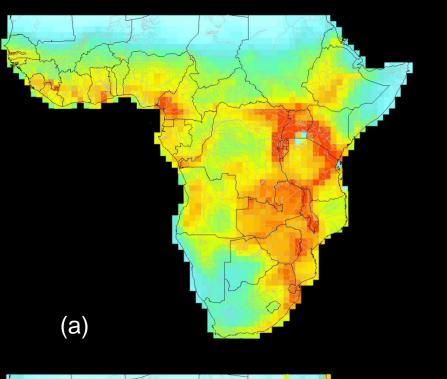
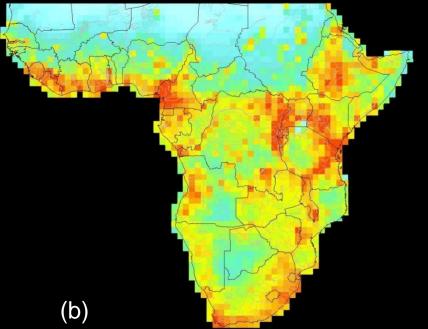


The Cross River Gorilla (*Gorilla gorilla diehli*): endemic to the forests of Nigeria-Cameroon border.

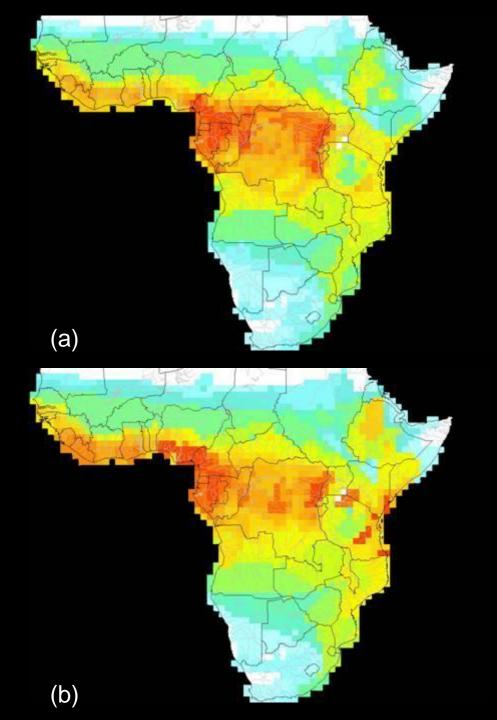




The Cross River region is a center of species richness and endemism for many taxa in a continental perspective.



Mammal, amphibian, reptile, and bird species (a) richness and (b) inverse range size rarity (endemism) in sub-Saharan Africa. Species richness and level of endemism increase with increasing warmth of color.



Primate Biodiversity Hotspot

-Extremely high primate species richness -Africa's largest number of endemic taxa.

Primate species (a) richness and (b) endemism in sub-Saharan Africa. Species richness and level of endemism increase with increasing warmth of color.



Drill (Mandrillus leucophaeus)



Nigeria-Cameroon chimpanzee (Pan troglodytes ellioti)



Preuss' guenon (Cercopithecus preussi)



Cross River gorilla (Gorilla gorilla diehli)

(a)

Birds

This region has the highest bird species richness and endemism of all Central and West Africa.

- -26 endemic species
- -2 monotypic endemic genera
- -3 species each known only from a single locality

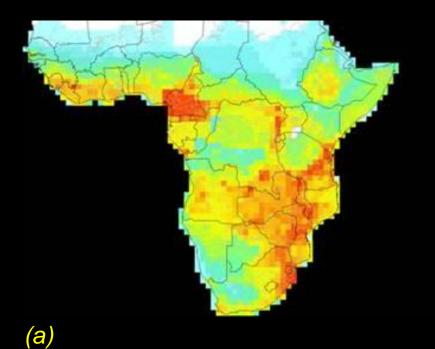
Bird species (a) richness and (b) endemism in sub-Saharan Africa. Species richness and level of endemism increase with increasing warmth of color.



Bannerman's tauraco (Tauraco bannermani)

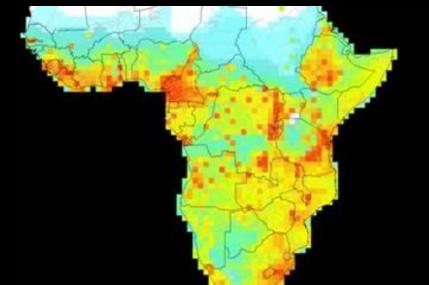


Ursula's mouse-colored sunbird (Nectarinia ursulae)



Amphibians

Possibly the highest amphibian species richness in Africa
-52 endemic species



Amphibian species (a) richness and (b) endemism in sub-Saharan Africa. Species richness and level of endemism increase with increasing warmth of color.

(b)



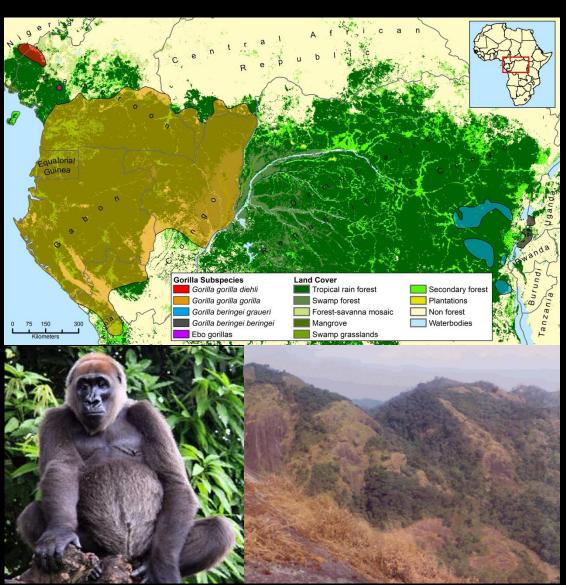
Black long-fingered Frog (Cardioglossa pulchra)



Cameroon slippery frog (Hyperolius riggenbachi)

The Cross River Gorilla (*Gorilla gorilla diehli*): endemic to the forests of Nigeria-Cameroon border.

- Critically Endangered.
- The most endangered African ape taxon.
- Only about 300 left.
- Long history of hunting.
- Poorly studied. Even their distribution and total population size is not fully understood.



Use of detection dogs to locate fecal samples for genetic census







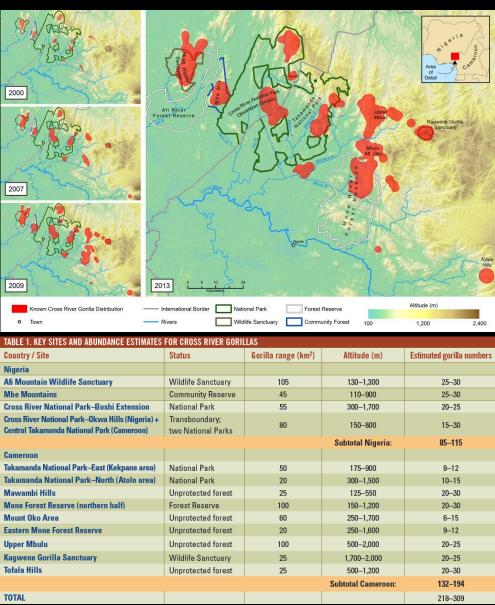




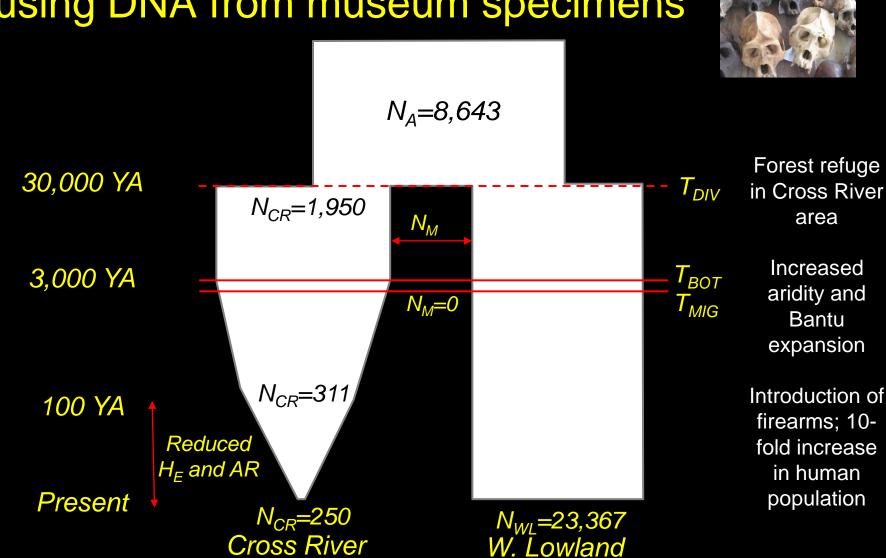


Distribution, numbers, protected area status



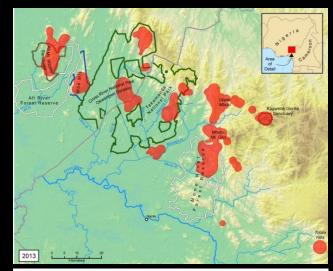


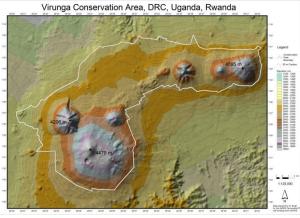
Genetic analysis of population history using DNA from museum specimens



Comparison with other better-known gorilla sites

- The national park, forest reserves, wildlife sanctuaries and designated community land alone contain over 2,000 km² of tropical forest.
 - Almost six times the entire area of either Bwindi NP or Virunga Conservation Area.
 - Either park would fit inside CRNP or Takamanda NP.
 - Over 7,000 km² in the broader landscape.

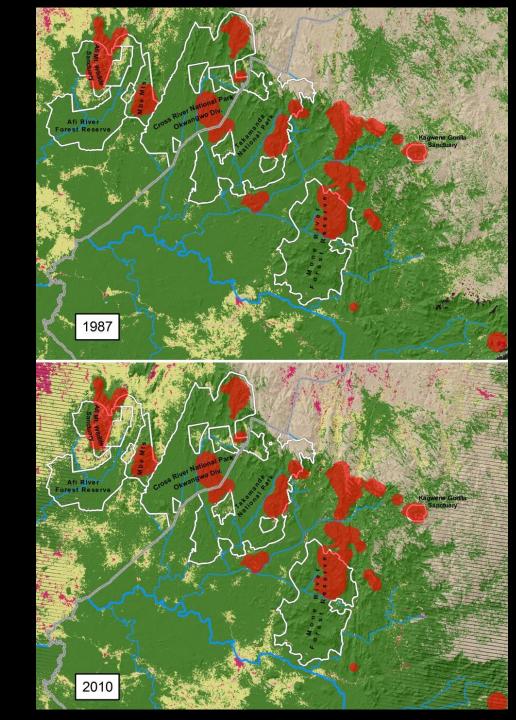






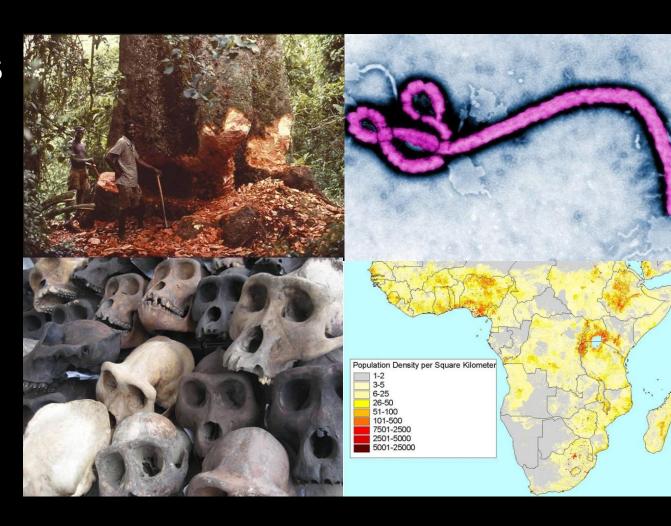
Habitat and population continuity

- Forest loss of almost 3% annually
- Genetic continuity
- Gorilla distribution driven by human activities not habitat requirements
- Unoccupied gorilla habitat



Threats

- Habitat loss
- Hunting
- Disease
- (human population density)



Revised conservation action plan



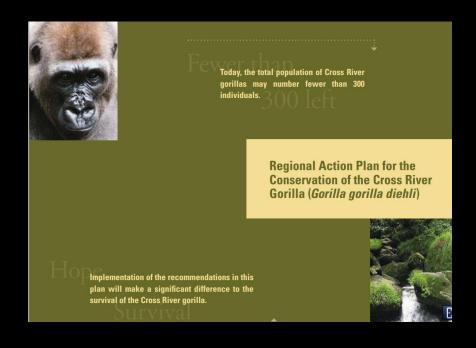
Today, the total population of Cross River gorillas may number fewer than 300 individuals

Revised Regional Action Plan for the Conservation of the Cross River Gorilla (*Gorilla gorilla diehli*) 2014–2019

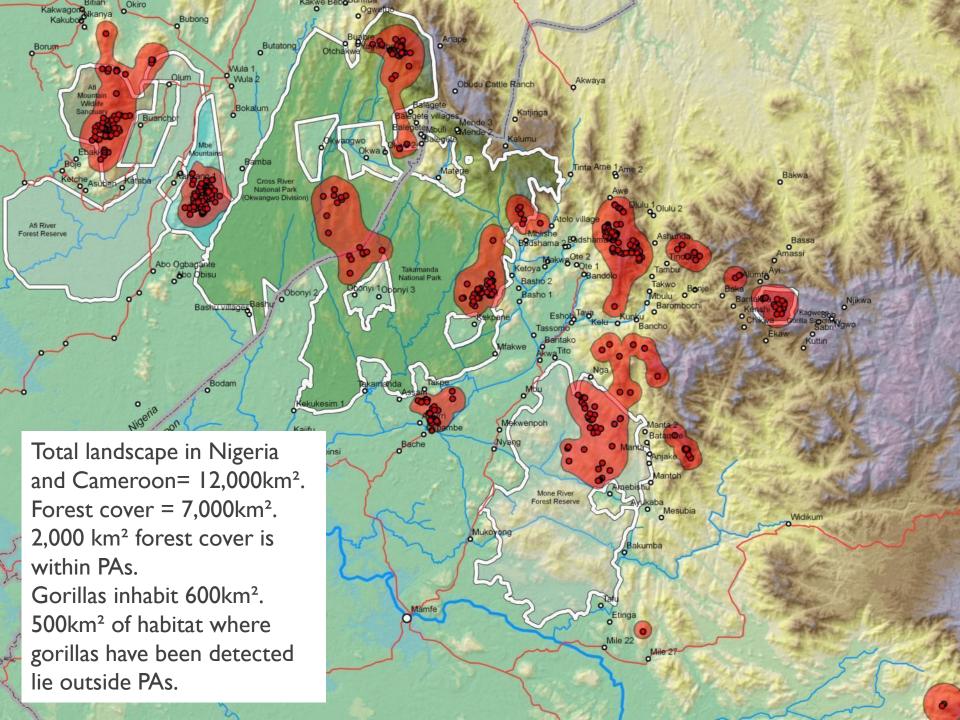
Understanding the status of the changing threats across the Cross River gorilla landscape will provide key information for guiding our collective conservation activities

Accomplishments of the previous plan

- Creation of three new protected areas
- Better understanding of gorillas' range
- Enhanced wildlife and law enforcement monitoring
- Greater trans-boundary collaboration
- Increased community involvement



Across the Landscape



Key conservation actions

Increased law enforcement

- Increased local awareness and engagement
- Alternative livelihood interventions



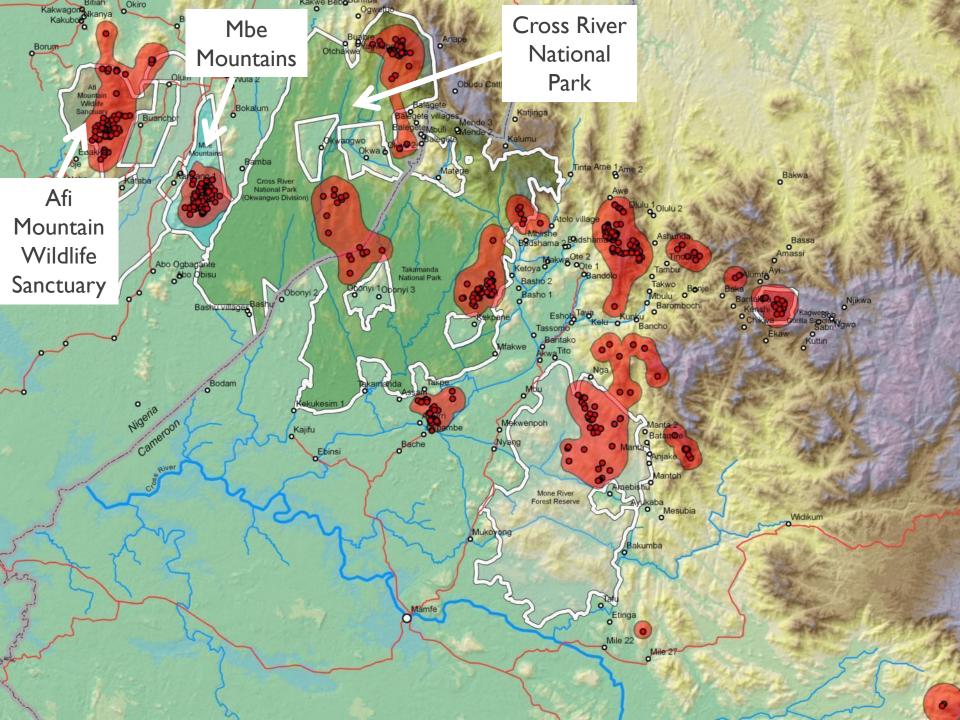
Key conservation actions

Transboundary collaboration

Ecotourism development, including gorilla habituation?

CRG health monitoring and disease prevention

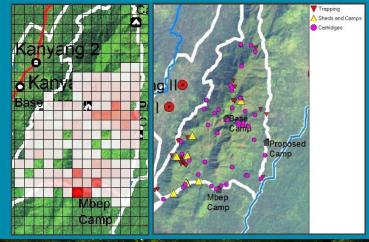
NIGERIA



Improved Law Enforcement Monitoring with CyberTracker/SMART

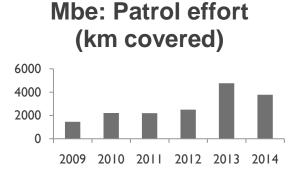
More efficient patrol planning

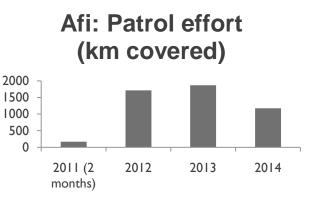
Improved threats monitoring

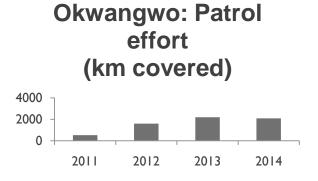


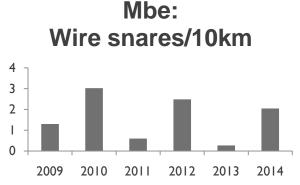


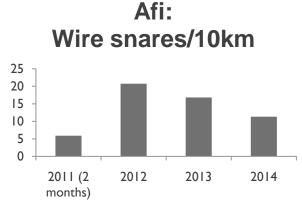
Increased patrol effort — decreased human activity encounter rates

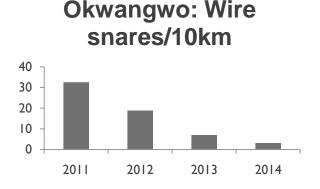






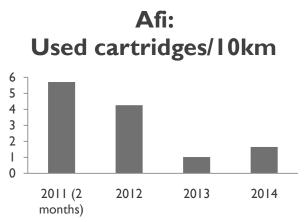


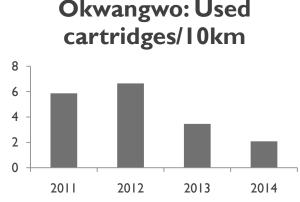


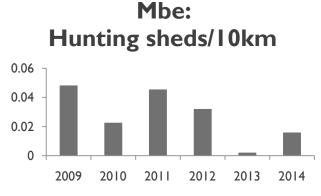


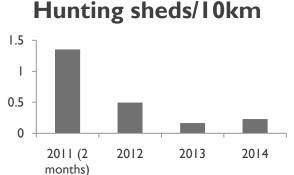
Increased patrol effort decreased human activity encounter rates

Mbe: Used cartridges/10km

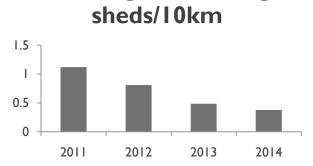








Afi:



Okwangwo: Hunting



OBJETS CAMP OSCINITION OF THE HIBE HOUNTAINS OSCINITION OSCINITION OF THE HIBE HOUNTAINS OSCINITION OSCINITIO



Conservation Education

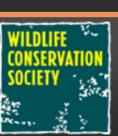
- 37 community meetings per year
- Conservation clubs in 56 schools; >100 visits
- ❖ Films in 43 villages, >16,000 viewers

Adopting new approaches...



"My Gorilla-My Community" Radio Program



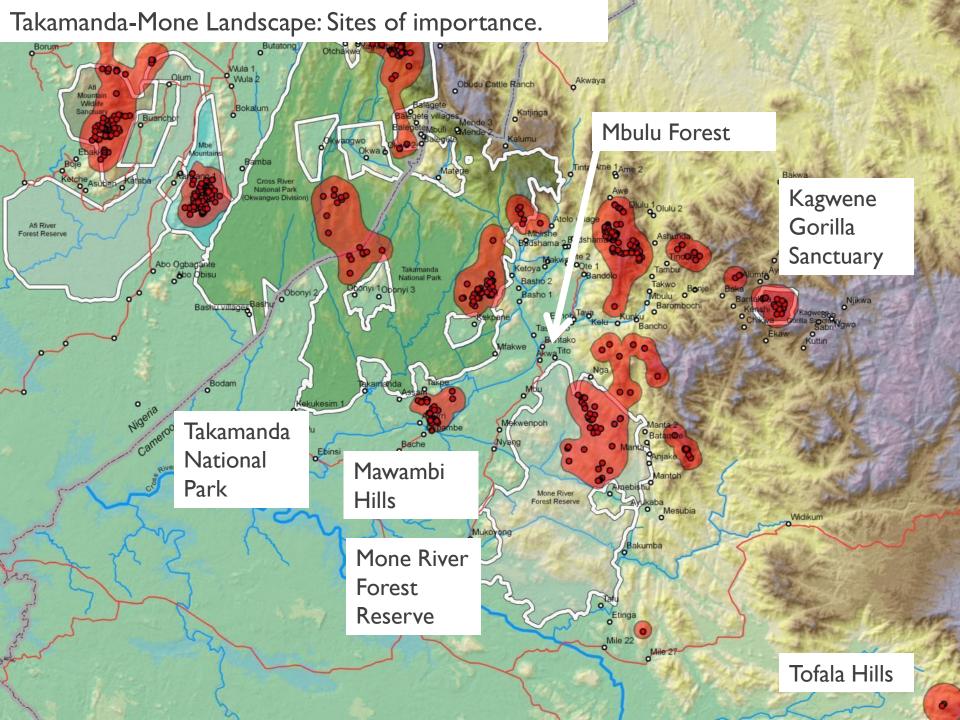


pci media impact



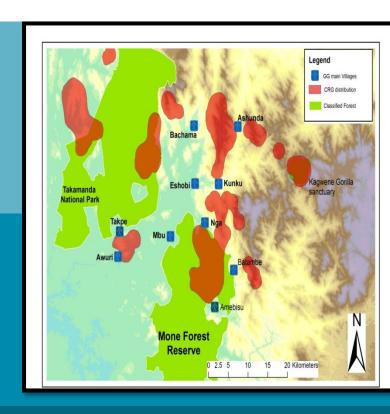






Gorilla Guardian Network

- 12 communities involved with active Village Forest Management Committees.
- Wire snares have been removed from areas near gorillas.



Communities organized their own Executive Committee.

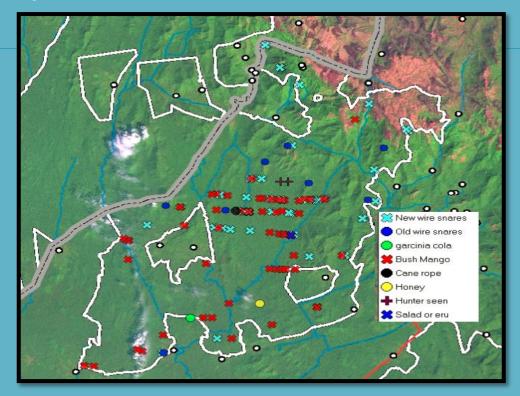
Protocols and technology - monitoring wildlife and threats

CyberTracker software is used across Cameroonian landscape.

SMART will be implemented in TNP, Korup National Park, Mount Cameroon National Park and Bayang-Mbo Reserve in 2015

Results and impact of patrolling and reporting.

Non-Timber Forest Product collection zones overlap with wire snare use in TNP.



Survey of Cross River Gorilla populations during 2014 in TNP provides minimum population estimate of 22, with no significant change from last survey in 2008.

Large mammal surveys in TNP during 2013 show no significant increase in populations of mammal species such as duiker nor significant reduction in hunting signs.

In both Ashunda and Bachama there was a drop in both empty cartridges and wire snares after the VFMCs were created and trained.

Conservation Education



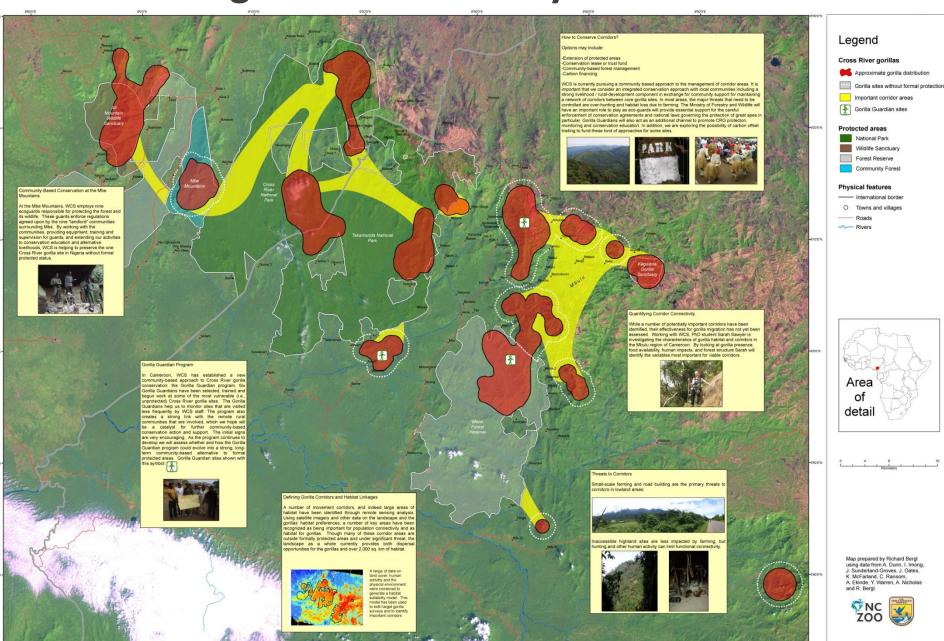
34 villages (11,100 people),

27 schools (4,850 pupils) have been sensitized.

Activities include film shows, lectures, competitions and sensitization on Cameroonian wildlife law.

Production of Conservation Education materials such as large mammal posters, education handbooks and films.

Cross River gorilla connectivity.



Cross River gorilla connectivity

Program for the Sustainable Management of Natural Resources (PSMNR) have funds to develop corridor management approach as part of land-use management.

Community forest creation is favored as the mechanism for management of corridors.

Gorilla Guardian Network can be entry point to Community based management of corridors.

REDD+ and PSMNR



Proposed landscape nested jurisdictional approach

Program for the Sustainable Management of Natural Resources in the South West Region (PSMNR-SWR) extended until 2017.

Interest from KfW in continuing to support activities beyond the end of the Program through WCS.

Challenges

- Opportunistic hunting of gorillas
- Future of enclaves unresolved
- Capacity of government staff remains low
- Long term funding not secured
- No easy way to monitor the CRG
 population still relying on indirect threats

Key achievements

Creation of 3 PAs and their Management

Reduction of hunting in sites

Greater donor awareness and involvement

Training of scientists and conservationists for the future

Increased buy-in from Nigerian and Cameroonian Governments

Development of global partnership for CRG

Transition from donor to partner

USFWS first 5 year cooperative agreement

Improvement of wildlife law in Nigeria

Support from International Agencies GRASP, CMS.

Improved understanding of ranging and habitat requirements of CRG

Creation of innovative community conservation programs

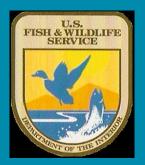
Future outlook

- ✓ Improved law enforcement effectiveness and threats monitoring
- ✓ Significant areas of forest still exist to support a possible population expansion
- ✓ Increasing awareness and local support

Future outlook

- Increasing local capacity for research and conservation management
- ✓ 5 year cooperative agreement successful
- Increasing understanding of distribution, ecology and conservation needs

With thanks to our partners and funders

















CONSERVATION and RESEARCH for ENDANGERED SPECIES

The ZOOLOGICAL SOCIETY of SAN DIEGO







FOUNDATION_M











Margot Marsh Biodiversity Foundation







