

Maintaining Biological Integrity of Critical Biodiversity Habitats

Associate Cooperative Agreement No. 687-A-00-04-00090-00



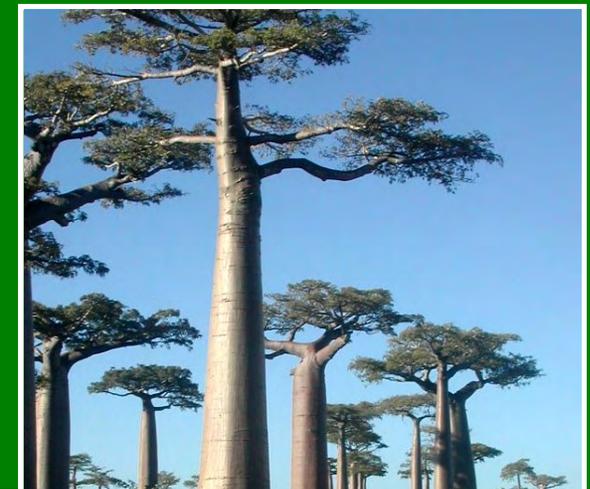
May 17, 2004 – August 31, 2009



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This publication was produced for the United States Agency for International Development. It was prepared by Conservation International (CI), Wildlife Conservation Society (WCS), World Wide Fund for Nature (WWF), and Madagascar National Parks.



PROJECT SUMMARY

Project Name: **MIARO**

Project activity: **Maintaining Biological Integrity of Critical Biodiversity Habitats**

Cooperative Agreement No.: **687-A-00-04-00090-00**

Project period: **May 17, 2004 – August 31, 2009**

Implementing Organization: **Conservation International – Madagascar in partnership with WCS, WWF and Madagascar National Parks**

LIST OF ACRONYMS

ANGAP	<i>Association Nationale pour la Gestion des Aires Protégées (now Madagascar National Parks)</i>
BP	Business Plan
CAZ	Ankeniheny-Zahamena Corridor
CI	Conservation International
CIREF	<i>CIRconscription de l'Environnement et des Forêts</i>
COAP	<i>Code des Aires Protégées</i>
COFAV	Fandriana-Vondrozo Corridor
DGF	<i>Direction Générale des Forêts</i>
DIR	<i>Direction Inter-Régionale (Regional Offices)</i>
DIREF	<i>DIRection Régionale de l'Environnement et des Forêts</i>
DSAP	<i>Direction de l'Appui aux Systèmes des Aires Protégées</i>
EP3	Environmental Program 3
GoM	Government of Madagascar
Ha	Hectares
HQ	Headquarters
IR	Intermediate Result
IUCN	International Union for Conservation of Nature – The World Conservation Union
MBG	Missouri Botanical Garden
MEF	<i>Ministère de l'Environnement et des Forêts</i>
MEM	<i>Ministère de l'Energie et des Mines</i>
MNP	Madagascar National Parks
MPA	Marine Protected Area
OP	Operational Plan
PA	Protected Area
PMP	Performance Monitoring Plan
QMM	QIT Madagascar Minerals
RM	Results Module
SAPM	<i>Système des Aires Protégées de Madagascar</i>
SO6	Strategic Objective 6 of USAID
TM	Tany Meva
TNC	The Nature Conservancy
USAID	United States Agency for International Development
USG	United States Government
WCPA	World Commission on Protected Areas (part of IUCN)
WCS	Wildlife Conservation Society
WWF	World Wildlife Fund / World Wide Fund for Nature

INTRODUCTION

The MIARO Program was implemented from May 2004 – August 2009 and is a cooperative agreement with Conservation International (CI) under the “Maintaining Biological Integrity of Critical Biodiversity Habitats,” Leader Award No. LAG-A-00-99-00046-00. World Wide Fund for Nature (WWF), Wildlife Conservation Society (WCS), and Madagascar National Parks (MNP) received grants through this program, allowing the four entities to provide coordinated technical support to the creation and effective management of the Protected Area System of Madagascar (SAPM).

The MIARO program was organized into four Results Modules, each with sub-results modules and specific activities:

Results Module 1: Ecological linkages established and maintained

Results Module 2: Management Effectiveness for Protected Areas Management Improved

Results Module 3: National Park Network Activities Implemented

Results Module 4: Sustainable Financing Mechanisms Operational

This Performance Monitoring Report presents the indicators, targets, and achievements of MIARO throughout the life of the project. Specifically, it includes three types of indicators and achievements:

- **Operational Plan Indicators** – These indicators are standard indicators that USAID uses in reporting to Congress. Data are presented annually.
- **Impact Indicators** – These indicators track the impact of MIARO vis-à-vis its goals and objectives. Data are presented annually by Results Module.
- **Performance Indicators** – These indicators track the realizations of MIARO against activities. Data are presented annually by Sub-Results Module.

Overall, MIARO results were very positive:

- The Durban Vision aimed to triple the surface area of protected areas, bringing the total to 6 million hectares. Through the support provided under MIARO, we accomplished this goal with **6,305,490 hectares of protected areas**. In addition to the 1.7 million hectares that existed before MIARO began, we worked to establish 4,648,056 hectares broken down into the following:
 - 2,973,836 hectares with an individual temporary protection order for each site
 - 1,168,419 hectares with temporary protection under order No. 18,633/2008/MEFT/MEM
 - 505,488 hectares added to the national parks network managed by Madagascar National Parks
- MIARO supported the development of **23 new policies and laws**. This number is lower than the target because of the way in which site-specific protection status evolved over time. Targets were developed assuming that each new protected area would receive its own individual protection

order but in 2008, global temporary protection was granted to all the priority conservation areas. One law to highlight is the revision to the **Protected Areas Code (COAP) and its application decrees**, which allow for multiple protected area categories and governance types that conform to international IUCN standards.

- Due to MIARO's efforts, **100% of Madagascar's main habitats types are represented** in the Protected Areas System (see Annex 3).
- There are now 1,027,577 **hectares of protected areas in USAID priority zones**. These areas will ensure that unique and endemic biodiversity and essential ecosystem services are conserved in perpetuity for the global good and local human well-being.
- MIARO worked to raise money to ensure conservation is financed sustainably in the future. These efforts proved fruitful, as the **Foundation for Protected Areas and Biodiversity is now operational with a capital of \$16,681,378, and a further \$17,006,335 contractually committed and \$19,046,102 currently in negotiation** (the Foundation projects that it will have received over \$52 million in capital by 2012, exceeding its original \$50 million target). Despite the downturn in global markets the Foundation will still make its first grants in 2010 (estimated at \$300,000). Other non-traditional financing mechanisms were mobilized and developed. The Zoo Zurich is providing \$100,000 per year to support Masoala National Park. Most importantly perhaps is **carbon-related funding, which will ensure the core costs of CAZ and COFAV protected areas are covered in the foreseeable future**.

OPERATION PLAN INDICATORS - MIARO

Indicator	Description	Baseline (October 2006)	Value	2007 ¹	2008 ¹	2009 ¹
OP 199. Number of hectares in areas of biological significance under Improved Management as a result of USG assistance (not cumulative)	Total terrestrial surface area with protected area status in Madagascar Protected Area System (SAPM) and area of natural forest management plans.	1,672,258 Ha	Target	683,133	1,099,370	1,234,423
			Actual	734,956	183,424	383,511 ² (1,168,419)
New - Custom indicator: Number of hectares with definitive status in Madagascar SAPM (not cumulative)	Total area with definitive “Protected Area” status based on the SAPM definition of a “Protected Area,” which requires a management plan, governance structure, safeguard plan, and that the exact surface area of hectares under protection be final.	NA	Target	NA	283,076	1,353,326
			Actual	26,035	NA	1,002,162 ³
OP 201. Number of hectares in areas of biological significance showing improved biophysical conditions as a result of USG assistance	Number of hectares within PA where biophysical monitoring is showing stability, improvement or slowing of the rate of decline.	898,285 Ha	Target	332,541	NA ⁴	NA ⁴
			Actual	219,965	NA ⁴	NA ⁴
OP 202. Number of policies, laws, agreements or regulations promoting sustainable natural resource management and conservation that are implemented as a result of USG assistance (non cumulative)	Number of NRM agreements includes CBNRM contracts, SAPM decrees based on the protected areas code (COAP), legal orders based on forest policy (POLFOR) and transfer of management law (GELOSE)	20	Target	23	40	15
			Actual	14	2 ⁵	7 ⁵
OP 203. Number of people receiving USG supported training in natural resources management and/or biodiversity conservation as a result of USG assistance (Non cumulative) <ul style="list-style-type: none"> • Number of women • Number of men 	Number of people receiving USG supported in-country training events and workshops that focused on the transfer of knowledge on government policy, new legislation, technical methods of procedures, patrolling, fire management, PA management.	50 (W=10) (M=40)	Target	31 (W=8) (M=23)	170 (W=40) (M=130)	70 (W=28) (M=42)
			Actual	63 (W=20) (M=43)	162 (W=49) (M=113)	1,104 (W=192) (M=912)

¹ These results correspond to USAID’s fiscal year (October – September).

² 383,511 ha with individual temporary protection orders and an additional 1,168,419 ha with global temporary protection under order No. 18,633/2008/MEFT/MEM where promoters are working.

³ This indicator refers to sites with definitive gazettement though a decree signed by the President and Cabinet. In the current political situation the promoters and DSAP have held off requesting these decrees because:

- Although passed by the two houses of parliament, the new COAP was not promulgated prior to the coup d’état in March 2009. Since the new COAP law provides a better legal framework for new protected areas, it has been decided to wait until this law is promulgated before proceeding with the final gazettement of these new protected areas. Nevertheless, the work needed to submit the final request for a creation decree has been completed for several sites (Menabe Central, Analalava Forest, Anjozorobe-Angavo, Montagne des Français, Complexe Mahavavy-Kinkony, Makira, Ankodida, Nord Ifotaky, Ambatotsirongorongo, Tsingambarika and Ibity) and the SAPM commission has drafted a “model” creation decree for use once a democratically elected president is able to promulgate the law.
- Some activities have been temporarily delayed due to suspension of donor funding which means that promoters are having to search elsewhere to complete key steps in the creation process

⁴ This indicator was applied only for MNP protected areas. No data for this indicator was provided after MNP’s MIARO funding was terminated.

⁵ The original intent of the temporary protected orders/arrêtés was to make sure that each site received provisional protection status to ensure that mining and forestry permits were not given to each of these sites. However on October 17, 2008, a global temporary protection order/arrête was signed between MEF and MEM that provided this protection for all the sites, thus reducing the actual number achieved for this indicator.

IMPACT & RESULT MONITORING TABLE

RESULT MODULE 1: ECOLOGICAL LINKAGES WITHIN AND BETWEEN LANDSCAPES ESTABLISHED AND/OR MAINTAINED BY EXPANDING BIODIVERSITY HABITAT CONSERVATION

Indicators	Baseline	Details	Year 2005 ⁶	Year 2006 ⁶	Year 2007 ⁶	Year 2008 ⁶	Year 2009 ⁶
Representativeness of habitat in Madagascar Protected Area System (SAPM)	80%	Target	82%	88%	94%	100%	100%
		Actual	82.6% (38 habitats)	89,13% (41 habitats)	95.6% (44 habitats)	100% (46 habitats)	100% (46 habitats)
Milestones toward implementation of the GoM's goal of expanding protected areas to 6 million hectares (new areas protected each year)	1,688,564 Ha	Target	1,000,000 Additional	1,000,000 Additional	1,000,000 Additional	1,300,000 Additional	0
		Actual	945,289	726,969	918,067	383,511 ⁷ (1,168,419)	0
Extent of protected areas in USAID intervention areas	241,071Ha	Target	666,071	950,624	950,624	950,624	1,027,577
		Actual	425,000	959,409	959,409	1,027,577	1,027,577
Total area with protected status nationwide	1,688,564 Ha	Target	2,688,564	3,288,564	3,971,697	5,071,067	6,305,490
		Actual	2,633,853	3,360,822	4,278,889	4,662,400	6,336,307 ⁸

⁶ These results correspond to calendar years.

⁷ 383,511 ha with individual temporary protection orders and 1,168,419 ha with global protection under order No. 18,633/2008/MEFT/MEM

⁸ 1,688,564 hectares of previously-existing protected areas; 2,973,836 hectares with an individual temporary protection order for each site; 1,168,419 hectares with temporary protection under order No. 18,633/2008/MEFT/MEM; 505,488 hectares added to the national parks network managed by Madagascar National Parks

RESULT MODULE 2: MANAGEMENT EFFECTIVENESS FOR PROTECTED AREAS MANAGEMENT IMPROVED

Indicators	Baseline	Details	Year 2005 ⁶	Year 2006 ⁶	Year 2007 ⁶	Year 2008 ⁶	Year 2009 ⁶
General mgt. effectiveness index for protected areas management (%) ⁹	MNP: 45%	Target	MNP: 52%	MNP: 55%	MNP: 65%	MNP: 71%	NA ¹²
			NPA: 5%	NPA: 35%	NPA:40%	NPA: 45%	NA ¹²
	NPA: 0%	Actual	MNP: 57%	MNP: 58%	MNP: 64%	MNP: 67%	NA ¹⁰
			NPA: under protected area status	NPA: under protected status area	NPA: 0%	NPA: 41.79% ¹¹	NA ¹⁰

⁹ Both RM2 and RM3 contribute to the indicator “Management Effectiveness Index” and we have therefore retained this indicator in each of the RMs, but have not attempted to separate out the contribution of each of the RMs towards the indicator.

¹⁰ This information is only collected at the end of the calendar year.

¹¹ This is the average calculated for CAZ (51.09%), COFAV (39.58%) and Bongolava (34.72%), collected through stakeholder evaluation at each site during the management planning process.

RESULT MODULE 3: NATIONAL PARK NETWORK ACTIVITIES IMPLEMENTED

Indicators	Baseline	Details	Year 2005 ⁶	Year 2006 ⁶	Year 2007 ⁶	Year 2008 ⁶	Year 2009 ⁶
General mgt. effectiveness index for protected areas management (%) ¹²	MNP: 45%	Target	52%	55%	65%	71%	NA ¹³
		Actual	57%	58%	64%	67%	NA ¹³
Effectiveness of marketing plan: • Annual number of visitors within protected areas	98,056	Target	102,959	108,107	113,512	119,188	NA ¹³
		Actual	106,692	108,294	118,015	137,321	NA ¹³
• Annual revenue generated from entrance fees	532,144,730 Ar	Target	1,966,329,000 Ar	2,044,706,496 Ar	2,167,948,895 Ar	2,296,136,504 Ar	NA ¹³
		Actual	1,896,558,400 Ar	2,026,940,000 Ar	2,403,137,600 Ar	2,609,189,500 Ar	NA ¹³
• Partnership convention signed with private operator	0	Target	3	3	3	3	NA ¹³
		Actual	0	0	0	0 ¹⁴	NA ¹³

¹² Both RM2 and RM3 contribute to the indicator “Management Effectiveness Index” and we have therefore retained this indicator in each of the RMs, but have not attempted to separate out the contribution of each of the RMs towards the indicator.

¹³ In 2009, Madagascar National Parks was no longer involved in the MIARO program and so we have not reported on these statistics. Official data is also only available at the end of the year.

¹⁴ Note that conventions for 4 sites were being negotiated at the end of 2008 but are on hold due to the political crisis.

RESULT MODULE 4: SUSTAINABLE FINANCING MECHANISMS OPERATIONAL

Indicators	Baseline	Details	Year 2005	Year 2006	Year 2007	Year 2008	2009
Proportion of Tany Meva's 2004-2009 strategic plan objectives satisfied ¹⁵	\$400,000	Target	20%	40%	60%	80%	NA ¹⁶
		Actual	Increased annual foundation revenue generated 37% (\$547,241)	Increased annual foundation revenue generated 82% (\$727,899)	Increased annual foundation revenue generated 41% (\$562,726)	Increased annual foundation revenue generated 296% (\$1,584,484)	NA ¹⁶
Value of operational costs of protected areas covered by new financing mechanisms	\$100,000	Target	\$150,000	\$175,000	\$328,650	\$761,628	\$800,000
		Actual	\$624,003	\$286,810	\$620,210	\$1,222,808	\$822,380
Total Trust fund capital (capital raised and revenue reinvested)	\$0	Target	\$0	\$16,560,275	\$20,891,481	\$26,341,287	\$26,341,287
		Actual	Data not available	\$5,006,684	\$10,006,684	\$14,778,046	\$16,681,378 (\$33,687,713 ¹⁷)
Trust fund capital donated by MIARO members (CI, WWF)	\$0	Target	\$0	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
		Actual	Data not available	\$1,041,334	\$2,041,334	\$2,041,334	\$2,041,334

¹⁵ Tany Meva's objectives focus on increasing ecological and socio-economic impacts of the funded community-level activities, diversifying and increasing revenue sources, and developing the professional management of the organization. The strategies for achieving these impacts are: better integration with national, regional and local priorities; having a thematic focus; having a specific geographic focus; capacity building of target groups; promotion of partnerships; development of alliances with other environmental organizations; and internal restructuring. Specific details of objectives are in Tany Meva's Strategic Plan (2004-2009).

¹⁶ Support to Tany Meva was no longer part of the extension during 2009 and so we have not reported on this indicator.

¹⁷ Total contractual commitments to the Foundation total \$33,687,713.

PERFORMANCE INDICATORS - As of August 31, 2009 (using calendar year)

Result Module 1: Ecological linkages within and between landscapes established and/or maintained by expanding biodiversity habitat conservation

Sub RM Activities	Performance Indicator	2005		2006		2007		2008		2009	
		Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
1.1 Promote the definition of policy and legal parameters for the establishment of new protected areas	Categories and management options of new protected areas which form the “systeme d’aires protégées” implemented	Document on categories and governance available and appropriated at regional and local level	A Document “Système d’Aires protégées de Madagascar : Orientations générales sur les catégories et les types de gouvernance » available and need to be affined based on the experiences at regional and local level	Categories and governance of New Protected Areas created on 2005 determined	“Document d’orientation” finalized and distributed to stakeholders at national, regional and local level	Category and governance of at least 10 New Protected Areas determined	Documents and tools for the identification of management goals and governance of New Protected Areas available to site promoters	Category and governance of at least 5 new protected areas determined	The trend of the category and governance of the new protected areas is determined	MPA creation documents	“Document d’orientation” and “Manuel de procedure for Marine protected areas finalized and validated
			- Elaboration of guidelines on governance underway		Stakeholder participation in the discussion of categories and governance structures underway for 17 new Protected Areas and proposed structures drafted		1 practical guide for MPA establishment				
			- Determination of standard/criteria/instruction of sustainable use underway								

		Communication tools, tools for the identification of management goals and governance of new protected areas available							Folder on SAPM tools and documents compiled and distributed	Documents and tools on SAPM assembled in one folder and distributed to stakeholders
Definitive "Decret de creation" for the "systeme d'aires protégées de Madagascar" promulgated	"Decret de creation du SAPM" presented and at least 1 million ha of new protected areas have temporary protection status	Decree on the creation of new protected areas based on the COAP promulgated	1 million ha of new protected areas have definitive status	1, 090,219 ha have temporary protection status	1 million ha of new Protected Areas have definitive status	26,034 ha has definitive status;	1,3 million ha of new protected areas have definitive status	- The amended COAP law is adopted by the Senate and the Assembly		
						2,381,211 86 have temporary status		The "decrets d'application" are being developed		
		Instead of temporary status, the term " Arrêté de mise en protection temporaire" was used for 1, 049,000 ha of forests	Additional 1 million ha of new protected areas have temporary protection status	Creation process of the 1,049,254 Ha underway					- Inter-ministerial executive order MEFT/MEM 18633 promulgated to secure protected areas in creation process and potential sites	

1.2. Identify and promote potential new protected areas in consultation with regional and local actors	Map of urgent conservation priority available and validated by stakeholders (regional and local level)	2 corridors, 1 region, 1 province	Scientific workshop held at Zahamena-Ankeniheny corridor and Ranomafana-Andringitra- Ivohibe corridor and map of urgent conservation priority available; Potential sites identified at Anosy Region	At least 4 terrestrial sites and wetlands	1 corridor: Bongolava	At least 4 terrestrial sites, marine/ZH	Biodiversity conservation priority identified and validated by stakeholders in Ankeniheny-Zahamena Corridor, Fandriana-Vondrozo Corridor, Anosy Region, and other terrestrial and wetland sites	At least 2 terrestrial sites, marine/ZH	The “ schema global d’aménagement” of the following new protected areas are available and validated by stakeholders: Ambodivahibe, Orangea, Anadabolava		
	Stakeholders at provincial, regional and local level well informed on “Système d’Aires Protégées de Madagascar” and “land use planning”	6 provinces, regions, communes	“Atelier d’information et de planification pour la mise en oeuvre de la Vision Durban” held at the 6 provinces which are composed by several regions and also at Anosy Region	Regions, communes	9 regions, 13 communes rurales - The « Arrêté interministériel extending the prohibition of new mining and new forest exploitation permits was signed by the Minister of Environment, water and Forests and the Minister of Energy and Mining	Regions, communes	Stakeholders, at regional and commune level, involved to the creation of the 22 new Protected Areas informed on “SAPM” and “land use planning”	Regions, communes	A communication on SAPM was organized for the Region of Vakinankaratra, the Region of DIANA (Ambodivahibe and Orangea), in Anosy, Itremo, Melaky, Sofia and for CAZ and COFAV regions	Promoters of New Protected Areas	Communication tools (guides, film) developed and distributed to promoters Communication campaigns held to complement the development of tools on management, governance and sustainable use of natural resources

Priority site list (terrestrial, marine and freshwater) improved for all Madagascar by using appropriate analytical tools for planning and database of key biodiversity	First list of priority sites available	Terrestrial: List proposed by priority setting group and regions available but need to be improved during the next 2 years	Results of prioritization at national level communicated	A new map of priority sites available based on the analysis of threatened species data. This map is annexed to the "arrêté interministeriel" N° 17914	List of additional sites available	Map and list of terrestrial priority sites available and annexed to the " Arrête interministeriel" N° 17914		The map of priority sites for the creation of new protected areas is validated and annexed to the inter-ministerial executive order MEFT/MEM 18633		
		Marine and freshwater: List of priority sites available						MPA: Coral fish data base updated		
Media reporting conducted for all new Protected Areas created					At least 1 film on new Protected Areas established	1 film produced and used for CAZ. A second film was produced and will be shown on TV in early 2008	At least 1 film on new protected areas established	3 films on SAPM were produced and one reportage by radio and television		
Communication plans at regional and national level available and operational	"Relais en communication" in place in 4 provinces and 1 region	"Relais de communication" created in Anosy region, Fianarantsoa et Toamasina	"Relais en communication" in place in 2 provinces				1 basis of communication on System of protected areas updated	1 Capitalisation workshop on communication organized		
	"Schema de communication" elaborated for 2 provinces et 1 region (Priority ecoregions)	"Schema de communication" elaborated for Anosy region, Fianarantsoa, Toamasina	"Schema de communication" elaborated for 4 provinces							
			"Schema et plan de communication" implemented for the priority ecoregions							

	Reportage conducted for all new protected area created	3 films	2 films: SAPM Fianarantsoa, Makira project	3 films (Zahamena, Anjozorobe, Makira)	1 film on Makira produced						
	Elaborating and updating of key messages			1 document to communicate the System of Protected Areas updated							
	Training and information for different vectors of communication on new protect areas system	4 training or workshops	1 training for journalists in Fianar		3 training or workshops in new protected areas	2 trainings held for Makira; 1 for Ambatotsirongorongo	3 training or workshops in new Protected Areas	Training session provided for communication teams in CAZ, COFAV, Mangoky-Ihotry, Ramena and Bongolava	3 training or workshops in new protected areas	2 trainings completed with journalists	
			Participation of communication group to 6 regional workshops on SAPM								
	General awareness raising on new protected areas creation conducted at different levels (National, Regional and Local)	1 poster			1 poster				1 poster	Leaflet completed and distributed in English and French	
		1 leaflet		1 book resuming the Durban Vision achievement	1 leaflet				1 leaflet		

								Support through Conservation Action Grants for the following sites: Tsimembo, Manambolomaty, Tambohorano, Bemanevika, ibity, Analalava Foulpointe, Angavo, Bombetoka		
Capacity needs for the management of new protected areas identified	0	0	New Protected Areas created on 2005 and 2006		At least 5 terrestrial sites, marine/ZH	Training needs identified through discussions of potential governance structures at 17 sites	At least 4 terrestrial sites, marine/ZH	The framework of assessment of the management was applied for some new protected areas, even if they had not already the finally status of protection	At least 4 terrestrial sites, marine/ZH	
Guide for "new protected areas" creation and management elaborated and available	Guide elaborated	Draft of guide for new protected areas creation available	Guide implemented	Guide for new protected areas creation finalized by Commission SAPM	Guides implemented	Guides elaborated and distributed	Guide implemented	The folder of tools for "new protected areas" creation and management elaborated and available	Guide implemented	Guide distributed

1.4. Refine conservation priorities in USAID priority eco-regions

Vision of biodiversity conservation available and biodiversity conservation priorities validated through the process of consultation with local partners

	2 corridors, 1 region	Consultation and negotiation at district level for Zahamena-Ankeniheny corridor						Public consultations completed for CAZ and still ongoing for COFAV		
		“Campagne de sensibilisation” at « groupe de commune » for Ranomafana-Andringitra- ivohibe								
		Consultation and negotiation at communal level for the 5 sites in Anosy Region								
Plan de gestion of corridor elaborated and implemented	0	0	Management Plan developed and validated for 1 corridor	A workshop was organized on October 9th and 10th in Foulpointe to discuss the tools that the local and regional staff are going to use for the consultation at communal level within the Ankeniheny-Zahamena Corridor. The consultation will begin on January 2007.	Management Plan implemented for 2 corridors and 1 region	Tools for the consultations at communes level available	Development of CAZ and COFAV management plans	- Management Plan for CAZ being finalized	Management plan for CAZ finalized	Management plan for CAZ finalized
							Governance structure defined for CAZ and COFAV	- Category and Governance structure identified for CAZ	Management plan for COFAV finalized	Management plan for COFAV developed

								- ToR for EIA/safeguard plan submitted to MEFT	Management plan for Ambatotsirongorongo finalized	Management plan and safeguard for Ambatotsirongorongo finalized
New protected areas in USAID priority ecoregions created	0	0	1 corridor and sites in Anosy region	Fandriana- Vondrozo Corridor has the temporary status of protection	1 corridor	2 corridors	Definitive decree for new PA promulgated	- The preparation of the Decree of creation is in progress for the following new protected areas in USAID priority ecoregions: CAZ, Kodida, Ifotaky, Ambatotsirongorongo		
							Public consultations completed in CAZ	Public consultations completed for CAZ	Public consultations completed in COFAV	Public consultations completed for 48 communes in COFAV
Capacity needs for the management of new protected areas identified	0	0	2 corridors, Anosy region							

1.5. Develop forest restoration functions and procedures in USAID priority eco-regions	Forest restoration strategy established	1 improved strategy	0	1 strategy refined and adopted		1 Strategy integrated in "strategie de reboisement" of DGEF	National workshop on Restoration provided elements for the strategy and exchange of experiences between practitioners	National Strategy on Forest Restoration	Logical framework of the strategy defined		
	Action plans developed in pilot zones	Action plans of Ambohilero	0	TBD	Training of 7 Facilitating Agents- More than 3,020 ha of CDM eligible land identified	100 hectares planted with native species	Restoration activities in Didy, and Fandriana-Marolambo landscape	Restoration activities carried out in Ambohilero	Forest restoration activities continued in Ambohilero		
					455,000 young trees ready to plant in 20 nurseries-		Ecological restoration carried out in Didy forest in collaboration with a local association called "Avotr'Ala"	Lessons learned for Antongil Bay restoration program	Evaluation and recommendations of Antongil Bay forest restoration program		
					Soil protection system set up in tenth of the degraded land		restoration with TAMS' project in Mantadia	Restoration activities carried out in Mantadia	restoration with TAMS' project in Mantadia	1 technical tool for restoration practitioners	1 Seedling guide for Eastern rainforest species
	A network of forest restoration practitioners established	Census of restoration implementers	0			1 Workshop at the national level	1 practitioner's workshop organized	1 Workshop at the national level	1 practitioner's workshop organized	Restoration strategy developed with DGEF	Elements for a restoration strategy shared with the DGEF
Number of field exchange between practitioner's	0	0	4					2 exchanges organized			

1.6. Development of policy and an appropriate legal framework for PA	Communication tools such as booklets, presentations, posters, designed for local communities developed and distributed									Communication tools such as booklets, presentations, posters, designed for local communities developed and distributed	500 copies of a booklet on SAPM produced and distributed to promoters and PA managers; 1 film on SAPM produced; 100 copies of a guide for radio emissions produced and distributed
	Communication campaign organized for key partners in Anosy Region and Diana									2 Communication campaigns organized for key partners	1 training for local communicators and local communities organized in CAZ, 1 in COFAV and 1 in Diego
1.7. Finalization of the creation of new protected areas in USAID selected zones	Local management units mapped and potential managers defined									Management structure operational for CAZ and COFAV	108 management units defined for CAZ, 33 identified for COFAV in 2 regions; CAZ and COFAV governance structure designed

1.8. Expansion of marine protected areas (MPA)	PAGS for TG finalized, cahier de charge developed								PAGS for 8 TG finalized and implemented	Local management plans for "transfert de gestion" were developed with 8 communities at Didy within CAZ
	training and capacity building plan								Capacity building plan developed for Federations in CAZ and COFAV	Capacity building needs identified for 6 federations of COBA in CAZ governance structure
	Best practice methodologies presented to local community associations, regional partners, promoters.								1 workshop	1 regional workshop held in Toliara

<p>Process for establishment of eleven (marine reserves will be completed up through the process of participatory zonation – including ‘controlled take’ and ‘no-take’ zones for all 11 reserves. Establishment of 5 reserve marines – formalization of the ‘Dina’, and formal ceremony of reserve establishment.</p>										<p>11 marine reserves identified; 5 marine reserves created</p>	<p>11 marine reserves identified in Toliara area, 3 marine reserves created in St Augustin, 2 marine reserves created in Manombo</p>	

Result Module 2: Management effectiveness for conservation areas improved

Sub RM Activities	Performance Indicator	2005		2006		2007		2008		2009	
		Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
2.1. Develop and/or refine conservation management plans and other thematic plans for protected areas.	Number of PAs with updated plans completed	6	33 drafts	30 management units (48 PAs)	30 management units	All 30 Madagascar National Parks management units	All 30 management unit plans for Madagascar National Parks are improved and updated. In addition, advanced draft plans for 4 New Protected Areas: Ifotaka, Ankodida, Menabe Central and PK 32 Ranobe	Guide for protected area management developed	1 Guide for protected area management developed for the overall SAPM		
								Evaluation system in place for SAPM	- Management effectiveness evaluation system for SAPM proposed to DSAP	1 national workshop on management plan development	3 Training sessions on Management plan development and evaluation system for SAPM held
								All 30 Madagascar National Parks management units and new protected areas	30 MNP management units + 11 NPAs that have final drafts (validated at local levels) or advanced drafts. Total = 41 plans		

2.2. Improve and fully implement annual programmatic work plans for protected areas	Number of PAs with monitoring and evaluation systems in place	0	0	30 management units (48 PAs)	30 management units updated annual workplans	All 30 Madagascar National Parks management units	All 30 Madagascar National Parks sites implement management plans through programmatic work plans (annual and quarterly workplans)	Training for new sites in management plan development methodologies	- Training and Support to NPA for developing management plan and using Miradi tool: Corridor Ankeniheny-Zahamena, Nord Ifotaky, Kodida, Ambatotsirongoron go, Menabe Central, Corridor forestier Bongolava, Montagne des Francais		
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2.3. Develop an appropriate system of business plans and marketing programs for protected areas	Number of PAs with business plans	6	33 plans in preparation	30 management units (48PAs)	9 management units	All 30 Madagascar National Parks management units	Methodology and training sessions were provided to all management units of Madagascar National Parks. Key Parks (9) have developed their business plans		Template for BP drafted	Manual, template for Business Plan developed for new protected areas
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<p>2.4. System wide promotion and utilization of PA management land evaluation tools</p>	<p>PA management plans finalized for four priority sites.</p>												<p>4 PA management plans developed</p>	<p>3 PA management plans finalized (Mahavavy-Kinkony, Bemanenika and Nosivolo) including identification of natural resource valorization scheme and/or income generated activities for local communities</p>
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Result Module 3: National Park Network Activities Implemented

Sub RM Activities	Performance Indicator	2005		2006		2007		2008		2009	
		Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
3.1.1. Implement financial planning and management system	Non significant difference between Plan Budget and financial report	15	15 personnes bénéficiant de la formation TECPRO-TOMPRO	5							
3.1.2. Redefine staff terms of reference based on result-based planning	Number of staff term of reference redefined	1	1	1							
3.1.4. Develop and implement regular test audits of financial and conservation performance	Number of audit in financial and technical matters perform	5	External: 0/ Internal: 1	7							
3.1.5 Setup and run EP3 general communication system through ANGAP network	Number of financial and technical reports that can be integrated in other EP3 partner reports	1	1	2							

Result Module 4: Sustainable Financing Mechanisms Mobilized and Operational

Sub RM Activities	Performance Indicator	2005		2006		2007		2008		2009	
		Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
4.1. Expand and develop management capacity of Malagasy Environmental Trust Funds/Foundations	Increased investments in and conservation impacts of Tany Meva and of the Madagascar Biodiversity and Protected Areas Trust Fund	TM: new grant opportunities identified and funding acquired	TM identified new project areas and funds disbursed MBPATF created with Board and new Executive Director and team	MBPATF: working documents elaborated, fundraising performed	Grants manual developed Fundraising documents elaborated and sent to GEF	Sustainable use and conservation programs funded and operational in two "sites de conservation"	Tany Meva Board restructured with new legal documents	Additional funds mobilized to support models for managing additional "sites de conservation"	TM: Strategic plan is being developed with a consultant	Tany Meva strategic Plan finalized	Tany Meva 5 years strategic plan developed and approved by the board
		MBPATF: Foundation formally created and set up		TM: further grants acquired, more activities underway			Greater focus on Protected Area management by working with communities: Funding received from MacArthur Foundation (2nd grant)		TM: Training workshop on Plan Vivo	MFPAB: Communication and marketing tools	
							Carbon financing options		MFPAB: Increase of capital secured through the C2D agreement		

							MFAPB has finalized by-laws and statutes, developed a grants manual and fundraising documents including website Further, in 2007 they signed a grant convention with ANGAP and have begun providing financial support to 5 Protected Areas: Marojeiy, Andringitra, Ankarafantsika, Andranomena/Kirindy and Tsimanampetsotsa		MFPAB: First draft of Prioritization Plan, Strategic Plan and Communication Document developed		MFPAB: Marketing kit and communication strategy developed
4.2. Build on efforts made and cooperate with other EP3 actors to mobilize potential sources of income for forest habitat conservation and for the système des aires protégées (outside ANGAP parks)	Increased revenues for forest habitat conservation, from diverse sources and financing mechanisms	One new operational mechanism by the end of 2005	On target Makira Forest carbon trading going forward New Bio-Carbon fund project started in Mantadia-Zahamena	Three sustainable financing mechanisms in place by the end of the year (including Makira carbon fund)	\$200 000 Carbon financing for Makira	One additional mechanism in place and operational by the end of the year	Draft of second phase of Makira carbon marketing (GoM, WCS, CI) of 100,000 tons CO2e (estimated \$700,000 until June 2009)	One additional mechanism in place and operational by the end of the year	Support to the newly created SPF through the hire of an expert in sustainable financing consultant	One additional mechanism in place and operational by the end of the year	REDD CAZ and COFAV: Baseline carbon measurement completed
					Carbon financing for CAZ habitat restoration in place		Finalizing contract between GoM and WCS for marketing and sale of remaining 9.1 million tons of Makira Protected Area CO2		Capacity building for the SPF staff		
					\$100 000 Zoo donations for PA management				Development of the sustainable financing concept within the SWAP process Support coordination for carbon projects		

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PES study in selected sites around Fianarantsoa	
PES workshop held	
Test of the PA BAT Tool	
Pre-evaluation of the Makira carbon project by SmartWood	
Signing of agreement between the GOM for the sale of up to 9 million tons of CO2	
Negotiation of an upfront of \$300,00 for the CAZ avoided deforestation upon the achievement of the payment conditionality	
Carbon Monitoring methodology developed with Winrock	
Carbon baseline measurement completed for CAZ	
First draft of the PDD/REDD for CAZ submitted	
Carbon REDD strategy developed with the GOM	
Signing of the C2D agreement for an amount of €26M dedicated to environment	

								sector		
								Air transport surcharge assessments carried out		
4.3. Stimulate investment for biodiversity conservation	Increased private sector investment in environmental conservation	Mechanisms for long term funding from Zoo Zurich to Masoala National Park established	On target Friends of Masoala association established in Switzerland and funds from Zoo Zurich currently contributing \$100 000/year to Masoala NP	Two feasibility studies/business plans related to conservation/ecotourism businesses completed	Business plans developed for ecotourism investment at two potential ecotourism concession sites (Nosy Mangabe and Andohahela)	One conservation/ecotourism-related business operational and two additional feasibility studies completed	Policy letter for ecotourism concessions in Protected Areas completed	Two additional conservation/ecotourism-related businesses operational	Renewal of agreement between GOM and the Zoo Zurich	
							Validation of MOU between CI, WCS, IFC to develop concession program that will increase ecotourism investments		Engagement of ODER to manages organic cotton production	
							Program efforts explored with private sector to tap into Madagascar's natural capital (wild silk, raffia, and other products)		Organization of the MusicWood Tour	

							Launched new investment opportunity linking conservation and agriculture with emphasis on cotton owing to market demand for organic cotton		Concession framework policy validated and pilot site selected		
4.4. Expand the carbon credits including credits for avoided deforestation	8 community microprojects designed. These will be funded by REDD revenues in CAZ and COFAV									8 micro projects designed to be funded by REDD	Data collection for 8 microprojects desing documents in Didy (CAZ)
	An options framework for biodiversity offsets is developed that provides GOM and sectorial stakeholders with a clear understanding process, approach and policy implications									1 National workshop on BBOP	1 meeting with BBOP stakeholders (without government members) organized

ANNEX 1: INDICATOR DESCRIPTION

RESULT MODULE 1: ECOLOGICAL LINKAGES WITHIN AND BETWEEN LANDSCAPES ESTABLISHED AND/OR MAINTAINED BY EXPANDING BIODIVERSITY HABITAT CONSERVATION

Indicators	Description	Unit of Measurement	Frequency	Data Source	Methodology	Scale	Type
Representativeness (%) of habitat in Madagascar protected area system (IR2)	This indicator reports the percentage of identified terrestrial habitats and wetlands (n=46) represented in the protected areas system	% (number of types of habitats covered/number of national types)	Annual	CI	Nb habitats in PA/nb existing habitats in Mcar x 100	End of EP3	Impact indicator
Milestones toward implementation of the GoM's goal of expanding protected areas to 6 million hectares	Tracks the support provided by USAID to the process of expanding protected areas in Madagascar against the following milestones: <ol style="list-style-type: none"> 1) Prioritization of areas to bring into system 2) Integration of areas into regional zoning 3) Validation of potential sites by regional and local stakeholders 4) Definition of legal and operational modalities to create new protected areas 5) Creation of protected areas through decree 	Areas (measured in hectares) that have passed through all milestones	Annual	MIARO, JARIALA, CI, WWF, WCS Information will be gathered via project tracking reports and Durban Vision Group reports	Data collection and superficies calculation	End of EP3	Areas (measured in hectares) that have passed through all milestones
Extent of protected areas in USAID intervention areas	Cumulative of new protected areas' extent within the three USAID ecoregions: Anosy, Zahamena- Ankeniheny, Ranomafana- Andringitra-Ivohibe	Areas (measured in hectares)	Annual	MIARO, JARIALA CI, WWF, WCS	Data collection and superficies calculation	End of EP3	Impact indicator

RESULT MODULE 2: MANAGEMENT EFFECTIVENESS FOR PROTECTED AREAS MANAGEMENT IMPROVED

Indicators	Description	Unit of Measurement	Frequency	Data Source	Method of Data Collection	Scale	Type
Index of management Effectiveness indicator (WCPA) protected areas managed by ANGAP	An internationally used WCPA-based management effectiveness indicator focusing on context, planning, allocation of resources, management actions and outputs	%	Annual	ANGAP	Survey and ANGAP HQ/DIR evaluation of sites Detailed methodology available at http://lnweb18.worldbank.org/.../\$FILE/PATrackingToolJune2003.pdf	National	Miaro
Index of management Effectiveness indicator (WCPA) for protected areas managed by organisations other than ANGAP	as above	%	Annual	Initially Miaro organized assessment – to be integrated into Eaux et Forêts later	DGEF ou Responsable du Site supported by Miaro	National	Miaro
Revenues other than entry fees (Recettes annexes) generated at ANGAP sites	Revenues other than entry fees as reported from ANGAP sites linked with the Business Plan (e.g. Camping fees, Souvenirs, Tourism concession, etc.)	\$	Annual	ANGAP	Financial accounts	National	Miaro

RESULT MODULE 3: NATIONAL PARK NETWORK ACTIVITIES IMPLEMENTED

Indicators	Description	Unit of Measurement	Frequency	Data Source	Method of Data Collection	Scale	Type
Management Effectiveness indicator (WCPA) for protected areas managed by ANGAP network	Methodology: TNC 5S	%	Annual	ANGAP	Survey and ANGAP HQ/DIR evaluation of sites	National	MIARO
Effectiveness of marketing plan: Annual number of visitors within protected areas	Calculation of the number of the visitors within parks in the category A and B	Number	Annual	ANGAP	Data collected from sites	National	MIARO
Annual revenue generated from entrance fees	Revenue generated by the number of entrance within parks in the category A and B	Ariary	Annual	ANGAP	Data collected from sites	National	MIARO

RESULT MODULE 4: SUSTAINABLE FINANCING MECHANISMS OPERATIONAL

Indicators	Description	Unit of Measurement	Frequency	Data Source	Method of Data Collection	Scale	Type
Proportion of Tany Meva's 2004-2009 strategic plan objectives satisfied	% of strategic objectives achieved	%	Annual	Tany Meva annual report	Tany Meva annual report by WCS	National	Miaro
Total Annual Value of operational costs of protected areas covered by new financing	Total revenues generated from the listed mechanisms	\$	Annual	Various- see subcategory indicators below	Compiled from financial reports	National	Miaro & EP3
Total Annual Trust Fund revenue available for PAs	Revenues from trust fund used for protected area operations	\$	Annual	Trust Fund financial report	Compiled from financial reports	National	Miaro
Annual Carbon offset revenue (\$)	Revenues generated from on- and off- market carbon	\$	Annual	Financial reports from operators receiving carbon funding	Compiled from financial reports	National	Miaro
Annual Revenues other than entrance fees generated at the protected areas	Revenues generated from tourism activities, excluding entrance fees (Eg. Concessions, ecoshops, campsites)	\$	Annual	ANGAP annual financial report	Compiled from financial reports	National	ANGAP & Miaro
Other revenues (\$) (Zoo-based revenues)	Revenues generated from other long-term sources (Eg. Ongoing fund-raising at zoo Madagascar exhibits)	\$	Annual	Financial reports of operators handling donated funds	Compiled from financial reports	National	Miaro
Trust fund capital (capital raised and revenue reinvested)	Capital in the biodiversity trust fund	\$	Annual	Annual financial report of the Fund managers	Compiled from financial reports	National	EP3 & Miaro
Trust fund capital donated by MIARO members	Capital in the biodiversity trust fund, that was donated by Miaro implementing partners	\$	Annual	Annual financial report of the Fund managers	Compiled from financial reports	National	EP3 & Miaro

ANNEX 2: LIST OF NEW PROTECTED AREAS CREATED

YEAR 2005

Sites	Area (Ha)	MIARO duties	
		1 st manager/operator	Technical & Financial support
Loky- Manambato	70,837	FANAMBY	Legal Text
Makira	371,217	WCS	Legal Text
Corridor forestier Zahamena – Ankeniheny	425,000	CI/MIARO	Technical support and legal text
Iles Radama/Sahamalaza	26,035	Madagascar National Parks	
Couloir forestier d'Anjozorobe Angavo	52,200	FANAMBY	Legal text
TOTAL	945, 289		

YEAR 2006

Sites	Area (Ha)	MIARO duties	
		1 st manager/operator	Technical & Financial support
1. USAID Ecoregions			
Nord Ifotaka	22, 256	WWF	Technical support, legal text
Kodida	10,744	WWF	Technical support, legal text
Ambatotsirongorongo	834	WCS	Technical support, legal text
Sainte Luce	747	QMM	Technical support, legal text
Mandena	230	QMM	Technical support, legal text
Ranomafana- Andringitra- Ivohibe	499,598	CI/MIARO	Technical support and Legal text
TOTAL	534,409		
2. Other regions			
Menabe Central	125,000	FANAMBY	Technical support, Legal text
Analalava forêt, Foulpointe	204	MBG	Legal text
Bongolava	60,589	CI	Technical support, legal text
Tampolo	675	ESSA- FORET	Legal text
Montagne des Français	6,092	SAGE	Technical support, legal text
TOTAL	192,560		

YEAR 2007

Sites	Area (Ha)	MIARO duties	
		1 st manager/operator	Technical & Financial support
Complexe Andreba	32	WCS	Legal text
Amoron'ny Onilahy	52,582	WWF	Legal text
Complexe Mahavavy- Kinkony	268,236	ASITY MADAGASIKARA	Technical support, legal text
Lac Alaotra	42,478	DURRELL	Legal text
Mikea	371,340	WWF	Legal text
Allee des Baobabs	320	Fanamby	Legal text
Archipel Nosy Hara	183,111	MADAGASCAR NATIONAL PARKS	Legal Text
TOTAL	918,099		

YEAR 2008

Sites	Area (Ha)	MIARO duties	
		1 st manager/operator	Technical & Financial support
Terrestres			
Ranobe PK32	77,851	WWF	Legal text
Ibity	5,700	MBG	Technical support, legal text
Tsitongambarika	68,168	ASITY MADAGASIKARA	Technical support, legal text
Ambalabe	3,117	MBG	Legal text
Complexe Tsimembo- Manambolomaty	14,701	The Peregrine fund	Technical support, legal text
Complexe Mangoky-Ihotry	213,661	ASITY MADAGASIKARA	Legal text
Nosy Tanikely	313		Legal text
TOTAL	383,511		

ANNEX 3: LIST OF HABITATS CLASSIFICATION FOR MALAGASY PROTECTED AREAS

No.	Ecoregions ¹⁸	Categories of habitats	Proposed name of habitats
01	EAST	Forêt littorale orientale	Forêt littorale orientale
02		Forêt dense humide	Forêt dense humide sempervirente 0- 400m
03			Forêt dense humide sempervirente 400- 800m
04			Forêt dense humide sempervirente 800- 1200m
05			Forêt dense humide sempervirente 1200- 1600m
06			Forêt dense humide sempervirente +1600m
07			Forêt dense sclérophylle de moyenne altitude et forêts claires sclérophylles de moyenne altitude
08			Forêt dense sclérophylle de montagne
09			Fourrés sclérophylles de montagne
10			Forêt de Bamboo
11			Forêt rupicole
12	HIGH MOUNTAIN	Haute Montagne	Forêt 2000- 2400m
13			Forêt 2400- 2800m
14		Zones de transition	Forêt transition Sambirano
15			Forêt transition Ranopiso
16			Forêt transition Analavelona
17			Forêt transition Daraina
18			Forêt transition Haut plateau
19	WEST	Forêt dense sèche série à <i>Dalbergia</i> , <i>Commiphora</i> et <i>Hildegardia</i>	Forêt dense sèche sur sol arénacé côtier
20			Forêt dense sèche sur sol arénacé intérieur
21			Forêt dense sèche sur sol argileux
22			Forêt dense sèche sur sol alluvionnaire
23			Forêt dense sèche sur plateaux calcaires
24			Forêts ripicoles

¹⁸ Reference PlanGRAP

25	SOUTH	Forêt et fourrés épineuses	Forêt caducifoliée/épineuse	
26			Fourré à Didierea	
27			Fourré côtier sur dune	
28			Fourré calcaire	
29			Forêt caducifoliée sur latérite	
30			Fourré sur latérite	
31			Fourré transition Mandrare	
32			Forêt galerie	
33			Zones humides	Marécages en forêt humide
34				Marécages en forêt sèche
35				Prairie marécageuse
36				Roseaux
37		Raphières		
38		Marécages côtiers		
39		Lac littoral chimique		
40		Lac littoral saumâtre		
41		Lac tectonique et volcanique		
42		Rivière et fleuve		
43		Savanes et zones ouvertes	Prairies altimontanes savanes et/ou pseudosteppes avec éléments ligneux	
44			Milieu ouvert (savane, prairie, tout habitat sans formation ligneuse sauf dunes et savane naturelle)	
45			Savane naturelle	
46			Bambou sur substrat ferallitique	