

Master Program for Polar and Marine Sciences POMOR

| <b>MASTER THESES 2017</b> |                     |   |   |  |
|---------------------------|---------------------|---|---|--|
| <b>No.</b>                | <b>Name</b>         | <b>Title</b>  | <b>Supervisor (RUS)</b>   | <b>Supervisor (GER)</b>  |
| 1                         | Alekseev, Ivan      | Estimation of carbon pools and depositary function of permafrost-affected soils of Yamal region                               | Prof. Dr. Evgeny Abakumov, Saint Petersburg State University                      | Prof. Dr. Eva-Maria Pfeiffer, Hamburg University<br>Dr. Christian Knoblauch, Hamburg University  |
| 2                         | Galustov, Kirill    | Recent transformation of the primary sector in the Russian Arctic   | Prof. Dr. Konstantin Klovov, Saint Petersburg State University                    | Prof. Dr. Eva-Maria Pfeiffer, Hamburg University<br>Prof. Dr. Jürgen Böhner, Hamburg University  |
| 3                         | Karpova, Alina      | Spatial-temporal dynamics of morphometric parameters of lakes on the Yamal peninsula and the Lena river delta area            | Dr. Irina Fedorova, Saint Petersburg State University                             | Prof. Dr. Guido Grosse, Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research  |
| 4                         | Khachatryan, Eduard | Validation of ATI SAR ocean and sea ice surface velocity derived from TanDEM-X and coastal radar data, near Barrow, Alaska    | Dr. Vladimir Volkov, Nansen International Environmental and Remote Sensing Centre | Prof. Dr. Lars Kaleschke, Hamburg University   |
| 5                         | Mikheeva, Elena     | The local accumulation and transfer of PAH contamination in Arctic snow cover, Barentsburg, Western Spitsbergen               | Dr. Anna Nikulina, Arctic and Antarctic Research Institute                        | Dr. Richard Seifert, Hamburg University  |
| 6                         | Onopko, Vladislav   | Numerical investigations of lateral tidal straining in regions of freshwater<br>Influence with the one-dimensional GOTM model | Prof. Dr. Victor Ionov, Saint Petersburg State University                         | Prof. Dr. Hans Burchard, Leibniz Institute for Baltic Sea Research Warnemuende<br>Dr. Christian Winter, MARUM Center for Marine Environmental Sciences |
| 7                         | Samoilenko, Vitaii  | Analysis of evapotranspiration water fluxes at a floodplain tundra in the Lena river delta                                    | Prof. Dr. Kirill Chistyakov, Saint Petersburg State University                    | Prof. Lars Kutzbach, Hamburg University  |

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| 8   | Sharmar, Vitalii    | Analysis of wind-wave spectra under fetch-limited and non fetch-limited conditions  | Prof. Dr. Leoind Lopatukhin, Saint Petersburg State University  | Prof. Dr. Peter Fröhle, Hamburg University of Technology                                   |
| 9   | Sitnikova, Tatiana  | East Antarctic volcanic margin: crustal structure and tectonic evolution  | Dr. German Leitchenkov, Saint Petersburg State University   | Dr. Sascha Brune<br>GFZ German Research Centre for Geosciences<br>Helmholtz Centre Potsdam |
| 10  | Smelova, Tatiana    | Thermal evolution of the Cooperation Sea sedimentary basin  | Dr. German Leitchenkov, Saint Petersburg State University   | Prof. Dr. Lars Rüpke, GEOMAR Helmholtz Centre for Ocean Research Kiel                      |
| 11  | Terentieva, Darina  | Methane production and carbon dynamic in permafrost sediments of the Kara Sea   | Dr. Aleksey Krylov, Saint Petersburg State University   | Dr. Heidemarie Kassens, GEOMAR Helmholtz Centre for Ocean Research Kiel                    |
| 12  | Tkachenko, Anton    | Temperature-dependence of thermal conductivity and implications for the thermal-state of the Norwegian margin   | Dr. German Leitchenkov, Saint Petersburg State University   | Prof. Dr. Lars Rüpke, GEOMAR Helmholtz Centre for Ocean Research Kiel                      |
| 13  | Vladimirov, Mikhail | Crustal structure of the southern part of the Baltic Sea using geophysical methods  | 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   |
| 14  | Volynets, Aleksandr | 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 | Dr. Irina Fedorova, Saint Petersburg State University   | Dr. Frank Günther, Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research |