

Progress report 4

Project Title: Building of Carpathian Biodiversity Information System and design of the ecological network for the Western Carpathians (“Aufbau des Carpathian Biodiversity Information System und Vorschläge für einen grenzüberschreitenden Biotopverbund in den Westkarpaten”)

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Project team:

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Project Activities according to the updated Activity Plan (the numbers of activities follow the AP)

Two activities of the total list of twelve were ongoing during the 4th quartal. Activity 5 – data collection and 12 – public relation. The achievements under the 2 reported activities are described below.

Activity 5 – Collect the data on distribution of plant species, animal species and habitats according to the national lists, process the data into the databes and GIS layers

Major task of 4th quartal was to gather the data on biodiversity following the method described in previous reports. There were three groups of data – occurrences of habitats (= plant alliances), occurrences of plant species and occurrences of animal species. Occurrences of habitats and species were collected based on the lists which were prepared in previous phases of the project.

The experts delivered the data in two forms. Occurrences for orographical units were filled in a database, tailor made for this purpose (MS Access). The databases were prepared in the previous phase of the project. Precise occurrences (for priority habitats and species) were delivered as GIS layers.

Below an account of data which were collected and now being processed by CERI GIS expert is given. They will become a part of a Carpathian Biodiversity Information System.

An account of alliances:

		databases				
		ALLIANCES	CZ	HU	PL	SK
		number of records	323	366	405	1452
		number of alliances	61	67	75	127
		number of references	15	57	61	21
precise localities						
id	Alliance	GIS_layer_name	CZ	HU	PL	SK
16	Aceri tatarici-Quercion Zólyomi & Jakucs 1957	hab_00016_XX.shp	yes - OK	yes - OK	no	yes
20	Alnion incanae Pawlowski in Pawlowski, Sokolowski et Walisch 1928	hab_00020_XX.shp	yes - OK	yes - OK	yes - OK	yes
502	Alyso alyssoidis-Sedion albi Oberdorfer et Müller in Müller 1961	hab_00502_XX.shp	yes - OK	yes - OK	no	yes
27	Asplenio-Festucion glaucae Zólyomi 1936	hab_00027_XX.shp	no	yes - OK		yes
604	Betulion pubescentis Lohmayer et Tx. in Tx. 1955	hab_00604_XX.shp	yes	no	no	yes
31	Bromion erecti Koch 1926	hab_00031_XX.shp	yes - OK	yes - OK	no	yes
38	Caricion davallianae Klika 1934	hab_00038_XX.shp	yes - OK	yes - OK	yes - OK	yes
45	Carpinion betuli Issler 1931	hab_00045_XX.shp	yes - OK	yes - OK	yes - OK	yes
47	Cirsio-Brachypodion pinnati Hadač et Klika 1944	hab_00047_XX.shp	yes - OK	yes - OK	yes - OK	yes
48	Cratoneurion commutati Koch 1928	hab_00048_XX.shp	yes - OK	yes - ND	yes - OK	yes
53	Dicrano-Pinion (Libbert 1933) Matuszk. 1962	hab_00053_XX.shp	yes	no	yes - OK	yes
145	Eriophoro-Pinion sylvestris Pass. et Hoffm. 1968	hab_00145_XX.shp	no	no	no	yes
144	Festucion pseudovinae Soo 1933	hab_00144_XX.shp	no	no	no	yes
60	Festucion valesiacae Klika 1931	hab_00060_XX.shp	yes - OK	yes - OK	no	yes
6005	Halo-Trichophorion pumili Vicherek 1973	hab_06005_XX.shp	no		no	yes
75	Lycopodio-Cratoneurion commutati Hadač 1983	hab_00075_XX.shp	yes - OK	no	no	yes
79	Nanocyperion Koch ex Libbert 1932	hab_00079_XX.shp	no	yes - OK	yes - OK	yes
80	Nardion strictae Br.-Bl. 1926	hab_00080_XX.shp	no	no - OK	yes - OK	yes
81	Nardo-Agrostion tenuis Sillinger 1933	hab_00081_XX.shp	no	no	yes - OK	yes
1009	Nardo-Juncion squarrosi (Oberd. 1957) Passarge 1964	hab_01009_XX.shp	yes - OK	no	yes - OK	yes
55	Oxycocco-Empetrion hermaphroditi Nordh. 1936	hab_00055_XX.shp	no	no	yes - OK	yes
85	Papaverion tatrici Pawlowski 1928 corr. Valachovič 1995	hab_00085_XX.shp	no	no	yes - OK	yes
90	Pinion mugo Pawl. 1928	hab_00090_XX.shp	no	no	yes - OK	yes
96	Potentillo albae-Quercion petraeae Jakucs in Zólyomi et al. 1967	hab_00096_XX.shp	yes	yes - OK	no	yes
2007	Prunion fruticosae R. Tx. 1952	hab_02007_XX.shp	yes - OK	yes - OK	yes - OK	yes
101	Quercion pubescenti-petrae Br.-Bl. 1932	hab_00101_XX.shp	yes - OK	yes - OK	no	yes
102	Rhynchosporion albae Koch 1926	hab_00102_XX.shp	no	no	yes - OK	yes

104	Salicion albae Soó 1930 Salicion cinerea Th. Müll. & Görs ex Passarge	hab_00104_XX.shp	no	yes - ND	yes - OK	yes
105	1961 Sphagnion cuspidati	hab_00105_XX.shp	yes - OK	yes - OK	no	yes
1006	Krajina 1933 Sphagnion medii Kästner	hab_01006_XX.shp	no	no	no	yes
120	& Flössner 1933 Spiraeion mediae Borhidi	hab_00120_XX.shp	no	yes - OK	no	yes
124	& Varga Z. 1998 Stipion calamagrostis	hab_00124_XX.shp	no	yes - OK	no	no
125	Jenny-Lips ex Br.-Bl. Et al. 1952	hab_00125_XX.shp	yes - OK	no	yes - OK	yes
128	Tilio-Acerion Klika 1955 Violion caninae	hab_00128_XX.shp	yes - OK	yes - OK	yes - OK	yes
134	Schwickerath 1944	hab_00134_XX.shp	yes - OK	yes - OK	yes - OK	yes
<p>no - not occurring in the country yes - occurring in the country yes - OK - GIS layers done yes - ND - not existing data</p>						

An account of plants

		databases				
		PLANTS	CZ	HU	PL	SK
number of records			58	161	376	processed
number of plants			17	59	246	processed
number of references			14	28	73	processed
precise localities						
plant_id	TaxonNameFull	GIS_layer_name	CZ	HU	PL	SK
1127	Campanula serrata (Kit.) Hendrych	bot_01127_XX.shp	no	no	yes - OK	yes
1167	Daphne arbuscula Celak.	bot_01167_XX.shp	no	no	no	yes
1191	Erysimum pienicum Pawl.	bot_01191_XX.shp	no	no	yes - OK	no
1202	Ferula sadlerana Ledeb.	bot_01202_XX.shp	no	yes - OK	no	yes
1339	Onosma tornensis Jav.	bot_01339_XX.shp	no	yes - OK	no	yes
1371	Pulsatilla subslavica Futák ex Goliášová	bot_01371_XX.shp	no	no	no	yes
11500	Serratula lycopifolia (Vill.) A.Kern	bot_11500_XX.shp	yes - OK	yes - ND	no	yes
13480	Pulsatilla pratensis (L.) Miller subsp. hungarica Soo	bot_13480_XX.shp	no	yes - ND	no	yes
<p>no - not occurring in the country yes - occurring in the country yes - OK - GIS layers done yes - ND - not existing data</p>						

An account of animals

		databases				
		ANIMALS	CZ	HU	PL	SK
number of records			487	628	1245	processed
number of animals			102	125	202	processed
number of references			70	142	68	processed
precise localities						
id	TaxonNameFull	GIS_layer_name	CZ	HU	PL	SK
10038	Austropotamobius torrentium (V)	zoo_10038_XX.shp	no	yes - OK	no	yes
10060	Bison bonasus	zoo_10060_XX.shp	no	no	yes - OK	yes
10039	Callimorpha (Euplagia, Panaxia) quadripunctaria (o)	zoo_10039_XX.shp	yes - OK	yes - OK	yes - OK	yes
10070	Canis lupus	zoo_10070_XX.shp	yes - OK	yes - OK	yes - OK	yes
10092	Carilia excellens (Brančsik, 1874), * Pseudogaurotina excellens	zoo_10092_XX.shp	no	no	yes - OK	yes
10172	Lutreola (Mustela) lutreola	zoo_10172_XX.shp	no	no	no	yes
10138	Marmota marmota	zoo_10138_XX.shp	no	no	yes - OK	yes
10041	Nymphalis vaualbum	zoo_10041_XX.shp	no	yes - ND	no	yes
10042	Osmoderma eremita	zoo_10042_XX.shp	yes - OK	no	yes - OK	yes
10044	Phryganophilus ruficollis	zoo_10044_XX.shp	no	no	no	yes
10221	Rosalia alpina (Linnaeus, 1758)	zoo_10221_XX.shp	yes - OK	yes - OK	yes - OK	yes
10222	Rupicapra rupicapra	zoo_10222_XX.shp	no	no	yes - OK	yes
10248	Ursus arctos	zoo_10248_XX.shp	yes - OK	no	yes - OK	yes
			no - not occurring in the country			
			yes - occurring in the country			
			yes - OK - GIS layers done			
			yes - ND - not existing data			

Activity 12 – Public relation

CERI activities supporting building Carpathian Biodiversity Information System and design of the ecological network for the territory of the Carpathians, were promoted through a press release for the press agency SITA, which spread it to other portals (see the table below).

Date	Form	Media	Topic	Links
15.12.2008	Press release	Changenet	Iniciatíva karpatského ekoregiónu hodnotí tohtoročné aktivity Ekológovia zatiaľ zmapovali južné a východné Karpaty	http://www.changenet.sk/?section=spr&x=410134
27.12.2008	Press release	SITA	Ekológovia zatiaľ zmapovali južné a východné Karpaty	http://www.sme.sk/c/4239732/ekologovia-zatial-zmapovali-juzne-a-vychodne-karpaty.html
27.12.2008	Press release	SME Online	Ekológovia zatiaľ zmapovali južné a východné Karpaty	http://www.webnoviny.sk/slovensko/forum/27778/Ekologovia-zatial-zmapovali-juzne-a-vychodne-Karpaty.html
27.12.2008	Press release	Webnoviny - portal SITA	Ekológovia zatiaľ zmapovali južné a východné Karpaty	http://www.aktuality.sk/spravy/domace/ekologovia-zatial-zmapovali-juzne-a-vychodne-karpaty?i9=14c56bb9e659
27.12.2008	Press release	Aktuality	Ekológovia zatiaľ zmapovali južné a východné Karpaty	

Meetings

1. Internal organisational meetings/communication

The meeting with Axel Paulsch was held on 6 December 2008 in Ružomberok, to get update on the achievements under the ongoing activities, update of the time plan and to clarify upcoming actions. Regular exchange of information with German partner IBN was done by e-mail and skype.

2. Other meetings

ESF Exploratory Workshop – Europe's Green Backbone – Post-socialist land use change in the Carpathian region (EuCaRe), Berlin, Germany, 8-10 October 2008

CERI participated at this workshop to share its experience with the use of biodiversity and socio-economic data to assess the territory of the Carpathian mountains from a view point of nature conservation – to define the elements of a regional ecological network. The activities realized within the projects supported by both BBI/Matra as well as DBU were presented.

Background of the Workshop:

The fall of the Iron Curtain brought about substantial changes in the region's socio-economic and institutional structures. This triggered widespread land use changes which in turn affected local livelihoods, biodiversity, and the provision of ecosystem services. Moreover, today's land use decisions are affected by global climate change, globalization, and the accession of some countries to the European Union, and cannot be analyzed without considering land use legacies from centuries of historic land use. While this renders the Carpathians a complex land use system, analyzing this system also has tremendous potential to give novel insights in human-environment relationships and on the drivers and outcomes of land use change in a biodiversity hotspot. Advancing land system science in the Carpathians therefore requires a diverse and holistic approach, focusing on land use and its drivers, biodiversity, and cultural dimensions alike.

The objective of the workshop was:

- bring together leading regional and international experts from the fields of land change science, sustainability science, geography, biodiversity research, remote sensing, and spatial modeling
- better understanding of human-environmental systems in a currently understudied region of Eastern Europe – the Carpathian Mountains
- define the state-of-the-art in land system analyses in the Carpathians
- bridge the gap between different disciplines and stakeholders to define a research agenda of land change science for the Carpathians