




EQUIPMENT & FACILITIES
of the Russian State Hydrometeorological University
offered for shared use
to SUNRAISE partner universities



No.	Title	Description	Photo
Stationary environmental analytical laboratory			
		<p>In accordance with the Charter of the University, the laboratory carries out chemical and analytical research when observing the state of environment, as well as other activities related to environmental works. RGGMU has a Roshydromet license to carry out these activities.</p>	

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1.	Atomic-absorption spectrometer MGA-915	For measuring the content of various elements in aqueous solutions, samples of food products and food raw materials, biological samples, in atmospheric air, soils by the atomic absorption method with electrothermal atomization. Applications: environmental control, process control, testing of food products and food raw materials, industrial sanitation, scientific research.	
2.	Capillary electrophoresis system Kapel-105	Capillary electrophoresis is a highly efficient method for separating and analyzing the components of complex mixtures. For CE analysis, a small volume sample is introduced into a quartz capillary filled with electrolyte. A voltage of 10 ... 30 kV is applied to the capillary. Under the action of an electric field, the sample components begin to move along the capillary at different speeds, depending on their structure, charge, and molecular weight, and, accordingly, reach the detector at different times. The resulting sequence of peaks is called an electropherogram, while the qualitative characteristic of the substance is the time of migration, and the quantitative characteristic is the height or area of the peak, which is proportional to the concentration of the substance.	

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3.	Liquid chromatograph	For the quantitative and qualitative determination of the composition of samples of substances by the methods of high-performance liquid chromatography, they are used in analytical laboratories of enterprises of various industries, in laboratories of research institutes, in forensic analysis, in pharmacology, in the analysis of food and food raw materials, alcoholic and non-alcoholic beverages, and also for environmental control and monitoring purposes.
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Terms of use: under the cooperation agreements all equipment and facilities for study and research are provided at no charge; payment for consumables is a subject to additional agreement on a case-by-case basis.

Contact information: Elena Pomanova lab-him@rshu.ru
 tel.: +7 (812) 633 01 89

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Laboratory “Weather and a man” (portable equipment)

4.	2 Automatic wireless weather stations Davis instruments Vantage pro2 6162 EU	An industrial-grade weather station engineered to handle the harshest environments and deliver data with scientific precision. The Vantage Pro2 offers robust performance with a wide range of options and sensors. RSHU stations are equipped with 4 soil temperature sensors and 2 radiation sensors. The versification period of the 2 stations is until the end of 2021, subject to renewal.	
5	Hardware and software complex for pulse diagnostics Veda-Pulse	Early diagnosis of patients; estimation of weather and climate adaptation effects on human body	

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Contact information: Olga Tenilova tenilova24@yandex.ru

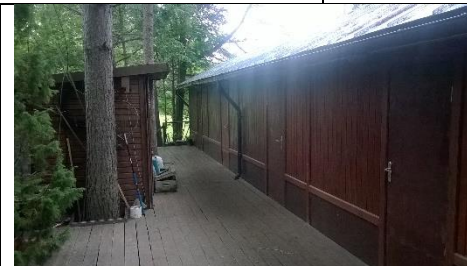
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RSHU Field Research & Training Base at Valaam Archipelago

Can be used for conferences, workshops, practical training courses, and other research and educational events.

Only in summertime; stationary facilities accommodate up to 20 people; self-catering.

Note: lake navigation can be closed due to strong winds at any time; when planning an event for external participants relying on scheduled long-distance connections, allow extra 2-3 days in St Petersburg to avoid logistic problems.



Terms of use: payment for food and accommodation

Contact information: Anastasia Stepanova ab-stepanova@yandex.ru