

Table 20: Logical Framework for Actions according the Management Plan for the Prespa Prespa National Parkin Albania (see Compendium of the Management Plan, 2013, pp 192ff)

Core Zones	Management Objective	Action / Measure	Time Period				Means of verification/ Indicator	Monitoring method	Result
			Immediate/ Urgent 2014-2015	Mid term 2015-2018	Long term 2018-2023				
Core Zones	Rehabilitate natural condition of forest ecosystems	Keep human activities out	X	X	X	Old beech and oak tree stands untouched, natural revitalization by offshoots	Trees marked and registered, control every three years	Natural regeneration of forest ecosystem	
	Stabilize the woodpecker population	Keep human activities out	X			Amount of breeding pairs of Black woodpecker (<i>Drycopus martius</i>)	Counting the breeding pairs annually	Stable population or increasing	
	Improve habitat quality for wildlife by stopping hunting	Block Access Road/Paths	X			No hunting	Wildlife cameras	No poachers pictured	
	Conserve the mushrooms populations for the future generations	Provide licenses to mushroom collectors	X	X	X	Number of registered mushroom collectors	Registration of collectors	Disturbance by mushroom collector is low	
	Conserve the medicinal plants future generations	Provide licenses to medicinal plant collectors	X	X	X	Number of registered medicinal plant collectors	Registration of collectors	Disturbance by medicinal plant collectors is low	
	Research on natural regeneration of forest and grassland ecosystems without human alteration	Encourage national and international researchers to observe the rehabilitation of the ecosystems	X		X	Scientific publications	Published results	Increased knowledge of ecosystems and their recovery	
	No grazing in the core zones	Stop grazing	X	X	X	No livestock in the core zone	Wildlife cameras	No livestock in the core zones	
	Inform inhabitants and visitors about the park, its restrictions and possibilities	Place info-tables and sign post to mark the boundaries of the core zone	X		X	Number of placed info-tables and sign posts	Counting and controlling	Everybody respects the core zones	
	Protect the cultural and natural assets of the island by restriction of the access on the island only to the chapel of St Mary.	Place and maintain a floating landing pontoon. Prepare and maintain a walking path from the landing platform to the chapel	X	X	X	Landing platform in place and in proper shape	Annual control	Natural regeneration on the island is enhanced and widely undisturbed	
	Avoid disturbance to the rest of the island	Place info-tables and sign boards to keep visitors on the marked path	X						

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				Immediate/ 2014-2015	Mid term 2015-2018	Long term 2018-2023	Means of verification/ Indicator	Monitoring method	Result
Restricted Fishery Zones⁵	Management Objective	Action / Measure	Immediate/ 2014-2015	Mid term 2015-2018	Long term 2018-2023	Means of verification/ Indicator	Monitoring method	Result	
	Restrict catching of fish to allow undisturbed reproduction and spawning of the fish population	Ban fishing activities temporal (April - May) and spatial according to the restricted zones (Fehler! Verweisquelle konnte nicht gefunden werden.), except the border area at the Lesser Prespa, where the fishing ban shall pertain all the year around.	X	X	X	No fishing during the fishing ban period and the designated areas	Direct control and patrolling on the lake during the banned fishing season	Native fish population reproduce successfully and the population in the lake is stabilized or even increasing	
Sustainable Use Zone	Improve habitat quality by stopping hunting	Control in and outgoing traffic at the entry/exit points of the NP	X	X	X	No hunting detectable	Wildlife cameras	No records of poachers	
	Recover overused coppice forests to forests of full grown trees Reduce firewood consumption	Reduce the use for firewood by substitution of biomass, supply more efficient heating systems in the houses Better insulation of houses	X	X	X	Phasing out of the firewood harvest within five to ten years from the state forest parcels of the PNP. No firewood cut anymore in the buffer zones after ten years	Substitution of firewood by biomass Support to install better heating systems Consultation of house-owners to insulate the houses properly	Average consumption of firewood reduced to 5 m ³ per household per year	
	Recover forests of buffer zone	Reduce the use of grazing ground for livestock Reduce the lopping of trees for production of winter fodder for livestock	X	X	X	Phasing out the use of forests of the buffer zone as grazing ground for livestock. No grazing of livestock in the state forests of the buffer zone after ten years	Number of livestock grazing in state forest parcels of the buffer zone Annual registration	Recovering of forest ecosystems by re-growing trees	
	Provide ecologically balanced pastures for the livestock	Balance the number of livestock with the given surface of pastures	X	X	X	The number of livestock units in the National Park is	Registration of livestock per	Balanced number of livestock units with	

⁵ Compare Table 45 in the Compendium of the management plan of the Prespa National Park, pp. 194ff and compare Figure 122

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Management Objective	Action / Measure	Timeline				Means of verification/ Indicator	Monitoring method	Result
		Immediate/ Urgent 2014-2015	Mid term 2015-2018	Long term 2018-2023				
	by applying the thresholds for the carrying capacity of grassland (0.5 to 0.7 livestock units per hectare)				balanced with the available surface of pastures (about 4000 ha)	household annually	available pastures. No more overgrazing.	
Traditional Use Zone	Improve habitat quality by stopping hunting	X	X	X	No hunting detectable	Improve habitat quality by stopping hunting	Control in- and outgoing traffic at the entry/exit points of the NP	
	Recover overused coppice forests to forests of full grown trees Reduce firewood consumption	X	X	X	Phasing out of the firewood harvest within five to ten years from the state forest parcels of the PNP. No firewood cut anymore in the buffer zones after ten years	Reduce firewood consumption	Reduce the use for firewood by substitution of biomass,	
	Recover forests of sustainable use zone	X	X	X	Phasing out the use of forests of the buffer zone as grazing ground for livestock. No grazing of livestock in the state forests of the buffer zone after ten years	supply more efficient firing systems in the houses	Improved forests to provide firewood for future generations	
	Plant fast growing woods to provide firewood as substitute for reduced harvesting from state forests.	X	X		At least 8 ha are planted and are ready made to be harvested in three to five years intervals	Plantation is present and growing	The more fast growing woods can be planted the higher is the relief for the state forests and the improvements.	
Provide ecological balanced pastures for the livestock	Balance the number of livestock with the given surface of pastures by applying the thresholds for the carrying capacity of grassland	X	X	X	The number of livestock units in the National Park is balanced with the available	Register livestock	Conservation of grassland ecosystems as pastures for the local population	

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		(0.5 to 0.7 livestock units per hectare)				surface of pastures (about 4000 ha)		
Agricultural Areas	Provide food supply for the local population	Apply ecological standards for production by avoiding harmful pesticides and artificial fertilizers	X	X	X	Surface of arable land is stable	GIS analysis	Protection on soils as agricultural production sites for the current and future generations
Support measures for local population	Stabilize and improve the living conditions for the human inhabitants of the park	Provide a marketing organization to bring products form local producers to the markets. Support beekeeping Support the fishermen Support the collectors of medicinal plants, mushrooms and berries. Prepare a special label for products of the National Park	X	X	X	The turnover in production of goods is stabilized and prices for individual goods have been increased	Market research	Improved income for local producers with support from the PNP administration. Improved support from local population to the Park.
	Increase attractiveness for visitors	Create infrastructure in the PNP to allow visitors to experience nature. Identify and mark hiking trails, biking and riding trails. Provide information for visitors in a visitor center Implement info points in the park where visitors get information about recreation possibilities	X	X	X	Hiking, riding, biking trails and related maps are produced Visitor center set up The number of guests staying overnight in the PNP is increasing	Maps and info-material Registration	Increasing numbers of visitors are improving the livelihood of the local population.
	Train local people to become a nature guide	Select appropriate people from the PNP's area and train them as nature guides. Provide a certificate as recognized nature guide of the Prespa PNP	X	X	X	Several people are trained and have received a certificate 'Prespa Nature Guide'	Registration of trained guides	Guides are offering services to visitors and are able to inform about the biodiversity of the park and the culture

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Special elements for conservation	Management Objective	Action / Measure							
CAVES	Protect habitat quality of caves for cave dwelling fauna and flora and conserve the cultural heritage of caves	Block access to main caves especially the Treni cave	X				Access effectively blocked not visitors without permit of the NPA is visiting the caves	Control annually the construction to block the caves	Caves are protected and the habitat quality for cave dwelling fauna and flora is secured Cultural heritage is protected
Reed bed Micro Prespa	Protect the reed belt of the Micro Prespa lake along the border of Greece to improve habitat quality for breeding birds Improve the Micro Prespa for fishing	Keep any disturbance off especially during the breeding season Remove parts of the reed in summer to open water surface	X	X	X	X	No disturbance Breeding birds start to breed Open water space increased for fishing activities	Pelecanus crispus and P. onocrotalus start to breed Herons start to breed GIS analysis	Improved habitat quality for fauna and flora of reed beds. Increased open water space for better habitat quality for fish stock
Harvesting Reed	Harvest reed as substitute for firewood	Open corridors in the reed to allow fishermen to access the open water surface Follow the prepared management plan for harvesting reed during the winter season (January to March), restrict the harvest to about 180 tons per year and follow a rotation system for the harvesting	X	X	X	X	Open corridors exist and allow fishermen to access the open waters of the lake Amount of annually harvested reed. Application of rotation harvest pattern	GIS analysis Mapping of harvested reed plots, GIS analysis	Better access of fishermen to their fishing grounds Reed as biomass resource. Improvement of habitat quality for the reed. Carbon sequestration and by this contribute to climate change mitigation
Aquatic ecosystems	Protection from contamination with harmful substances	Awareness raising and education of the local population	X	X	X	X	No pollution	Abiotic parameters of the	Clean waters

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(lakes, rivers, ponds)	Protection of the lakes from organic pollution from the households and agricultural production	Education and awareness raising Construction of collection systems and sewage water treatment plants for selected villages. Construction of isolated septic tanks for individual houses	X		X	No organic pollution of aquatic ecosystems	aquatic ecosystems Measuring of organic parameters	Clean waters
	Inform and educate about the Fauna and Flora of the lakes	Place underwater cameras in the lake and transmit the pictures to the visitor center		X	X	Awareness improved	Underwater cameras are in place	School classes are using the information to inform about aquatic ecosystems their services and fauna and flora
Species conservation and rehabilitation programme	Stabilize and increase populations of rare and endangered species living in the PNP	Raise awareness and educate local population and visitors about the special values of species	X	X	X	Awareness improved	Support by local population to actions of the PNP Increasing number of visitors	Improved conditions for species increases the attractiveness of the PNP for visitors
	Stabilize the population of songbirds	Place nest boxes around the urban areas. Place observation cameras in the nest boxes and transmit the picture to the visitor center	X		X	Nest boxes for birds are placed	Boxes are controlled and cleaned every year	Boxes are occupied and some bird species benefit from it. Awareness about breeding birds in the park is increased
	White Stork recovery	Place artificial platforms in villages around both lakes in order to provide breeding conditions for White storks	X		X	Breeding platforms are placed	Observation cameras close to the nest. Transmit the pictures to the visitor center	White storks are breeding again the PNP. Awareness about species living close with people is

	Management Objective	Action / Measure	Immediate/ 2014-2015	Mid term 2015-2018	Long term 2018-2023	Means of verification/ Indicator	Monitoring method	Result
CULTURAL ASSETS	Protect the cultural heritage	Provide an exhibition in the visitor center for the excavated artefacts	X	X	X	Exhibition is in place	Exhibition is available for inhabitants and visitors	increased. Education and information of visitors is increased.
	Protect hermitages and Christian Assets	Support to the conservation of these cultural assets	X	X	X	Hermitages, chapels are protected and attractive for visitors	No vandalism is occurring	The understanding of traditional land use and culture is improved
ALIEN INVASIVE SPECIES	Remove species from the park's territory.		X			Removed plants	Five years registration of successful removal	The cultural assets are attractive for visitors and well maintained.
	Ailanthus altissima	Eradicate the species everywhere where it grows immediately						No Ailanthus altissima growing in the Park