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CONVENTION ON THE CONSERVATION OF EUROPEAN WILDLIFE  
AND NATURAL HABITATS

**Group of Specialists  
on the European Diploma of Protected Areas  
24 March 2014, Strasbourg**

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**Extract from the management plan of the reserve in the  
whole as the Project of Spatial Planning and Protection of  
Natural Complexes and Objects of the Karadag Nature  
Reserve**

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## D 2. 6-Years Action plan of the Karadag Nature Reserve

Programs, activities		Indicator of achievement	Prior-ity	Years						Implementation Body
				2014	2015	2016	2017	2018	2019	
	<b>PROGRAM 1: CONSERVATION OF PLANT AND ANIMAL SPECIES, THEIR HABITATS, ECOSYSTEMS, AS WELL AS GEOLOGICAL, HISTORICAL AND CULTURAL HERITAGE</b>									
	<b>OBJECTIVE: TO SAVE ENDANGERED SPECIES AND ECOSYSTEM DIVERSITY, GEOLOGICAL, HISTORICAL AND CULTURAL COMPLEXES AND SITES AT THE TERRITORY OF RESERVE AND ITS PROTECTIVE ZONE</b>									
	<b>1.1. REGULATION AND PROTECTION OF PLANT AND ANIMAL SPECIES, HABITATS, ECOSYSTEMS</b>									
	<b>GOAL: TO ENSURE CONSERVATION OF POPULATIONS OF ENDANGERED SPECIES, ECOSYSTEMS, AND HABITATS</b>									
1.1.1 . Development and implementation of action plans (management plans) for: • - conservation of habitats listed in the Resolution number 4 (1996), the Berne Convention ; • - conservation of plant and animal species which are under protection of Resolution number 4 (1996) of the Berne Convention, and the Red Data Book of Ukraine: <i>Phalacrocorax aristotelis, Gyps fulvus, Falco cherrug, F. peregrinus, Gymnodactylus kotschyi, Pseudopus apodus, Zamenis situla, Pelobates vespertinus, Hyla orientalis, Crambe koktebelica, Himantoglossum caprinum, Óphrys oestrifera, Cyclamen kuznetzovii, Orchis punctulata, Tulipa schrenkii</i> (action plans are attached)		Developed and implemented action plans for certain species / groups, habitats. Reports.	1							Karadag Nature Reserve of the National Academy of Sciences (KarNaR); Research Institutes of the NAS
1.1.2. Installation and maintenance at dominating heights and key areas of the reserve at least 4 webcams for permanent monitoring of mammal migrations and prevention of possible violations of nature protection regime		Webcams installed and used on a regular basis	2							KarNaR
1.1.3. Reconstruction and development of the former experimental mussel plantation		Developed and acting mussel	3							KarNaR

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		<b>1.2. BIODIVERSITY CONSERVATION AT THE RESERVE RESIDENTIAL AREA (BIOLOGICAL STATION) AND ITS BUFFER ZONE</b> <b>OBJECTIVE: TO PROVIDE MINIMIZATION OF EFFECTS ON NATURAL COMPLEXES AND SITES OF THE ECONOMIC AREA OF THE RESERVE AND ITS BUFFER ZONE</b>							
1.2.1. Detailed assessment of natural values of the economic area	Evaluated, defined values	2							KarNaR; Research Institutes of the NAS
1.2.2. Develop and implement an action plan for the saving of the T.I Viazemsky park	Implemented plan (report)	2							KarNaR
1.2.3. Update Regulations on the buffer zone of the reserve	Updated Regulations								KarNaR; AR Crimea Republic Committee on Environmental Protection
1.2.4. Estimation of natural values and conducting monitoring of areas attached to the reserve. Assistance in research investigations at other protected areas in Crimea (contracts)	Estimated values, prepared proposals to expand the security zone and recommendations for landowners	2							KarNaR; Research Institutes of the NAS
		<b>1.3. RESEARCH, MONITORING AND GENERAL CONSERVATION ACTIVITIES CONCERNING BIO- AND LANDSCAPE DIVERSITY</b> <b>OBJECTIVE: TO CONSIDER IMPORTANT AND CHARACTERISTIC PLANT AND ANIMAL SPECIES, PLANT COMMUNITIES AND HABITATS OF THE RESERVE, MONITOR AND ELIMINATION OF THREATS</b>							
Conduction complex sea expeditions (hydrobiological, ornithological, hydrochemical) quarterly.	Rapid assessment of the environmental status of the marine ecosystem								KarNaR
1.3.1. Layout of nine permanent plots for monitoring of rare and endangered plant species	Permanent plots laid down	2							KarNaR
1.3.2. Layout of 5 transects for monitoring of rare and endangered animal species	transects laid down	2							KarNaR
1.3.3a. Layout of 4 transects for monitoring the state of the coastal waters ichthyo-complex of Karadag reserve.	Laid down transects and monitoring	2							KarNaR
Layout of monitoring hydrobiological sections for the study of benthic communities	Laid sections and monitoring conducted.	2							KarNaR

	Publications in scientific journals								
1.3.3b. Develop principles and methods of use of underwater webcams for monitoring of fish migration in the coastal waters of the Reserve.	Developed principles and methods of underwater webcam usage, the results of preliminary observations of coastal fish migrations	1							KarNaR
1.3.4. Inventory of flora and plant communities. Re-inventory (every 10 years) of lower flora and vascular plants	Inventory fulfilled, report	2							KarNaR
1.3.5. Inventory of fungi, including macromycetes	Inventory fulfilled, report	1							KarNaR
1.3.6. Inventory of Pistachio and Juniper trees at the age of 100 years and monitoring of their condition	Inventory fulfilled, report	1							KarNaR
1.3.7. Inventory of fauna (insects, arachnids, lepidoptera, birds, mammals)	Chapter in the Nature Records of the Reserve	2							KarNaR
1.3.8. Monitoring of climate change – providing of meteorological observation at the Environmental Background Monitoring Station	Chapter in the Nature Records of the Reserve	1							KarNaR
1.3.9. Providing of phyto-sociological mapping in GIS format – every 10 years	Mapping fulfilled, report	1							KarNaR
1.3.10. Development and implementation of programs on control on invasive alien species of flora and fauna, especially the Ailanthus and Rapana. Inventory of invasive species, the identification of the most dangerous, development of action plans for their elimination / management	Program implemented	1							KarNaR; Research Institutes of the NAS
1.3.11. Replenishment of scientific collections: herbarium, phonological, phytocoenological collections, photo-video library, museum exhibits, collections of minerals	Replenished collections, report	2							KarNaR; Research Institutes of the NAS
1.3.12. Update information on natural sources of fresh water on the reserve	Updated data report	2							KarNaR

1.3.13. Research and inventory of caves and grottoes at the reserve	Inventoried report	3						KarNaR
1.3.14. Development of scientific background for extension of the buffer zone of the reserve; creation of new protected areas out of the KarNaR territory (Near Besh-Tash valley and mountains Tatar-Haburga)	Scientific justification report	3						KarNaR
1.3.15. Creation of GIS database of rare and endangered plant and animal species, plant communities (formations, groups) listed in the Green Data Book of Ukraine, habitats listed in the Resolution number 4 (1996), Berne Convention (see paragraph 1.3.8.)	Created GIS database, report	1						KarNaR
1.3.16. Jubilee celebrations (100 years of the Karadag Bio-station and 35 years of the KarNaR) including scientific conferences	Events and conference report	3						KarNaR
1.3.17. Layout of 3-4 plots (1 ha) for bird counting at different types of birds in forest plantations	Plots, results of counting	3						KarNaR
<b>1.4. SAVING OF GEOLOGICAL HERITAGE</b> <b>OBJECTIVE: TO ENSURE SAVING OF GEOLOGICAL OBJECTS AND COMPLEXES AND USING THEM FOR SCIENTIFIC AND ENVIRONMENTAL EDUCATION PURPOSES</b>								
1.4.1. Geological zoning of the reserve and its buffer zone	Geological zoning map	2						KarNaR; Research Institutes of the NAS; V.Vernadsky Taurida National University
1.4.2. Development of geo-site passports and inventories	Passports descriptions	3						KarNaR
Compile list of demonstration of the main rocks and minerals, findings and possible points of view (in nature or collections)								KarNaR
Carry out (generalize) the geomorphological and landscape zoning of the reserve in a certain scale		2						KarNaR; V.Vernadsky Taurida National University
1.4.3. Cooperation with European and World Network of Geoparks	Report	3						KarNaR; V.Vernadsky Taurida National University

<b>1.5. SECURITY AND COMPLIANCE REGIME OF THE RESERVE TERRITORY AND ITS BUFFER ZONE</b> <b>OBJECTIVE: TO ENSURE THE REGIME COMPLIANCE OF THE RESERVE AND ITS BUFFER ZONE</b>									
1.5.1. Installation and update notices, information boards and signs aimed at the reserve and its buffer zone regime compliance and fire safety	Installed notices, signs, billboards	1							KarNaR
1.5.2. Planning and carrying out with local environmental and law enforcement agencies of joint activities to comply with environmental legislation at the Reserve and its buffer zone	Security Service Report	1							KarNaR, State Environmental Inspection, Feodosia Police Department, Azov and Black sea Inspevtion
1.5.3. Carrying out of the reserve patrolling and raids by security guards	Security Service Report	1							KarNaR
1.5.4. Development and approval limits for ecological trails	Approved limits of nature management	1							KarNaR, Republic Committee of the Autonomous Republic Crimea on the Environmental Protection, Ministry of Ecology and Natural Resources of Ukraine
1.5.5. Patrol boat purchase	Patrol boat purchased	1							KarNaR, Supply Service of the NAS
<b>1.6. CONSERVATION OF HISTORICAL AND CULTURAL HERITAGE</b> <b>OBJECTIVE: TO CONSERVE AND PRESENT TO PUBLIC OBJECTS OF HISTORICAL AND CULTURAL (ARCHAEOLOGICAL) HERITAGE</b>									
1.6.1. Development of the inventory and action plan for the conservation of historical and cultural (archaeological) objects of high value	Inventory, action plan, report	1							KarNaR, Republic Committee of the Autonomous Republic Crimea on the Protection of Cultural Heritage, Department of Culture and Tourism of the Feodosia Town State Administration

1.6.2. Creation of a new museum exhibitions	Created a new museum exhibitions	3							KarNaR, local activists
	<b>PROGRAM 2: ENVIRONMENTAL EDUCATION AND ENHANCEMENT OF AWARENESS OF LOCAL PEOPLE AND VISITORS (TOURISTS)</b> <b>OBJECTIVE: TO CREATE A SYSTEM OF ENVIRONMENTAL EDUCATION FOR FAMILIARIZATION WITH THE NATURAL AND OTHER VALUES OF THE KARADAG NATURE RESERVE AND CRIMEA; ENVIRONMENTAL EDUCATION FOR ENHANCEMENT OF LOVE FOR NATURE</b>								
	<b>2.1. EDUCATION OF LOCAL RESIDENTS AND VISITORS (TOURISTS)</b> <b>OBJECTIVE: TO CREATE SYSTEM OF ENVIRONMENTAL EDUCATION AIMED TO ENHANCE ENVIRONMENTAL AWARENESS AND UNDERSTANDING OF LOCAL RESIDENTS AND VISITORS, ESPECIALLY CHILDREN AND YOUNG PEOPLE, IN NEED TO SAVE NATURAL AND OTHER VALUES OF KARADAG AND CRIMEA</b>								
2.1.1. Development and implementation of information and educational program of the Karadag Reserve (main themes, methods, standardization of billboards, posters)	Program executed	3							KarNaR
2.1.2. Collaboration with environmental groups at schools.	Carried out classes on environmental issues Report	2							KarNaR
2.1.3. Organization and development of cooperation with the Crimean and regional departments of culture and education, ecological and naturalist educational centers, and public organizations	Agreements on cooperation, joint activities report	2							KarNaR
2.1.4. Participation in environmental education events, festivals, and competitions	Report	2							KarNaR
2.1.5. Establishment of new exhibitions at the Museum of Nature of Karadag	new exhibitions	2							KarNaR
	<b>2.2. STRENGTHENING OF INFORMING OF POPULATION CONCERNING VALUES OF THE RESERVE</b> <b>OBJECTIVE: TO DEVELOP AN INFORMATION FIELD, AIMED ON CREATION OF POSITIVE IMAGE OF THE RESERVE, INCREASED COMMITMENT AND LOYALTY OF LOCAL RESIDENTS AND VISITORS TO ITS VALUES</b>								
2.2.1. Improvement and regular updating of the Karadag Reserve website in English, Russian, Ukrainian languages	Active web page in 3 languages	2							KarNaR
2.2.2. Further training of guides working at the routes of ecological trails	Trained guides Carried out hiking on	1							KarNaR

	environmental routes								
	<b>PROGRAM 3: COOPERATION WITH LOCAL AUTHORITIES AND PARTICIPATION IN GOVERNANCE AND SOCIAL INFRASTRUCTURE</b> <b>OBJECTIVE: TO SUPPORT LOCAL COMMUNITIES, SELF-GOVERNMENTS AND EXECUTIVE BODIES CONCERNING DEVELOPMENT AND EXECUTION OF PROGRAMS AND PLANS OF SOCIAL AND ECONOMIC DEVELOPMENT</b>								
	<b>3.1. PARTICIPATION IN PLANNING OF THE SOCIO-ECONOMIC DEVELOPMENT OF THE REGION.</b> <b>OBJECTIVE: TO PARTICIPATE IN PARTNERSHIP WITH SELF-GOVERNMENTS AND EXECUTIVE BODIES CONCERNING DEVELOPMENT OF LOCAL PROGRAMS AND PLANS FOR SOCIO-ECONOMIC DEVELOPMENT TAKING INTO ACCOUNT ISSUES OF CONSERVATION OF NATURAL COMPLEXES AND SITES OF THE RESERVE AND IT'S NEIGHBORHOODS</b>								
3.1.1. Participation in activities of local councils bringing proposals on conservation of unique natural complexes of the region with rare and valuable natural elements and cultural-historical objects	Regulative acts of local councils that take into account the environmental issues	1							Local authorities, KarNaR, Republic Committee of the Autonomous Republic of Crimea on the Environmental Protection
3.1.2. Participation in the development and approval of master plans for settlements Kurortnoe, Shebetovka and Koktebel with respect to preventing the destruction of natural and cultural-historical values in the region and the conservation of biodiversity	Approved master plans	1							Local authorities, KarNaR
3.1.3. Creation of monitoring system of flora and fauna along the environmental education trails and subsequent evaluation of anthropogenic impact.	Current monitoring system	1							KarNaR
	<b>3.2. PARTICIPATION IN SOCIAL AND ECONOMIC DEVELOPMENT OF THE REGION</b> <b>OBJECTIVE: TO ATTRACT FUNDING FROM GOVERNMENTAL INSTITUTIONS AND OTHER SOURCES TO SUPPORT THE AGREED ACTIVITIES FOR SUSTAINABLE DEVELOPMENT AND INFRASTRUCTURE DEVELOPMENT AROUND KARADAG</b>								
3.2.1. Apply to the Cabinet of Ministers of Ukraine to initiate a procedure of settlements development and social infrastructure financing programs	Application done	1							Local authorities Feodosia Town State Administration, KarNaR, Republic Committee of

										the Autonomous Republic Crimea on the Environmental Protection
<b>PROGRAM 4: DEVELOPMENT OF THE RESERVE MANAGEMENT SYSTEM</b> <b>OBJECTIVE: TO IMPROVE THE MANAGEMENT OF THE RESERVE AS ENVIRONMENTAL AND SCIENTIFIC INSTITUTION</b>										
<b>4.1. ORGANISATION AND PERSONNEL</b> <b>OBJECTIVE: TO CREATE MORE EFFECTIVE MANAGEMENT STRUCTURE OF THE RESERVE AND TO PROVIDE IT WITH HIGHLY QUALIFIED PERSONNEL</b>										
4.1.1. Improvement of the Reserve organizational structure to ensure implementation of the management plan			Improved and approved Reserve structure	1						NAS, KarNaR
4.1.2. Raising of professional skills of staff, providing trainings and experience exchange, specifically in cooperation with stakeholders			Number of staff who have raised their skills. Report	1						KarNaR, Research Institutes of the NAS, other stakeholders
4.1.3. Providing administration and special units with office and communication equipment (according to the table .....			Availability of the office and communication equipment, report	1						NAS, KarNaR
4.1.4. Provide the State Guard staff with uniforms			Availability of the uniform	1						NAS, KarNaR
<b>4.2. ARRANGEMENT OF THE RESERVE TERRITORY</b> <b>OBJECTIVE: TO DEVELOP AND IMPLEMENT MECHANISM FOR STABLE FUNDING AND OTHER SUPPORT FOR THE MANAGEMENT PLAN IMPLEMENTATION</b>										
4.2.1. Routine repairs of laboratory and technical facilities (according to Table .....			Renovated rooms, report	1						NAS, KarNaR
4.2.2. The maintenance of the ecological trail, 7 km			Maintained trail	1						KarNaR
4.2.3. Maintenance of existing terrain observation sites			Maintained observation sites	1						KarNaR
4.2.4. Repair of driveways and roads on economic territory of the reserve			Repair done	2						KarNaR, contractors
4.2.5. Repair and refurbishment of boiler station			Repair done	2						KarNaR, contractors

4.2.6. Overhaul of the building # 1 with pool and engineer communications	Repair done	1							KarNaR, contractors
4.2.7. Repair of seawater pumping station	Repair done	1							KarNaR, contractors
4.2.8. Repair of freshwater pumping station	Repair done	1							KarNaR, contractors
4.2.9. Overhaul of the building # 2 with pool and engineer communications	Repair done	1							KarNaR, contractors
4.2.10. Repair the dock of the Karadag Nature reserve	Repair done	2							KarNaR, contractors
4.2.11. Beautification of the Karadag Nature Reserve park and setting of small architectural constructions	Landscaped park and small architectural constructions installed	2							KarNaR, contractors
<b>4.3. FINANCING</b> <b>OBJECTIVE: TO DEVELOP AND IMPLEMENT A MECHANISM FOR STABLE FUNDING AND OTHER SUPPORT FOR THE IMPLEMENTATION OF THE MANAGEMENT PLAN</b>									
4.3.1. Timely preparation and submission of budget requests	Submitted applications, report	1							KarNaR,, NAS, other budget institutions
4.3.2. Timely preparation and submission of projects for funding of nature protection activities from State and local funds of Environmental Protection	Submitted applications, report	2							KarNaR, other stakeholders, Republic Committee of the Autonomous Republic Crimea on the Environmental Protection
4.3.3. Preparation and submission of applications for grants from international donor organizations	Submitted applications, report	2							KarNaR, other stakeholders
4.3.4. Use of money earned by KarNaR for financing activities of the Management Plan and Research activities	Report on the implementation of the Financial Plan	1							KarNaR
<b>4.4. MONITORING AND REPORTING</b> <b>OBJECTIVE: TO MONITOR AND REPORT ON IMPLEMENTATION OF THE MANAGEMENT PLAN AND ITS IMPROVEMENT, IF NECESSARY</b>									
4.4.1. Implementation of regular (quarterly) monitoring and reporting concerning the implementation of the management plan	Reports	1							NAS, KarNaR, co-implementers of Management Plan (MP)

4.4.2. Implementation of the annual monitoring and reporting on implementation of the management plan	Reports	1							NAS, KarNaR, co-implementers of MP
4.3.3. Adjusting management plan on the base of results of the annual monitoring of its execution (if necessary)	Advanced Management Plan, report	1							NAS, KarNaR, co-implementers of MP
4.3.4. Preparation of the six-year report on the implementation of the management plan	Report	1							NAS, KarNaR, co-implementers of MP
4.3.5. Preparation of the six-year management plan for 2020-2025 years	Approved Management Plan								NAS, KarNaR
<b>4.5. INTERNATIONAL COOPERATION</b> <b><u>OBJECTIVE:</u> TO ESTABLISH INTERNATIONAL COOPERATION ON NATURE PROTECTION, SCIENTIFIC AND ENVIRONMENTAL EDUCATION OBJECTIVES OF THE RESERVE</b>									
4.5.1. Preparation, translation into English and submission to the Secretariat of the Council of Europe of the management plan for a decision on awarding with the European Diploma for protected areas	Report	1							KarNaR, Ministry of Ecology and Natural Resources of Ukraine, Bern Convention Европы (Группа специалистов по Диплому Совета Европы для природоохранных территорий)
4.5.2. Update Information descriptions and passport of wetland of international importance "Aquatic-Rock complex of the Karadag"	Informative description, passport	1							KarNaR, Republic Committee of the Autonomous Republic Crimea on the Environmental Protection, Ministry of Ecology and Natural Resources of Ukraine, Secretariat of the Ramsar Convention
4.5.3. Updating the database of protected area – candidate for the Emerald Network of Europe (Bern Convention)	Updated database								KarNaR, Charitable Organization 'InterEcoCentre',

								<b>Ministry of Ecology and Natural Resources of Ukraine</b>
4.5.4. Study the activities and possibility to participate in the World and the European Geoparks networks	Report	<b>3</b>						<b>KarNaR, Feodosia Town State Administration, Republic Committee of the Autonomous Republic Crimea on the Environmental Protection</b>
4.5.5. Familiarization with the selection criteria and rules for preparation form for nomination to the UNESCO World Heritage Site	Report							<b>KarNaR; Research Institutes of the NAS, Ministry of Ecology and Natural Resources of Ukraine</b>
4.5.6. Preparation, translation into English and submission to the Secretariat of the Council of Europe nomination for awarding Karadag Nature Reserve with the European Diploma for protected areas for the next period	Report	<b>1</b>						<b>KarNaR, Ministry of Ecology and Natural Resources of Ukraine, Committee of Ministers Standing Committee of the Bern Convention.</b>