Protected Areas Management Effectiveness Information Module

Methodology Description

Valdiviana Ecoregion Argentina

Information on this methodology was extracted from Rusch (2002)

1.1 Organisation

WWF/Fundación Vida Silvestre Argentina

1.2 Primary reference

Rusch V (2002) 'Estado de situación de las areas protegidas de la porción Argentina de la ecoregión Valdiviana'.

1.3 Brief description of methodology

The methodology was developed by Fundación Vida Silvestre Argentina and WWF to assess the status of the protected area of the Valdiviana Ecoregion, based on the application of questionnaires and interviews to the protected area managers and staff. It also includes a literature review and field survey (Rusch, 2002).

1.4 Purposes

- ✓ to assist in prioritisation or resource allocation
- ✓ to raise awareness and support

1.5 Objectives and application

The stated objectives are:

- a) to offer to the community an independent and objective tool to evaluate the advances in the implementation of the protected areas of the region and
- b) to offer a mechanism to direct policies, efforts and conservation actions on the part of responsible state and/or private organisations which administer the parks, to improve their management.

In addition, the results of this analysis will contribute to generate awareness of the state and the objectives of the parks, and will allow the establishment of action priorities within the conservation organisations that decide policies, and implement or finance programs of protected areas (international organisations, national, provincial, municipal governments and NGOs). Objectives such as to improve particular aspects of management efficiency within each area are secondary in this study.

1.6 Origins

'Through its Global 2000 Program, WWF identified the Valdiviana Eco-region or the Temperate Valdiviana Forests of Argentina and Chile as one of the high-priority sites for conservation of world-wide diversity (Dinerstein *et al.* 1998). All agree that a proportion of the protected areas of the Valdiviana region are 'Paper Parks', due to little or no implementation (of park management). When analysing the percentage of land protected in each subregion, or each type of vegetation, the numbers seem reassuring, but when the lack of implementation is considered, this the situation is not so promising, Therefore evaluation of the state of implementation of the Protected Areas is one of the high-priority actions to guarantee its conservation (Laclau 1998; 2002; Vila *et al.* 2000).

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1.7 How the method is implemented

Risk matrixes were built (Lemos de Sa *et al.*, 1999) where each protected area was positioned in squares corresponding to the degree of implementation/management on one axis and the degree of threats/vulnerability on the other.

Data was collected through four steps: literature review, questionnaires, interviews, and field survey.

1.8 Elements and indicators

The selection of indicators was based on work by de Faría (1993) and Cifuentes and Izurieta (2000a) and on the IUCN-WCPA Framework. The WWF Score-card scheme, developed for the Paranaense Forest Eco-region (Chalukian, 1999), based on the 1999 Brazilian survey (Lemos de Sá *et al.* 1999) was also used, to allow comparison with protected areas of other regions of the country.

There are indicators of management, implementation, and threats. The fist two refer to six elements: legal; administrative; design and planning; political; research, knowledge and education; and actual use. The indicators of threats relate to the degree of isolation and conflicting activities or projects within or outside the protected area.

Another independent indicator was analysed: the significance of the area for conservation, which was considered extremely important to evaluate the state of implementation and management and the vulnerability of the protected area regarding its importance to the conservation of the region.

The degree of threat has been corrected using the factor of vulnerability, considering the actual PA area, as the degree of threat increases with the decrease in PA area.

Indicators for the Valdiviana methodology

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Aspects (broad)	Aspects	Indicators			
A. Management	Legal	Land tenure			
and		Legal status (legal instrument of creation or support)			
implementation		Limits demarcation			
	Administrative	Field staff (involved in activities of control and protection, legal			
		action, socialization, communication, extension and education			
		Administration: assigned staff and sufficient staff			
		Technical staff (existence or not)			
		Infrastructure			
		Equipment and materials			
		Financing and budget (permanent and external funding)			
	Design and	Design of the system and the PA			
	Planning Planning tools				
PA Zoning		PA Zoning			
	Political	Context (institutional support)			
		Local participation and attitude regarding the PA objectives			
	investigation,	Existence of information			
	knowledge	Research			
	and education	Management of information about natural and cultural			
		resources			
		Monitoring and evaluation			
		Environmental education, extension and communication			
	programs				
	Actual use	Actual use of the PA			
B. Threats and	Buffer zone	Buffer zone (existence or not)			
vulnerability	situation	Degree of isolation			
		Predominant land use in the buffer zone			
		Conflicting projects (regional development plans)			

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PA situation	Water Illegal	ntage of altered area within the PA system protection activities f resources
Importance the area	e of Signifi	cance (for conservation)

The indicators are also grouped according to the scheme of Hockings *et al.* (2000): <u>Context</u>: significance; internal and external threats; vulnerability and context <u>Planning</u>: legislation and policy; design of the system and of the PA; management planning <u>Inputs</u>: funds; field, administrative and technical staff; equipment and infrastructure <u>Processes</u>: planning implementation; research; information management; monitoring and evaluation; staff training and capacity; environmental education; resources management; participation.

1.9 Scoring and analysis

Each indicator varies in a 5-point scale, from 0 to 4. When there is no information the indicator is annulled. The determination of aggregate values is calculated as the average of the individual values. Although most of the information is expressed as scores (from 0 to 4), in some cases it is expressed as a percentage of the optimum. The value "4" always represents the optimal value for both threat and management indicators.

For the PA degree of implementation, the following percentage scale was used:

> unsatisfactory: less than 35% of the optimum

minimally satisfactory: 36–50%moderately satisfactory: 51–75%

> satisfactory: 76–90%

➤ very satisfactory: 91–100%