

Gulf of Finland Trilateral Scientific Forum

30th November – 1st December, 2016
Finnish Environment Institute SYKE



**Gulf of Finland
Co-operation**

DAY I: WEDNESDAY, 30TH NOVEMBER

The Auditorium / SYKE building

10:00-11:00 Coffee and registration

Welcome

- 11:00-11:10 Paula Kankaanpää, SYKE Marine Research Centre
11:10-11:20 Saara Bäck, Ministry of the Environment of Finland

Theme: the GOF2014 year and beyond, moderator Paula Kankaanpää

- 11:20-11:35 Kai Myrberg: The GOF2014 year is dead, long live the trilateral environmental collaboration!
11:35-11:50 Mika Raateoja: The GOF Assessment -> The GOF Road Map
11:50-12:05 Heikki Pitkänen: Monitoring of eutrophication: observations and recommendations emerging from the GOF assessment work and the most recent data
12:05-12:20 Oleg Korneev: Approach for joint Gulf of Finland marine spatial plan development

12:20-13:15 Lunch break

Keynote / moderator Darya Ryabchuk

- 13:15-13:30 Alexander Antsulevich: Environmental researches and surveys in frames of the Nord Stream 2 project
13:30-13:45 Jorma Rytönen, Kõuts T, Aysinov S: Some of the latest actions to improve maritime safety in the Gulf of Finland waters
13:45-14:00 Robert Aps, Fetissova M, Kotta J, Karvinen V, Kostamo K, Varjopuro R: Towards environmental safety of maritime spatial planning for sustainable blue economies
14:00-14:15 Andrey Pedchenko, Raid T, Pakarinen T: Some aspects on further joint fisheries research in the Trilateral Estonian-Finnish-Russian cooperation in the Gulf of Finland
14:15-14:30 Leena Laamanen, Kaitaranta J: Developing a holistic assessment of ecosystem health in the Baltic Sea.

14:30-15:00 Coffee break

Afternoon session / moderator Robert Aps

- 15:00-15:30 Special programme: Trilateral environmental collaboration - where are you heading at?
15:30-15:45 Sergei Golubkov, Golubkov M, Tiunov A, Nikulina V: The role of allochthonous and autochthonous organic matter in benthic food webs in the upper and in the middle part of the Neva Estuary
15:45-16:00 Ekaterina Voyakina, Andreeva I: Seasonal and interannual dynamics of phytoplankton and chlorophyll a in eastern part of Gulf of Finland
16:00-16:15 Mikhail Golubkov, Golubkov S: Primary production and Chlorophyll a concentration in mixing zone of the Neva Estuary.
16:15-16:30 Harri Kuosa: The eastern Gulf of Finland eutrophication status according to GoF data set
16:30-16:45 Vladimir Ryabchenko, Isaev A, Eremina T, Savchuck O, Vankevich R: Model estimates of the eutrophication of the Baltic Sea and Gulf of Finland in modern and future climate

16:45-17:00 Day 1 - discussion

17:00-18:00 Poster session

18:00- Dinner and get-together (Kuhankeittäjä, SYKE)

Gulf of Finland Trilateral Scientific Forum

30th November–1st December, 2016
Finnish Environment Institute SYKE



**Gulf of Finland
Co-operation**

DAY 2: THURSDAY, 1ST DECEMBER

SESSION A - The Auditorium / Alexander Antsulevich

- 9:15-9:30 Dmitry Lajus: Fisheries and fish populations in the Eastern Gulf of Finland during the 15-20th centuries
- 9:30-9:45 Nikolai Kovalchuk: Pilot estimation of species biodiversity of macroalgae on some water areas of the creating strict nature reserve "Ingermanlandsky"
- 9:45-10:00 Aleksandr Egorov, Aladin N, Asanova T, Dianov M, Zhakova L, Nikitina T, Zueva N, Plotnikov I, Smurov A: Main results of the two-year studies made by Aqua biological research unit under umbrella of ENPI Project SE717
- 10:00-10:15 Veronica Tarbaeva, Vorobyova E: Enhancement of data provision system of the state monitoring of the Russian part of a catchment basin of the Baltic Sea on a condition of superficial water currents and the marine environment in HELCOM
- 10:15-10:45 Coffee Break**
- 10:45-11:00 Petri Ekholm, Ollikainen M, Puntila E, Puroila S: Reducing agricultural phosphorus losses in a large-scale gypsum pilot
- 11:00-11:15 Sergei Kondratyev, Ivanova E: Assessment of the possibility of carrying out of BSAP recommendations to reduce nutrient load into the Gulf of Finland from the Russian part of the catchment area
- 11:15-11:30 Maria Kämäri, Tattari S, Koskiaho J, Lotsari E: How accurate are estimates of external riverine loads entering into Gulf of Finland?
- 11:30-11:45 Tatjana Eremina, Voloshchuk E, Khaimina O, Vladimirova O, Kochetkova E: Assessment of biogeochemical changes in the sediments of the Eastern Gulf of Finland
- 11:45-12:45 Lunch break**
- 12:45-13:00 Alexey Maximov, Berezina N, Vladimirova O, Eremina T, Isaev A: The recent measurement of benthic phosphate fluxes in the eastern Gulf of Finland
- 13:00-13:15 Yulia Polyak, Bakina L, Shigaeva T, Kudryavtseva V, Gubelit Y: Factors and mechanisms controlling microbial distribution, activity and dynamics in the eastern Gulf of Finland coastal sediments
- 13:15-13:30 Robert Aps, Fetissov M, Heinvee M, Goerlandt F, Kujala P, Tabri K: Systems-theoretic approach based environmental safety management of maritime navigation in the Gulf of Finland (Baltic Sea)

SESSION B - Auditorium Muuttohaukka / Urmas Lips

- 9:15-9:30 Nadezhda Berezina, Gubelit Y, Polyak Y, Sharov A: An integrated approach to the assessment of the eastern Gulf of Finland health
- 9:30-9:45 Alexander Rybalko, Korneev O.: Problems of the organization of joint control over the state and health of the ecosystem of the Gulf of Finland
- 9:45-10:00 Natalja Kolesova, Siimon K-L: The effect of contaminants on *Monoporeia affinis* embryos in the Gulf of Finland
- 10:00-10:15 Eugene Daev, Barabanova L: Cytogenetic estimation of water state in Dubki recreation area of the Gulf of Finland near Saint-Petersburg
- 10:15-10:45 Coffee Break**
- 10:45-11:00 Tatiana Kuznetsova, Kholodkevich S, Sharov A, Kurakin A, Lips U, Kolesova N: Testing applicability of a bioelectronic cardiac monitoring system for the determination of biological effects of pollution on bioindicator species in the Gulf of Finland
- 11:00-11:15 Arvo Tuvikene, Kreitsberg R, Baršienė J: Biomarkers of environmental contaminants in the coastal waters of Estonia: effects on perch, flounder and Baltic herring
- 11:15-11:30 Taavi Liblik, Stoicescu S-T, Lips U: Variations of the halocline and oxygen distribution in the Gulf of Finland
- 11:30-11:45 Natalia Lemeshko, Evstigneev V: Current climate change over the territory of the Leningrad region and their consequences
- 11:45-12:45 Lunch break**
- 12:45-13:00 Jouni Lehtoranta, Savchuk O, Elken J, Dahlbo K, Kuosa H, Raateoja M, Kauppila P, Räike A, Pitkänen H: Atmospheric forcing controlling inter-annual nutrient dynamics in the open Gulf of Finland
- 13:00-13:15 Leonid Bugrov, Eremina T, Kohanyuk E, Ryabchenko V: Aquaculture development concerns and prospects in relation with climate change: Eastern part of the Gulf of Finland
- 13:15-13:30 Dmitry Burkov, Ivanchenko A: Estimation of pollution of air pool in port from vessels

Gulf of Finland Trilateral Scientific Forum

30th November–1st December, 2016
Finnish Environment Institute SYKE



**Gulf of Finland
Co-operation**

13:30-14:00 Coffee break

Plenary: the Auditorium, moderator Kai Myrberg

14:00-14:15 Henry Vallius: Sediment quality in the Gulf of Finland

14:15-14:30 Maiju Lehtiniemi, Setälä O: Microplastic research in the Gulf of Finland- present knowledge and future plans

14:30-14:45 Andrei Lappo, Danilova L: To the question about holistic GoF

14:45-15:00 Kai Myrberg: Results of the special programme

15:00-15:30 Day 2 - discussion, concluding remarks

15:30 Closing the forum

POSTERS

L.Barabanova *,S. Galkina ,E. Mikhailova

Karyotype analysis of amphipod Gmelinoides fasciatus in the population from the Gulf of Finland

A. Brodsky,E. Pankova,D. Safronova*,V. Samuta

Influence of heavy metals on littoral communities due to the dredging work in Saint-Petersburg water zone

J. Bublischenko

The Great Cormorant (Phalacrocorax carbo sinensis) in the Eastern part of the Gulf of Finland, Russia

G. Frumin

Input of nutrients to the Gulf of Finland from Russian and transboundary rivers

E. Glazkova

Invasive vascular plant species in the flora of the Russian islands in the Gulf of Finland

Yu.Gubelit*, N. Berezina, Yu. Polyak , G. Dembska, G. Pazikowska-Sapota

“Green tides”: regulating factors and main consequences for the coastal zone in the eastern Gulf of Finland, Baltic sea.

N.N.Kamardin

The bioindication of chronic pollution of littoral vegetation and soil using terrestrial molluscs Bradybaena fruticum Mull.

S.V. Kholodkevich, A.N. Sharov

Bivalve mollusks of eastern part of the Gulf of Finland as a tool for ecosystem health bio-indication

V. Malyshev, T. Zmeeva

Evaluation of the monitoring results of microbial and viral contamination of waters of the Neva Bay and the Gulf of Finland

A. Jaanus, S. Lehtinen, M. Nurmi, A. Sharov*, E. Lange

Phytoplankton long-term monitoring in the Gulf of Finland

V. Sukhachev,E. Zakharchuk, U. Lips, N. Tikhonova, I. Suhhova

Water dynamics and variability of thermohaline structure during the dangerous sea level rises in the Gulf of Finland.

A. Demchuk*, S. Golubkov

Feeding of three-spined stickleback (Gasterosteus aculeatus L.) in Eastern Gulf of Finland

E. Chernova*, I. Russkikh, E. Voyakina, Z. Zhakovskaya, M. Orlova

Cyanotoxins Occurrence in Gulf of Finland, 2012-2015

I. Russkikh *, E.Chernova, Z. Zhakovskaya, V. Nikiforov, N. Vieno

Hormones as an indicator of anthropogenic pollution of the Baltic Sea (2011-2013)

B. Babikov

Monitoring of the water feeding of the rivers in Leningrad region

A. Lappo, L. Danilova

Proposals on structure of INPUT and OUTPUT Data for holistic GoF MSP

M. Polyak*

A modern approach to visualisation of long-term biological monitoring data of the Neva Bay

O. Liashenko ,E. Svetashova ,S. Ekimova

Heavy metal content in fish and their habitat in the Neva Bay of the Gulf of Finland

E. Litina*, E. Zakharchuk, N. Tikhonova.

Assessment of nonstationarity in seasonal variability of thermohaline structure in the Gulf of Finland

O.Susloparova, Y. Zuyev, V. Ogorodnikova

Present state food supply for fish in the eastern Gulf of Finland

O. Valdez Banda, F. Goerlandt, P. Kujala

Strategic and Operational Risk Management for Wintertime Maritime Transportation System (STORMWINDS)

R. Vankevich, E. Sofina, O. Vladimirova, T. Eremina

Modelling of the submesoscale flows in the Gulf of Finland (GOF)

E. Kochetkova, A. Isaev, T. Eremina

Application of the Remote Sensing and In-Situ Data for Chlorophyll a Variability simulation in The Eastern part of the Gulf of Finland

K-L. Siimon, N. Kolesova,U. Raudsepp

Fucus vesiculosus morphology and its associated fauna along southern coast of the Gulf of Finland
