

**UNEP/ CBD Secretariat and Federal Academy
of Nature Conservation/ BFN Germany**

**Capacity-building workshop on Ecosystem Convention and restoration to
support Aichi Biodiversity Targets and SAP**

CONVENTION ON WILD LIFE AND NATURAL HABITATS

Aleksandar NASTOV, MSc.

**Head of Biodiversity Unit, Department of Nature, MEPP, MK
UNEP/CBD Workshop, Ilse of Vilm, Germany: 2-6 June 2014**

CONSERVATION OF NATURE HABITATS

Protected areas

Strict Natural Reserves (I Category acc. to IUCN)

- *SNR TIKVESH, on Crna Reka Gorge*
- *SNR PLOCE- Lithotelmi, Stracin*

National Parks (II Category acc. to IUCN)

- *National Park PELISTER*
- *National Park GALICHICA*
- *National Park MAVROVO*

Natural Monument (III Category acc. to IUCN)

- NM Kenyon Matka, NM Demir Kapija, NM Drenovska Klisura,
- NM Ohrid Lake, NM Prespa Lake, NM Dojran Lake, NM Katlanovsko Blato, NM Vevcanski Izvori, NM Belcisko Blato

Natural Parks (IV Category acc. to IUCN)

- NP Ezerani, on Prespa Lake, NP Lokvi, Golemo Konjari

MUA Jasen (VI Category acc. to IUCN)

Emerald Network in Republic of Macedonia (ASCI)

- *EZERANI, on Lake Prespa (2002)*
- *GALICHICA, near Lake Ohrid and Lake Prespa (2002)*
- *LAKE DOJRAN (2002)*
- *TIKVESH, on the Crna Reca Gorge (2004)*
- *PELISTER, on Baba mount. (2004)*
- *DEMIR KAPIJA, on Vardar river Gorge (2004)*

■ Mavrovo	Alshar
■ Shar Planina	Bansko-Monosпитovo
■ Matka	Belcisko Blato
■ Bogoslovec	Smolarski Vodopad
■ Orlovo Brdo	Markovi Kuli

■ (ASCI, RM: 2005-2006)



Classification of Flora species according to the Bern Convention

Group	Name of species	Status
Pteridophyta		
Salviniaceae	<i>Salvinia natans</i> (L.) All.	Strictly protected flora species (App. I) app. I
Marsileaceae	<i>Marsilea quadrifolia</i> L.	
Angiospermae		
Liliaceae	<i>Fritelaria gussichiae</i> Rix.	Strictly protected flora species (App. I) app. I
Orchidaceae	<i>Cipripedium calceolus</i> L.	
Droseraceae	<i>Aldrovanda vesiculosa</i> L.	app. I
Gesneriaceae	<i>Ramonda serbica</i> Pancic	app. I
Trapaceae	<i>Trapa natans</i> L.	app. I



Fungi- state of study, abundance, endangerment

The state of study of Macedonian fungi, lichenes, algae and bryopsida

Group	Number of known species in the world	Subgroup	Number of known species in Macedonia	Institutions which have been studying or are studying corresponding group currently
Fungi	100000	Basidiomycetes Ascomycetes	1150 100	Faculty of Sc. Inst. of Biology, Skopje Maced. Micology Soc.-MAKOMO Sk. Faculty of Forestry - Skopje
Lichenes			340	Faculty of Sc. Inst. of Biology, Skopje Macedonian Museum of Natural History
Algae			1580	Faculty of Sc. Inst. of Biology, Skopje
Bryopsida			349	Faculty of Sc. Inst. Of Biology - Skopje Faculty of Pedagogy- Skopje

Clasification of Fungia according to the Bern Convention

Group Fungi	Number of species	Status
Especially rare or endangered species	43	rare or endangered
Species on endangered areas (habitat)	13	endangered
Endangered species with exploitation	10	endangered
Summary:	66	-



Clasiffication of Invertebrates according to the Bern Convention for Macedonia

The state of study of Macedonian animals - Invertebrates

Group	Number of species	Bern Convention	
		Appendix II	Appendix III
Insecta			
Odonata	1	1	
Lepidoptera	7	7	
Coleptera	1	1	
Crustacea			
Decapoda	1		1
Gastropoda			
Stylomatophora	1		1
Hirudinea	1		1
Summary:	12	9	3



The state of study of Macedonian Vertebrata animals

Group	No of known spices in the world	Subgroup	No of known spices in the world	No of known taxones in Macedonia	Institutions which have been studying or are studying corresponding group currently
Vertebrata	45 000	Pisces	34 600	58	Fac. of Sc. Inst. of Biology-Skopje Agricultural Faculty - Skopje Hydro-biological Institute - Ohrid Institute for Fishery - Skopje
		Amphibia	1900	17	Fac. of Sc. Ins. of Biology-Skopje Maced.Museum of Nat.History-Sk.
		Reptilia	5500	40	Fac. of Sc. Ins. of Biology-Skopje Mac. Museum of Nat. History, Sk.
		Aves	9708	338	Fac. of Sc. Ins. of Biology-Skopje Faculty of Forestry – Skopje Bird Study& Protect.Society-BSPSM Mac.Museum of Natural History-Sk.
		Mammalia	4170	83	Fac. of Sc. Ins. of Biology-Skopje Faculty of Forestry – Skopje Bird Study&Prot. Society-BSPSM Mac.Museum of Natur.History-Sk.
Summary:			55.880	536	-



Clasification of Vertebrates according to the Bern Convention

Group	Number of taxons		Bern Convention	
	species	sub-species	Appendix II	Appendix III
Pisces				
Petromyzoniformes	2	-		2
Cypriniformes	11	18		29
Siluriformes	1	-		1
Perciformes	2	1		3
Amphibia				
Caudata	2		2	
Anura	5		5	
Other	9			9
Reptilia				
Testudines	4		4	
Sauria	10		10	
Ophidia	10		10	
Aves				
Falconiformes	oll sp.(35)		oll species (35)	oll spec. incl. in app.II
Migratory water birds	61		61	35
Other birds	204			204
Mammalia				
Microchiroptera	24		23	1
Rodentia	6		1	5
Carnivora	11		4	7
Insectivora	7			7
Duplicidentata	1			1
Artiodactyla	4			4
<i>Summary</i>	<i>407</i>	<i>19</i>	<i>155</i>	<i>343</i>



Monitoring of the condition of the wild life and natural habitats protection

Factual situation

Negative impacts on the wild world and the habitats

By some anthropogenic activities diss-balance of the ecological and the biological balance was caused in wider frames, in the areas where they take place, but they also have negative impact on the protected parts and objects. Mainly, these activities in the Republic of Macedonia could be as follows:

- *Ore and minerals exploitation.*
- *Forest vegetation exploitation.*
- *Endangerment from the traffic.*
- *Endangerment from tourist encumbrance.*
- *Make over of the space by artificial forestation and land devastation*
- *Extraction of water in artificial accumulations.*
- *Extraction of water from natural lakes and waterways.*
- *Installing television transmitters.*
- *Uncontrolled collection of rare medicinal plants*
- *Draining of the marshes for obtaining agricultural land.*
- *Influence of the transfer of water from one to another basin.*
- *Influence from building local roads.*
- *Influence from unplanned development of industry.*
- *Influence from unplanned development of country houses and recreation complexes.*
- *Influence from uncontrolled hunting of game.*



Measures of ecosystem conservation and natural habitats

- Enforcement of applicable Law on environment and Law on nature protection (sustainable development, communal waste treatment, protection of coastal areas, controlled exploitation of natural resources);
- Implementation of obligations undertaken with the nomination of Ohrid Lake on the World List of UNESCO and the other natural heritage of the Macedonia (obligation under UNESCO Convention);
- Execution of obligations arising from the membership of Ramsar Convention regarding Lake Prespa and Lake Doiran Protection, nominated on the World Ramsar List, SPR “Ezerani” and other wetlands in Macedonia;
- Establishment of special organs (Councils of tree natural lakes, Councils of tree national parks, Councils of management of four river basins) for execution of obligations arising from national legislation and membership in international organizations;
- Completion of the construction of collector systems and their maintenance;
- Realization of the part of the feasibility study on the protection of natural migratory bio-corridors;
- Prohibition for collecting medicinal plants, mushrooms and exploitation of wooden species having the status of endangered species, i.e. protected species of wild flora and mushrooms.





Measures of ecosystem conservation and natural habitats

- Prohibition for using forbidden devices and munition for hunting species having the status of endangered species, i.e. protected species of wild fauna in Macedonia.
- Adopting programmes and projects for restoration and revitalization of degraded habitats.
- Realization of projects for reintroduction of endangered and extinct species in habitats.
- Stimulating scientific research in natural habitats in order to provide information and data for establishing National Data-base of state of natural habitats and status of wild world.
- Organizing workshops for implementation of management plans in protected areas.
- Organizing campaigns and other eco-manifestations for raising public awareness, particularly the importance of wild world and natural habitats for maintaining environmental and biological balance.
- Capacity-building, education and integration of state agencies, scientific institutions, educational institutions and MA in National Biodiversity Monitoring System (MBDMS)



Future activities for Ecosystem Conservation in Macedonia

Priority activities contained in the extended list of future activities are:

1. Update of NBDSAP and implementation of SAP3 (20015-2020)
2. Integrate important ecosystems of natural value under protection (in-situ conservation)
3. Realization of projects for restoration and revitalization of degraded habitats
4. Realization of projects for reintroduction of rare, endangered and extinct species in natural habitats (in-situ conservation)
5. Implementation of National Strategy and Action Plan for Sustainable Development (NSSDAP)
6. Preparation of Strategic Action Plan for Wetlands conservation (SAPWC)
7. Implementation of National Environmental Action Plan (NEAP 2)
8. Implementation of National Strategy for Communication (NSCM)

Conservation of important natural sites

- ***Golem Grad Island on Prespa Lake*** (proposed for a Strict Natural Reserve)
- ***Demir Kapija, on Vardar Gorge*** (proposed for a Strict Natural Reserve)
- ***Belcisko Blato*** (proposed for a Strict Natural Reserve)
- ***Sar Planina Massif*** (proposed for a National Park)
- ***Mountainous Massif of Jakupica*** (proposed for a National Park)
- ***Mountainous and Lakes Eco-system Complexes: Jablanica-Galichica-Pelister, Lakes Ohrid and Prespa*** (proposed for a Biosphere Reserve)
- ***Lake Dojran and Nikolicko Blato*** (proposed for a Ramsar site)
- ***Lake Ohrid, Ostrovo and Studencista*** (proposed for a Ramsar site)
- ***Monospitovsko Blato*** (proposed for a Ramsar site)
- ***Kenyon Matka and River Tresca*** (proposed for a Ramsar site)
- ***Mountain Belasica*** (proposed for a Natural Monument)
- ***Osogovo Mountain*** (proposed for Biosfer Reservate)



■ Thank you

■ a.nastov@moepp.gov.mk

■ www.moepp.gov.mk