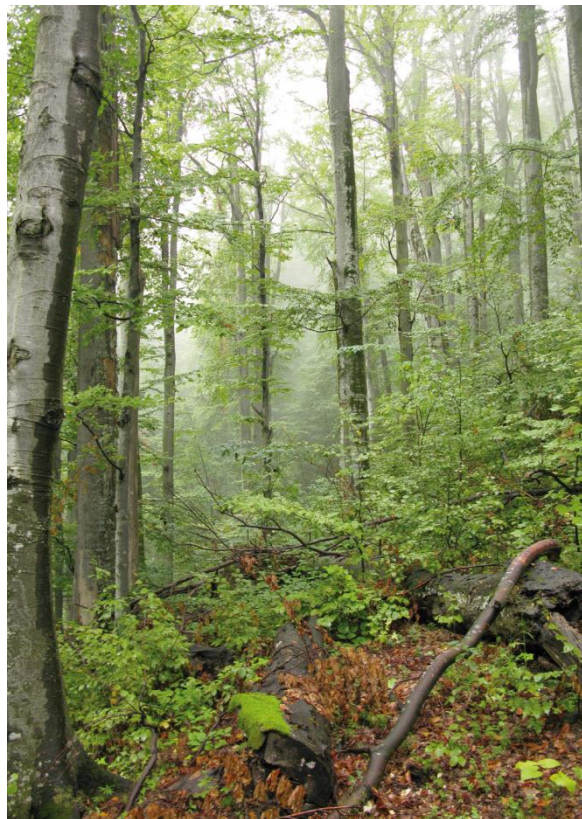




VIRGIN FORESTS IN UKRAINE

**Volodymyr Korzhov – First Deputy Director for Science
Ukrainian Research Institute of Mountain Forestry
Ivano-Frankivsk**

Owner, administrator	County	Based on		Type of property	Altitude		Total area (ha)	Quantity of plots	The level of the forests protection (fully protected, in progress, not protected)
		Forest management plan, edition (year)	Study, edition		minimum	maximum			
Carpathian Biosphere Reserve	Zakarpattya		2007	state owned	600	1650	15177,0	24	fully protected
Uzhanskyi National Nature Park	Zakarpattya	2008		state owned	650	1200	942,6	15	fully protected
							16119,6		



A Swiss-Ukrainian Scientific Adventure Inventory of the Largest Primeval Beech Forest in Europe

Editors: Brigitte Commarmot, Urs-Beat Brändli, Fedir Hamor, Vasyly Lavnyy

Publisher:

Swiss Federal Institute for Forest, Snow and Landscape Research
WSL, Birmensdorf

Ukrainian National Forestry University, L'viv
Carpathian Biosphere Reserve, Rakhiv

2013

*The location of the beech forests of the Ukrainian-Slovak
UNESCO world heritage site*



БУКОВІ ПРАЛІСИ КАРПАТ
**PRIMEVAL BEECH FORESTS OF
THE CARPATHIANS**



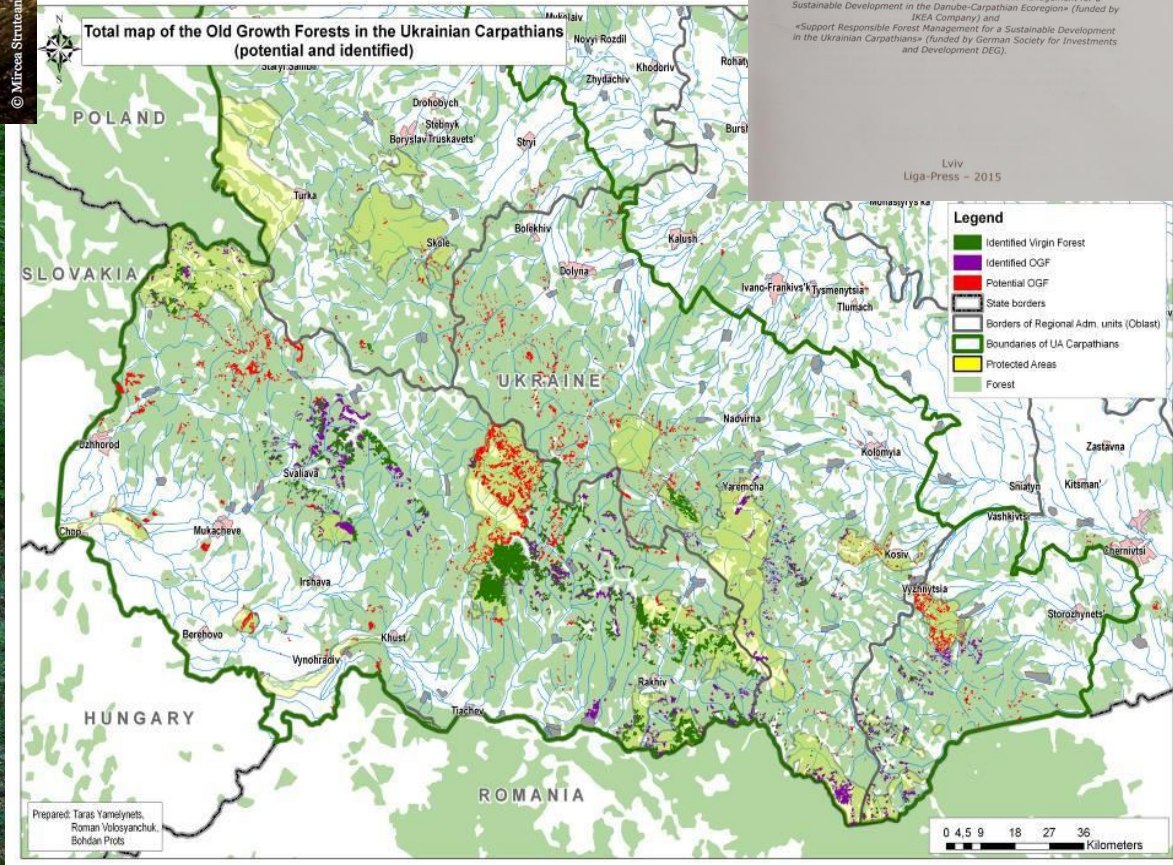
VIRGIN FORESTS IN UKRAINE

4

With the support of the World Wide Fund for Nature (WWF) last years conducted a survey the some part of Carpathian's forests. As a result, at the end of 2016 is announced the availability of 54 thousand hectares of virgin forests.



Лісовий сектор



WORLD WIDE FUND FOR NATURE (WWF)
INSTITUTE OF ECOLOGY OF THE CARPATHIANS
NAS OF UKRAINE
UKRAINIAN RESEARCH INSTITUTE OF MOUNTAIN
FORESTRY NAMED AFTER P.S. PASTERNAK

Criteria and Methodology for Old Growth and Virgin Forests Identification

The brochure preparation was supported by the World Wide Fund for Nature (WWF) within the projects «Support Responsible Forest Management for a Sustainable Development in the Danube-Carpathian Ecoregion» (funded by IKEA Company) and «Support Responsible Forest Management for a Sustainable Development in the Ukrainian Carpathians» (funded by German Society for Investments and Development DEG).

Lviv
Liga-Press – 2015

Existing plan to create a special commission to decide on the conformity of these forest sites criteria and indicators established under the Carpathian Convention, and giving official status to virgin forests. **Also, it is advisable to pay special attention to the existence of trees with exceptional dimensions according to the site conditions and species.**



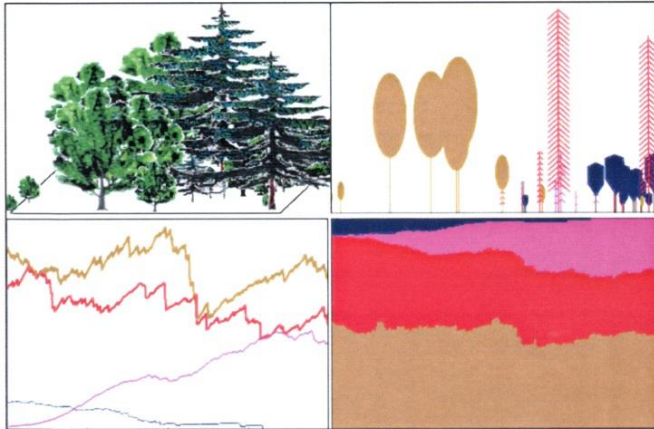
Many virgin forest types were characterized, in part, by enormous old-growth trees that reached sizes rarely seen today. In each photograph, the humans have been highlighted for scale. From left: old-growth yellow poplar in a cove hardwood forest in North Carolina; baldcypress trees in a Florida swamp; virgin white pine-mixed hardwood forest in Virginia.



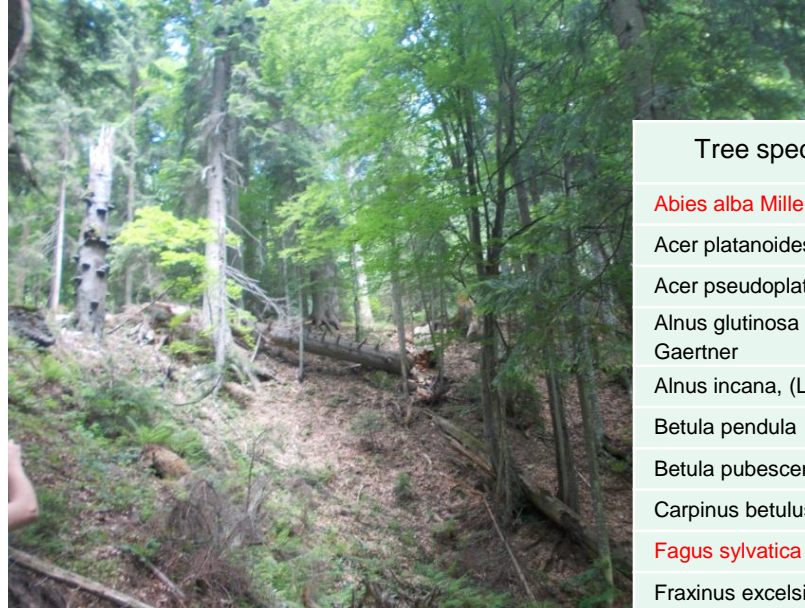
Created a special Computer model for predicting forest development under different conditions and scenarios, in which used maximal parameters of tree for Carpathian region, determined based on the research of number of scientists.

Ігор Козак, Василь Парпан

Екологічна лісова комп'ютерна модель FORKOME



Changes of trees species composition, their biomass and number of trees on research areas of beech, fir, spruce forests in control and climatic changes conditions were predicted with the use of FORKOME model. Changes of biomass and amount of trees in the process of felling, regeneration of forest at spruce stands are shown. The possibilities of the model's use for prediction of taxation departments, forest massif changes, auto and cross correlation of biomass and amount of trees are presented.



Kozak I., Parpan V. Forest ecological computer model FORKOME . – Ivano - Frankivsk, Vasyl Stefanyk Precarpatian National University.- 2 006. - 207p.

Maximal parameters of tree, which used in FORKOME

Tree species	H _{max} , m	D _{max} , cm	A _{max} , year
<i>Abies alba</i> Miller	60	150	400
<i>Acer platanoides</i> , L	35	100	200
<i>Acer pseudoplatanus</i> , L	40	150	300
<i>Alnus glutinosa</i> , (L.) Gaertner	40	100	200
<i>Alnus incana</i> , (L.) Moench	25	50	100
<i>Betula pendula</i> Roth	35	100	100
<i>Betula pubescens</i> Ehrh	30	100	100
<i>Carpinus betulus</i> L.	35	100	200
<i>Fagus sylvatica</i> L.	45	150	300
<i>Fraxinus excelsior</i> L.	40	150	300
<i>Juniperus communis</i> L.	15	50	400
<i>Larix decidua</i> Miller	50	150	400
<i>Picea abies</i> (L.) Karsten	55	150	400
<i>Pinus cembra</i> L.	25	150	500
<i>Pinus mugo</i> Turra	15	50	200
<i>Pinus sylvestris</i> L.	45	150	400
<i>Populus tremula</i> L.	40	100	100
<i>Quercus petraea</i> (Mat.) Liebl	40	250	500
<i>Quercus robur</i> L.	45	250	500
<i>Taxus baccata</i> L.	25	100	500
<i>Tilia cordata</i> Miller	45	250	500
<i>Ulmus glabra</i> Hudson	40	100	300

Conclusions and suggestions

1. When carrying out identification work of virgin forests, it is necessary to ensure objective results that are confirmed by reliable values in accordance with the criteria and indicators approved under the Carpathian Convention.
2. On the sites of the virgin forests, there should be trees whose parameters are no less than available in the presented table (see slide №6).
3. It is advisable to ensure:
 - Organization of the work of the special commission (preferably at the international level) to make official decisions about attributing of area to virgin forests;
 - Mandatory allocation of virgin forest areas in forest management documents;
 - The establishment of the form and content of the document for virgin forest territory and the mechanisms for its approval.

Державний комітет лісового і мисливського господарства України

ПАСПОРТ постійної лісонасінної ділянки

Порода _____ Рік закладки _____ Площа, га _____

I. Місцезнаходження насадження

1. Область _____ 2. Район _____
3. Підприємство л/г _____
4. Лісництво _____ 5. Урочище, дача _____
6. Квартал _____ 7. Ділянка _____
8. Рельєф _____
9. Експозиція схилу, крутизна _____
10. Висота над рівнем моря, м _____
11. Схема розміщення насадження в кварталі (з прив'язкою до квартального стовпа).



Складається в чотирьох примірниках. Зберігається в лісництві, на підприємстві лісового господарства, в обласному управлінні лісового і мисливського господарства та ЗЛНН.



A photograph of a dense forest with a stream flowing through it. The ground is covered in fallen leaves and moss. Several large logs are scattered across the scene. The trees are tall and thin, with green foliage. The overall atmosphere is serene and natural.

**THANK YOU
FOR ATTENTION!**

**Volodymyr Korzhov,
UkrRIMF**