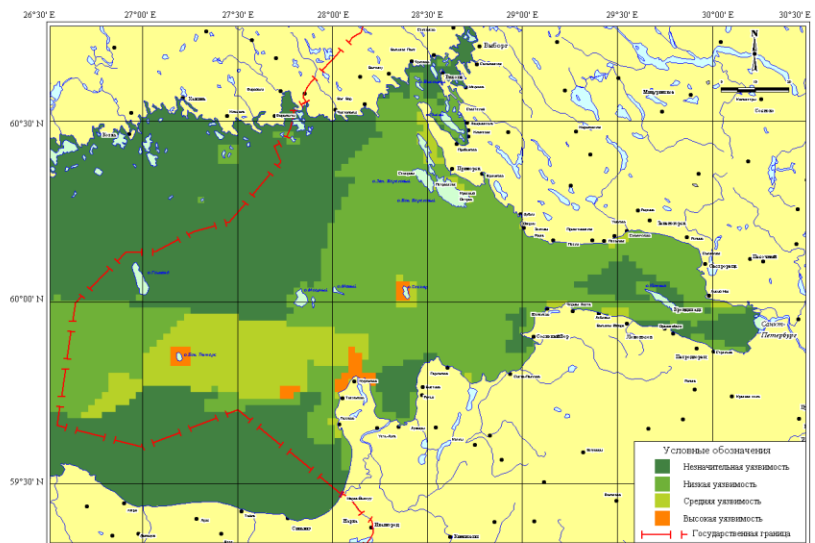
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Весна



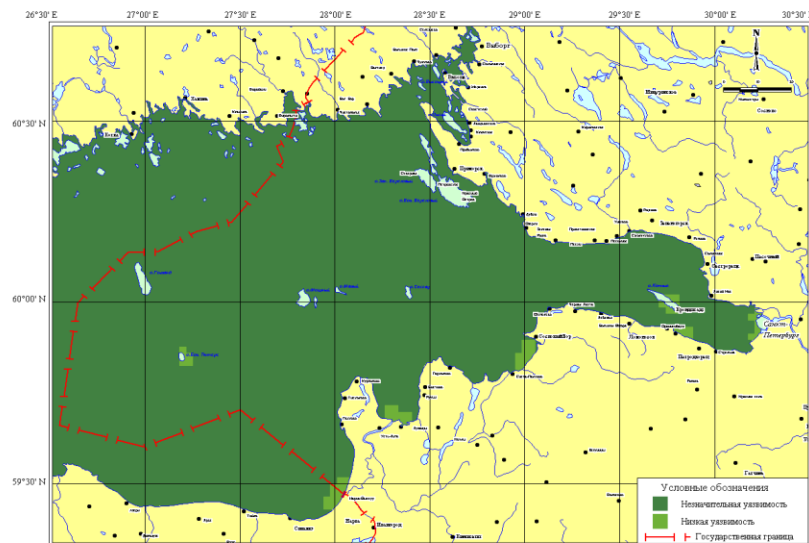
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Лето



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Осень



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Зима

Distribution and migration routes of *Salmo salar* and *Salmo trutta* in the Russian part of the Gulf of Finland

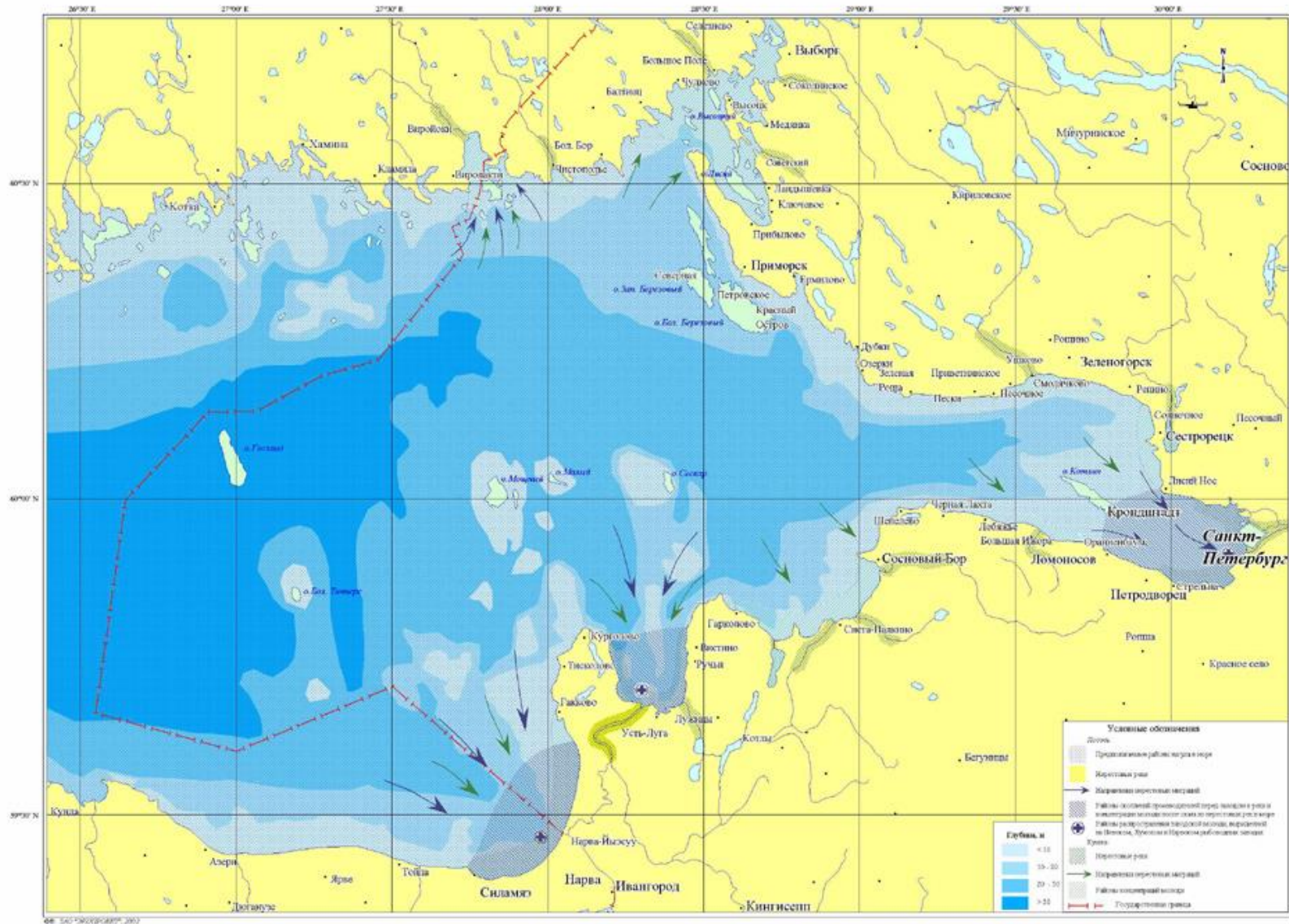


Рисунок 25

Распределение и миграционные пути атлантического (балтийского) лосося (*Salmo salar*) и кумжи (*Salmo trutta*) в Российской части Финского залива Балтийского моря



Centre for Economic Development,
Transport and the Environment



This project is co-funded by the European Union,
the Russian Federation and the Republic of Finland



- ^ RUS-FIN joint project
“Rivers and fish – our common interest”
- In partnership with Finnish and Russian government, scientific organisations and universities
- Aim – creation in transboundary rivers favorable conditions for restoration of Atlantic salmons and Sea trouts populations
- Project includes ichthyological and hydrobiological research, ecological education and communication with local communities and enterprisers

Complex biological monitoring on the islands of the Russian part of the Gulf of Finland

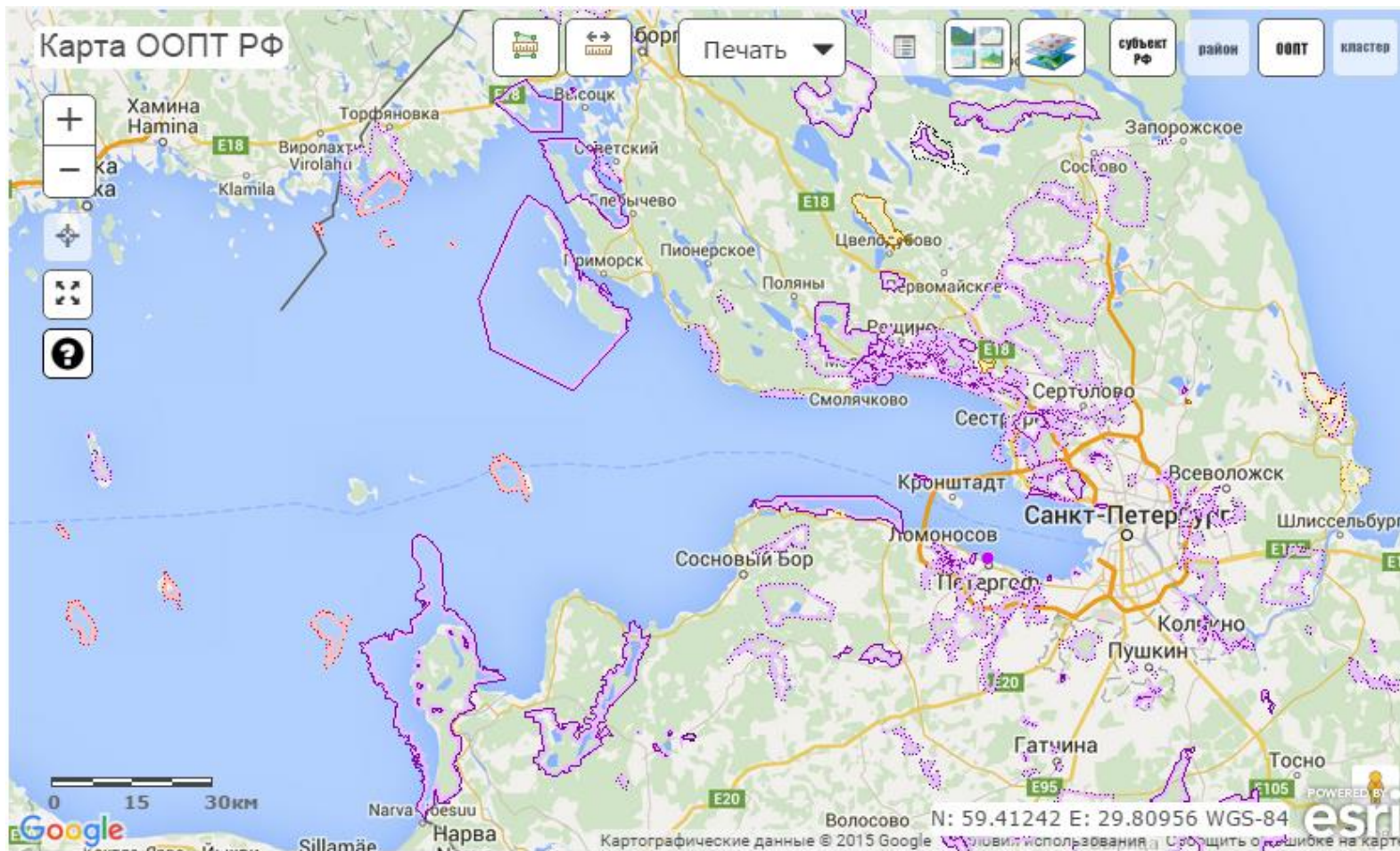


Granted by
Nord Stream AG

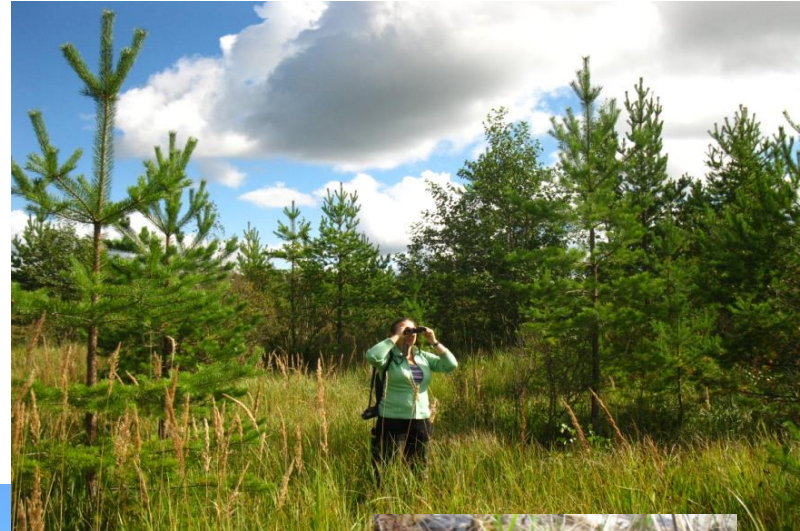
Annual monitoring
from 2010 till 2014



Complex ecological monitoring on Russian protected areas in the Gulf of Finland



- Study of biodiversity at restored limestone quarry
- Recommendations for restoration based on nature conservation



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Thank you for attention!

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