Virgin / quasi-virgin forests in Romania

Defining Virgin / quasi-virgin forests in Romania:

In the acceptance of this concept, through "virgin – quasi-virgin forests" or "virgin – quasi-virgin forest ecosystems" we understand forests with primordial structures. Therefore, we will understand, those forest ecosystems which always ruled themselves through natural biocoenosis processes, in which both the forest station (biotope) and especially the biocoenosis were not major influenced by human interventions (composition, biomass dynamic, age distribution, natural regeneration of the ecosystem) and, through their spreading, ensure self-adjustment.

(Terminology: primary forests; forest ecosystems; biocoenosis processes, etc.)

Note:

For the most part of Europe, even in the Carpathians region, both by traditionally specific (transhumance, use wood for fire, traditional crafts, hunting, best use of products which are accessories to the forest, etc.) and especially in the last decades through development of the economic/industrial sector, it is impossible to talk about biocoenosis which were not directly or indirectly influenced by the anthropogenic factor. By defining "virgin – quasi-virgin forests" will thus be neglected human interventions less obvious, which did not lead to the alteration of the biocoenosis structure and further to a significant influence of the forest ecosystem dynamics.

Objective:

Establishment of practical criteria and indicators (starting from the ones used in "Virgin Forests in Romania" (I.A. Biriş and P. Veen, editors, 2005 – result of the project PIN-MATRA/2001/018 – "Inventory and strategy for sustainable management and protection of virgin forests in Romania) which allows rapid identification on the field of "virgin forest".

This document propose the definition of a clear "threshold" (minimum identification elements) over which we may accept that any forest, fulfilling these criteria, describe a virgin – quasi-virgin forest ecosystem. According to evolutionary stage of each forest considered virgin – quasi-virgin, certainly, will be obviously difference between each other, first of all in terms of structure, the reason for which we don't intend to draft detailed scoring, reflecting qualitative criteria for the characterization of this forests. In this first phase, and especially due to continuous threats endangering these forests, we intend only a swift identification of this biocoenosis and finding efficient/rapid solutions for their protection.

Opportunity / Need:

An easy and objective system of criteria will allow a quick and low-cost identification of the virgin – quasi-virgin forests in Romania.

Now, on the basis of increasing pressure over forests, continuous changes occurred in the structure of forest property and due to a rambling implementation of the forest sustainable management principles, a drastic/accelerated reduction came across these last remaining surfaces of virgin – quasi-virgin forest of the European Community.

CRITERIA & INDICATORS FOR SELECTION OF VIRGIN – QUASI-VIRGIN FORESTS IN ROMANIA

Tabel 1.

A1	Criterion Naturalness			Tabel 1.
Indicators			NO	OBS.
A1.1 A1.2 A1.3	Phytocoenosis formed of local/site-specific plant species. Presence of specific¹ animal species (from information and own observations). Lack of silvicultural leading interventions and stands regeneration. May still be accepted interventions with negligible human influence which have not significant influenced the structure and dynamic of the ecosystem.	YES	NO	Terms will be defined: "local/site-specific" (will avoid spruce stands from Bucovina, Covasna, Harghita, etc) Don't need necessarily existence in the same place of all species specific to the ecosystem type. Terms: "negligible human influence". Are considered human interventions with negligible influence the following: • totally isolated extractions/injuries of trees, meaning below 5% from the volume on the management planning unit; • random crossing of herds on a route to and from pastures; • sporadically collection of accessory products (mushrooms, forest fruits); • hunting paths & infrastructure of the game fund management (game salt-place, feeding-place, etc.); • thematic trails and tourist activities with environmental low impact (tourist routes, climbing); • picketing management planing limits or routes; • extraction paths near transit, which serve other stands than the ones in question. Assessments will be made on forest body level, being
				also considered, as appropriate, partly in management planning units.
A1.4	Ecosystems with complex structures covering <u>all stages of</u> <u>development</u> (some stages may be present only on small surfaces) in a mosaic structure (horizontal). Diversity of ages			

	& biometrical/	volume elements.			
A1.5	Presence of tre	es that reached the limit of physiological age,			Most often they will have exceptional dimensions in report
	in the given conditions.				with forest station yield
A1. <u>6</u>	Presence of dead wood standing and on the ground in all				The quantity of dead wood should be evaluated on
	stages of degradation and all over the forest surface.				ecosystem structure and conditions of forest station.
A2	Criterion	Surface & Delimitation			
Indicators			YES	NO	OBS.
A2.1	influence (with selection criter compact way for the forest ecosy				
A2.2	valleys, stream against externa by natural bour	bunded, as possible, of <u>natural limits</u> (heights, s, forest edge) to give additional stability l abiotic factors. To ensure stability conferred ndaries, can include possible areas that do not naturalness criteria A.1.			Natural limits not necessarily have to overlap with the parceling limits. Will be accepted: heights, valleys, secondary streams. Will also be accepted as artificial limits: • permanent roads; • corridors for high voltage lines or other utilities; • open parceling lines; • railway roads, etc. The surfaces that do not respond to the naturalness criteria A.1., will not overcome 15% of the total forest body area.
A2.3		nfiguration of the land surface, due to natural nich brings ground volume from around the			