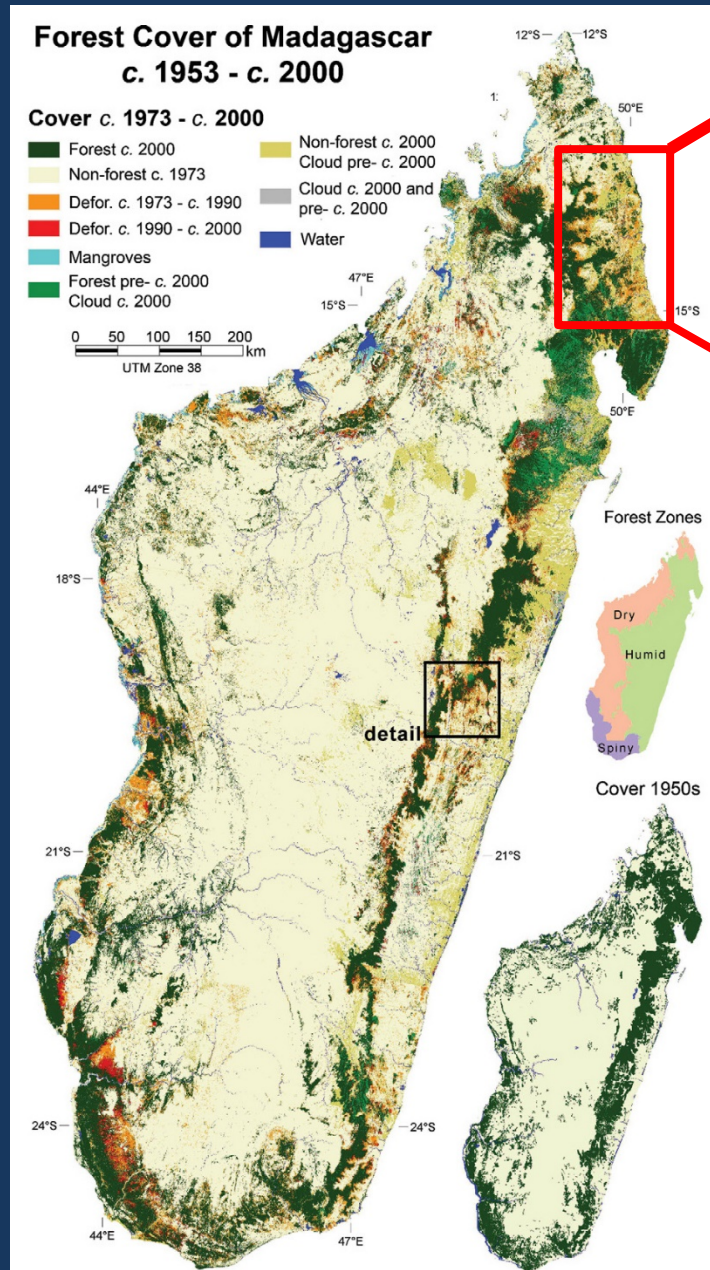


Conservation of Anjanaharibe-Sud Special Reserve (ASSR)

Erik R. Patel



Northeastern Madagascar
Contains
Most of the Islands'
Remaining Rainforests

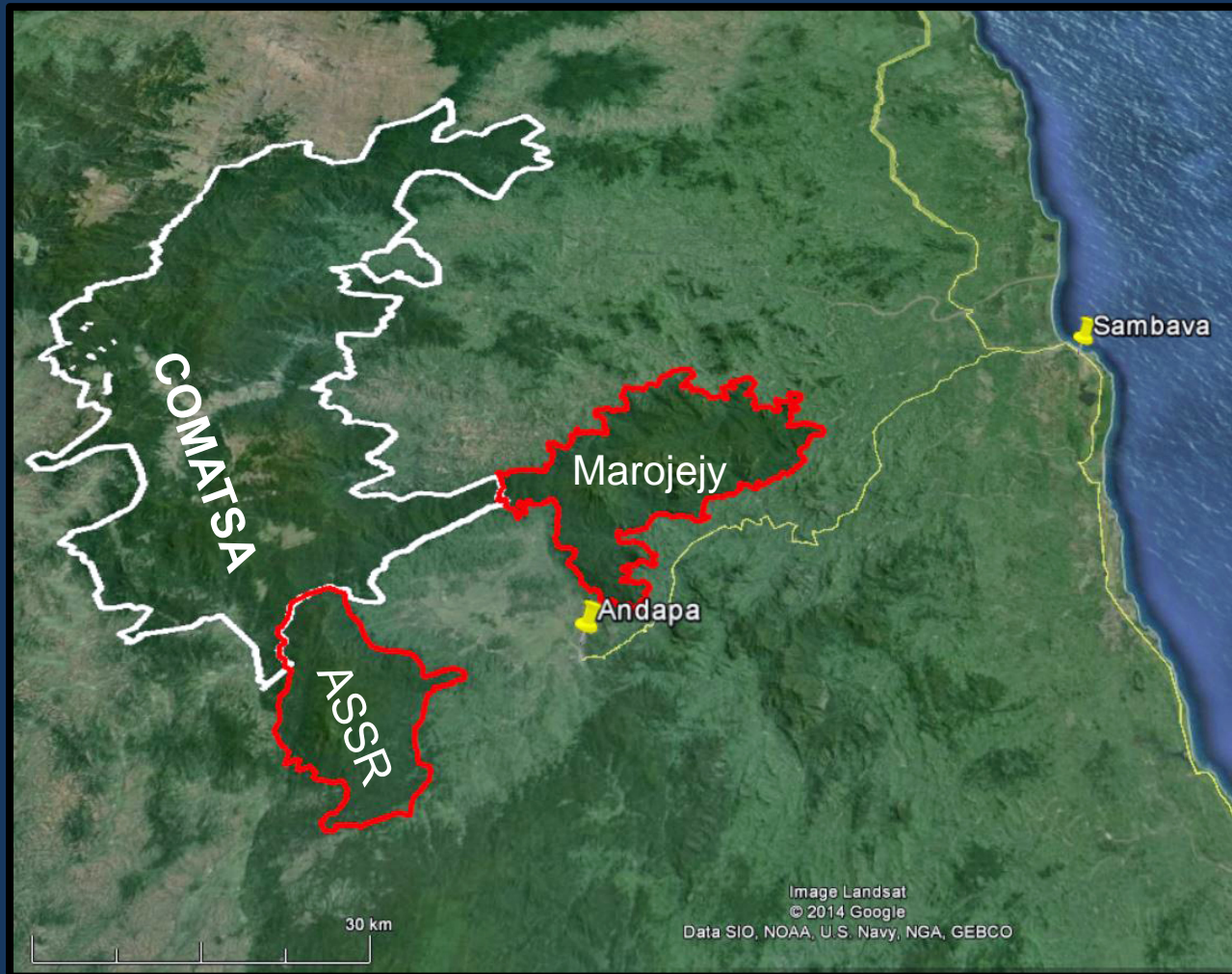


S ambava
A ndapa
V ohemar
A ntalaha

Three Major Protected Areas in SAVA:

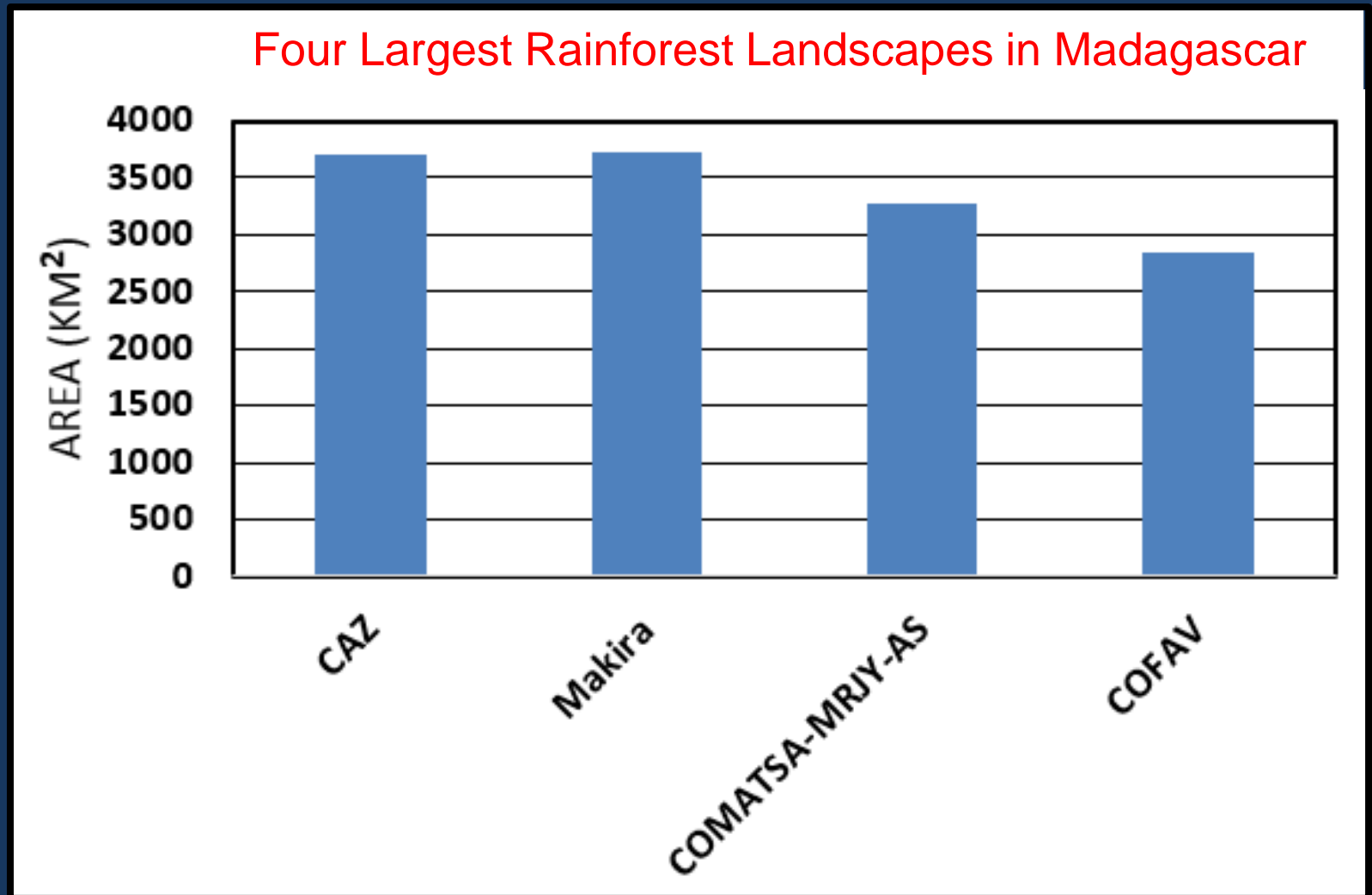
MNP { Marojejy National Park (556 km²)
Anjanaharibe-Sud Special Reserve (279 km²)*

WWF { COMATSA (2453 km²)



*47 times larger than Tampolo (6 km²) and strong local partners

SAVA Region: Third Largest Rainforest Landscape



Schwitzer C. et al. (2013). Lemurs of Madagascar: A Strategy for their Conservation 2013–2016. Bristol, UK: IUCN SSC Primate Specialist Group, Bristol Conservation and Science Foundation, and Conservation International. 185 pp.

Unique Aspects of Anjanaharibe-Sud Special Reserve (ASSR)

- Large, mountainous reserve with **tremendous** biodiversity.
Species counts: 74 birds, 93 amphib/reptiles, 180 ants, 211 ferns, 11 lemurs
- Almost confirmed as a part of the Atsinanana World Heritage Site
western extension (nearly done) not completed at that time
- Protected Area since 1958 and already well managed by MNP
- **Large elevational range (summit at 2064m or 6772ft.) includes many habitats with high local endemism:**
 - A. Lowland Rainforest (below 800m)
 - B. Montane Rainforest (800m to 1400m)
 - C. Sclerophyllous Montane Rainforest (1400m to 1800m)
 - D. Montane Scrub (above 1800m)
- Only protected area containing sympatric silky sifakas and indri
Tremendous tourism potential
- Neglected reserve with little tourist or research infrastructure
But LCF's new Camp Indri field site is nearly finished

(at least) 11 Lemur Species in ASSR

Many Have Not Been Sufficiently Studied!

Most Are Not Found In Captivity

Common Name	Scientific Name	Anjanaharibe-Sud SR	Marojejy NP	IUCN	Captivity?
Silky Sifaka	Propithecus candidus	YES	YES	CE	Not Possible
Indri	Indri indri	YES	NO	CE	Not Possible
White-fronted brown lemur	Eulemur albifrons	YES	YES	EN	Yes
Aye Aye	Daubentonia madagascariensis	YES	YES	EN	Yes
Mittermeier's mouse lemur	Microcebus mittermeieri	YES	YES	EN	Only in Madagascar (PBTZ)
Red-bellied Lemur	Eulemur rubriventer	YES	YES	VU	Yes
Northern Bamboo Lemur	Hapalemur occidentalis	YES	YES	VU	No
Masoala Fork-Marked Lemur	Phaner furcifer	No	Yes	VU	No
Seal's Sportive Lemur	Lepilemur seali	Yes	Yes	VU	No
Eastern Woolly Lemur	Avahi laniger	Yes	Yes	VU	No
Hairy-eared Mouse Lemur	Allocebus trichotis	Yes	Yes	VU	No
Greater Dwarf Lemur	Cheirogaleus major	YES	YES	DD	No

Flagship **Critically Endangered** Lemurs in ASSR

Have Not Survived in Captivity (yet)

Silky Sifaka (*Propithecus candidus*)
(ONLY 500 to 2000 remaining)

As much as 30 or 40% of the remaining
population in ASSR



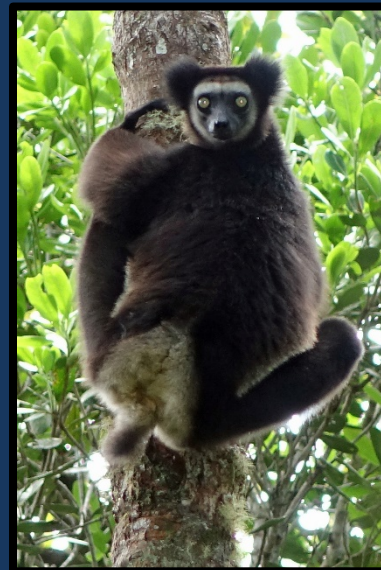
Indri (*Indri indri*)

Unique All-black Phenotype

Anjanaharibe-Sud (not Marojejy)

Little studied in northern Madagascar

“geographically distinct populations may exist.”*



*Thalmann et al. (1993). IJP 14(3): 357-381

Other Flagship Species in ASSR



Madagascar Red Owl (*Tyto soumagnei*)
Rediscovered in 1993
Endemic to Madagascar's Eastern Rainforests
Vulnerable (IUCN)



Madagascar Serpent Eagle (*Eutriorchis astur*)
Endemic to Madagascar's Eastern Rainforests
Endangered (IUCN)



Liophidum pattoni
Endemic to Madagascar's Northeastern Rainforests
Near Threatened (IUCN)
Not venomous, perhaps mimics venomous millipedes

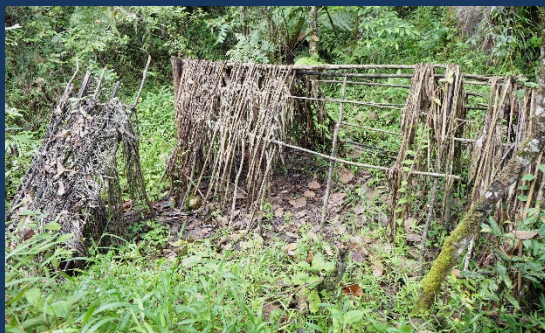


Takhtajania perrieri. Monospecific genus.
Rediscovered in 1997 (Schatz et al. 1987)*
“Living Fossil”: Only extant species in Winteraceae: oldest family of flowering plants...present during the time of the dinosaurs.

**Takhtajania perrieri* rediscovered. *Nature* 391: 133-134

Conservation Threats to Anjanaharibe-Sud Special Reserve (ASSR):

1. Road traversing the reserve to western Madagascar (Bealanana):
Regular foot-traffic (hundreds per year) and some KOSOVO vehicles
2. Artisanal mining of amethyst, crystal, and other semi-precious stones
3. Bushmeat hunting (along the road)
4. Only 5 park rangers for 280 km² reserve
5. Little illegal rosewood/ebony/palisandre logging (thus far)

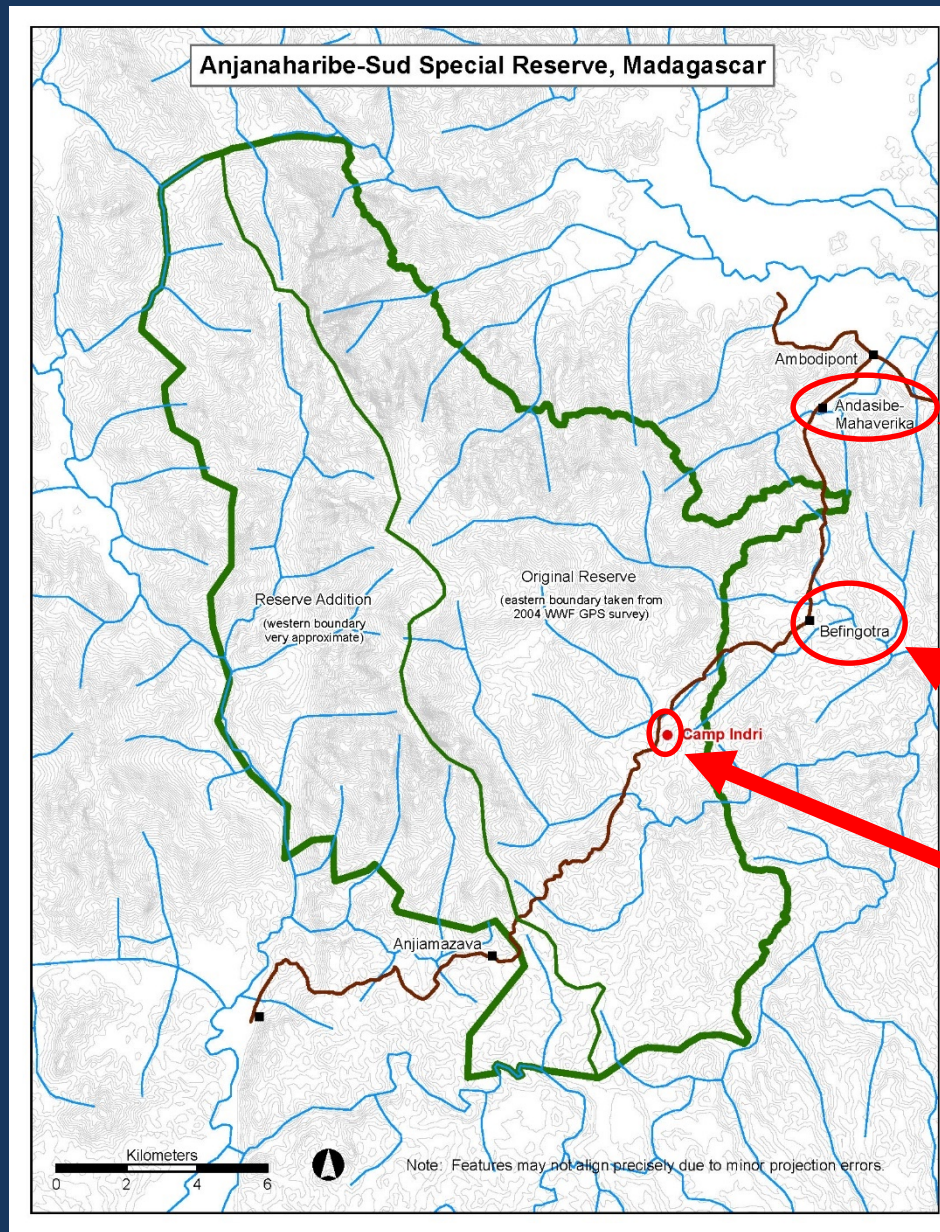


Goal of LCF Conservation Projects:

Support human livelihoods in villages near ASSR to reduce dependence on forest resources while improving biodiversity conservation inside Anjanaharibe-Sud Special Reserve (ASSR) through lemur research, forest monitoring, and ecotourism infrastructure

The Challenges: Only 5 park rangers for 108 square mile park
Growing and impoverished human population around the park
Insufficient community development and park management programs





Andasibe Mahaverika Village

Befingotra Village

Camp Indri

In-Situ Projects Completed in 2015

1. Boundary Demarcation of 75% of ASSR
2. Camp Indri Infrastructure 75% completed, including:
 - A) “Emily Fisher” Dining Pavilion
 - B) Running Tap water near kitchen and in shower
 - C) Toilet building
 - D) Shower building
 - E) Storage building
 - F) Tent platforms
3. Lemur surveys completed at 4 remote sites (15 years+ since last surveys)
4. New full-time staff member (Mr. Joxe) and new “office”
5. “MOU” collaboration agreement signed with park director
6. Community meetings held in Befingotra with community leaders to assess need, interest, and future goals
7. Supporting and collaborating with a new Malagasy Graduate Student (lemur surveys, English classes and more)

Future Plans and Ongoing Activities

1. Completion of Camp Indri: Roofs for tent shelters, simple trail system
2. Completion of Boundary Demarcation
3. Forest monitoring missions with CLP's (forest police) and park rangers (one completed in 2016)
4. Small Tree nursery and reforestation program with primary school (already underway and could expand greatly)
5. LCF T-shirts distributed to many local partners (already underway)
6. 3-day educational forest visits with local school children from Befingotra
7. ASSR educational posters in Malagasy being developed for local schools
8. Human health and family planning nurses (later in 2016)
9. Line-transect lemur survey with Malagasy Graduate Student (later in 2016)

LCF Madagascar Staff Member: Mr. Joxe (Louis Joxe Jaofeno)

Background in Tourism and Conservation Program Management

Locally respected and known

Speaks local dialect, born and raised in SAVA region

Excellent English, Email, and basic computing skills



Joxe at his former job with the Regional Office of Tourism in Sambava.



World Lemur Festival 2015

A Dozen Other Staff Members on a Project-Specific Basis

Many Marojejy NP Guides & Several Local Technical Specialists



Supporting Malagasy Graduate Student

Jo Rakotoarison



Camp Indri!

Emily Fisher Dining Pavillion



Roofs coming soon!



Meetings with MNP staff and Local Community Leaders in Befingotra

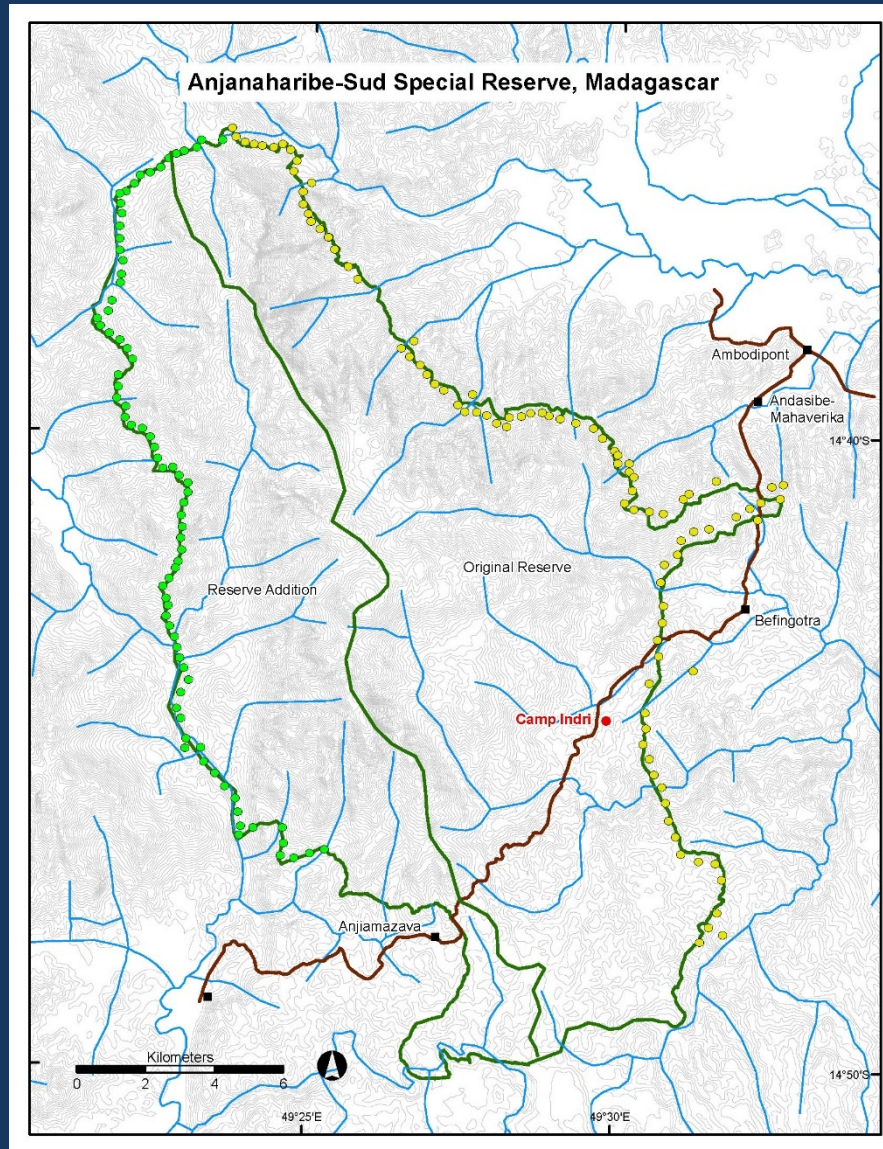


LCF T-shirts for MNP staff and Local Forest Police

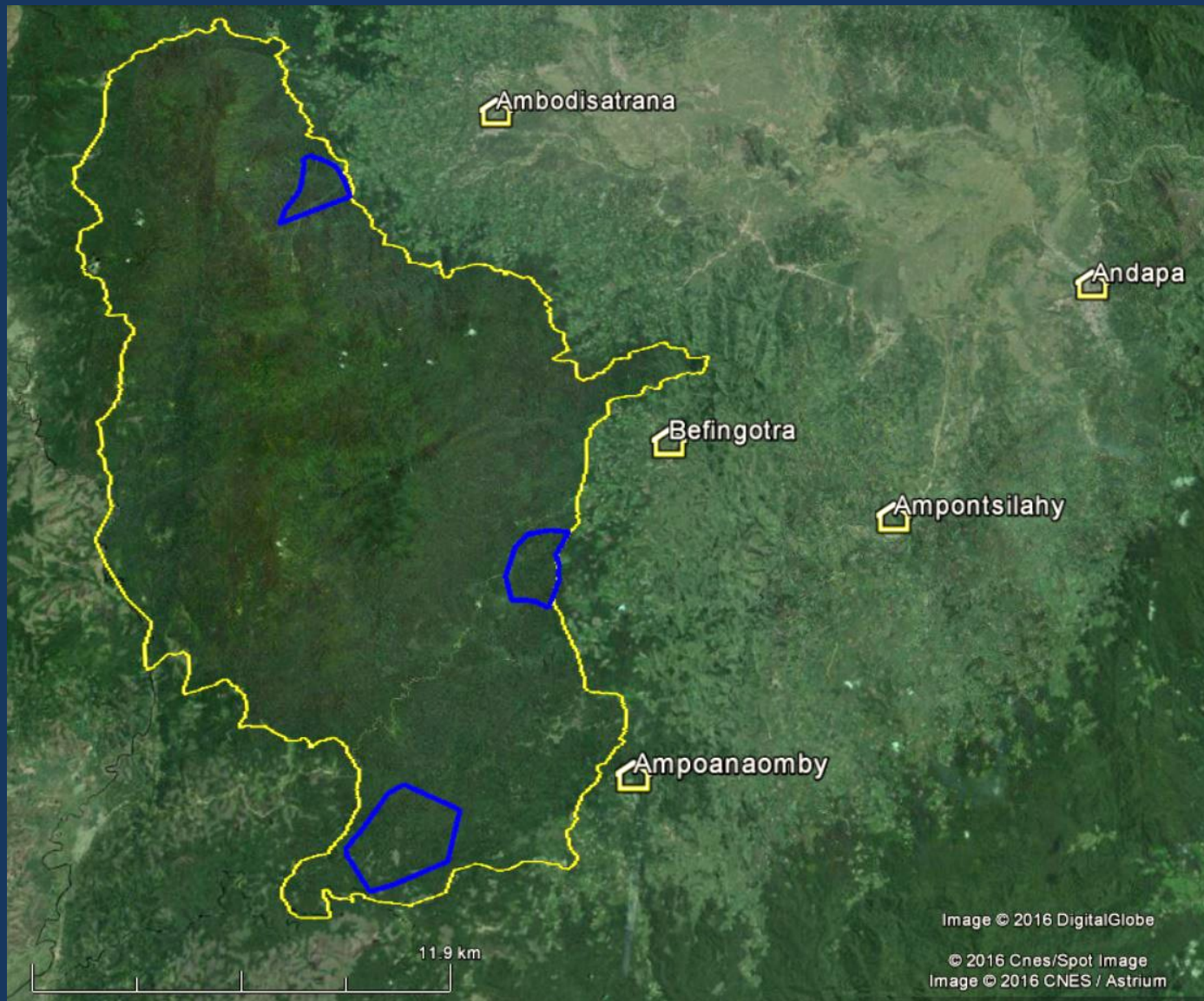


Hundreds of Boundary Demarcation Signs

100% coverage by July 2016



2015 Rapid Lemur Survey Locations



Did we remember to
say Misaoatra, Ollie?

Thank you from all
of us lemurs!

Emily Fisher
Rasmussen Family Foundation
Henny en Mello Nieuwenhuis (Tripod Mobility)
Aid for Lemurs
Madecasse
Envirokidz



ENVIROKIDZ

MADECASSE
— MADAGASCAR CHOCOLATE —

Lemur Picture Prize:
Mail in your picture when
you're done and we will send
you a surprise!

"Picture"
Lemur Conservation Foundation
PO Box 249
Myakka City, FL 34251

