



### DEFENCE OF THE MASTER THESES 2017

**Place:** Saint Petersburg State University, Institute of Earth Sciences  
(33-35, 10<sup>th</sup> line V.O., room 56, Phoenix; phone: +7 812 3239976)

**Date:** September 22, 2017

**Time:** 09:30 – 15:00

**Commission chairman:**

Dr. Vladimir V. Ivanov, Arctic and Antarctic Research Institute

**Commission members:**

Prof. Dr. Bodo von Bodungen, Leibniz Institute for Baltic Sea Research  
Warnemuende

Dr. Victoria B. Ershova, Department for regional politics, Saint Petersburg State  
University

Dr. Heidemarie Kassens, GEOMAR Helmholtz Centre for Ocean Research Kiel

Prof. Dr. Eva-Maria Pfeiffer, Hamburg University

Anna V. Laikhtman, private educational institution Institute for professional  
development INTEGRAL

Dr. Tatiana V. Matveeva, All-Russian Research Institute of Geology and Mineral  
Resources of the World Ocean (FSUE "VNII Okeangeologia named after I.S.  
Gramberg")

Dr. Ekaterina Ye. Taldenkova, Moscow State University

Prof. Dr. Leonid A. Timokhov, Arctic and Antarctic Research Institute

<b>Time</b>	<b>Presentation*</b>
09:30 – 09:40	Opening by the chairman and commission members
09:40 – 10:00	<b>Ivan Alekseev</b> Topic: Estimation of carbon pools and depositary function of permafrost-affected soils of Yamal region (Оценка пулов углерода и депозитарной функции почв криогенных ландшафтов Ямальского региона) Supervisors: Prof. Dr. Evgeny Abakumov, Saint Petersburg State University Prof. Dr. Eva-Maria Pfeiffer, Hamburg University

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\*The order of candidates can be changed

- 10:00 – 10:20      **Kirill Galustov**  
Topic: Recent transformation of the primary sector in the Russian Arctic  
(Современные трансформационные процессы в первичном секторе экономики  
Российской Арктики)  
Supervisors:  
Prof. Dr. Konstantin Klokov, Saint Petersburg State University  
Prof. Dr. Jürgen Böhner, Prof. Dr. Eva-Maria Pfeiffer, Hamburg University
- 10:20 – 10:40      **Aleksandr Volynets**  
Topic: Lena Delta water body mapping based on RapidEye satellite image series for  
determination of lake level heights and delta channel inclination using altimetry and  
DEM data (Определение уровня озер и уклона водотоков в дельте реки Лены,  
основанное на мозаике космических снимков, данных лазерной альтиметрии и  
ЦМР)  
Supervisors:  
Dr. Irina Fedorova, Saint Petersburg State University  
Dr. Frank Günther, Alfred Wegener Institute Helmholtz Centre for Polar and Marine  
Research
- 10:40 – 11:00      **Alina Karpova**  
Topic: Spatial-temporal dynamics of morphometric parameters of lakes on the  
Yamal peninsula and the Lena river delta area (Пространственно-временная  
динамика морфометрических показателей озер полуострова Ямал и дельты  
реки Лены)  
Supervisors:  
Dr. Irina Fedorova, Saint Petersburg State University  
Prof. Dr. Guido Grosse, Alfred Wegener Institute Helmholtz Centre for Polar and  
Marine Research
- 11:00 – 11:20      **Vitalii Samoilenko**  
Topic: Analysis of evapotranspiration water fluxes at a floodplain tundra in the Lena  
river delta (Анализ потоков эвапотранспирации на примере пойменного участка  
в дельте реки Лены)  
Supervisors:  
Prof. Dr. Kirill Chistyakov, Saint Petersburg State University  
Prof. Dr. Lars Kutzbach, Hamburg University
- 11:20 – 11:40      **Vitalii Sharmar**  
Topic: Analysis of wind-wave spectra under fetch-limited and non fetch-limited  
conditions (Анализ спектров ветрового волнения при ограниченном и  
бесконечном разгонах)  
Supervisors:  
Prof. Dr. Leonid Lopatoukhin, Saint Petersburg State University  
Prof. Dr. Peter Fröhle, Hamburg University of Technology

- 11:40 – 12:00      **Mikhail Vladimirov**  
Topic: Crustal structure of the southern part of the Baltic Sea using geophysical methods (Строение земной коры южной части Балтийского моря по геофизическим данным)  
Supervisors:  
Dr. Aleksey Piskarev-Vasiliev, All-Russian Research Institute of Geology and Mineral Resources of the World Ocean named after academician Igor Gramberg  
Dr. Ali Dehghani, Hamburg University
- 12:00 – 12:20      **Vladislav Onopko**  
Topic: Numerical investigations of lateral tidal straining in regions of freshwater influence in the German Bight with the one - dimensional GOTM model (Численное моделирование горизонтальных приливных деформаций пресноводного стока в Немецкой бухте на одномерной модели GOTM)  
Supervisors:  
Prof. Dr. Victor Ionov, Saint Petersburg State University  
Prof. Dr. Hans Burchard, Leibniz Institute for Baltic Sea Research Warnemuende  
Dr. Christian Winter, MARUM Center for Marine Environmental Sciences
- 12:20 – 12:40      Coffee break
- 12:40 – 13:00      **Eduard Khachatryan**  
Topic: Validation of ATI SAR ocean and sea ice surface velocity derived from TanDEM-X and coastal radar data, near Barrow, Alaska (Валидация скорости поверхностных течений и дрейфа морского льда, полученных на основе данных продольной интерферометрии радара с синтезированной апертурой TanDEM-X и данных прибрежного радара, для района вблизи мыса Барроу, Аляска)  
Supervisors:  
Dr. Vladimir Volkov, Nansen International Environmental and Remote Sensing Centre  
Prof. Dr. Lars Kaleschke, Hamburg University
- 13:00 – 13:20      **Elena Mikheeva**  
Topic: Local distribution and accumulation of PAHs in the Arctic snow cover, Barentsburg, Western Spitsbergen (Местное накопление и распределение ПАУ в снежном покрове, Баренцбург, Шпицберген)  
Supervisors:  
Dr. Anna Nikulina, Arctic and Antarctic Research Institute  
Dr. Richard Seifert, Hamburg University
- 13:20 – 13:40      **Tatiana Sitnikova**  
Topic: East Antarctic volcanic margin: crustal structure and tectonic evolution (Строение и эволюция вулканической окраины в Восточной Антарктике)  
Supervisors:  
Dr. German Leitchenkov, Saint Petersburg State University  
Dr. Sascha Brune, GFZ German Research Centre for Geosciences  
Helmholtz Centre Potsdam

- 13:40 – 14:00      **Tatiana Smelova**  
Topic: Thermal evolution of the Prydz Bay sedimentary basin (Cooperation Sea, East Antarctica) (Анализ термальной эволюции осадочного бассейна залива Прюдс (море Содружества, Антарктика)  
Supervisors:  
Dr. German Leitchenkov, Saint Petersburg State University  
Prof. Dr. Lars Rüpke, GEOMAR Helmholtz Centre for Ocean Research Kiel
- 14:00 – 14:20      **Anton Tkachenko**  
Topic: Temperature-dependence of thermal conductivity and implications for the thermal-state of the Norwegian margin (Эффект зависимости теплопроводности от температуры и влияние теплопроводности на термическую эволюцию осадочных бассейнов на примере Норвежской окраины)  
Supervisors:  
Dr. German Leitchenkov, Saint Petersburg State University  
Prof. Dr. Lars Rüpke, GEOMAR Helmholtz Centre for Ocean Research Kiel
- 14:20 – 14:40      End of the session. Summary.  
Results (the final complete grade for the master theses) will be announced online on Monday, September 25, 2017