

Institute of Geology & Northern Water Problems Institute, Karelian Research Centre of Russian
Academy of Sciences (Petrozavodsk),
Herzen State Pedagogical University of Russia (Saint Petersburg)
Institute of Geography (Moscow),
Saint Petersburg State University (Saint Petersburg),
Lomonosov Moscow State University (Moscow),
Geological Institute of RAS (Moscow)

Lateglacial-Interglacial transition: glaciotectonic, seismoactivity, catastrophic hydrographic and landscape changes

INQUA Peribaltic Working Group Meeting and Excursion 2018
19–25 August 2018

International Scientific Conference and School for Young Scientists

Program of the conference

Karelian Research Centre of Russian Academy of Science
Petrozavodsk 2018



Organizing Committee:

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Slukovskii Z.I. (deputy chairman of the Committee), Petrozavodsk, Russia

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on the scientific part of the conference

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on accommodation, meals and excursions

Ltd "Karelika" info@karelika.ru

web-site: <http://karelika.ru/en/conference/paleolimnology/>

Program of the conference

August 20th

Karelian Research Centre of Russian Academy of Sciences (central hall)

9 ⁰⁰	Transfer by bus from the hotel Piter Inn to Pushkinskaya Str., 11
9 ⁰⁰ -9 ⁴⁰	Registration of participants
9 ⁴⁰ -10 ⁰⁰	<p style="text-align: center;">Greetings of participants</p> <p>Olga Bakhmet, <i>Acting President of the KarRC RAS, RAS Corr. Fellow, Doctor (DSc) of Biology, Chairman of the Program Committee</i></p> <p>Sergey Svetov, <i>Director of the Institute of Geology of the KarRC RAS, Doctor (DSc) of Geological and Mineralogical Sciences</i></p> <p>Dmitry Subetto, <i>Herzen State Pedagogical University of Russia and Northern Water Problems Institute, Karelian Research Centre of Russian Academy of Sciences, Prof., Dr. Doctor (DSc) of Geography, chairman of the Organizing Committee</i></p> <p>Olga Druzhinina, <i>scientific researcher of P.P. Shirshov Institute of Oceanology of the Russian Academy of Sciences (IO RAS), the Atlantic Branch, Doctor (DSc) of Earth Sciences, INQUA Peribaltic WG secretary</i></p>
10 ⁰⁰ -12 ³⁰	Sectional presentations Section Leader – Dmitry Subetto
10 ⁰⁰ -10 ¹⁵	<p>Valery Astakhov, <i>A. P. Karpinsky Russian Geological Research Institute, St. Petersburg State University</i></p> <p>Traces of The Penultimate Interglaciation in Northern Russia</p>
10 ¹⁵ -10 ³⁰	<p>Peter Johansson, <i>Geological Survey of Finland</i></p> <p>Laser Scanning Technology in Mapping And Classifying of Meltwater Erosional Forms in Fell Areas of Finnish Lapland</p>
10 ³⁰ -10 ⁴⁵	<p>Piotr Kittel, <i>Department of Geomorphology and Palaeogeography, Faculty of Geographical Sciences, University of Lodz</i></p> <p>Plaeoenvironmental Situation of The Mesolithic and Neolithic Settlement in Serteya (Western Russia)</p>
10 ⁴⁵ -11 ⁰⁰	<p>Lamsters Kristaps, <i>Faculty of Geography and Earth Sciences, University of Latvia</i></p> <p>Studies of Contemporary Glaciers in Arctic and Antarctica at The University of Latvia</p>
11 ⁰⁰ -11 ¹⁵	Coffee break and Poster session
11 ¹⁵ -11 ³⁰	<p>Christian Opp, <i>Philipps-Universität Marburg, Faculty of Geography</i></p> <p>Lowland and Mountain Regions in Northern And Central Germany under (Peri-)Glacial Conditions During the Pleistocene – a Literature and Field Evidence Discussion</p>
11 ³⁰ -11 ⁴⁵	<p>Elena Rusakova, <i>Federal State Budgetary Scientific Institution Central Soil Museum by V.V. Dokuchaev</i></p> <p>Soil maps of the Leningrad region (Northwest Russia): the Historical Aspect</p>
11 ⁴⁵ -12 ⁰⁰	<p>Aleksandr Rybalko, <i>Institute of Earth Sciences of St.Petersburg State University and Ltd "Center for Analysis of Seismic Data at Moscow State University named MV Lomonosov"</i></p> <p>Geology and History of Lake Ladoga as Part of The Water Basins in the Eastern Periphery of the Baltic Shield</p>
12 ⁰⁰ -12 ¹⁵	<p>Pertti Sarala, <i>Geological Survey of Finland and Oulu Mining School, University of Oulu</i></p> <p>Development of Glacial Landforms in Transitional Cold – Warm Bed Subglacial Conditions in the Central Part of Fennoscandian Ice Sheet, in Northern Finland</p>

12 ¹⁵ -12 ³⁰	Vera Strakhovenko , <i>The V.S. Sobolev Institute of Geology and Mineralogy of the Siberian Branch of the Russian Academy of Sciences</i> Reconstruction of the Conditions of Sedimentogenesis of Fe-Mn Mineralization of Lake Onega Modern Complex of Methods of Mineralogy and Geochemistry
12 ³⁰ -12 ⁴⁵	Wojciech Wysota , <i>Faculty of Earth Sciences, Nicolaus Copernicus University in Toruń</i> Late Weichselian Catastrophic Glacial Floods in North Poland: Geomorphologic Signature and Palaeogeographic Implications
12 ⁴⁵ -14 ⁰⁰	Lunch
14 ⁰⁵ -18 ³⁵	School for Young Scientists Section Leader – Olga Druzhinina
14 ⁰⁵ -16 ²⁵	Lectures for young scientists
14 ⁰⁵ -14 ³⁰	Dmitry Subetto , <i>Herzen State Pedagogical University of Russia and Northern Water Problems Institute, Karelian Research Centre of Russian Academy of Sciences</i> Modern State of Paleolimnological Studies in Northern Russia
14 ³⁰ -14 ⁵⁵	Nataliya Zaretskaya , <i>Geological Institute of RAS</i> Geochronology of the Late Pleistocene - Late Glacial Transition in The European Northeast
14 ⁵⁵ -15 ²⁰	Tatiana Shelekhova , <i>FIC KarRC RAS Institute of Geology, Karelian Research Centre, RAS</i> Glacier Contribution to the Formation of Karelia's Relief
15 ²⁰ -15 ³⁵	Coffee break and Poster session
15 ³⁵ -16 ⁰⁰	Alexey Rusakov , <i>Saint-Petersburg State University</i> Micromorphological Record of Pedogenesis and Landscape Evolution in The Late Quaternary Pedosediments (MIS3) Within the Upper Volga River Basin
16 ⁰⁰ -16 ²⁵	Birgit Terhorst , <i>University of Würzburg</i> New Insights into the Loess-Paleosol Sequences. Pleistocene Periglacial Layers and Holocene Soil Formation in Central Europe
16 ²⁵ -18 ³⁵	Presentations of young scientists Section Leader – Alexander Makeev
16 ²⁵ -16 ⁴⁰	Aleksander Adamczyk , <i>Faculty of Earth Sciences, Nicolaus Copernicus University</i> Geomorphology and Origin of Glacial Curvilineations (GCLs) in the European Lowland
16 ⁴⁰ -16 ⁵⁵	Maria Fedorova , <i>Saint-Petersburg State University, Institute of Earth Sciensis</i> Soils Buried under Stone Mounds as a Paleoenvironmental Archive (Leningrad Region, Northwest Russia)
16 ⁵⁵ -17 ¹⁰	Sorokin Andrey , <i>Schmidt Institute of Physics of the Earth IPE RAS</i> Features of Seismic Influences During the Formation of Postglacial Dislocations in the Rocky Massifs of the Karelian Coast of the White Sea
17 ¹⁰ -17 ²⁰	Coffee break and Poster session
17 ²⁰ -17 ³⁵	Kust Pavel , <i>Faculty of Soil Science, Lomonosov Moscow State University, Dokuchaev Soil Science Institute, Russian Academy of Science, Institute of Geography, Russian Academy of Sciences</i> Microfabrics in Basal Till of Saalian Glaciation Within Soils in Bipartite Sediments as an Indicator of Till Stability under Influence of the Soil Formation
17 ³⁵ -17 ⁵⁰	Agnieszka Muzińska , <i>College of Inter-Faculty Individual Studies in Mathematics and Natural Sciences, University of Warsaw</i> Migration of Elements and Deep Decalcification in Glacial Till from the Saale Glaciation in NE Poland

17 ⁵⁰ -18 ⁰⁵	Ekaterina Ovdina , <i>The V.S. Sobolev Institute of Geology and Mineralogy of the Siberian Branch of the Russian Academy of Sciences</i> Mineralogical and Geochemical Characteristics of Fe-Mn Formations of The Lake Surgubskoe and Shotozero (Republic of Karelia)
18 ⁰⁵ -18 ²⁰	Lilit Pogosyan , <i>Instituto de Geología UNAM, Ciudad Universitaria</i> The Frigipan in Karelia Luvisol Profile in The Context of the Holocene Landscape Evolution
18 ²⁰ -18 ³⁵	Peribaltic bussiness meeting
18 ³⁵ -19 ⁰⁰	Poster session
19 ⁰⁰	Transfer by bus to the hotel Piter Inn
20 ⁰⁰	Ice breaker party in the café of hotel Piter Inn

List of Poster Presentations

Borodulina Galina, ISOTOPE COMPOSITION OF GROUNDWATER IN KARELIA

Frydrych Malgorzata, ESKERS IN CENTRAL POLAND

Karmazien Danguole, THE MORPHOGENESIS AND SPATIAL SPREAD OF THE KAME TERRACES OF THE LATE NEMUNAS GLACIATION

Korsakova Olga, Lavrova Nadezhda, NEOPLEISTOCENE STRATIGRAPHY IN THE KOLA-KARELIAN REGION (N-W RUSSIA): KEY-SITES

Kublitskii Yuriy, PALAEOCLIMATIC RECONSTRUCTION IN THE SE BALTIC REGION DURING THE LATE PLEISTOCENE–HOLOCENE TRANSITION (KALININGRAD DISTRICT, RUSSIA)

Piotrowski Andrzej, HYDROGRAPHIC CONDITIONS OF THE MEDIEVAL STRONGHOLD IN SANTOK, NW POLAND

Rodionov Alexandr, SEARCHING FOR SEISMIC DISLOCATIONS IN LAKES SEDIMENTS WITH GROUND PENETRATING RADAR

Rusakov Alexey, SOILS BURIED UNDER STONE MOUNDS AS A PALEOENVIRONMENTAL ARCHIVE (LENINGRAD REGION, NORTHWEST RUSSIA)

Rybakov Dmitry, MAY DUST BE ABLE TO PROTECT AGAINST GLOBAL WARMING?

Ryazantsev Pavel, APPLICATION OF GROUND PENETRATING RADAR TO STUDY OF BOTTOM-SEDIMENT STRUCTURE IN LAKES

Sinkune Egle, ICE-MARGINAL GLACIOFLUVIAL SEDIMENTATION AT THE TAURAGNAI SITE

Shvarev Sergey, DEFORMATIONS OF SEDIMENTS AND TOPOGRAPHY OF THE ESKER, AS EFFECTS OF STRONG SEISMIC EVENTS IN LATE GLACIAL (KARELIAN ISTHMUS, SOUTH EASTERN PART OF FENNOSCANDIAN SHIELD)

Shelekhova Tatiyana, POSTGLACIAL PALEOSEISMODISLOCATION ON MOUNT VOTTOVAARA

Slukovskii Zakhar, AVAILABLE FORMS OF HEAVY METALS IN BOTTOM SEDIMENTS OF THE SMALL LAKES OF URBAN AND NON-URBAN AREAS, REPUBLIC OF KARELIA

Sorokin Andrey, DEFORMATION STRUCTURES IN THE QUATERNARY SEDIMENTS OF THE EASTERN PART OF THE BALTIC SHIELD: MORPHOLOGY, POSSIBLE GENESIS AND CONNECTION WITH PALEOSEISMICITY

Subetto Dmitry, VARVED CLAYS AND A CLAY-VARVE CHRONOLOGY OF THE PERIGLACIAL LAKE ONEGO, NW RUSSIA

Svetov Sergey, THE TRACE ELEMENTS CHEMISTRY OF THE "MARCIAL WATERS" SPRINGS, CENTRAL KARELIA

Syrykh Liudmila, DATABASE "PALEOLAKE" IN PALEOLIMNOLOGICAL STUDIES: THE CASE OF SOUTHERN KARELIA

Zygmunt Mark, GEOLOGICAL DEFORMATIONS OF SZCZECIN AREA

August 21st

Trip to Girvas (tour guide **Sergey Svetov and Tatyana Shelekhova**)

(Departure from the hotel Piter Inn by bus № M990 MX)

the beginning of the excursion at 10⁰⁰ am

13⁰⁰ pm – lunch in a cafe

arrival to Petrozavodsk at 19⁰⁰

20⁰⁰ pm – dinner in the restaurant of the hotel Piter Inn

August 22nd

Trip to the Western Shore of Lake Onega (tour guide **Sergey Shvarev**)

and

Trip to Ladva-Paj (tour guide **Lilit Pogosyan**)

the beginning of the excursion and a short city tour at 10⁰⁰

13⁰⁰ pm – lunch (lunch boxes)

arrival to Petrozavodsk at 18⁰⁰

20⁰⁰ pm – banquet

August 23^d

Trip to Lake Ladoga and Island Valaam (tour guide **Dmitry Subetto and Aleksandr Rybalko**)

(Departure from the hotel Piter Inn by bus № M990 MX)

the beginning of the excursion at 9⁰⁰

accommodation at the hotel Igumenskay in isl. Valaam at 14⁰⁰

14³⁰ pm – lunch

An excursion to Isl. Valaam,

a visit of the scientific-educational center of the Russian Hydrological and Meteorological University with lectures at 15⁰⁰-19⁰⁰

dinner at 19⁰⁰

August 24th

excursion to isl. Valaam (continuation) at 9⁰⁰-11³⁰

departure from isl Valaam at 12⁰⁰

13³⁰ – lunch in the cafe in Sortavala city

Dinner in Karjala Park at 18⁰⁰

arrival to the city Petrozavodsk at 20⁰⁰

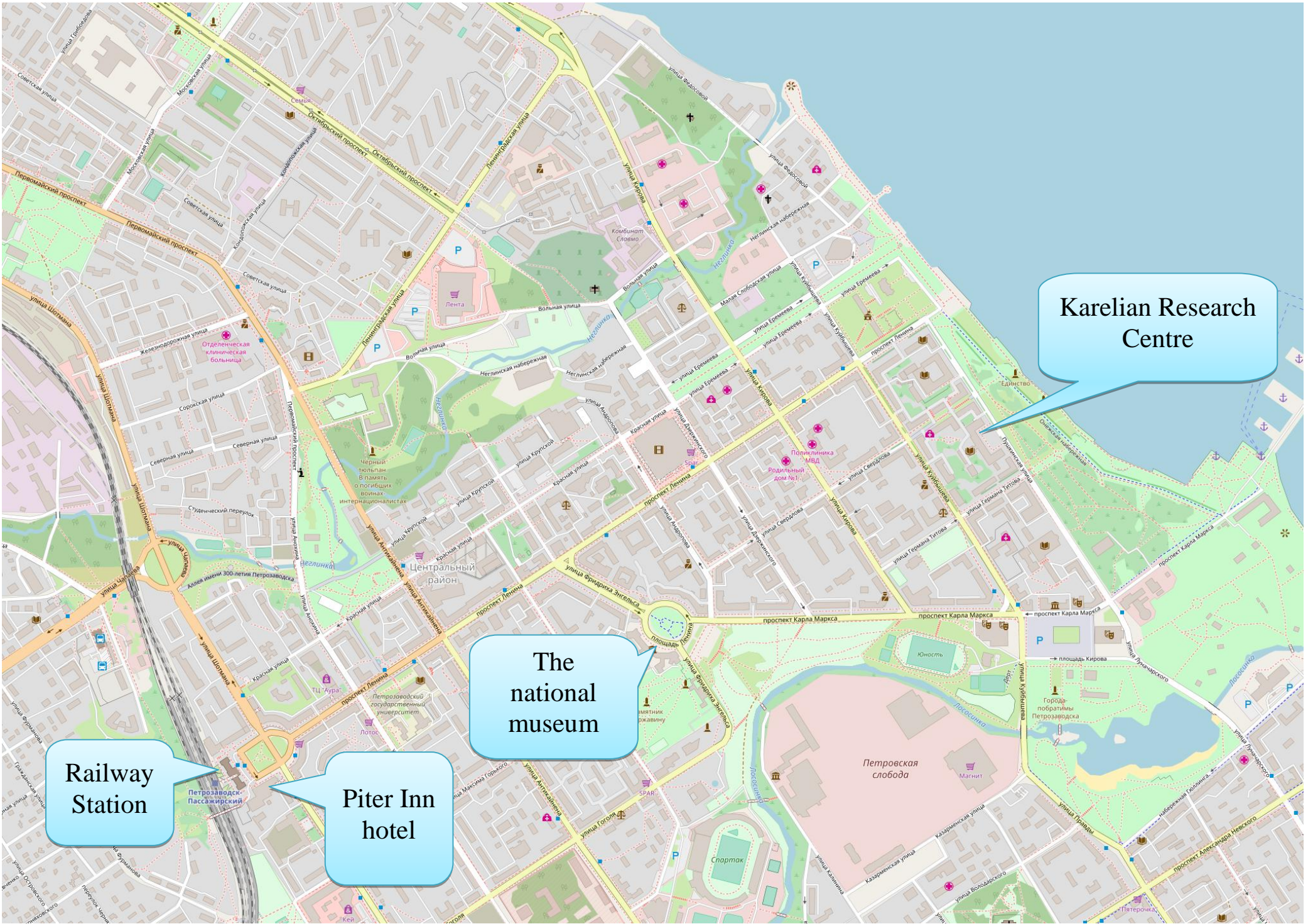
departure of participants

August 25th

Special program. Visit Isl. Kizhi, Lake Onega

Memo for participants

Dietary restrictions	Please, inform us in advance if you have any food allergies or dietary restrictions (vegetarian, vegan, kosher, lactose free, halal and etc.)
Safety	Karelia is one of the safest Russian regions but remember the old saying <i>Caution is the parent of safety</i> and do not leave your documents and personal belongings unattended.
What to wear	Though the average temperature in Karelia is 15-20 °C, for your trip to the petroglyphs site you will need warm clothes (warm underwear, a windbreaker, a cap, gloves). You will need a backpack and comfortable shoes (waterproof boots or wellingtons, a rain poncho) for a hike. One day before the trip find out the weather forecast. In case of good sunny weather there is a possibility to have a swim in Lake Onego, so you can take your swimwear.
Taking pictures	Get your camera ready and remember to change it or take extra batteries.
Medication and personal care products	Remember to take the medication and personal care products which you usually use.
Drinking water	Do not drink tap water, it must be boiled before drinking. Bottled water will be available on the bus.
Local time	Moscow time zone
Mobile communication	GSM works well in the settlements and towns, but it is unstable on the Onego petroglyphs site, there are poor or no connection zones. Find out the roaming cost for Karelia with your mobile company operator.
Souvenirs /gifts	You can buy gifts and souvenirs in Valaam and Petrozavodsk
Electricity	European standard plug-ins, the voltage is 220-230 V, 50 Hz. You will need adapters for the electric appliances made in the GB and the USA.
ATTENTION!	The major part of Karelian territory is the risk zone for tick-borne viral encephalitis. To avoid being infected one must follow the rules: <ul style="list-style-type: none">• Cover exposed skin by wearing long-sleeved shirts, long pants, wear hats or scarves.• Tuck in shirts, tuck pants into socks, and wear closed shoes instead of sandals to prevent bites. The best footwear are wellingtons.• Use a repellent.• Every 2-3 hours spent in the forest look for ticks on your clothes and open-skin parts of your body (as ticks are searching for the place to bite). Check very attentively the head, the neck, examine the clothes.• Do not remove the ticks yourself, turn for help to the group instructor or to a health-care institution.



Karelian Research Centre

The national museum

Railway Station

Piter Inn hotel