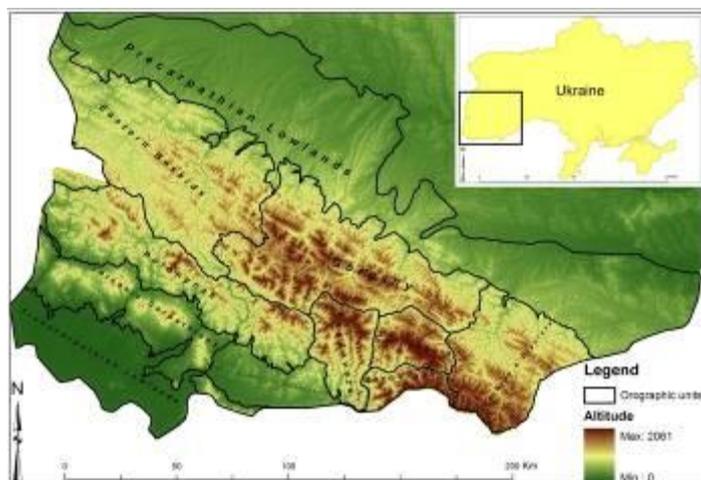


## Project Update: June 2015

### Starting the project

The project "Monkshoods in Chornogora Mts. (Ukrainian Carpathians): what, why and how we should protect?" was started successfully and now it gains momentum. The first step was the developing of field protocol and buying equipment for field investigations.



For these reason I prepared preliminary list of taxa with threat categories and endemic status which will be represented as a short paper "Genus *Aconitum* in Chornohora Mts. Preliminary analysis" on the conference "Historical and contemporary aspects of the biota studying in Carpathians" during 26th-30th July 2015. This list was developed as a base for cadastre. Also for this reason the GIS map with delimitations of the regions of Ukrainian Carpathians was created.

Taxon	Threat Category	Endemic Status
<b>Subg. <i>Aconitum</i></b>		
<b>Sect. <i>Aconitum</i></b>		
<i>A. xczarnohorensense</i> (Zapał.) Mitka	VU	Eastern Carpathian endemic
<i>A. xnanum</i> (Baumg.) Simonk.	DD	South-Eastern Carpathian endemic
<i>A. bucovinense</i> Zapał. fo. <i>bucovinense</i>	EN	South-Eastern Carpathian endemic
<i>A. bucovinense</i> Zapał. fo. <i>orthotricha</i> Gáyer	EN	South-Eastern Carpathian endemic
<i>A. firmum</i> Rchb. subsp. <i>firmum</i>	VU	Pan-Carpathian endemic
<i>A. firmum</i> Rchb. subsp. <i>fissurae</i> Nyárády	VU	Pan-Carpathian endemic
<i>A. firmum</i> Rchb. subsp. <i>fussianum</i> Starmühl.	NT	Pan-Carpathian endemic
<b>Sect. <i>Cammarum</i> DC.</b>		
<i>A. lasiocarpum</i> (Rchb.) Gáyer subsp. <i>lasiocarpum</i>	VU	Eastern Carpathian endemic
<i>A. lasiocarpum</i> (Rchb.) Gáyer subsp. <i>kotulae</i> (Pawł.) Starmühl. & Mitka	VU	Pan-Carpathian subendemic
<i>A. xgayeri</i> Starmühl.	LC	Eastern Carpathian endemic
<i>A. degenii</i> Gáyer subsp. <i>degenii</i> fo. <i>degenii</i>	LC	Pan-Carpathian endemic
<i>A. degenii</i> Gáyer subsp. <i>degenii</i> fo. <i>craciunelense</i> Gáyer	LC	Pan-Carpathian endemic
<i>A. degenii</i> Gáyer subsp. <i>degenii</i> var. <i>intermedium</i> (Zapał.) Mitka	LC	Pan-Carpathian endemic
<b>Sect. <i>Acomarum</i> Starmühl.</b>		
<i>A. xcammarum</i> L. em. Fries	LC	none
<b>Subg. <i>Anthora</i> (DC.) Peterm.</b>		
<b>Sect. <i>Anthora</i></b>		

<i>A. anthora</i> L.	VU	none
<b>Subg. <i>Lycoctonum</i> (DC.) Peterm.</b>		
<b>Sect <i>Lycoctonum</i> DC.</b>		
(?) <i>A. lycoctonum</i> L. em. Koelle subsp. <i>lycoctonum</i>	DD	none
<i>A. moldavicum</i> Hacq. subsp. <i>moldavicum</i>	LC	Pan-Carpathian subendemic
<i>A. moldavicum</i> Hacq. subsp. <i>hosteanum</i> (Schur) Graebn. & P. Graebn.	LC	Pan-Carpathian endemic
<i>A. moldavicum</i> Hacq. subsp. <i>simonkaianum</i> (Gáyer) Starmühl.	DD	Eastern Carpathian endemic

Also the protocol for field expeditions was developed. This protocol includes next parts: a) Site selection; b) Sampling of herbarium material; c) Vegetation description by Braun-Blanquet; d) Microclimatic measurements. This step-by-step protocol will help me to realize accurate studies during my field trips and will allow standardising the obtained results.



For microclimatic measurements in field conditions I bought next technical equipment: a) soil moisture meter Rixen M-700S (1 pcs.); b) soil pH and temperature meter Ezodo MP-103S (1 pcs.); c) environment multimeter Flus ET-965 (1 pcs.). This equipment will allow getting clear data about air temperature, air humidity, illumination, soil moisture, soil temperature, and soil pH in localities of investigated *Aconitum* taxa.