

Stand No	Author	Title
1	Magdalena Kamińska	Influence of salinity changes in a surface layer of the Polish coastal zone during recent years on initial conditions for hydrodynamical modeling
2	Andrzej Jankowski	On deep saline water flow exchange in the Southern Baltic-month to month variability by 3D model
3	Agnieszka Zdun	Analysis of seasonal variability of optical properties of Baltic aerosols based on AERONET data
4	Jordan Badur	Multi-decadal wind wave climate reconstruction in the Gulf of Gdansk using System Identification techniques.
5	Tadeusz Król, Adam Stelmaszewski, Włodzimierz Freda	Variability of optical properties of the Baltic type oil and its emulsion in sea water
6	Inga Dailidienė, Benediktas Tilickis, Lina Davulienė, Algirdas Stankevičius and Kai Myrberg	Water level variability at the Lithuanian coast of the Baltic Sea
7	Maciej Matciak, Bożena Wojtasiewicz	Occurrence of radiant heating rate extrema in the area of the horizontal gradient of seawater absorption - theoretical approach
8	Vladimir Gorbatsky, Nikolay Golenko, Vadim Sivkov	Vertical structure of the current field variability in the coastal marine area under fast variations of wind parameters
9	Lembit Talpsepp	On the currents periodic variability in the near-coastal zone in the Gulf of Finland
10	Nikolai Golenko	Time-space spectra of hydrophysical parameters in the Baltic sea
11	Magdalena Beldowska, Lucyna Falkowska	Baltic sea as a sink and as a source of atmospheric Mercury
12	Anniina Kiiltomäki, Tapani Stipa and Andreas Lehmann	Spatial and temporal variability of temperature and salinity in the Baltic Sea -A comparison of observations and model data-
13	Lucyna Kryla	Experimental Research into how Water Temperature Affects Underwater Sound Generated by Individual Raindrops
14	Małgorzata Świątek	Relationships between geostrophic wind and precipitation variability on Polish coast of the Baltic sea

15	Andrzej Jankowski, Jan Jędrasik	How useful are the sea level data from coastal tide gauges for nowcasting (hindcasting) of hydrophysical fields in the Gdansk Basin
16	Ralf Döscher, H. E. Markus Meier	Simulated Sea Surface Temperature and Sea Ice in different Climates of the Baltic
17	J. Jędrasik, L. Łęczyński	On necessity of a sediment transport model development in the Puck Lagoon
18	Gabriela Grusza, Natalia Chlebus	Numerical modelling of nearshore circulation
19	N.Demchenko, I. Chubarenko	On a seasonal structural front in the Baltic Sea
20	E. A. Zakharchuk, U. P. Klevantsov, N. A. Tikhonova, V.R. Foux	Simulation of low-frequency disturbances in the sea level and current fields of the Baltic Sea
21	Beata Schmidt, Joanna Szczucka	Diel vertical migration of zooplankton measured by use of ADCP
22	Wacław Florek, Leszek Łęczyński	The development of bays in tidal seas based on investigations of the Santiago and Sao Vicente islands (Cape Verde Islands)
23	Lotta Fyrberg	Sea-Search
24	Lotta Fyrberg, Patrick Goringe	EDIOS
25	Anna Filipkowska, Małgorzata Szymczak-Żyła, Ludwik Lubecki, Maria Łotocka and Grażyna Kowalewska	Occurrence of algae on the Sopot beach (Baltic Sea) – not exclusively a scientific problem
26	Natalia Pankratova	Does the antropogenic components affect the chemical composition of the sediments in the Kaliningrad Bay (Vistula Lagoon)?
27	Solvig Görs, Henning Baudler, Ulf Karsten & Rhena Schumann	Re-mesotrophication at the southern Baltic Sea coast – changes in plant nutrients, pH and organic load
28	V.A.Shakhverdov , M.V.Shakhverdova	The contents of petroleum in water of ponds as the indicator of anthropogenic effect.
29	V.M.Kudryavtsev, E.A. Kudryavtseva	Dynamics of the production-destruction processes in the Baltic Sea. Influence of petroleum hydrocarbons
30	Stanisław J. Pogorzelski, Anna D. Kogut, Adriana Z. Mazurek	Structural parameters of source-specific natural surfactant films as indicators of organic matter dynamics
31	Lindgren Susanna, Virtasalo Joonas, Myllyvirta Tero	Sedimentary phosphorus and iron along the coast of Finland, molar $Fe_{cdb} : P_{spa}$ ratio reflecting the salinity conditions
32	Duńska Elżbieta, Sokołowski Adam, Wołowicz Maciej	Heavy metal transfer through food chain in benthic biocenosis of the Gulf of Gdansk
33	Elżbieta Łysiak-Pastuszak	Measurement uncertainty of marine monitoring data

34	Bożena Graca, Dorota Burska, Izabela Białkowska, Katarzyna Matuszewska	Diffusive exchange of nutrients at the water-sediment interface in the Gdańsk Basin
35	Grażyna Sapota	Persistent organic pollutants (POPs) remaining in the bottom sediments from the Baltic Sea
36	Henning Baudler, Solvig Görs, Ulf Karsten & Rhena Schumann	The eutrophication gradient in the Darß Zingst Bodden Chain (DZBC) – plant nutrients
37	Kaasalainen, H. , Leivuori, M., Motelica-Heino, M., Kotilainen, A. and Karhu, J.	Phosphate, iron and manganese in sediment porewaters by the techniques of diffusive equilibration and gradients in thin-films (DET and DGT) in the Gulf of Finland
38	Jolanta Walkusz-Miotk, Agata Zaborska, Jacek Beldowski, Janusz Pempkowiak	Differences in heavy metals fluxes to the southern Baltic Sea Sediments within last 200 years.
39	Anita Lewandowska, Małgorzata Formalewicz, Lucyna Falkowska, Dorota Pryputniewicz, Dorota Burska	Atmospheric total carbon and total nitrogen over Gdynia
40	Z. Witek, M. Zalewski & M. Wielgat	Nutrient cycling pattern of the Vistula Lagoon (Southern Baltic) as seen by the dynamic biogeochemical model
41	Elżbieta Łysiak-Pastuszak, Magdalena Kamińska, Włodzimierz Krzymiński, Magdalena Filipiak, Anna Olszewska, Andrzej Osowiecki	Typological classification, reference conditions and preliminary eutrophication assesment in the Polish sector of the Baltic Sea
42	Miguel Rodriguez Medina, Oleg P. Savchuk, Fredrik Wulff	Reconstruction of riverine nutrient loads to the Baltic Sea 1970-2000
43	Irina Kulikova, Zinta Seisuma	Metal content in coastal area of the Gulf of Riga (1997-2003)
44	Rolandas Radzevicius	A case study: application of concentration coefficients and factors analysis for geochemical investigation of the superficial sediments of Baltic Sea (Lithuanian water area)
45	H. Schmidt, M. Maiwald, J. Pfannkuche, L. Gallasch, J. Konat-Stepowicz, H.-D. Kronfeldt	<i>In-situ</i> Raman and SERS measurements of organic compounds in seawater
46	Jacek Beldowski, Janusz Pempkowiak	Mercury concentration and speciation changes along source/sink transport pathway (Southern Baltic)
47	Dorota Burska, Bożena Graca, Dorota Pryputniewicz	Fluxes of particulate carbon, nitrogen and phosphorus in the water column of the Gdańsk Deep
48	Dorota Burska, Andrzej Pawelec, Jerzy Bolałek, Magdalena Marzec	Spatial and temporal variability of biogenic silica in the sediment of Gdańsk Bay

49	Adam Woźniczka, Norbert Wolnomiejski	Zebra mussel ( <i>Dreissena polymorpha</i> Pall.) in the River Odra estuary: the current status
50	Magdalena Podolska, Dorota Napierska	The use of acetylcholinesterase activity in herring ( <i>Clupea harengus</i> ) and parasites ( <i>Anisakis simplex</i> larvae) as a biomarker of neurotoxic contamination in the southern Baltic
51	Diana Dziaduch	Gametogenesis of the bivalves <i>Macoma balthica</i> (L.) and <i>Mytilus trossulus</i> (Gould) from the Gulf of Gdańsk (Baltic Sea)
52	Lavrentjeva G. M., Susloparova O. N., Bogdanov D. V., Jakovlev A. S., Lebedeva O. V., Maximova O. B., Mitskevich O. I., Ogorodnikova V.A., Tereshenkova T. V., Volkchonskaja N. I.	Results of monitoring in the eastern part of the Gulf of Finland for the estimation of hydrotechnical activity effects on hydrobionts
53	Katarzyna Staszak, Anna Szaniawska	Invador spiny-cheek crayfish <i>Orconectes limosus</i> Raf. and its feeding behaviour
54	Małgorzata Witak	A study of freshwater diatom flora from Late Glacial and Early Holocene sediments of Puck Bay (Southern Baltic Sea)
55	Priit Kersen & Georg Martin	Preliminary assessment of natural losses in loose-lying red algal community through beach-cast macroalgae accumulation in the area of Kassari Bay (NE Baltic Sea)
56	Reinhard Heerkloss, Irena Telesh, Lutz Postel	Atlas of Zooplankton of the Coastal and Open Waters of the Baltic Sea
57	Wojciech Solarz, Wiesław Król, Grzegorz Cierlik	Alien species in Poland – an online database
58	Teresa Radziejewska, Piotr Gruszka, Joanna Rokicka-Praxmajer	A home away from home: a meiobenthic assemblage in a ship's ballast water tank sediment
59	Maciej Tomasz Tomczak	Trophic model of the Puck Lagoon ecosystem: an investigation using Ecopath
60	Brygida Wawrzyniak-Wydrowska	Biodiversity of molluscs in the River Odra estuary (Southern Baltic) and effects of sedimentary variables
61	S.N.Semionova	Current state of phytocene in the south-eastern Baltic Sea
62	Katarzyna Waligóra Borek	Biological characteristic of <i>Pomatoschistus minutus</i> (sand goby) one of the most abundant Gobidae species occurring in coastal zone of the Gulf of Gdańsk
63	Ilona Złoch, Mariusz Sapota	Trophic interactions between sand goby, common goby and flounder in inshore waters of the Gulf of Gdańsk, Poland
64	Urszula Janas	<i>Palaemon elegans</i> Rathke – a new species in the Gulf of Gdańsk

65	Wojciech Solarz	NOBANIS: Nordic-Baltic Network on Invasive species
66	Lidia Dzierzbicka-Głowacka	1D <i>prey-predator</i> ecosystem mode
67	Monika Michałowska, Monika Normant, Anna Szaniawska and Joanna Borodzicz	The American crayfish <i>Orconectes limosus</i> (Raf.) as a potential chitin source
68	Irina Olenina	Use of phytoplankton data for typology and identification of reference conditions in the coastal waters: the Lithuanian case study
69	Kohonen, T., Engqvist, A., Fladvad, B., Helminen, H., Wennström, M. & Mattila, J.	A joint decision support system for effective water protection measures in the archipelagos of Turku, Åland, and Stockholm
70	Stella Mudrak, Maria Iwona Żmijewska	Some aspects of interannual trends: summer and winter zooplankton in consecutive years (1998-2000) (Gulf of Gdansk, Baltic Sea)
71	Stella Mudrak, Maria Iwona Żmijewska, Luiza Bielecka	New look at seasonality of zooplankton from the Gulf of Gdansk (Baltic Sea)
72	Aleksandra Zgrundo	Benthic diatom assemblages in the coastal zone of the Gulf of Gdańsk (Sopot region)
73	Anna Pawelec	Environment biodiversity due to three spine stickleback ( <i>Gasterosteus aculeatus</i> ) body condition
74	Natalia N. Chukalova	First results of pathological researches of bream ( <i>Abramis brama</i> L.) from the Vistula Lagoon (Russian Zone)
75	Katarzyna Grzyb, Jadwiga Gronczewska, Anna Biegniewska, Michał Rychłowski, Krzysztof Waleron, Edward F. Skorkowski	Effects of environmental pollution on spermatozoa viability and enzymes activities in herring
76	Kucharska Karolina, Wołowicz Maciej	Gametogenesis and condition of <i>Macoma balthica</i> ( Bivalvia, Tellinidae). Comparison of subpopulations at different depths in the Gulf of Gdańsk (southern Baltic Sea)
77	Sanna Saari	Habitat requirements of the threatened brackish water leaf beetle <i>Macroplea pubipennis</i> (Coleoptera: Chrysomelidae) in Espoo Bay, Southern Finland
78	Tomasz Józwiak, Marcin Pliński	The occurrence of macroalgae and <i>Zostera marina</i> on the Polish coast in 2000-2004 period
79	Zane Dekere	Changes of macrophyte vegetation in the Gulf of Riga, Latvia
80	A.A. Yeliseyev	Parasite fauna of flounder <i>Platichthys flesus</i> (L.) from the Russian zone of the south - eastern Baltic Sea
81	Yurkovskis Aivars and Poikane Rita	Biogeochemical barriers in the Gulf of Riga: The Daugava River estuary and benthic nepheloid layer
82	Andrius Šiaulys	Influence of borrowing activity of two polychaete worms, native <i>Nereis diversicolor</i> and invasive <i>Marenzelleria viridis</i> , on meiobenthic communities in the Curonian Lagoon, Baltic Sea
83	Sergey M. Golubkov, Evgenija V. Balushkina, Aleksey A. Maximov	Factors controlling the biodiversity, food web structure and functional patterns in the ecosystem of the Neva Estuary (eastern Gulf of Finland).
84	Marcin Filip Jędrzejczak, Lorenzo Chelazzi, Isabella Colombini, Felicita Scapini, Jan Marcin Węśławski	Bridging biodiversity and tourism towards sustainable development of sandy beaches

85	Kristjan Herkül, Jonne Kotta, Ilmar Kotta and Helen Orav-Kotta	Role of functional diversity in the stability and development of benthic communities in the northern Baltic Sea
86	Stachnik Magdalena, Sokołowski Adam, Wołowicz Maciej	Succession of invertebrates on <i>Fucus vesiculosus</i> L. population in the translocation experiment in the Gulf of Gdańsk (southern Baltic Sea)
87	Martynas Bučas, Sergej Olenin, Darius Daunys	Factors controlling distribution of <i>Furcellaria lumbricalis</i> (Huds.) Lamour. at the exposed coast of the Baltic Sea
88	Tinto Helena Aaltonen	Perennial algal communities under the <i>Fucus vesiculosus</i> belt at the Gulf of Finland
89	Berger Agata Magdalena, Sokołowski Adam, Wołowicz Maciej	Trace metals concentration in the nereid polychaete <i>Hediste diversicolor</i> (O. F. Müller) and sediment from Gulf of Gdańsk (southern Baltic Sea)
90	Agnieszka Cabaj, Alicja Kosakowska, Julianna Kurlenda	Does iron (III) influence <i>Micrococcus</i> sp. growth?
91	Dobrzycka - Krahel A., Szaniawska A.	Comparison of osmotic physiology of invasive species <i>Gammarus tigrinus</i> (Sexton, 1939) from different geographical regions
92	Monika Filipowicz, Artur Burzyński, Roman Wenne	Detection of rearranged mitochondrial DNA in European populations of <i>Mytilus</i>
93	Jolanta Lewandowska, Alicja Kosakowska	Isolation and identification of iron chelating agents produced by <i>Cyclotella meneghiniana</i> under iron limitation*
94	Pniewski, F.F., Latała, A.	Effect of salinity and heavy metals on some diatom strains from the CCBA collection
95	Alicja Kosakowska	Effect of iron limitation and organic ligands on the growth of Baltic phytoplankton cells
96	Radosław Żbikowski, Adam Latała, Piotr Szefer	Distribution of chemical elements on the seashore of Poland using green algae <i>Enteromorpha</i> sp. and <i>Cladophora</i> sp. as bioindicators in view of statistical analysis
97	Tomasz Ciesielski, Radosław Żbikowski, Monika Olendrżyńska, Joanna Balwina, Kamila Fopka, Magdalena Rzeszewicz, Jan Warzocha, Piotr Szefer	Distribution and relationships between heavy metals in <i>Macoma balthica</i> and the associated sediment from the Southern Baltic
98	Maria Łotocka	The effect of irradiance on the xanthophyll content in <i>Skeletonema costatum</i> (Bacillariophyceae), <i>Cryptomonas</i> sp., <i>Rhodomonas</i> sp. (Cryptophyceae) and <i>Heterocapsa triquetra</i> (Dinophyceae)
99	Katarzyna Smolarz	Abnormalities related to neoplasia in <i>Macoma balthica</i> from the Gulf of Gdansk (Baltic Sea)
100	Tomasz Łapucki, Monika Normant, Martin Feike, Gerhard Graf	Comparative studies on the metabolic rate of <i>Idotea chelipes</i> (Pallas) inhabiting different regions of the Baltic Sea
101	Radosław Żbikowski, Adam Latała	Salinity dependent accumulation of Cd, Cu, Pb, Ni, Zn and Mn in Baltic green algae <i>Enteromorpha</i> sp., <i>Cladophora</i> sp. and <i>Chara baltica</i>
102	Tomasz Ciesielski, Radosław Żbikowski, Magdalena Pszczółkowska, Joanna Borys, Agnieszka Dudzikowska, Piotr Cybulski, Jan Warzocha, Piotr Szefer	Distribution and relationships between heavy metals in <i>Saduria entomon</i> and the adjacent sediment from the Southern Baltic

103	Anita Poćwierz-Kotus, Artur Burzyński, Roman Wenne	Tc1-like transposons in genomes of Baltic fish
104	Vadim E. Panov and Vladimir S. Shestakov	GIS "Invasive Species of the Baltic Sea": on-line module of early-warning system on aquatic invasive species for the Baltic Sea area
105	Irina Ovcharenko, Asta Audzijonytė, Zita Gasiūnaitė	Salinity tolerance of invasive Ponto-Caspian mysids: an experimental study
106	Jakub Korthals, Monika Normant and Anna Szaniawska	The Chinese mitten crab <i>Eriocheir sinensis</i> as a habitat for a small invertebrate species
107	L.F. Litvinchuk, I.V. Telesh	Distribution, population structure, and ecosystem effects of the invader <i>Cercopagis pengoi</i> (Polyphemoidea, Cladocera) in the Gulf of Finland and the open Baltic Sea
108	Berezina N.A., Golubkov S.M., Orlova M.I., Gubelit J.I & Pankova E.S	Invasions of alien species and macroalgal blooms as main factors influencing structure and function of invertebrate communities in littoral zone of the eastern Gulf of Finland
109	Susloparova O.N., Baranova L.P., Volkhonskaja N.I., Ogorodnikova V.A.	The role of non-indigenous <i>Cercopagis pengoi</i> (Ostroumov) in the diets of commercial species of fish in the eastern part of the Gulf of Finland
110	Maciej Tomasz Tomczak	Round goby <i>Neogobius melanostomus</i> , a non native species -role and interaction in the trophic web of Puck Bay: a modelling approach using Ecopath
111	Gunta Aišpure	Copepod <i>Limnocalanus macrurus</i> feeding intensity related to the vertical migration patterns in the Bothnian Sea
112	S.V. Aleksandrov	Primary production of phytoplankton and chlorophyll concentration in the Vistula and Curonian Lagoons of the Baltic Sea
113	O.A. Dmitrieva	Phytoplankton as indicator a condition of ecosystems of the Vistula and Curonian Lagoons
114	S. Matviy	On zooplankton fauna of the Zabava, Alejka and Medvegia mouth areas (Sambian peninsula): preliminary investigation
115	Ju. Polunina, V. Chechko	Effect of suspended matter on zooplankton in the Vistula lagoon, Baltic Sea
116	Ju. Polunina, S. G. Matviy	Distribution of zooplankton in the coastal zone of Kaliningrad region (the Baltic sea)
117	Elena Ezhova, Olga Spirido	Macrobenthos of the coastal waters of the SE Baltic
118	Postel Lutz, Köster Philipp, Simon Heike and Guiard Volker	Baltic Sea zooplankton: Successive compilation of individual specific length to carbon relationships - a ratio which is potentially of climate relevance
119	Andres Jaanus, Seppo Kaitala, Kaire Kaljurand and Inga Lips	Summer phytoplankton in the Gulf of Finland – seasonal patterns and recommendations for monitoring design
120	Karolina Forycka, Monika Fijałkowska, Waldemar Surosz	Influence of UV-B radiation on cyanobacteria growth and toxins production
121	M. Nędzi, P. Stepnowski, A. Latała, W. Mrozik	Toxicity assessment of room temperature ionic liquids on the selected Baltic algae
122	Justyna Kobos, Hanna Mazur-Marzec, Marcin Pliński	Toxic cyanobacteria in coastal waters of the Gulf of Gdańsk
123	O. B. Maximova	The effect of water turbidity on phytoplankton primary production during the construction of port terminals in the eastern part of Gulf of Finland

124	Alexey A. Maximov	Relation between winter hydrometeorological conditions and benthic hypoxia in the eastern Gulf of Finland
125	A. Ameryk, Z. Witek	Factors influencing bacterioplankton of the Baltic coastal waters
126	Ewa Sokołowska, Ewa Kulczykowska	Sex cycle of the three-spined stickleback ( <i>Gasterosteus aculeatus</i> ) – a link to seasonal changes of pineal melatonin level
127	Urban-Malinga B., Kotwicki L., Opaliński K.W., Węśławski J.M.	Bioenergetics of Baltic Sea sandy beach
128	Opaliński K.W., Maciejewska K.	Energetic cost of growth in early developmental stages of fish species of the Vistula Lagoon (Baltic Sea)
129	Gösta Hoffmann	The Southwestern Baltic Sea and its changing coasts
130	Sylvia Torchalski-Winnitzki	Sustainable Development and Tourism: Implementing Potentials and Approaches in the Pomeranian Region (Poland)
131	Melanie Mewes	Nutrient emissions by diffuse sources and costs of prevention for the Baltic Sea catchment area of Mecklenburg-Vorpommern
132	Kathrin Witte	Characterisation of the mat building cyanobacterium <i>Microcoleus chthonoplastes</i> along the salinity gradient of the Baltic Sea
133	Kerstin Rieder	Wave exposed and sheltered areas on a sandy beach of the southern Baltic Sea: The influence of exposure on interstitial meiobenthic communities
134	Peter Frenzel, Thomas Tech, Jan Bartholdy	The Recent Foraminiferida of the German Baltic Sea coast
135	Marcin Dziekoński, Tomasz Łapucki, Monika Normant, Michał Bochenek, Anna Szaniawska and Gerhard Graf	Metabolic rates of <i>Gammarus tigrinus</i> Sexton, 1939 and <i>Idotea chelipes</i> Pallas, 1889 – two phytal components in the Gulf of Gdańsk
136	Barbara Deutsch	$\delta^{15}\text{N}$ Values in Macroalgae as an Indicator for Anthropogenic Nitrogen Inputs: Results from in-situ Incubation Experiments
137	N. Schmedemann, H. Dietrich, G. Hoffmann	Numeric decompaction of Holocene sediments
138	B. Schubert, S. Dahlke, A. Schoor	Near-coast blooms of the cyanobacterium <i>Nodularia spumigena</i> (Southern Baltic Sea) – Effects of iron manipulations in short-term microcosm experiments with dense bloom material
139	Ralf Grunewald	Effects of recreational activities on coastal beach and dune ecosystems
140	Krzysztof Kaszubski, Halina Piekarek-Jankowska	The mineral grains micromorphology as an indicator of the origin of sedimentary material in The Puck Bay (Gulf of Gdańsk, Poland)



141	Małgorzata Witak, Dorota Jankowska	Evolution of the Vistula Lagoon based on the fossil diatom flora
142	L.Gajewski, N.Blazauskas , M. <u>Rucińska</u>	Structure of the nearshore bottom in Sopot
143	A. Jahna	Seismic architecture of the offshore bottom at Gdania
144	S.Rudowski, L.Gajewski, K.Szeffler, M. Kamrowska	Seismic architecture of the Ustka Bay floor
145	Tycjan Wodzinowski	The rate of beach changes estimated by day by day digital photo registration Redłowo example, Gulf of Gdańsk
146	Wojciech Mausch	Sand waves offshore of Ustka
147	E.Trimonis, S.Gulbinskas, M.Kuzavinis	Recent environment and sediments in the Lithuanian nearshore zone of the Baltic Sea
148	J.B. Jensen, T. Laier, Christian Borowski, Nina Knabb, Bo Barker Jørgensen, Henrik Fossing, Barry Cragg and Andy Dale	The METROL project (methane flux control in ocean margin sediments) in the Baltic Sea.
149	A. Ślimak	Rudnik Valley at the nearshore bottom near Chłapowo. South Baltic, Poland
150	A.Kotilainen, J.Hämäläinen, H.Kaasalainen, M.Leivuori, K. Lukkari, H.Vallius	The Baltic inflow and sedimentation in the Gulf of Finland
151	K. Mäkelä, H. Haahti	Iron and manganese interaction with C, N, S cycling in surface sediment - a case study from the eastern Gulf of Finland