

PROJECT ACTIVITIES

At present, the region members under the auspices of the Northern Forum are implementing 19 projects on various fronts including:

1. Renewable energy sources. Power supply for isolated settlements of Northern regions. (Sakha Republic (Yakutia), Gangwon Province, State of Alaska).
2. Prevention of addictions. (Khanty-Mansiysk Autonomous Okrug, Sakha Republic (Yakutia), Chukotka Autonomous Okrug)
3. Infectious diseases control (Khanty-Mansiysk Autonomous Okrug, Sakha Republic (Yakutia), Yamalo-Nenets Autonomous Okrug, State of Alaska).
4. Suicide prevention. (Khanty-Mansiysk Autonomous Okrug, Sakha Republic (Yakutia)).
5. Telemedicine (Khanty-Mansiysk Autonomous Okrug, Sakha Republic (Yakutia), Gangwon Province).
6. Schools Partnership (Sakha Republic (Yakutia), Khanty-Mansiysk Autonomous Okrug, State of Alaska, Lapland).
7. Bear Working Group (Sakha Republic (Yakutia), Chukotka Autonomous Okrug, Dalarna, State of Alaska, Kamchatka Krai, Khanty-Mansiysk Autonomous Okrug).
8. Youth Ecological Forum (Sakha Republic (Yakutia), Khanty-Mansiysk Autonomous Okrug, Yamalo-Nenets Autonomous Okrug).
9. Working Group on Water and Climate Change (Khanty-Mansiysk Autonomous Okrug, Sakha Republic (Yakutia), State of Alaska, Krasnoyarsk Krai).
10. Northern Zoos Cooperation (Sakha Republic (Yakutia), Dalarna, Lapland, Krasnoyarsk Krai).
11. Development of Specially Protected Areas (Sakha Republic (Yakutia); Khanty-Mansiysk Autonomous Okrug; Krasnoyarsk Krai; WWF Russia; Natural heritage protection Fund).
12. Festival of Northern Fishing Traditions (Lapland, Sakha Republic (Yakutia); Khanty-Mansiysk Autonomous Okrug, Kamchatka Krai, Yamalo-Nenets Autonomous Okrug).
13. International Ecological Action «To save and to preserve» (Khanty-Mansiysk Autonomous Okrug, Sakha Republic (Yakutia)).
14. Human in the Arctic (Sakha Republic (Yakutia); Krasnoyarsk Krai, Yamalo-Nenets Autonomous Okrug).
15. International Arctic School (Sakha Republic (Yakutia); Yamalo-Nenets Autonomous Okrug).
16. International Arctic Center of Culture and Arts (Sakha Republic (Yakutia); Chukotka Autonomous Okrug, Krasnoyarsk Krai).
17. Bears in The Rites and Traditions of the indigenous peoples of the North (Khanty-Mansiysk Autonomous Okrug, Dalarna (Sweden))
18. Red Book Through the Eyes of Children (Khanty-Mansiysk Autonomous Okrug; Sakha Republic (Yakutia))
19. Website Modernization (All Northern Forum Member Regions).



RENEWABLE ENERGY SOURCES, POWER SUPPLY FOR ISOLATED SETTLEMENTS OF NORTHERN REGIONS

www.eastrenewable.ru

Leading region: Sakha Republic (Yakutia);

Members: Sakha Republic (Yakutia), Gangwon Province, Alaska.

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The project, initially developed by Yukon (Canada), focuses on the issues of sustainable energy – electricity and heat. Using those in the Far North appears to be extremely promising, given the complexity and high cost of the use of conventional power, as well as a "regional response" to the global initiative to the wider application of "green technologies".

A conference titled "Renewable energy in isolated systems of the Russian North-East" is held annually in support of the project, in June and July in Yakutsk under the auspices of Energy Systems of the East Russian JSC and the Northern Forum. The search continues for application of alternative sources of energy, and also for a mutually beneficial deal in the field of energy efficiency. Among the results of the project – a joint work of Sakha Republic (Yakutia) and Gangwon Province to address issues such as the possible introduction of a new power plant in Sakha Republic (Yakutia), operating on low-grade fuels and wastes.

From 9 to 11 June 2016. the IV International Conference "Development of renewable energy in the Far East of Russia", organized by RJSC "ES of the East" and the Government of Sakha Republic (Yakutia).

For three days, representatives of customers, suppliers of equipment and services, regulatory bodies and experts in the field of renewable energy shared their experiences and discussed ways for the development of alternative energy in the region.

At the plenary meeting of the "Renewable Energy in the Far East of Russia: Priorities and Prospects", the conference opened with a welcoming speech Head of Sakha Republic (Yakutia) Egor Borisov, Director General of RJSC "ES of the East" Sergey Tolstoguzov and the Swiss Ambassador to the Russian Federation Pierre Helg. Deputy Chairman of the Government of Sakha Republic (Yakutia) Igor Nikiforov told about prospects of development of electric power and renewable energy sources in Sakha Republic (Yakutia).

The conference was attended by over 380 people, representing around 130 organizations from 14 countries, in the sessions and discussions more than 40 reports were presented. In addition to the main program of the conference was the first-ever Russian-Swiss seminar "Development of energy efficient technologies in the field of energy, housing, and industry. European experience". The next V International Conference "Renewable Energy Development of the Russian Far East" was held in Yakutsk from 22 to 24 June 2017.

In 2017 several official foreign delegations, as well as representatives of the world's largest companies from Japan, China, USA, Germany, France, Switzerland, Czech Republic, Kazakhstan, Uzbekistan took part in the Conference.

The conference was opened by the plenary session at which Egor Borisov, the Head of the Sakha Republic (Yakutia), Nikolay Shulginov, the Chairman of the Management Board and the General Director of PJSC "RusHydro", made a speech. Welcoming speech to the conference participants was made by: First Deputy Committee of the State Duma of the Russian Federation for Energy Sergei Esyakov, Consul General of the USA in Vladivostok Michael Kiaz, Consul General of Germany in Novosibirsk Viktor Richter, Deputy Consul to the People's Republic of China Liu Quan.

Leading Russian and foreign companies presented their experience in implementing renewable energy projects. Participation in the conference was confirmed by Komaihaltec executive director Emi Komai (Japan), Tarora Saki, Mitsubishi Hitachi Power Systems Ltd. (Japan), David Masgrangeas, CEO of Saft Russia (France), Octavio Manzano, President of Apfelbaum Industrial Inc. (USA), Xavier Saury, Caterpillar (Switzerland), Vladislav Poulek, General Director of Traxle Solar Co.Ltd (Czech Republic), Andrey Pokhozhaev, Managing Director for Advanced Projects Development in the Fuel and Energy Complex LLC "UK RUSNANO", Vladimir Aronchik, Project Manager, State Corporation "ROSATOM", etc.

Within the framework of the event, there was an exhibition of generating equipment based on renewable energy sources. Every year, an exhibition where energy equipment manufacturers demonstrate advanced technological solutions in the field of renewable energy, is visited by more than 20 thousand people.



PREVENTION OF ADDICTIONS

Leading region: Khanty-Mansiysk Autonomous Okrug

Members: Sakha Republic (Yakutia),
Chukotka Autonomous Okrug, Yukon

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Dangerous reality with alcohol and drug dependencies in the Russian northern regions, and in Alaska has pushed the Northern Forum to the creation in 2006 of a working group in order to improve treatment and rehabilitation programs in Russia and Alaska. Initially, the group consisted of experts from the northern regions: Vologda Oblast, Republic of Komi, Sakha Republic (Yakutia), St. Petersburg, Khanty-Mansiysk Autonomous Okrug and Chukotka Autonomous Okrug. At the same time, the activities of the project are carried out in the Khanty-Mansiysk Autonomous Okrug – Yugra, and Sakha Republic (Yakutia). The project manager is the Khanty-Mansiysk region.

Project goal: Improving the prevention, treatment and rehabilitation of persons suffering from alcoholism and drug addiction in the regions of "The Northern Forum" International Association.

Accomplishments:

- A seminar with experts from the United States, with published manuals: "Modern approaches to the treatment and rehabilitation of alcohol and other dependencies in the North", Khanty-Mansiysk, 2006; "Training on the treatment and prevention of unwanted dependencies in the North", Khanty-Mansiysk, 2007; Videoconference "Stages and strategies of short-term outpatient rehabilitation of patients suffering from addictions, in the North", Khanty-Mansiysk, 2008.

- On the basis of the Khanty-Mansiysk psychoneurological dispensary an experimental ground for drug prevention, treatment and rehabilitation of drug dependence was established, 2008.
- A website of the experimental ground <http://narkohealth.ru/>.
- Delegation of experts of the Khanty-Mansiysk Autonomous Okrug - Yugra to the United States to examine the current concepts and standards for drug rehabilitation of patients in the USA, 2008.
- Developed and implemented a program of rehabilitation of persons suffering from dependencies in the Far North.

In 2014, work on the project was carried out to examine the associations between polymorphic loci of candidate genes and alcoholism based on ethnicity. In the course of this work visiting research was carried out in various areas of Sakha Republic (Yakutia). The collected biological material (blood of people suffering from alcoholism) is currently undergoing further study (released DNA genotyping and pre-processing of data already received). On the basis of this project the results survey article on the genetics of alcoholism was published in the "Yakutsk Medical Journal".

Also, theses have been prepared for publication with materials of practical neurology conference in Japan on "Correlation of comorbid neurological disease patients suffering from alcoholism and antisocial behavior." Authors – Matveeva N.P. and N.V. Hoyutanova. We submitted articles "The implementation of the state policy of a healthy lifestyle in the Republic of Sakha (Yakutia): the analysis of the results, the forecast" for publication in the scientific journal "Siberian bulletin on Psychiatry and Addiction." Authors: Bohan N.A., Matveeva N.P., Hoyutanova N.V., M.I. Afonskaia, Borisov V.I.

Published in 2014. monograph "Genetic research of population of Yakutia" included an article "Molecular genetic study of hereditary predisposition to alcoholism in indigenous populations of the North of the Arctic population", Authors: N.P. Matveeva, S.S. Kulichkina, N.V. Hoyutanova, N.R. Maximova, A.N. Nogovitsin.

Prepared material on healthy lifestyles to be placed on the national children's portal, developed by the Foundation for future generations of Sakha Republic (Yakutia).



INFECTIOUS DISEASES CONTROL

Leading region: Khanty-Mansiysk Autonomous Okrug

Members: Sakha Republic (Yakutia), Yamalo-Nenets Autonomous Okrug, Alaska,
St.Petersburg

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In connection with the spread of dangerous infections in the regions of the North and the growing damage caused by this, the international community has begun to pay more attention to this issue. In 1998, for the joint fight against them the Arctic Council Sustainable Development Working Group ICS project - Circumpolar surveillance was initiated, involving the Arctic regions.

In the next decade, more and more attention was dedicated to the problem of the spread of tuberculosis in the North that prompted hitherto not participating regions to engage in international activities. In 2006, taking into account the high levels of concern about the frequency of tuberculosis in the Arctic, the ICS

Steering Committee established the working group on tuberculosis. The working group includes Greenland, Northern Canada, Northern Sweden, northern regions of Russia and the Arctic region of the United States (Alaska). In 2008 the Northern Forum joined the work with the new project "Infectious diseases monitoring". Currently, the project is carried out on the basis of medical facilities of member regions of the Northern Forum, as well as with the participation of specialists from the former member of the Northern Forum - St. Petersburg. Despite the fact that the project started with the expectation of coverage of common infectious threats, over time the focus shifted to the problem of tuberculosis; therefore, a working group of the Northern Forum of the same name was created.

Today, within the framework of the project:

- The aims and objectives of the Working group on TB are set.
- The governing body of the Working group and the research plan are formed.
- Almost all the countries of the circumpolar region are involved in the activities of the Working group on TB.
- The main issues on the part of the international framework for TB data and position data transmission between the participants of the Work group are resolved
- The goal of the joint study on tuberculosis in the Nordic territories is formulated.

Currently, the project is actively working - subproject *"Monitoring of drug-resistant tuberculosis infection within the polar regions of Russia"* under the guidance of the Applied Research Centre for Phthiology of Sakha Republic (Yakutia). Leading region: Sakha Republic (Yakutia), the participants: Kamchatka region. Project Coordinator - Kravchenko A.F., Director of "Phthiology Center" of Sakha Republic (Yakutia) Members - Gromov A.V., chief physician of "Kamchatka Regional Anti-Tuberculosis Center".

The subproject "Phthiology" and other participants have formed a working group and identified the scope and objects of research - that is, a working group and the work plan were set. The subproject involved experts from the three regions of the Northern Forum, and conducted the correspondence with the International Circumpolar Monitoring Working group to determine the participants from Canada and the United States.

In 2014, with the support of the Northern Forum, Sakha Republic (Yakutia) has been actively involved in the tuberculosis monitoring project, Director of the Applied Research Centre for Phthiology Aleksandr Kravchenko and the deputy director Maria Vinokurova are included in the international Working group, what was officially announced by Annie-Claude Bourgeois, Co-Chair of the Working group on TB under the International Circumpolar Monitoring System (ICS). ICS TB project "Descriptive review of TB monitoring systems in the polar regions" is currently in development.

Also, a meeting of the Phthiology Russian Society specialists and colleagues from the University of Virginia (United States) on modern methods of bacteriological examinations in the diagnosis of tuberculosis and a workshop on the use of the new test systems for drug susceptibility of Mycobacterium Tuberculosis were conducted.

The manuscript of the monograph "Tuberculosis: Epidemiology and organization of struggle in the present conditions of the Far North in the example of the Republic of Sakha (Yakutia)" is completed. The monograph presents the summarizing results of research staff of the Applied Research Centre for Phthiology devoted

to the epidemiology of tuberculosis and the organization of TB control activities specific to the region of the Far North.

In November 2014 in St. Petersburg the Applied Research Centre for Phthisiology in the framework of the 3rd Congress of the National Association of TB specialists (IFA) held a symposium "Features of the organization and improvement of TB care in the North."

Within the framework of the Northern Forum in a separate session of the Arctic Circle Assembly in Reykjavik, Iceland, issues of expansion of experience and knowledge sharing were discussed to improve the infrastructure in the northern regions, the fragile nature of the protection, the careful development of the mining industry, constant attention to the health and the needs of indigenous peoples, the expansion of membership in the Northern Forum, its project activities, the organization of business cooperation of regions, improving regional activity in participation in the discussion of issues of the North and the Arctic, not only at inter-regional, but also at international levels.

Subproject Working group attended the 16th International Congress on Circumpolar Health (Finland 2015) and held an international conference in September 2015 in Yakutsk.

With the support of the Northern Forum from 2011 "Phthisiology Center" of Sakha Republic (Yakutia), together with Anti-Tuberculosis Centers of Arkhangelsk Oblast and the Khanty-Mansi Autonomous Okrug takes part in the working group on TB of **International Circumpolar System for Infectious Disease Control (ICS)**, which aims to study the TB surveillance system among population of circumpolar regions with common geographic and social problems to develop more effective approaches to the strategy of tuberculosis control in difficult Arctic conditions.

The international ICS project started in 1998 for the epidemiological surveillance of infectious diseases in the Arctic regions, and since 2006 a TB group has been formed: Greenland, northern Canada, northern Sweden, northern regions of Russia and the Arctic region of the United States (Alaska) to identify trends in the epidemiology of TB development, awareness and cooperation in the field of scientific research.

Since then, every year we participate in NF events - a **seminar on the control of infectious diseases** (USA, Alaska, Fairbanks, 2012) in the program of the **15th International Congress on Circumpolar Health**; in 2013, the 11th Assembly of the Northern Forum in Moscow; in October 2014, the second Assembly of the Arctic Circle (Reykjavik, Iceland), Kravchenko and ICH included in the ICS TB Working Group.

During the Congress of the National Association of Phthisiatricians (2014, St. Petersburg), a symposium was held on improving Anti-Tuberculosis propaganda among population of the Russian Northern regions in areas with low population density.

In 2015, the working group participated in the **16th International Congress on Circumpolar Health** held in Finland. According to the reports of participants from Canada, Alaska (USA), Denmark, Greenland on the state of TB, it became clear that a certain problem still exists in a modern society. At the same time, it should be noted that the situation in our republic is no worse than in the circumpolar regions of the northern countries, there are such common issues important for all countries on the detection of latent tuberculosis infection, the vaccination of newborns, MDR TB, work with migrants arriving from high TB risk countries, the use of new technologies for diagnosis and treatment, the need for development and transition to personalized chemotherapy for tuberculosis, the importance of tracing contacts and social interaction.

A meeting of the Working Group on Monitoring Infectious Diseases for Tuberculosis (ICS-TB), led by Tammy Zulz, co-chairman, from the US Arctic Research Program. A joint project on a comparative analysis of tuberculosis monitoring systems in circumpolar regions and 12 regions has been completed. The review is designed to more fully uncover and combine data analysis for future epidemiological studies. Preliminary results of the project were presented at the World Congress on Epidemiology in Anchorage and received positive feedback. The Arctic Studies Program was presented (Centers for Disease Control and Prevention) - USA, Alaska, Canada Health Agency: Northwest Territories, Newfoundland, Labrador, Quebec, Yukon; Finland, Greenland, Norway, Sweden, the Russian Federation. The ICS-TB Regulations for 2015-16 have been discussed, the work plan has been agreed upon, the situation of tuberculosis monitoring in Greenland, Denmark, Alaska, Canada, and Yakutia has been reported. The following joint projects are planned, especially on the study of outbreaks in previously well-off territories.

In September 2015 with the support of the Northern Forum and the Ministry of External Affairs of the Sakha Republic (Yakutia) symposium with international participation was held in the framework of the 12th Assembly of the Northern Forum. Representatives of WHO, ICS TB, Chief Phthisiologists of the Federal District, having northern regions, representatives of the regions.

In 2016 the staff participated with presentations at the **International Conference "Problems of tuberculosis, HIV and STIs in the Arctic regions of the Russian Federation"** (Arkhangelsk) and exchange of practical experience. We made a presentation - "Modern methods of diagnosis and treatment of tuberculosis" at the interregional scientific and practical conference (Petropavlovsk-on-Kamchatka). These Arctic regions support cooperation within the "Monitoring of infectious diseases" NF project.

For the sake of implementation of resolutions of 2015 Symposium, a **zonal meeting "Improvement of TB care to the population in modern social and epidemiological conditions of the Arctic and northern regions"** was held in March 2016.

On the international project, the **ICS-TB Working Group** members published a review article on the systems and practice of TB surveillance in the circumpolar regions "Descriptive review of tuberculosis surveillance systems across the circumpolar regions" Bourgeois AC, Zulz T. , Soborg B., Koch A. Int J Circumpolar Health. 2016 Jan; 75 (1): 30322. Doi: 10.3402 / ijch.v75.30322. PMID: 28156382.

In February 2017, by the NF offer, we participated in the meeting of the Arctic Council's AMAP working group (Yakutsk) with a report on the TB Monitoring Project.

To continue the Sub-Project initiated by us in 2014 for the study and analysis of the prevalence of MDR TB in the polar regions of the Russian Far East, the agree was made with only Kamchatka Krai, it is necessary to involve other regions: the Magadan and Sakhalin Oblasts, Chukotka Autonomous Okrug. In order to motivate the regions to participate in the Northern Forum Project, financial support is needed to pay for development costs to improve monitoring of the spread of TB infection, training and training activities, exchange of experience, holding thematic symposia, seminars.

The aim of the subproject "Monitoring of TB infection with MDR in the polar regions of Russia" is the joint collection of data on the actual problem of tuberculosis infection with M / XDR in the polar regions of Russia, the study and interpretation of the information obtained for use in epidemiological studies and in the development and evaluation of the regional Anti-TB programs.

Interest of executive regions in performing epidemiologic project is determined by high indicators of tuberculosis in the Far-Eastern Federal District of Russia, by frequency increases of pathogen strains with M / XDR, by the need to evaluate their distribution tendencies and increased awareness of the situation in other regions with common problems.

A retrospective analysis of the dynamics of demographic, clinical and bacteriological characteristics of tuberculosis with M / XDR in the population of circumpolar northern regions will create the opportunity to determine the initial characterization of epidemiological surveillance at the regional level.

Systematized data will enable TB control institutions in the implementing territories to more deeply study and determine the characteristics of the development of tuberculosis infection in their regions in comparison with other circumpolar regions.



SUICIDES PREVENTION

Leading region: Khanty-Mansiysk Autonomous Okrug, Sakha Republic (Yakutia)

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Suicide has turned into one of the most urgent problems of modern society. According to the World Health Organization more than one million people in the world commit suicide every year, which gives reason to believe suicide is a major cause of death in many countries. An attempt to commit suicide happens in about 10 - 20 times more people. According to statistics, suicides took 4th place as main cause of death, after cardiovascular diseases, cancer and injuries.

Suicide, therefore, is one of the most pressing problems of the modern world - and in remote northern areas, damage from it increases tenfold. "Suicide prevention" project therefore focuses on the establishment of programs combating manifestations of suicidal ideation and suicidal behavior in people, taking into account the effect of sociological, climatic and ethnic factors.

In Russia in 2010 in the structure of mortality the third place is occupied by external causes of death, where the highest percentage of deaths comes from suicide.

Even more urgent is the problem of suicides in the northern regions, where in addition to climatic factors of considerable importance are ethnic and cultural factors.

Currently, in Khanty-Mansiysk Autonomous Okrug - Ugra starting 1 March 2008 works a crisis office, whose main task is to prevent suicide and assistance in crisis situations. For these purposes, the office emergency psychological assistance and service "Telephone hotline" were established.

Service specialists perform services to provide emergency psychological assistance and counseling free of charge around the clock by phone at 8-800-101-1212, 8-800-101-1200, the number is available from anywhere in the autonomous region.

In addition, in 2017 it is planned to develop a program to train volunteers for the prevention of suicidal actions among children and youth.

The project is carried out to establish a work group on the issue, as well as seminars. Participants will also take part in international events devoted to this problem - for example, this year, the Yakut project representatives took part in the International Congress on the issue of suicide in Finland.

Funding for the project comes from the institutions directly involved in the project.

Goal of the project:

Reducing the number of suicide victims in the northern regions that are members of Northern Forum.

Objectives of the project:

- Creation of a work group on suicide prevention in the North;
- Study of the problem of suicides in the regions-members of the Northern Forum;
- Development and implementation of programs for the prevention of suicide and suicidal behavior aimed at various sections and groups of the population, taking into account climatic, ethnic, cultural and other factors of the northern regions;
- Develop training programs for professionals involved in the prevention of suicide;
- Development of cooperation with governmental and non-governmental organizations in efforts to prevent suicide.

Expected results:

Development and implementation in the northern regions - members of the Northern Forum evidence-based programs to prevent suicide and suicidal behavior, taking into account climatic, cultural, ethnic, social and other characteristics of the regions. Publication of manuals, scientific-practical conferences.

Proposal for the promotion of Suicides Prevention project

1. Description of the project: Within the frames of this project an alcoholism and suicide prevention method will be developed, based on scientific problem analysis in the territory of Sakha Republic (Yakutia) and Khanty-Mansiysk Autonomous Okrug - Ugra. A study of prevalence of mental disorders and substance abuse in Sakha Republic (Yakutia) and Khanty-Mansiysk Autonomous Okrug - Ugra, a collection of official data of Mental and Substance-Abuse Agencies of Sakha Republic (Yakutia) and Khanty-Mansiysk Autonomous Okrug - Ugra, the interaction with the Mental Health Research Institute of Tomsk National Research Medical Center (TNRMC), a trilateral agreement on cooperation between the Mental Health Research Institute of TNRMC, Institute of Medicine North-Eastern Federal University (NEFU) and "Surgut Clinical Psychoneurological Hospital" (Khanty-Mansiysk Autonomous Okrug), project's media coverage are planned to be carried out. Stage 2 (11.01.2018 - 31.10.2018) includes statistical data processing for preparation and publication of the

Mental Health Atlas, project's media coverage, publishing articles in "Siberian Bulletin for Psychiatry and Substance Abuse" magazine

2. Project Location: Sakha Republic (Yakutia), Khanty-Mansiysk Autonomous Okrug.

3. Project start date: 09/04/2017.

4. Project finish date: 29/10/2018.

5. Justification of the social significance of the project: President of the Russian Federation Vladimir Putin in his report at the IV International Forum "Arctic – the Territory of Dialogue" stressed that "the Arctic becomes the place of the closest attention of countries and peoples. Russia, which accounts for almost a third of the Arctic zone, is aware of the special responsibility for this territory. Our goal is to ensure sustainable development of the Arctic, and this is the creation of modern infrastructure, resources development, development of industrial base, improving the quality of life of the indigenous peoples of the North, preserving their distinctive culture, their traditions, and careful attitude of the state." During the forum, the topic of comfortable living in the Arctic was widely discussed. "In the Arctic, we need healthy and strong centenarians," noted Minister of Healthcare of the Russian Federation Veronika Skvortsova, and also brought sad statistics: to date, life expectancy in the Arctic and the Arctic area is 6-7 years less than the average for Russia. Mortality is 9 times higher." Among the factors that affect short life expectancy, as she noted, are the lack of ultraviolet, immunity, delayed regenerative functions, and other features that are described in the scientific literature as a syndrome of "polar stress" (V.P. Kaznacheyev), leading to depression and alcoholism in the North. In Yakutia, there is an increase in the incidence of health disorders requiring psychotherapeutic care. In 2015 in the Republic, the proportion of primary patients with non-psychotic disorders increased by 21.8% (in 2014 - 52%, 2015 - 66.5%). There is a high level of suicides in Yakutia. The primary indicator characterizing the tension of the alcohol situation is the primary incidence of alcoholism. By the end of 2015 Bulun, Verkhoyansk and Even-Bytantai Regions are leading, or 238.5, 200.9 and 179.3 per 100 thousand, respectively.

In 2015 in Bulunsky District in comparison with 2005 there was an increase in primary morbidity by alcoholism in 3,5 times, in Eveno-Bytantaysky District - 2,5 times. The incidence of alcoholism among the female population of Bulunsky District has a tendency of steady growth, and in 2015, compared to 2005, this indicator grew 5.6 times. For 6 years, the population of Bulunsky District has decreased by 7%.

The following trends are observed in Khanty-Mansiysk Autonomous Okrug-Ugra: the number of primary patients with non-psychotic disorders increased by 10.4% (in 2015 - 184.7 per 100 thousand, 2016 - 203.9 per 100 thousand). In 2016, there was a 2.9% decrease in the number of primary alcoholism incidence: 2015 - 77.7 and 2016 - 75.5 per 100 thousand, but there was a slight increase in the number of patients with alcoholic psychosis with the first-ever diagnosis, indicators of primary alcoholic psychosis incidence in 2016 increased by 2.9% and amounted to 16.7 per 100 thousand (2015 - 16.3).

Conducting a scientific analysis of the problem of the prevalence of addictive disorders and suicides in the territories of the above-mentioned regions will allow a development of appropriate preventive measures for each region, taking into account the prevalence of certain disorders. Preventive measures will increase life expectancy and quality of life, and thereby enlarge human capital of the Arctic territories of the Russian Federation.

6. Target groups of the project: Population of Sakha Republic (Yakutia) and Khanty-Mansiysk Autonomous Okrug -Ugra.

7. Goal of the project: Goal No.1: Mental Health Protection of population of Sakha Republic (Yakutia) and Khanty-Mansiysk Autonomous Okrug - Ugra by introducing preventive methods.

8. Objectives of the project: Objective No.1: Evaluation of the prevalence of mental disorders and substance abuse in Sakha Republic (Yakutia) and Khanty-Mansiysk Autonomous Okrug - Ugra;

Objective No.2: A publication of the Mental Health Atlas.

9. Project Partners: Surgut Clinical Psychoneurological Dispensary; Mental Health Research Institute of Tomsk National Research Medical Center of the Russian Academy of Sciences; Medical Institute of the North-Eastern Federal University.

10. Project's information support: Project's media coverage will be provided by placing information on the official websites of the Northern Forum, "Surgut Clinical Psychoneurological Dispensary, Department of Healthcare of Khanty-Mansiysk Autonomous Okrug - Ugra, Ministry of Healthcare of Sakha Republic (Yakutia) - <https://minzdrav.sakha.gov.ru>, NEFU - <https://www.s-vfu.ru>, Sakha National Broadcasting Company - nvk-online.ru, Mental Health Research Institute of TNRMC - www.mental-health.ru, as well as through the regional media, by regional and all-Russian publications. Preparing and publishing articles in the magazine – "Siberian Bulletin for Psychiatry and Substance Abuse".

11. Qualitative results: As the result of the project, a timely detection and prevention of addictive, psychosomatic, depressive and anxiety disorders will be organized. Preventive care for residents of the Arctic regions will reduce their mortality rate, increase life expectancy and quality of life in the Far North.

12. Further development of the project: This project will be a pilot for the Arctic and Northern areas of Sakha Republic (Yakutia) and Khanty-Mansiysk Autonomous Okrug -Ugra, the positive experience of the Arctic regions in preventing the spread of psychosomatic and addictive disorders will be extended to other areas of the Arctic regions of the Russian Federation.

13. Project Coordinators:

Andrey Novikov, Chief of Medicine, Khanty-Mansiysk Autonomous Okrug Surgut Clinical Psychoneurological Dispensary;

Nyurguyaana Matveeva, Ph.D., Research Fellow, Genomic Medicine Laboratory, Medical Institute, North-Eastern Federal University, Addiction Psychiatrist.

16. ESTIMATE OF EXPENDITURES:

No.	Item of Expenditure	Total cost	Co-financing	Amount requested
1.	Payroll	210 000	90 000	120,000
2.	Transport Expenses	145,000	0	145,000
3.	Travel expenses	80,000	0	80,000
4.	Publication of Mental Health Atlas	300 000	0	300 000
	TOTAL	735,000	90 000	645 000



TELEMEDICINE

Project coordinator: Matveev Nikolay, Head of Telemedicine Centre "Republican Centre for Disaster Medicine" under Ministry of Healthcare of Sakha Republic (Yakutia) telemedrs@yandex.ru, mob. +7(914)224-68-52, phone +7(4112)42-96-51;

Participants: Aleksandr Tsaregorotsev, Deputy Director for Science, Ugra Research Institute of Information technologies
Phone: +7(3467)35-91-35; email: alexts@uriit.ru

Dr. Ahn MooEob, Hallym University Medical Center, Gangwon-do,
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The northern regions are often sparsely populated and communication between the settlements is often broken or complicated. In such circumstances, supporting an effective health system that can deal with serious cases of diseases appears to be a very costly and difficult matter. However, the use of modern technology can greatly simplify and reduce the cost of operation in regions remote from the center of health care institutions.

Telemedicine - a pilot project, has reached some success, in the framework of seminars and the exchange of experiences in the cities of Anchorage, Seward, Khanty-Mansiysk, Yakutsk, Seattle, and Pyeongchang. Remote communication technology and data transfer for briefing and seminar allows to apply the experience of leading medical centers in any remote hospital.

In the course of the initiative, experts from the Republic of Sakha and Khanty-Mansiysk District held a meeting with experts from the US, South Korea (Gangwon), Finland - which made it possible to bring the mass adoption of this technology in remote treatment. During the exchange of experience, the primary points were the technical support questions.

Funding for the project comes from the institutions directly involved in the project.



SCHOOLS PARTNERSHIP

Leading regions: Sakha Republic (Yakutia), Khanty-Mansiysk Autonomous Okrug, Alaska, Lapland
Contact person: Dora Egorova
+7(914) 290-22-25, edorae@mail.ru

The project, led by Sakha Republic, is dedicated to the development of schools partnership in the North. Leading organization - Yakutsk City National Gymnasium, leading its own project "School of life in the North". Work on the project started in 2008. and in its framework includes:

International educational teleconferences, competitions, presentations, training and research projects for the elementary school, meeting students of sister cities, and so on. Events are organized with orientation on the age group - for elementary, middle and high school separately, with the emphasis on international activities focused on high school students. Within the project Yakutsk City National Gymnasium cooperates with West High School, Romig Middle School, Turnagain Elementary School (Alaska) and School no.3 (Khanty-Mansiysk AO).

Objective of the project:

To create conditions for school of life in the North, based on intercultural dialogue of peoples inhabiting North and conduct educational research on the conceptualization of the northern view of the world.

Project programs:

Language program «Cooperation among schools»

Objective: Cultural and educational dialogue "School of life in the North" among students, teachers and educational institutions of the Northern regions of the world to create conditions for the implementation of cross-cultural communication and the implementation of the intercultural competence of students.

Eco program – Program leader: Nikitina V.G.

Objective: teaching school children to have an active life position and love for their native northern edge

National Sports program – Program leader: Krylova T.L.

Objective: Support and promotion of national sports in order to protect and strengthen children's health and physical well-being; creation of conditions for practicing the national sports

Design and Construction of the National Dress program - Program leader: Fyodorova S.P.

Objective: to study national traditions in the creation of national and clothing technology of the North.

A project aimed at:

- orientation of students on the values of life of the North;
- formation of competencies in students in accordance with their abilities, aptitudes and individual needs;
- skills training and skills elaborated by the harsh conditions of life in the North;
- study of the culture of life in the North;
- familiarize students with the basics of health preservation;
- preservation of moral and spiritual precepts of the North;
- the development of foreign language communicative competence of students;
- formation of linguocultural skills, skills to collect, organize and summarize information.

In 2013-14 the project has intensified its work after a pause, and brought tangible results - under the leadership of Sakha Republic (Yakutsk City National Gymnasium) in 2013, an action plan was developed, and other regions agreed to participate in the project (Alaska, Yamalo-Nenets AO). The 2014 results are:

- "School of living in the North" Online Olympiad for students in English, with 302 participants in the first round, 219 students in the three regions (Sakha Republic (Yakutia), Russia, Yamalo-Nenets Autonomous Okrug, Russia, Alaska, United States)
- "The image of the North" Interactive Festival of ice sculptures and snow figures for schoolchildren from regions of the Northern Forum (school stage)
- Review of concepts of young designers "Northern Rainbow" among schoolchildren from regions of the Northern Forum (school stage)
- Scientific-practical conference of the Northern Forum "School of living in the North" among schoolchildren, with 46 students (school stage) from grades 2 to 8.
- Correspondence with peers in the regions of the North
- Sports video-competitions

With its gained motion, the project continues its work in 2015-2016. The Secretariat was provided by the work plan, which includes more serious initiatives - such as the students' meeting, scientific conference and an international children's camp.

As part of the project for each academic year many activities take place, united by one theme "School of Living in the North", where students of educational institutions studying the experience of northern residents, and using that to accumulate new knowledge useful in the unique conditions of the North. Yakutsk City National Gymnasium is making efforts to consolidate member schools from regions of the Northern Forum.

Thus, in December 2016 on the initiative of the project coordinator a working meeting of representatives of regional schools was held, with representatives from Yakutsk, Anabarsky District, Gorny District, Nizhnekolymsky District, Namsky District, Vilyuysky District and Taimyr Dolgan-Nenets Municipal District of Krasnoyarsk Krai (in absentia).

In 2016 the project "School Partnership" worked in the following areas:

- Correspondence
- Skype talk
- Online Olympiad in English
- Metasubject Olympiad in English
- Olympiad on the Russian language
- Waste sorting
- Ecobag
- Scientific-practical conference in English
- Ice Festival "Alsib - track of courage and mutual aid"
- Clothing in the North
- Northern Sports
- Essay contest
- The Future of the North Business Game
- "How will life in the North change in the future" Roundtable
- Student educational trip

Correspondence

Michelle Weil leads this part of the project - a teacher of Russian language at West Anchorage High School, Anchorage, USA, using «Edmodo», an educational platform where students of the Yakutsk City National Gymnasium and West Anchorage High School exchange messages in text and video formats, in English and Russian languages.

Skype talk

The leader of this part of the project is Miriam McFarlane - laboratory specialist. A trial communicative session with students of Tarun High School, Australia took place in March. A total of 3 sessions were held in 2016.

Online Olympiad in English

The competition was attended by 267 students from 7 districts of Sakha Republic (Yakutia), schools of Yakutsk and West Anchorage High School, Anchorage, USA. Olympiad tasks consisted of different areas of school subjects (mathematics, physics, biology, history, geography) in English.

Metasubject Olympiad in English

Tasks of the metasubject olympiad focused on cross-cultural values and experiences in the North, and are practical and applicable.

Olympiad on Russian language

In March 2016, students of Yakutsk City National Gymnasium participated in the interactive Olympiad of the Russian language in the state of Alaska, which is held in Anchorage.

Waste sorting

In March 2016, the parents of the Yakut City National Gymnasium purchased 9 dumpsters with a volume of 200L., which were installed on each floor of the gymnasium with each 3 waste tanks labeled "Waste Paper", "Plastic Packaging", and other garbage. In April tailoring of fashionable eco-bags took place using secondary raw materials (cloth banners used during the Ysyakh celebration in Yakutsk) for grade 6 students. In September, the school took part in Bargaryy fund republican eco projects grant, as well as designing and calculating costings of waste sorting bins in the city park and the national zoo "Orto Doydu".



Meeting of regional representatives of schools

Ecobag

63 students of the Yakutsk City National High School worked on sewing bags for sport uniforms of different colors, decorated with the national symbol - a talisman, or children's names. Primary school 6th grade pupils of Stanhope Elementary, London, under the guidance of teacher Alexander Feldman also took part in the event.

Scientific-practical conference in English

In 2016, the conference brought together 142 participants from Sakha Republic educational institutions. The conference's subjects were: "History. Ethnography. Local history. Geography. Economy ", "World of Hobbies", "Art. Architecture. Culture. Technology", "Engineering. Mathematics. Informatics "Science", "Languages and Literature"

The Future of the North business game

At the end of December 2016, testing of the business game was held. It was attended by 25 middle and high school students, who were separated into teams.

Teams developed projects on one of the following topics:

- What would you do if you owned a hectare of land?
- How to use the pros and cons of living in the North?
- Remote Employment.

At the meeting of regional representatives of schools, which was held within the framework of the business game, the results of the event were discussed, recommendations for the games were formulated, and decision-makers on the territorial division were assigned.

Educational trip to Rovaniemi, Lapland, Finland

From 17 to 23 June 2016 a study tour to the education system in Finland took place thanks to the Governor of Lapland Mika Riipi and University of the Arctic represented by Vice-President Outi Snellman.

During the visit, the students of Yakutsk City National Gymnasium visited the Pilke Science Center, Science Center and Arktikum Museum, Korundi Museum of Contemporary Art and the Santa Claus Village.

Pierre-André Forest of the University of Lapland Arctic Centre held a lecture about the Finnish education system. Also, there was a meeting with Vice President of the University of the Arctic Outi Snellman, who has expressed a willingness to cooperate on the project. In addition, the students made a presentation and told about Yakutia, its climate, medicinal plants, art, traditions and their gymnasium.

Visit of Ambassador Extraordinary and Plenipotentiary of the Kingdom of Norway

On November 28, 2016, the Norwegian delegation led by Ambassador Extraordinary and Plenipotentiary of the Kingdom of Norway Leydolv Namtvedt visited Yakutsk City National Gymnasium as part of his official visit to Sakha Republic (Yakutia).

The delegation got acquainted with the course of the round table "How will life in the North change in the future", where the participants discussed the future professions, education, innovation, and medicine. Also, the ceremony of awarding the winners of the essay competition took place during the visit. Students conducted a tour of the school, and the visit ended with a tasting of national dishes.

Recommendations on the project:

- Conducting an online Olympiad for schoolchildren by foreign educational institutions, language centers;
- Holding a scientific and practical conference in English on the basis of the IEF (International Environmental Forum);
- The integration of projects on the online Olympiad and the scientific and practical conference in English and the IEF;
- Participation of schoolchildren in the research work of scientists and researchers, research centers;
- Search for social partners of the project.



BEAR WORKING GROUP

Leading region: Sakha Republic (Yakutia);

Members: Chukotka Autonomous Okrug, Dalarna, Alaska, Vologda,
Kamchatka Krai, Khanty-Mansiysk Autonomous Okrug

Project coordinator: Innokentiy Okhlopkov, researcher, Institute of
Permafrost Zone Biological Problems of Siberian Branch of Russian
Academy of Sciences

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Regions of the Northern Forum are generally aware of the bears first-hand - contact between people and brown bear in settlements or close to them are not uncommon. Due to the risk of injury and even threat to life, the Brown Bear Working group conducts work on the exchange of experiences and the creation of conditions preventing the dangerous proximity of bear to man. It is also a good opportunity for beginner biologists and conservationists to self-apply in the practical implementation of the work. The working group has been active – their work involves not only experts and scholars, but the whole organization (such as a partner of the Northern Forum - Orsa Gronklitt from Sweden); as well as representatives of regional administrations.



Leading region: regional rotation;
Members: Sakha Republic (Yakutia), Khanty-Mansiysk Autonomous Okrug, Yamalo-Nenets Autonomous Okrug, Hokkaido

The Youth Eco-Forum meets every year or every other year and is a great place for teenagers and young people. At the forum, they not only can get to know each other and have a good time, but also share their experience about the environmental problems of the places where they come from. Focal topics are prevention of climate change, improving environmental awareness of citizens, urban ecology and the like; Moreover, topics are updated for each new forum.

The forum participants keep the relations initiated on the forum via the Internet; And those who choose an environmentally oriented specialty continue their cooperation in the future. Forums are held almost every year for more than 10 years - in 2012 it was held in Yukon (Whitehorse) and was dedicated to climate change and balance in the environment, in 2014 the forum was held in Yakutsk on the topic "Clean city - clean planet". A total of 34 participants participated in the forum (26 students and 8 attendants). The forum was held on the basis of the Children Center for Rest and Recuperation (CCRR) "Sosnovy Bor" in Yakutsk. During the 10-day forum, various events took place - lectures by experts on the environment and the ecology of cities, team discussions on the development of projects to address the current problems of cities and towns of the North, as well as visits to such objects as the Orangery of the North-Eastern Federal University, the scientific Station "Spasskaya Fold", physical and mathematical school "Lenskiy krai" and the natural park "Lenskie Pillars", listed in UNESCO. The cultural program included excursions to the Yakutsk city sights, as well as activities at the place of stay - in Sosnovy Bor.

participants was held, which was evaluated by a group of experts headed by the Mayor of Yakutsk, Aysen Sergeevich Nikolaev. The experts thanked the participants for their analytical approach to solving the problems and good arguments in favor of their point of view, and also spoke about their vision of the problems examined. The Northern Forum Secretariat provided project preparation for the presentation and

project "coaching" to the teams. The next international environmental forum was scheduled for August 2016 in Salekhard, Yamalo-Nenets Autonomous Okrug. A youth delegation from Hokkaido Prefecture, Japan was planned to visit the event. Due to the introduction of emergency situation in the Yamalo-Nenets Autonomous Okrug, the forum was postponed until April 2017.



WORKING GROUP ON WATER AND CLIMATE CHANGE

Leading regions: Khanty-Mansiysk Autonomous Okrug, Sakha Republic (Yakutia), Alaska, Krasnoyarsk Krai

Contact person: Nikita Tananaev, Head, Igarkinsky Laboratory, Permafrost Institute of Siberian Branch of Russian Academy of Sciences
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Floods are a worldwide issue. In the North, it has regional characteristics. Since the rivers freeze for the winter, every spring the ice breaking and the subsequent ice drift creates the danger of flooding and even flooding of coastal settlements – the proof is in the devastating flood of 2002 in Yakutia. The relevance of this project is therefore difficult to overestimate.

As part of the work of the Working group on Water Resources and Floods, an agreement was concluded with the Canadian company C-CORE, which provided high-quality satellite images of the floods, which rescuers could use not only to navigate in the fight against congestion of incoming ice, but also to predict the danger from a possible flood in general. At the moment, work on the project is in the direction of creating a large database on the movement of ice.

During 2016, the main activities were aimed at the development and implementation of educational, research and scientific and organizational projects by joint efforts of the group's participants. In educational activities, a Sakha Republic representative in the Working group Nikita Tananaev developed, prepared and conducted classes on thematic areas "Earth from Space" and "Field Methods of Geographical Research" in the Y.A. Gagarin Children's Cosmonautics Club (St. Petersburg; <http://space.shumgam.com/>) for students of 9 to 13 age. The developed materials can be used in the future to work in thematic school camps.

Outcomes:

- proposals for joint grants of the RFBR on the topics of "Analysis of hydrological risks on the territory of the Khanty-Mansiysk Autonomous Okrug with the use of geoinformation technologies and mathematical modeling of river flow formation processes" were prepared and submitted;
- an application for a joint RFBR-Khanty-Mansiysk Autonomous Okrug-Ugra regional grant named "Analysis of hydrological risks in the Khanty-Mansiysk Autonomous Okrug with the use of geoinformation technologies and mathematical modeling of river flow formation processes" was prepared and submitted. The project suggests study of the modern structure of hydrological risks in the territory of Khanty-Mansiysk Autonomous Okrug - Ugra, including using methods of mathematical modeling of river flow. The result of the work will be an assessment of hydrological safety within the Okrug and the development of recommendatory measures to protect the population and economic objects from the hazardous impact of river waters. The project manager from Yugirsky Research Institute is Kochergin G.A., from the Permafrost Institute - Tananaev N.I.
- an application for a joint regional grant "Development of methods for hydroinformation support of risk management of hazardous hydrological phenomena in the basin of Lena river on the basis of models of formation of river drain and dynamics of channel flows" was prepared and submitted. The main scientific results of the project will be up-to-date methods for managing flood risks in Sakha Republic (Yakutia) and assessing the effectiveness of hydrotechnical measures on the rivers of Lena basin. Project Manager - Tananaev N.I.



NORTHERN ZOOS COOPERATION

Leading region: Sakha Republic (Yakutia);

Members: Dalarna, Lapland, Krasnoyarsk Krai, Heilongjiang, St.Petersburg, Khabarovsk Krai

Contact persons: Luka Safonov, Director, Orto Doydu Zoo,
Natalia Cafonova, Deputy Director; ykt-zoo@mail.ru, nvsaf@rambler.ru,
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General information

Northern Zoos Cooperation project within the framework of the Environment program was initiated by Sakha Republic (Yakutia) and adopted as a priority project of the Northern Forum at the 7th General Assembly in Harbin, Heilongjiang Province (China) in June 2005.

The goal of the project - development of inter-zoo communication system, expansion of international cooperation in the conservation of the flora and fauna of the northern territories and gaining attention of public authorities to zoos in conservation of flora and fauna of the northern territories.

The main objectives of the project:

- establishment of close ties between zoos of northern countries and territories;
- development and implementation by members of the work group of joint programs for the breeding of rare species of flora and fauna of the northern territories;
- facilitating the exchange of animals between project members;
- raising the professional level of the employees of the organization-members of the project by organizing meetings, conferences, seminars on the most important problems of zoo business;
- development of educational workshops;
- the implementation of publishing activities in order to disseminate the latest scientific and practical achievements of zoo business, as well as popularization of biological knowledge;

- cooperation with governments, public organizations and international environmental groups in programs related to the activities of zoos.

Project participants: Alaska Zoo, Anchorage (Alaska, USA); Ecological Museum of Flora and Fauna, Zelenogorsk (Krasnoyarsk Krai, Russia); Roev Ruchey Park of flora and fauna, Krasnoyarsk (Russia); Orsa Gronklitt Park, Orsa (Sweden); Ranua Zoo, Ranua (Lapland, Finland); Leningrad Zoo, St. Petersburg (Russia); V.P. Sysoeva Priamursky Zoo, Khabarovsk (Khabarovsk Territory, Russia); Northern Forest Zoo, Harbin (Heilongjiang, China); Orto Doydu Republican Zoo, Yakutsk (Sakha Republic (Yakutia) (Russia), Seversky Zoo, Seversk, Russia.

Conducted working meetings

The first working meeting was held in Anchorage on September 16-22, 2006, in which 6 zoos took part - the Northern Forest Zoo in Harbin, the Zoo in Ranua, Lapland; Zoo in Anchorage, Alaska; Roev Ruchey Park of flora and fauna, Krasnoyarsk Krai; Leningrad Zoo, St. Petersburg; Orto Doydu Zoo, Sakha Republic (Yakutia). At the first meeting, the composition of the working group, the purpose and directions of the group's work were determined. During the work of the group, meetings were organized with the staff of the Seward Marine Life Center, Alaska Wildlife Conservation Center.

The second working meeting took place in September 2007 in St. Petersburg. The theme of the meeting was the educational work carried out by zoos. So, the staff of the Leningrad Zoo, one of the oldest zoos in Russia, conducted lectures on the work of the scientific and educational department, which conducts various types of work with visitors and schoolchildren - from lectures to public events. Also, the draft charter of the Association of Northern Zoos, developed by the Leningrad Zoo, was considered. However, the registration of the Association was postponed indefinitely and the work was continued as a working group of the Northern Forum.

The third working meeting took place in September 2008 in Yakutsk. The meeting was devoted to the role of zoos in preserving local (aboriginal) fauna and peculiarities of keeping tropical animals in northern zoos. The participants shared their experience in the field of conservation of rare and endangered species of animals (Asian wildfowl in the Yakut zoo, brown bear and wolverine in Ranua Park, rare and endangered species of animals in the Krasnoyarsk park of flora and fauna "Roev Ruchey", food for tropical animals in conditions of Harbin Zoo, Amur Tigers and Kamchatka Bears in Orsa Gronklitt Park (Sweden)), as well as in the field of environmental education, including with adolescents of social risk groups for prevention of behavioral diseases.

During 2009 – 2010, information was exchanged between project members in the field of keeping and breeding wild animals in artificially created conditions, information was collected on scientific research and educational work. Exchange of animals is actively carried out between zoos in Russia. So, the Leningrad Zoo received from Yakutia aboriginal species of Yakut cattle - a Yakut cow for demonstration on the contact area of the children's zoo, in turn Yakutia received a yak from Leningrad. To the park of flora and fauna "Roev Ruchey" and the ecological museum of flora and fauna of Zelenogorsk from Yakutia are sent musk oxen for keep and further breeding.

Fourth meeting of the project took place in August 2011 in Orsa Gronklitt (Sweden), at the invitation of director Anders Björklund, in parallel with the international symposium on bears and the meeting of the asset of the work group on brown bears of the Northern Forum. The meeting participants got acquainted

with the work of the park of predatory animals, methods of keeping, feeding and other aspects of the park's work. During the analysis of the work of the group for the past period, it was suggested to intensify activities in the field of sharing experiences on animals in artificially created environments and the educational direction.

Fifth working meeting of the international group "Northern Zoos Cooperation" under the auspices of the Northern Forum was held in Krasnoyarsk Roev Ruchey Park of Flora and Fauna from September 3 to 8, 2012. The seminar presented reports in the field of veterinary support - "Endoscopic determination of the sex of birds in the collection of the Roev Ruchey Park; In the field of keep and breeding – "Artificial feeding of carnivorous mammals in the park" at Roev Ruchey, "Raising mackerel at Roev Ruchey park", "Adaptation of giraffes from South Africa at the Roev Ruchey park", "Successes in keep and breeding of some species of animals in the conditions of the Orto Doydu Yakut zoo", "The experience of keeping and breeding polar bears in the Ranua Zoo", "Adaptation of penguins at the Roev Ruchey park", "Enrichment of the habitat and training of predatory animals in the Leningrad Zoo", "The formula of mixed fodders and rations for feeding of poultry in the conditions of the Roev Ruchey park"; in the field of educational and information activities – "On prospect of issue of the St. Petersburg Zoo journal", "Educational programs of the Roev Ruchey park for children and adolescents"; in the field of landscape work – "Development and creation of an individual style of the Roev Ruchey park".

Work in 2016

1. During 2016, work to exchange information has continued.

Correspondence on the issues of keeping animals and other aspects of zoo activity continues, and a page on Facebook titled "Northern Zoos" is being updated.

2. Successful work on a rare species of carnivorous mammals - a polar bear/

Within the framework of the project in the Yakut Orto-Doydu zoo a pair of polar bears was set up for keeping and breeding. The required zootechnical and veterinary work is being carried out, an additional compartment for the female is built with the means of the white bears' guardian, necessary for its separation during childbirth and offspring feeding. The result of this project was reproduction of this species in 2016 in the Yakut zoo. The female Kolymana brought offspring and successfully feeds it herself. Thus, the efforts of project members created a breeding pair of a rare species listed in the Red Book of the Russian Federation, Sakha Republic (Yakutia), and International Red Book.

After its sex is determined, the fate of the bear cub will be decided. The male is necessary for a member of the Northern Zoos Cooperation - V.P. Sysoev Khabarovsk Zoo. Female cub will be transferred to the Leningrad Zoo.

For the effectiveness of the project, new meetings are needed with the support of the Secretariat and the regions of the Northern Forum.



DEVELOPMENT OF SPECIALLY PROTECTED AREAS

Participating regions: Sakha Republic (Yakutia), Khanty-Mansiysk Autonomous Okrug; Leningrad Oblast; Khabarovsk Krai; Krasnoyarsk Krai; Zabalkaysky Krai; St.Petersburg, WWF Russia; Protection of Natural Heritage Foundation.

Contact person: Yakov Sivtsev, Leader of the NF working group on development of specially protected areas project, Director, Directorate for bioresources and specially protected areas under Ministry of Nature Protection of Sakha Republic (Yakutia);
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Specially protected natural areas around the world are the most effective tool for preserving biodiversity and entire territories in their original form. The peculiarity of the Northern Protected Areas is the vulnerable, fragile, difficult-to-restore nature.

The project began as a seminar on the development of Specially Protected Natural Areas, which was held in autumn 2012 in Yakutsk with the support of the Northern Forum Secretariat. Representatives of not only Sakha Republic, but also many other subjects of the Russian Federation - Khanty-Mansiysk Autonomous Okrug, Sakhalin Oblast, Amur oblast, Krasnoyarsk Krai, Zabaykalsky Krai participated in the seminar; as well as foreign subjects - members of the Northern Forum.

During the seminar, round tables were held on the following topics:

- "Improvement of the SPNA system and management mechanisms";
- "Legal issues of functioning of SPNAs";
- "Peculiarities of public and private partnership in supporting the activities of SPNAs"

Participants also visited the UNESCO World Heritage Site, the Lena Pillars Natural Park and the Ust-Buotama forest bison farm.

Based on the results of the seminar, a Working group for the project was formed, headed by Yakov Sivtsev, Director of Directorate for bioresources and specially protected areas. A second seminar is currently being planned.

Objectives of the project:

- Overcoming the modern disconnection of regional SPNAs;
- Establishing contacts and cooperation on a long-term basis in the Northern regions;
- Inclusion of regional SPNAs systems in strategies and plans for the development of international programs to support the activities of SPNAs;
- Promotion of the activities of regional protected areas for environmental protection and ecotourism development.

Directions of further work:

- preparation of recommendations for executive and legislative authorities on improving management mechanisms, support of specially protected natural areas, regulatory framework taking into account international experience, involvement of local people, organizations of indigenous minorities of the North and public organizations;
- development of a set of support mechanisms and funding of projects, which could include multilateral or bilateral public assistance, public-private partnerships, grants from foundations and the private sector, etc.;
- assisting regional governments in the preparation of proposals for the revision of the status of significant SPNAs on the federal level;
- the establishment of mutually beneficial cooperation with the working groups and regular participants (organizations of indigenous peoples of the North), Arctic Council, Commission of the International Union for Conservation of Nature, WWF organizations in the countries - participants of the working group ;
- Assisting in the creation of scientific and industrial structures – biotechnology clusters in the regions participating in the work group;
- assessment of the effectiveness of the SPNAs with WWF standards;
- In order to promote the peoples of the North's spiritual, moral, and environmental conservation traditions a complex of ecological education in environmental work is to be applied, the integration of science, education, culture and art is to be secured;

In 2014, the project was not active, but there was an active work in the region, the initiator of the project - Sakha Republic (Yakutia). The ideas that were discussed at a seminar in 2012, continued to grow momentum and were the basis for the adoption in 2014 of new legislation relating to SPNAs: the law of the Republic of Sakha (Yakutia) on specially protected natural territories, developed and approved the model provisions of "On the State Nature Reserve" and "On resource reserves". A set of proposals has been formed in the State Duma of the Federal Assembly of the Russian Federation and the Ministry of Natural Resources of the revisions to the Code of the Russian Federation on conferment of status of state inspectors to SPNA human

environmental inspectors – these proposals were ratified in December 2014. The SPNA land question was also looked into - in November 2014 the Ministry of Nature Protection of the Republic of Sakha (Yakutia) at the hearings in the State Duma of the Federal Assembly announced proposals for changes to inventory laws, the land and forest codes in the regulation of land relations issues.

In 2015, the Ministry of Nature Protection of Sakha Republic (Yakutia) has resumed work on the project. In particular, coordinator of the project from Sakha Republic (Yakutia) has been appointed and a plan of action has been worked out. The plan includes items such as working with the regions of the Russian Federation on the development of protected areas (Yamalo-Nenets AO, Tomsk Oblast, Chukotka AO, Krasnoyarsk Krai, etc.), the second workshop on protected areas was held in St. Petersburg.

FESTIVAL OF NORTHERN FISHING TRADITIONS



Leading region: Lapland, Sakha Republic (Yakutia);

Members: Khanty-Mansiysk Autonomous Okrug, Kamchatka Krai,
Yamalo-Nenets Autonomous Okrug.

Contact person: Tero Mustonen

www.arktika.sakha.gov.ru

The Festival of northern fishing traditions was declared in 2013 as an event endorsed by the Northern Forum, and in the period from 13 to 22 September 2014 took place in Sevetijärvi (Finland). The festival was attended by a delegation of the Khanty-Mansiysk Autonomous Okrug - Yugra of 5 persons. The Forum was attended by delegations from the United States, Great Britain, Russia and Finland.

During the Festival, the following events took place: lectures, practical activities (fishing with a sweep-net on lakes Puruvesi, Sevetijärvi, hike to the Neiden River to explore the project of Sami-Skolt on habitats and restoration of the Atlantic salmon population). The cultural program included: visit to the cultural centers of the Sami Siida in Inari and Syayos, musical program on the theme "North Fish", visiting the exhibition of crafts: tanning fish skin.

Results of the Festival: the creation of an international network of small northern fishing farms, the aim of which is to prepare the northern and arctic fisheries, knowledge sharing and trade of fish in the Eurasian North.

As part of this work from September 2-3, 2016 in conjunction with the cooperative "Snow Change" (Finland) and the Association of Indigenous Peoples of Sakha Republic (Yakutia) the 2nd International Festival of Northern Traditional Fishing was held under the auspices of the Northern Forum in Zhigansky district of Sakha Republic (Yakutia).

The following representatives of Snowchange Cooperative visited this year: Tero Mustonen, Kaisa Mustonen (Finland), Medin Christopher John (United Kingdom), as well as Aslak Holmberg (Saami Education Centre).

The next festival is scheduled to take place in Khanty-Mansiysk Autonomous Okrug in 2018.



INTERNATIONAL ECOLOGICAL ACTION "TO SAVE AND PRESERVE"

Leading region: Khanty-Mansiysk Autonomous Okrug

Members: Sakha Republic (Yakutia)

International ecological action "To Save and Preserve" is a unique socially-significant ecological project that consolidates the efforts of the authorities and the public in addressing environmental management and environmental protection. Implementation of this project in the context of national environmental policy is a mechanism to facilitate the implementation of the basic principles of sustainable development of society.

The action is aimed at improving the system of environmental education and awareness, improve the ecological culture of the public, the development of interregional and international cooperation in ensuring the environmentally sound, sustainable development of the Khanty-Mansiysk Autonomous Okrug - Ugra.

From May 12 to June 5 in the Khanty-Mansiysk Autonomous Okrug the annual International Ecological Action "To Save and Preserve" took place, which since its inception was held under the auspices of the Northern Forum as a separate project. This is a unique socially-significant ecological project that consolidates the efforts of the authorities and the public in addressing environmental management and environmental protection. Implementation of this project in the context of national environmental policy is a mechanism to facilitate the implementation of the basic principles of sustainable development of society.

The action is aimed at improving the system of environmental education and awareness, improve the ecological culture of the population, the development of interregional and international cooperation in ensuring the environmentally sound, sustainable development of the Khanty-Mansiysk Autonomous Okrug - Ugra.

In 2016, within the framework of the action "To Save and Protect" the district conference of young specialists working in oil companies was held. It included nine cities of Ugra, representatives of Moscow, Perm, St. Petersburg, Bashkortostan, and Yamalo-Nenets Autonomous Okrug. The event was presented to many reports, and, as usual, gained a lot of attention.

On behalf of the Northern Forum and the Governor of Krasnoyarsk Krai, Mikhail Pogodaev, Executive Director of the Northern Forum, spoke at the press conference. He thanked the Governor of Ugra and district administration for carrying out such a large and unique ecological campaign.

Today, the Northern Forum actively begins to work in the Arctic Council, joint projects for the conservation of nature in the Arctic are being conducted. Mikhail Pogodaev expressed hope that as we approach the year of Ecology, district leadership will consider the possibility of holding the Northern Forum meeting in Khanty-Mansiysk.

- The total number of events held in Ugra within the action "To Save and Preserve" in 2016 is over 7000 (in 2013 - more than 5 thousand.), of which:
 - - Nature protection- 46%
 - - Environmental education- 54%
- The total number of participants in the program activities - more than 490 thousand people. (450 thousand - in 2013), accounting for over 30% of the population of the autonomous region, one third part accounts for children, teens and youth;
- Participants of the program campaign activities: representatives of 22 municipal entities of Ugra, 64 Russian regions and 37 countries of neighboring countries and beyond. campaign.

34 events, approved in March of that year by order of Khanty-Mansiysk AO Government, were held in the framework of the campaign in their entirety. 8 of them – at the national and international levels, were attended by 22 municipalities of Ugra, the representatives of 40 countries of neighboring countries and beyond and 77 Russian regions. The number of participants of "To Save and Preserve" - more than 300 thousand people.



HUMAN IN THE ARCTIC

Leading region: Sakha Republic (Yakutia);

Members: Krasnoyarsk Krai, Yamalo-Nenets Autonomous Okrug

Contact person: Valentina Kondratieva, Head, Center for Strategic
Research of Sakha Republic (Yakutia

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Egor Makarov

Human in the Arctic project was initiated by Sakha Republic (Yakutia) in 2014. The main objective of the project is to assess the quality of life in the Arctic, the identification of the main problems hindering the development of man in the Arctic, and developing measures to enhance the role of motivation, business development, while maintaining the traditional lifestyle of the peoples of the North, taking into account the use of experience of foreign countries in the Arctic.

To evaluate the quality of life, field case studies to assess the quality of life in the territory of the Arctic zone of the Russian Federation are being conducted, the results of which indicate the activity of the population in the management of life and a willingness to improve qualification, well-being and motivation to conduct business activity, to revive traditional occupations, and to preserve cultural identity.

The project includes training and methodological workshops to enhance motivation for entrepreneurial activity of the population that has preserved the traditional way of life of the peoples of the North.

Project results will serve as the formation of new approaches to the integrated study of the problems of the Arctic, the evaluation and monitoring of indicators that give an objective picture of the Man in the Arctic, and the development of measures to improve the quality of life of the population living in the Arctic.

As part of the project the Concept and Action Plan up until 2017 was developed, an analysis of the results of research and methodological approaches to the study of socio-economic development of the Russian Arctic population was conducted, the basic trends of social and economic development of the Arctic zone of Sakha Republic (Yakutia) were determined. Evaluation of the applicability of Arctic social indicators developed by the

Arctic Council Sustainable Development Working group in Arctic areas of Sakha Republic (Yakutia). The data revealed a number of problems related to the comparability of the individual indicators developed within the project. In accordance with the analysis a list of social indicators for the main 5 areas was drawn up: material well-being, education, health and demography, the fate of management, viability of the culture, and closeness to nature. According to these indicators annual monitoring is conducted in Sakha Republic (Yakutia). In addition, in the framework of micro-population of the Russian Federation in 2016, regional observation was conducted in the northern and arctic regions of the country, aimed at assessing the quality of life. The surveys up-to-date information on the quality of life of the population of the Arctic areas of the country in the following areas: education, health, migration and employment, the financial position of households, fluency in national languages, and following the national traditions of the peoples of the North.

In 2014, a pilot survey was conducted in Kazache Village, Ust-Yana District and Haryyalah Village, Olenek District, aimed at assessing the quality of life in the Arctic. The results showed activity of the population, desire to learn, willingness to raise the qualification level and the level of its revenues with business activity, the revival of traditional occupations. According to the results of surveys socio-demographic portrait of the man in the Arctic was compiled.

In these settlements pilot training and methodological seminars were conducted to increase motivation for entrepreneurial activity, organized by the Centre for Strategic Research of Sakha Republic (Yakutia) and municipal administrations of the settlements, with the involvement of experts from M.K. Ammosov North-Eastern Federal University.

For effective exchange of international experience and innovative development of the entrepreneurial activity of the population in the Arctic conditions the leaders of the group, identified by the results of the seminar, in September - October 2016 were trained in the practical course "Modern business technologies: reindeer herding" in Norway. After a competitive selection held by the Ministry of Entrepreneurship and Tourism Development of Sakha Republic (Yakutia), businessmen obtained a license for the implementation souvenir handmade products at the VI International Sports Games "Children of Asia" in 2016.

Methodology, tools of sociological surveys and educational-methodological seminar program are applicable in other localities of the Arctic zone of Sakha Republic (Yakutia) and the regions of the Russian Arctic. Thus, according to the proposed methodology and tools a sociological survey was carried out in the Turukhansk District of the Krasnoyarsk Territory, Zhigansk Village and Kystatyam Village, Zhigansky Area, and Iengra Village, Neryungrinsky District.

Implementation of Human in the Arctic project is included in the activities of socio-economic development of Ust-Yansky district of Sakha Republic (Yakutia) (Decree no.216 of the Government of Sakha Republic (Yakutia) of 26 July 2014) and a set of social measures in economic development of Zhigansky National Evenki District of Sakha Republic (Yakutia) (Decree no.317 of the Government of Sakha Republic (Yakutia) of 31.08.2016).

According to the program of educational-methodological seminar on the improvement of motivation to the business activities of indigenous minorities of the North in July 2016 by the Centre in conjunction with the Administration of Neryungrinsky district a business seminar on the topic "Motivation for entrepreneurial activity" was organized in Iengra, and is planned to take place in March 2017 in Kystatyam, Zhigansky District. The main lecturer at the seminar is Elin Sabbasen - business consultant at Saami Development Centre, National Coordinator of the microcredit project in Norway.

In 2017, Human in the Arctic project covered Russian Federation's Arctic area - Magadan Region. Inclusion of the rest of the Arctic areas of Sakha Republic (Yakutia) is planned in the project, as well as of member regions of the Northern Forum.

Events:

Human in the Arctic project served as the flagship for the "Positive life strategy of the Northern population" session held within the XII General Assembly of the Northern Forum in November 2015 in Yakutsk. The session presented 16 projects in key areas of life: education, health, cultural integrity and preservation of traditional activities.

Members of the Federation Council of the Federal Assembly from the subjects of the Arctic zone of Russia, as well as heads of executive powers of Sakha Republic (Yakutia) and other Russian regions, representatives of the member regions of the Northern Forum, the leading scientific and educational institutions, business partners, project coordinators and other stakeholders joined the project results discussion. The event was attended by over 170 people.

As a result of the work of the General Assembly of the Northern Forum the Board of Governors adopted resolution no.177 "On the Northern Forum project activities", which proposed the new operating structure of the Northern Forum in the form of the working groups. Human in the Arctic project is implemented within the framework of the working group of the Northern Forum on assessment of quality of life in the Arctic regions.

In March 2017 in order to exchange experiences in the entrepreneurial activity, the use of technology in the production and processing of products of the traditional industries of the North to reduce unemployment, social unrest and for income growth of the population of the Arctic, during the all-Russian Congress of Reindeer Herders, the Centre in collaboration with the Department of External Relations of Sakha Republic (Yakutia) and the Northern Forum, will organize a roundtable with international participants devoted to the quality of life in the Arctic.

In June 2017, IX International Congress of Arctic Social Sciences (International Congress of Arctic Social Sciences) will be held, in which the Center acts as a co-organizer and moderator of the round table dedicated to the issues of evaluating the quality of life in the Arctic in cooperation with the Department of External Relations of Sakha Republic (Yakutia) and President of the International Association for Social Research of the Arctic, Professor at the University of Northern British Columbia Gail Fondahl.

In the future monitoring of social indicators will form a common information base to explore the dynamics of quality of life of Russian Arctic population, followed by the identification of the main problems of human development in the Arctic region and the development of recommendations for their solution. Human in the Arctic project will conduct more detailed work involving not only Sakha Republic (Yakutia) and other regions of the Russian Arctic, but also the Arctic territories of foreign countries.

In October, the project will be presented at the meeting of the Arctic Council Sustainable Development Working group. Presentation of the project is aimed at attracting the Arctic Council member countries to participate in the project.





INTERNATIONAL ARCTIC SCHOOL

Leading region: Sakha Republic (Yakutia);

Members: Yamalo-Nenets Autonomous Okrug.

Contact person: Feodosia Gabysheva, First Deputy Minister of Education and Science of Sakha Republic (Yakutia)

Arctic International School is to be established on the initiative of the Head of Sakha Republic (Yakutia) and aims to develop international cooperation between Arctic countries in the field of educational activities.

It will be located on the basis of public autonomous institution of additional education of Sakha Republic (Yakutia), Children Center for Rest and Recuperation "Sosnovy Bor", forming a single innovative educational complex.

The mission of the School is to develop human resources capacity of countries in the Arctic region as a major factor of economic and social development in the context of cross-border cooperation, to nurture competitive, responsible citizens, able to learn throughout life, aimed at service to the people and the development of the Arctic region through intercultural understanding and respect.

Goal: integration of federal and international standards in the field of education for the preservation and development of the human capital in the Arctic and North.

Objectives:

1. Creation of an innovative model of schools to ensure quality education, successful adaptation, and all-round development of students of the Arctic region through individualization of the educational process, the formation of universal educational actions and key competences of graduates.
2. The development and self-development of participants in the educational process through the organization of networking with educational institutions of Russia and the world, the organization of continuing education and international cooperation system.
3. Development of international and regional cooperation through international organizations, such as the UN, UNESCO, Arctic Council, Northern Forum and organization of creative interaction (including

educational programs of the partner schools abroad, students educational exchange projects), integration of the basic values of civilization in the Arctic human values in education.

International Arctic School in Sakha Republic (Yakutia) is an integrated organization, which aims to implement a network of technology and to provide quality education for the children of the world standard in Siberia, the Russian Far East and the countries of the Arctic region.

The international status of the School will be confirmed through implemented International Baccalaureate programs (IB), accreditation in the Council of International Schools (CIS), international educational projects of the United Nations, UNESCO, the Arctic Council and the Northern Forum.

Arctic International School is a full-time school, which will create the conditions for harmonious and comprehensive development.

Teaching language at the International Arctic School are Russian and English.

Forms of study: group, network, individual consultations, project activity between parallel classes, different age groups, and distance learning with foreign professors. Training will be carried out according to International Baccalaureate programs (IB).

Start of construction of the International Arctic School is scheduled in 2017 with the commissioning of the building no later than December 1, 2019 according to the Decree no.2826 of the Head of Sakha Republic (Yakutia) from August 18, 2014 «On the socio-economic development of Yakutsk - the capital of Sakha Republic (Yakutia) for the period of 2015-2019" and the order no.1260-p of the Government of Sakha Republic (Yakutia) from November 6, 2014 "On approval of the Integrated Programme ("roadmap") of creating the International Arctic school in Sakha Republic (Yakutia)".

Design, construction and maintenance of the building is planned in accordance with the Agreement on public-private partnership, which was signed on December 29, 2015 between Sakha Republic (Yakutia) and Gazenergomontazh LLC. This agreement is regulated by the Decree no.417 of Sakha Republic (Yakutia) from November 5, 2015 "On conclusion of the agreement on public-private partnership on the design, creation and maintenance of facilities of pre-school, secondary, additional education and culture in the Yakutsk city district, Sakha Republic (Yakutia)".

"RIO LLC project company, according to the agreement with Gazenergomontazh LLC leads the design work on the International Arctic School.

The main technical and economic indicators:

Building Area: 4343,73 m²

The total area of the designed building: 7642.0 m²

According to the decree no.1149 of the Head of Sakha Republic (Yakutia) of 28 October 2016 "On sending delegations of Sakha Republic (Yakutia) to Paris (France)" the visit of the Minister of Education of the Republic of Sakha (Yakutia), F.V. Gabysheva, Head of Department of registration and issuance of legal acts of the Administration of the Head of Sakha Republic (Yakutia) and Sakha Republic (Yakutia) R.R. Zhirkov, chief specialist of the Ministry of Federal Relations and External Relations Sakha Republic (Yakutia), the executive secretary of the Commission for UNESCO of the Head of Sakha Republic (Yakutia), E.A. Sidorova took place.

The visit was conducted at the official invitation of the Permanent Mission of the Russian Federation to UNESCO of October 20, 2016 no.1443.

The main objective was the presentation of educational projects of the Republic at the Headquarters of the United Nations Educational, Scientific and Cultural Organization (UNESCO), including the International Arctic School. UNESCO officials expressed readiness to support the project.

In December 2019, the International Arctic School building is planned to be put into operation and works for the authorization by Office of the International Baccalaureate (Netherlands) shall start. To successfully complete this procedure, it seems important to enlist the support of an international organization such as the Arctic Council.

In this regard, please consider the possibility of presenting the "International Arctic School" project at the Arctic Council's regular meeting.

In addition, in connection with the introduction of subjects in the curriculum of the International Arctic School on the study of the history, culture and languages of the peoples of the North and the Arctic, Arctic science (ecology, climate, sustainable development of the Arctic, development of Arctic competencies) and the creation of the Museum of the Arctic Civilization within the school, it is necessary to establish contacts with prospective partners in the search for professional teachers, incl. from the residents of the Arctic regions.

For the successful implementation of the project for the creation of the International Arctic School, exchange of experience, knowledge and support of business relations in education, we ask you to assist at the level of the Northern Forum in the search for partners from international schools implementing international baccalaureate programs and located in the Arctic countries.

The International Arctic School was initiated by the Head of the Sakha Republic (Yakutia) in order to create an innovative model of education in a multilingual environment, taking into account the best Russian and international practices.

The International Arctic School will teach the International Baccalaureate programs in English, the content of education is planned to introduce the Arctic component.



INTERNATIONAL ARCTIC CENTRE OF CULTURE AND ARTS

Leading region: Sakha Republic (Yakutia);

Members: Chukotka Autonomous Okrug, Krasnoyarsk krai

Contact person: Sargylana Ignatieva, Rector, Arctic State Institute of
Culture and Arts

The active position of the Sakha Republic (Yakutia) in promoting projects and programs of inter-arctic cooperation, membership and leadership in international organizations (Northern Forum, UArctic, etc.) rightfully put Yakutia among the world's leading regional Arctic centers. The Sakha Republic (Yakutia) is the largest Arctic region of the planet, preserving the unique ecosystem of the North and the living traditions of indigenous peoples. This fact determines the special role and responsibility of Yakutia to solve the accumulated problems of the Arctic region, one of the most acute of which is the preservation and development of unique original culture, languages and the traditional way of life of Northerners.

On the initiative of Egor Borisov, the Head of the Sakha Republic (Yakutia), an autonomous non-profit organization – International Arctic Centre of Culture and Arts was established on August 29, 2014. The activity of the organization is aimed at maintaining systematic development, promoting the culture of the Arctic peoples, producing creative ideas and socio-cultural innovations, humanitarian programs designed to provide a new strategy for geocultural development in the Arctic region, as well as to unite scientists, arctic experts, artists and cultural leaders.

One of the main activities is the publication of the popular science magazine "Culture and Art of the Arctic".

The magazine is based on the study of the culture and art of the Arctic, the use of opportunities for intensive development of culture, culturology and is aimed at enhancing the development of the fundamental foundations of the modern science on Arctic culture, strengthening transdisciplinary contacts and analyzing the innovative mechanisms for its internal renewal. The publication of the international magazine on the culture and art of the Arctic is realized in the form of two interconnected blocks - the traditional scientific magazine (academic core), which publishes scientific and critical articles, reviews and translations; and a scientific and journalistic section containing topical analytical materials of a broad, popular journalistic

orientation. An important part of the project is the establishment and maintenance of a permanent dialogue, discussion and exchange of information throughout the Arctic region.

Topics: Culture and Civilization, Architecture, Applied Fine Arts, Musical Folklore, Museum, Library, Heritage of the Arctic, Names and Portraits, Ideas and Projects of the Arctic.

To date, 2 issues have been published in paper format in two languages (Russian and English), as well as electronic versions have been published on the Internet.

Mission, goal and objectives

The mission of the International Arctic Center of Culture and Arts (IACCA) is the preservation and enhancement of the cultural heritage of the Arctic. The purpose of IACCA is to create a space bringing together communities, businesses and government to preserve the culture and traditions of the peoples of the Arctic by forming teams of scientists, artists and education, art groups, publishers and readers, politicians, teachers, related to the Arctic and promoting Arctic life values.

The objectives of the Center includes:

1. Formation of a specialized electronic resource center on culture and art of the peoples of the Arctic, including the Arctic Audiovisual Observatory (media library, music library), an electronic library and a virtual museum.
2. Conducting research in the field of culture and art of the peoples of the Arctic by international teams of scientists with the joint organization of expeditionary search work, seminars (conferences) and the publication of research results in ranking journals included in Web of Sciences, Scopus.
3. Formation of the Center as a kind of "entry point" into the world of the Arctic cultures through mobile educational projects - open public lectures, discussions, workshops, available for all ages, social and professional groups.
4. Support and development of innovative forms of art and culture, created on the basis of the traditional culture of the peoples of the Arctic (performances, films, exhibitions, installations, concerts, etc.) and their testing and wide-ranging discussion at the international cultural-anthropological festival "Etti" ("Hello") in order to promote the image of the Arctic and the cultural representation of indigenous peoples in the Arctic zone.
5. Production and release of scientific and educational multimedia and audiovisual projects on Arctic culture and their promotion in television and cinema of Russia and the world.
6. Interaction and cooperation of the Centre in the field of science, culture and education with all intergovernmental and non-governmental organizations, the mission of which is connected with the solution of problems of the Arctic, including Arctic Council and International Arctic Science Committee, International Arctic Social Sciences Association, International Work Group on Indigenous Affairs, Northern forum, University of the Arctic, World Wildlife Fund, and others.
7. Supporting cultural initiatives in business-related projects with the presentation of cultural heritage. Only active and creative and scientific environment created by IACCA can actualize the importance of traditional culture and thus "breathe" new life into it.

Development prospects

The "Culture and Art of the Arctic" magazine should become a modern, mobile, open scientific, cultural and educational platform that unites the efforts of society, business and the state and will contribute to the preservation and development of the cultural heritage of the Arctic region, to the further socio-economic development of the Arctic territories. Further development of the publication implies an increase in circulation for a more extensive distribution (currently published in 200 copies), periodicity (currently published once a year), attraction of new authors, implementation of special projects within publication.

Also, a perspective development is seen in the parallel work of the "Culture and Art of the Arctic" portal. The electronic format is more mobile, flexible. Therefore, along with a display of the magazine's materials, which have a digest of academic and popular scientific articles, the portal will also contain information materials - news, reports, announcements, interactive projects. Also, the electronic format provides an opportunity to publish not only traditional static material - texts and images, but also multimedia content - video, audio, animation, etc., which, of course, is a necessary for the appropriate representation of culture and art.

Conditions necessary for the development

A further prospective development of the project assumes, first of all, the expansion of the staff of permanent employees or part-time employees on a permanent basis. In addition to the content work, a lot of technical work is required. The implementation of the magazine project, and further of the portal, requires financial injections. Grant support from the Northern Forum, inclusion of the Arctic Council in the co-sponsorship is seen as a real and necessary condition for the further development of the publication.



“BEARS IN THE RITES AND TRADITIONS OF THE INDIGENOUS PEOPLES OF THE NORTH” FESTIVAL

Leading region: Khanty-Mansiysk Autonomous Okrug, Dalarna (Sweden);

Members: currently being invited

Anders Bjorklund and Ingvor Ljung

Khanty-Mansiysk Autonomous Okrug - Ugra is located in Northern Taiga Region of West Siberia, in the basins of two major rivers: Ob and Irtysh. Region's name arose from ethnonyms of two kindred peoples, cultures that have formed in the area - the Khanty and Mansi. They are fishermen, taiga hunters, herders, gatherers. On the basis of these economic activities emerged their spiritual culture, which is the core of tradesmanship cults. It is no exaggeration to say that the most semantically rich among them is the cult of the bear, and the most emotional, spectacular, popular and overall favorite form of expression of this cult are the Bear Games.

Rite has artistic, historical and anthropological value and is important for the preservation of the cultural diversity of humanity.

From February 2014, Khanty-Mansiysk Autonomous Okrug has joined the work on the Northern Forum project – “Bears in the rites and traditions of the indigenous peoples of the North” Festival. Festival program was formed, which included:

- Scientific-practical seminar on the production of ritual objects for Bear Games;
- Exhibition project "Bears in the rites and traditions of the Ob-Ugric people";
- Traditional ceremonial feast of Ob-Ugric people "Bear Games."

In November 2014 in Akureyri (Iceland) at the Regional Coordinators Committee meeting, members of the Northern Forum were invited to take part in the traditional bear festival of Ob-Ugric people, which was planned to take place in Kazim of Beloyarsky District, Khanty-Mansiysk Autonomous Okrug - Ugra from 28 February to 5 March 2015.

The initiators of the project responded to the invitation – Orsa Gronklitt CEO, Sweden, Anders Bjorklund and designer Ingvor Ljung. The first issue of Arctic Herald featured article of Anders Bjorklund entitled "Bear Festival in Kazim", which states: "At the bear festival, which lasted three days, we had a wonderful opportunity to get acquainted with the rituals, watch dancing, listen to songs and various legends ... In total, we have heard more than 360 stories about the traditional life of the Khanty. This nation seems unique in the world, the bear takes center stage in their lives, and it clearly showed at the Festival."

As a result of the bear festival, it turned out that the circle of the ritual performers who know the sacred texts of ritual songs, is very limited, a lot of knowledge, norms of behavior are lost. The need for training and education of young people to the traditional rite was crystal clear.

On February 7, 2015, in Kazim, Beloyarsky District, Khanty-Mansiysk Autonomous Okrug "Bears in the traditions and rites of the Ob-Ugric peoples" project exhibition was opened in Kazim Ethnographic Exhibition Hall.



RED BOOK THROUGH THE EYES OF CHILDREN

Leading region: Khanty-Mansiysk Autonomous Okrug;

Members: Sakha Republic (Yakutia)

Contact person: Deputy Head, Agency for External Affairs – Head,
Division of International Cooperation, Department of Public and External
Relations of Khanty-Mansiysk Autonomous Okrug – Ugra

Elena Berendeeva,

Phone: 357-497, E-mail: BerendeevaEA@admhmao.ru.

This project is implemented within the framework of the International Ecological Action "To Save and Preserve" since 2011 under the auspices of the Northern Forum and the Russian Federation Commission for UNESCO.

Goal of the project: promoting the conservation of natural and historical and cultural heritage, formation of ecological culture and active life position of the young generation in relation to the problem of reducing species diversity of flora and fauna of individual regions and the planet as a whole.

The geography of participants includes 8 countries (Kazakhstan, Belarus, Ukraine, Uzbekistan, Estonia, Hungary, and Sweden) and 66 Russian regions.

Objectives of the project:

- Attracting the world's attention to the existing problems of environmental protection;
- Development of international child cooperation in the field of ecology based on the exchange of experiences on the implementation of a variety of artistic and environmental activities;
- Promotion of respect for the natural resources of the planet, Russia and their smaller homeland by means of fine art;
- Education of children from different countries and regions, respect for the common human values in accordance with the principle of the conservation of cultural and natural diversity;
- Promotion and development of creative potential of students through the study of the natural, historical and cultural heritage;
- Intensification of promotion of saving individual species of flora and fauna as integral parts of sustainable development of the whole natural complexes.

The project has involved more than 29,000 people from 72 regions of Russia, and countries of the CIS: Republic of Kazakhstan, Belarus, Ukraine, Uzbekistan, the Republic of Kyrgyzstan, as well as neighboring

countries and beyond: Estonia, Hungary, Finland, Sweden, USA (Alaska), Turkey, and we are hoping for a joint collaboration with Akureyri, Iceland.

Eligible participants: students of educational institutions, primary and secondary vocational educational institutions, and further education institutions (art schools, studios, clubs) aged 6 to 17.



Olga Stytsyuk – author of the project, and Governor of Alaska Bill Walker

The priority categories, for which the project has a philosophical significance, - children who through environmental education, eco-art, and eco-creative activity have been involved in specific practical work for the preservation of the unique lifeforms of endangered species. This enhances the overall environmental aspect and environmental education in the formation of a humane attitude of the younger generation to the environment, in the organization of their active participation in practical environmental activities – the ecological imperative.

Project implementation is conducted in three stages:

Stage I – competition of creative works in absentia (2016-2017); the following creative works are accepted:

– Created by the personal impressions from reading the Red Book of regions, countries, and also from meeting with endangered species in protected areas (during expeditions), in zoos, after watching movies, reading literary works;

– Address ecology and morality;

The contest consists of two areas: artistic and literary – total of seven nominations:

- graphic arts;
- arts and crafts;
- painting;
- sculpture;
- photography;
- poetry;
- essays.

Stage II includes traveling exhibitions in the cities of the Khanty-Mansiysk Autonomous Okrug - Ugra, Russian Federation, as well as foreign countries (by agreement) (2016-2017):

Travelling exhibitions have worked and continue to work in the settlements of Khanty-Mansiysk Autonomous Okrug - Ugra, St. Petersburg, Moscow (State Darwin Museum), in Yamalo-Nenets Autonomous Okrug (Noyabrsk), Karelia Republic, Sakha Republic (Yakutia) within the XII General Assembly of the Northern Forum. Traveling exhibitions have been to Gainesville, Florida (USA), and in 2014 - in Iceland in the framework of the Akureyri Regional Coordinators Committee meeting and during the Arctic Circle in Reykjavik, in 2016 in schools of Finland (Turku) in the framework of the international program "Children of Russia to children of Europe", in the state of Alaska, United States (Anchorage).

Stage III – the final result of the project - publishing a collection of the best creative works (2017). All participants of the contest are provided an electronic version of the book online: www.prirodnadzor.adhmao.ru

The collection is not only a catalog, but also a kind of teaching aid with aphorisms about nature and ecology, with environmental dates and indications of names of endangered species of the Russian Federation.

Published books are distributed through libraries, schools, museums, children's homes, and the electronic version of the book is given to every participant.

Creative works are available to interested organizations for placement in the form of outdoor social advertising on banners. Initially the project was carried out on the basis of historical museum "Otrazhenie ("Reflection")" of the Talinka Village, Oktyabrsky District of the Khanty-Mansi Autonomous Okrug – Ugra.

Several educational projects have been successfully implemented on the basis of the museum: "Children to the oil industry", "Tales of Grandmother Anne", "Sacred Image of the Bear in Ob-Ugric Peoples' Culture", the starting point of the district of the "Red Book of Ugra through the Eyes of Children" project was the "Ancient Emdr. Tales of the Heroes of Emdr City" project.

On the basis of the museum we started studies of literary versions of the epics (19th century) of the heroes of Ancient Emdr and further details of medieval bone remains of fauna from archaeological excavations in Emdr on Endyr River. We identified species listed in the Red Book of the District: beaver, white-tailed eagle, whooper swan, sturgeon and owl. Skeletal remains of owl were not found, but it is one of the protagonists of the epic.

Monitoring of children's participation in artistic projects (2008 - 2014)

2008-2009: the district environmental project "The Red Book of Ugra through the eyes of children", total of 2537 participants;

2010-2011: an international environmental project "The Red Book through the eyes of children", total of 3886 participants:

- *Russian Federation - 54 regions;*
- Neighboring countries and beyond: Belarus, Kazakhstan, Ukraine, Estonia;

2011-2012: an international environmental project "The Red Book through the eyes of children", total of 3882:

- *Russian Federation - 63 regions;*
- Neighboring countries and beyond: Belarus, Kazakhstan, Ukraine, Estonia, Hungary;

2012-2013: an interregional project "We are responsible for those whom we tamed", total of 4358 participants:

- *Russian Federation - 63 regions;*
- Neighboring countries and beyond: Belarus, Kazakhstan, Ukraine, Estonia.

Projects: International project "The Red Book through the eyes of children" and interregional project "We are responsible for those whom we tamed" 2012 - 2013, total of 8240 participants.

2014-2015: an international project "The Red Book through the eyes of children", total of 4534 participants;

- *Russian Federation - 66 regions;*
- Neighboring countries and beyond: Belarus, Kazakhstan, Uzbekistan, Estonia, Sweden.

2015-2016: an interregional project "We are responsible for those whom we tamed" - in process of implementing.

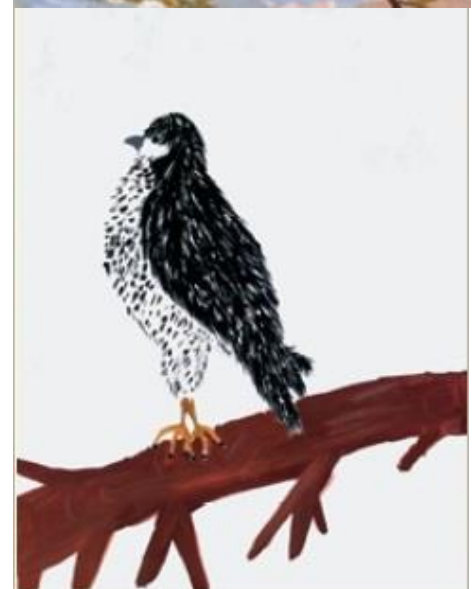
2016 - 2017: an interregional project "We are responsible for those whom we tamed" in process of implementing, on March 1, 2017 reporting 1429 collected works; the number of submitted works - 1429;

International project "The Red Book through the eyes of children" in process of implementing, as of March 1, 2017 - 4138 collected works:

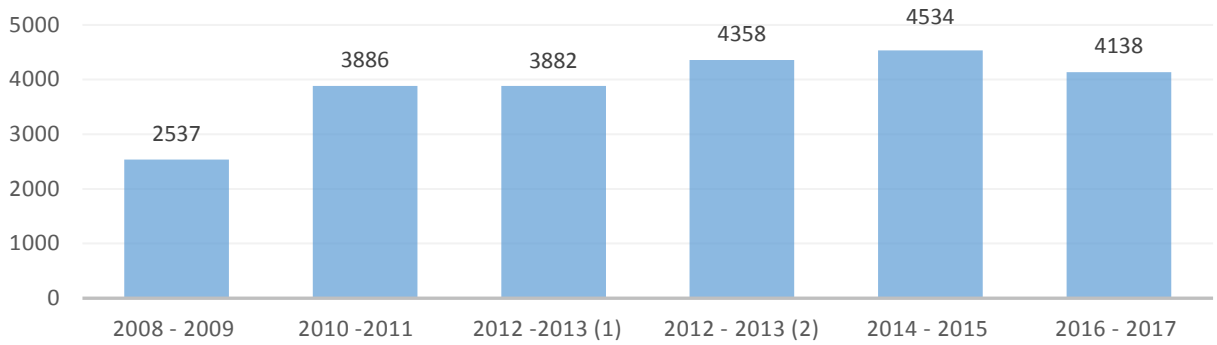
- Russian Federation - 72 regions
- Neighboring countries and beyond – 7:

Kazakhstan, Belarus, Ukraine, Uzbekistan, Turkey, Estonia, the United States (Alaska);

We continue to receive works from children.

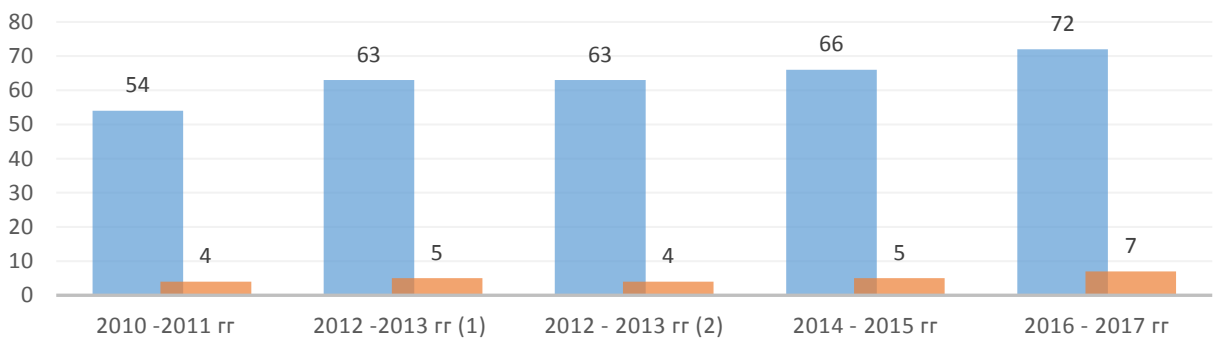


NUMBER OF PARTICIPANTS



Monitoring of children activity in environmental projects

NUMBER OF PARTICIPANTS



Monitoring the participation of countries and Russian regions in the implementation of projects



ЭКСТРЕМАЛЬНЫЙ ПЕРЕХОД ЧЕРЕЗ ВЕРХОЯНЬЕ

ПОДРОБНО



СЕВЕРНЫЙ ФОРУМ

УЧАСТНИКИ

РАБОЧИЕ ГРУППЫ

ПРОЕКТЫ

БИЗНЕС НА СЕВЕРЕ

МЕДИА

КОНТАКТЫ

Website model

WEBSITE MODERNIZATION

Leading regions: Akureyri, Sakha Republic (Yakutia),
Khanty-Mansiysk Autonomous Okrug

Participants: All Northern Forum member regions

Contact persons: Northern Forum Secretariat, Yakutsk,
Mikhail Pogodaev,
Vladislav Rishko, Khanty-Mansiysk Autonomous Okrug
Akureyri, Arctic Portal, halldor@arcticportal.org

In 2014, together with the Arctic Portal (Iceland) we launched a new portal of the Northern Forum: northernforum.org. The new site is of higher quality - new user-friendly design, easy-to-access content, a wider range of information available, and it is updated regularly. The website is coordinated and modernized jointly by the Secretariat and the Arctic Portal. Officially, the site was presented at the Northern Forum Regional Coordinators Committee meeting in Iceland, Akureyri, where Executive Director of the Arctic portal introduced to the participants the appearance and basic functions of the site. The participants made suggestions - in particular the inclusion of features such as RSS-subscription to our news feed - this feature is currently being implemented by the Arctic Portal IT specialists. Since before the presentation, and after, there has been an increased interest in the new page. There are regular readers. Their number will increase even more as the quality and diversity of content continue to grow, as well as with the ongoing activities of the Northern Forum.

In 2016-2017 we are carrying out the modernization of the website.