



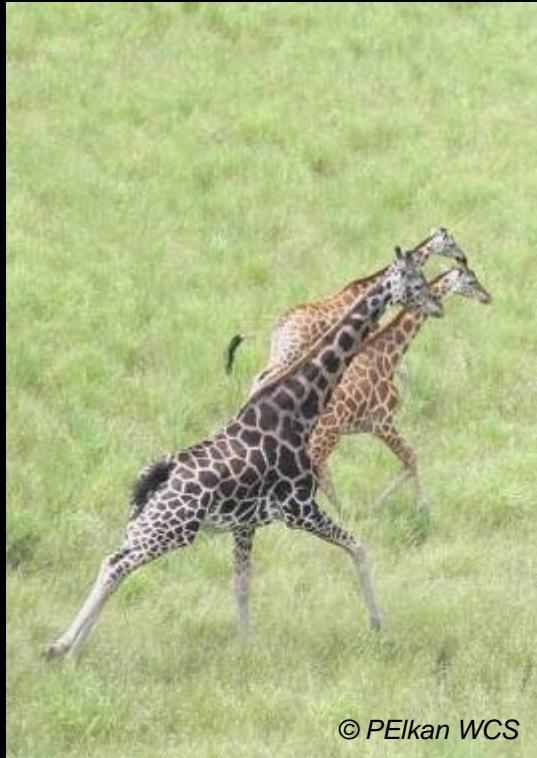
USAID | SUDAN
FROM THE AMERICAN PEOPLE



Wildlife Conservation and Natural Resource Management in Southern Sudan



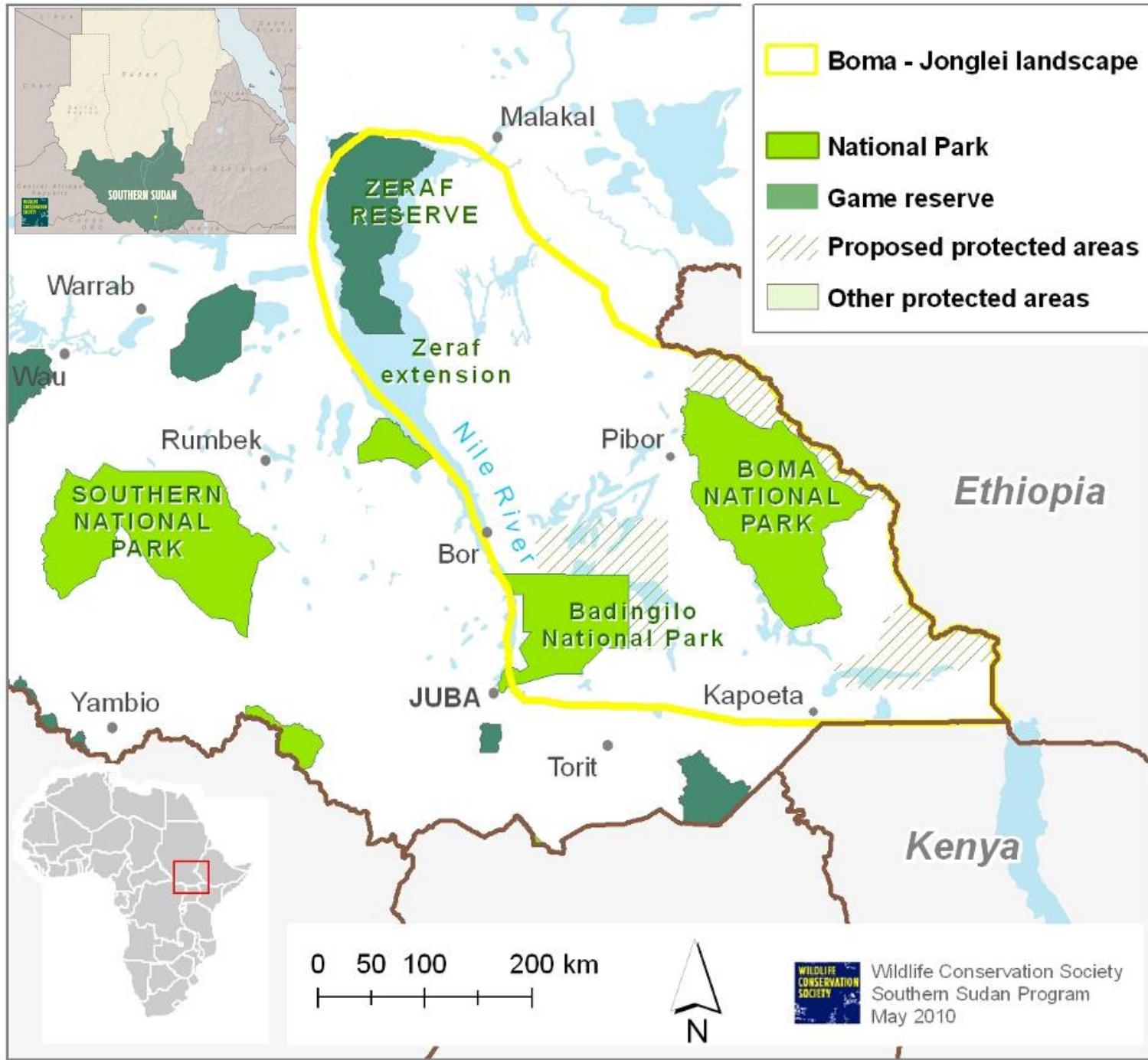
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GOSS-USG-WCS Partnership for Conservation and Natural Resource Management

- New York Zoological Society working in Southern Sudan early 1980's
- WCS invited by GOSS after Comprehensive Peace Agreement 2005
- USAID&USFWS support WCS/GoSS Southern Sudan wide surveys and assessments 2007
- USG, USAID, private donors, and WCS funding mobilized 2008
- USAID Sudan Cooperative Agreement No. 650-A-00-08-00019-00, USAID Translinks LWA EPP-A-00-06-0014-00
- Program for the Conservation of Biodiversity and Sustainable Natural Resource Management Across the Boma-Jonglei Landscape (Jonglei, Eastern Equatoria, Central Equatoria States) 2008-present
- Referendum January 2011- NRM and Conservation in the nation building process of Southern Sudan

Sudd Wetlands



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Badingilo-Boma Savanna

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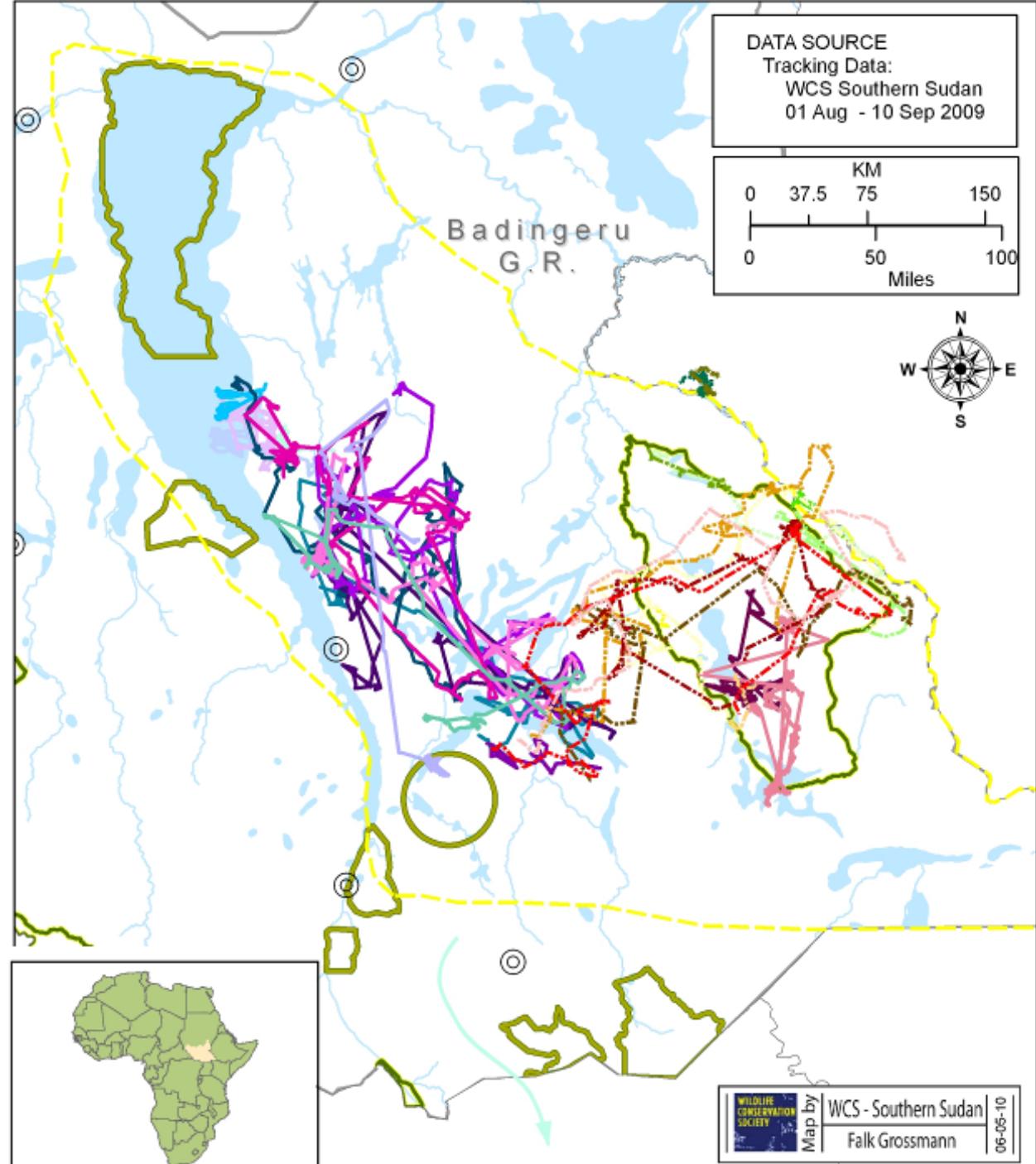
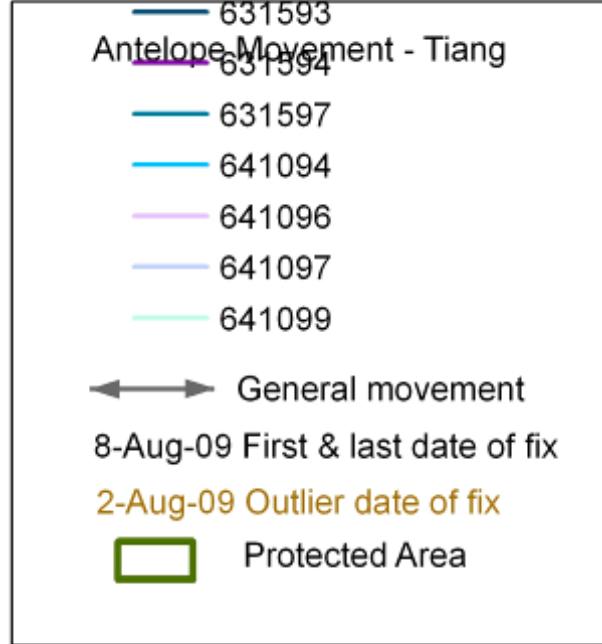
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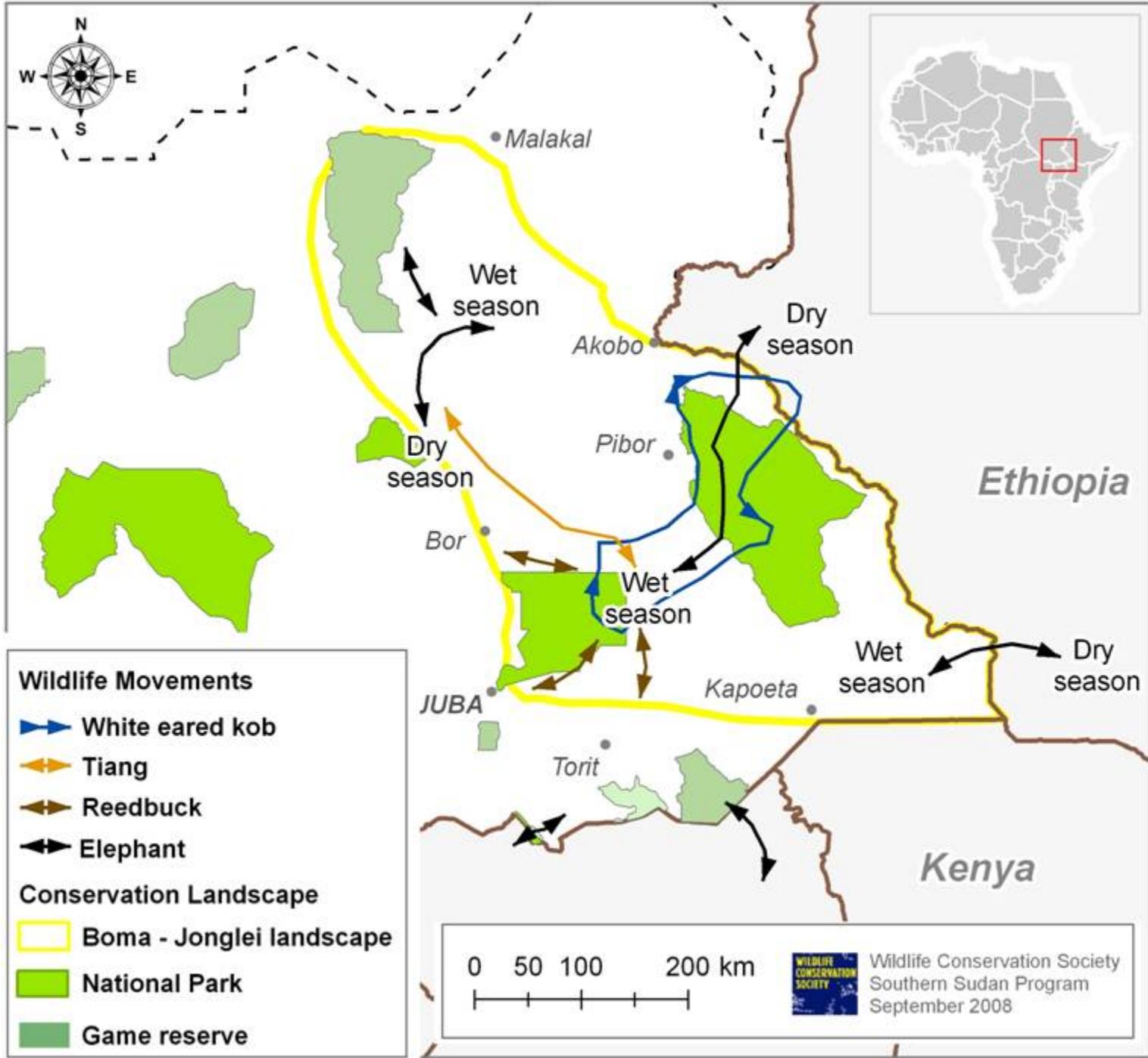


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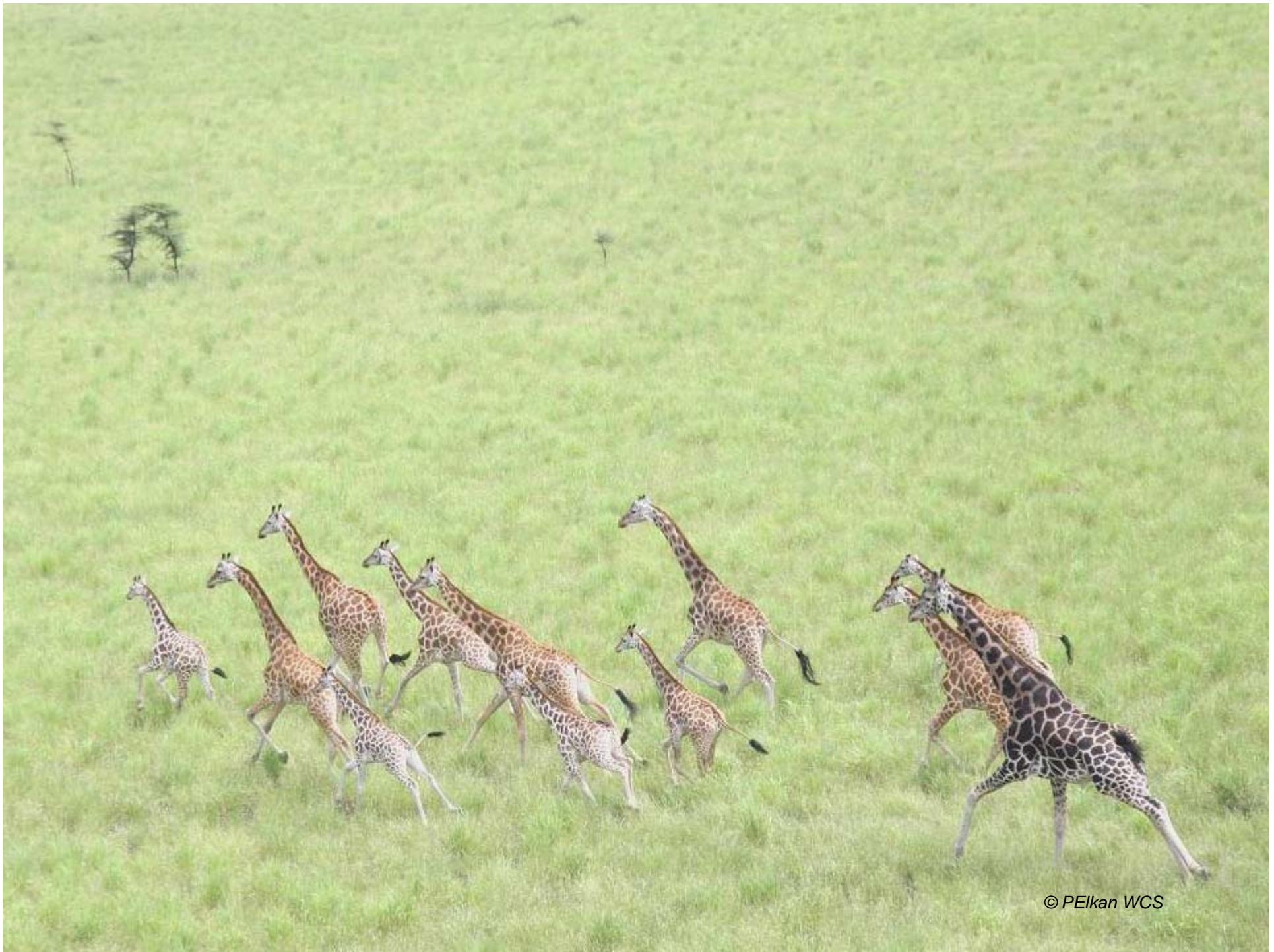
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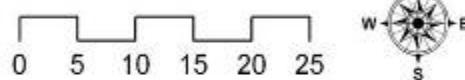
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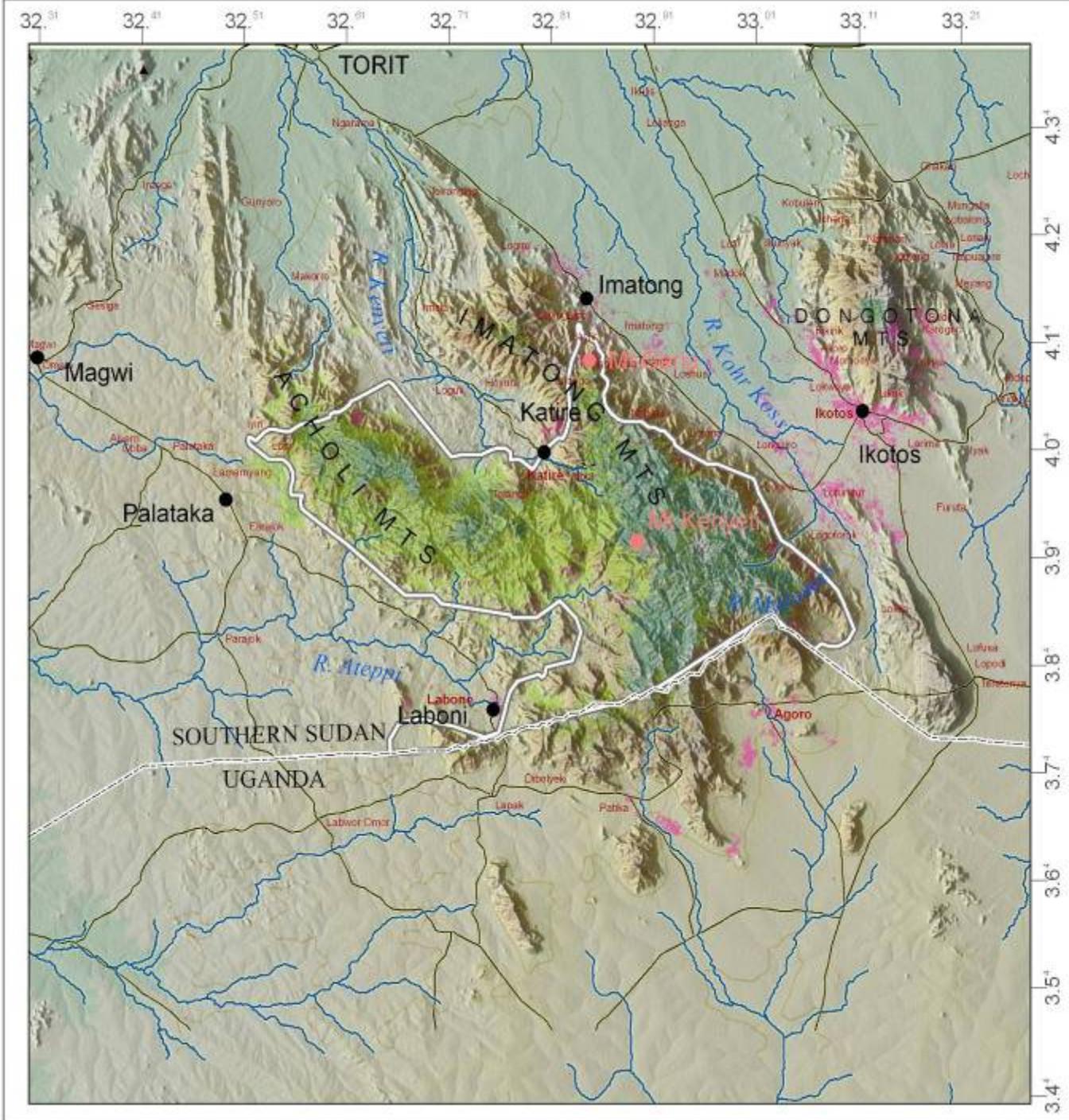
IMATONG MOUNTAINS

Kilometers



Map by

WCS - Southern Sudan
Falk Grossmann



Imatong Forest Massif



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Southern National Park



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Livelihoods

Agriculture



Pastoralism



Fishing





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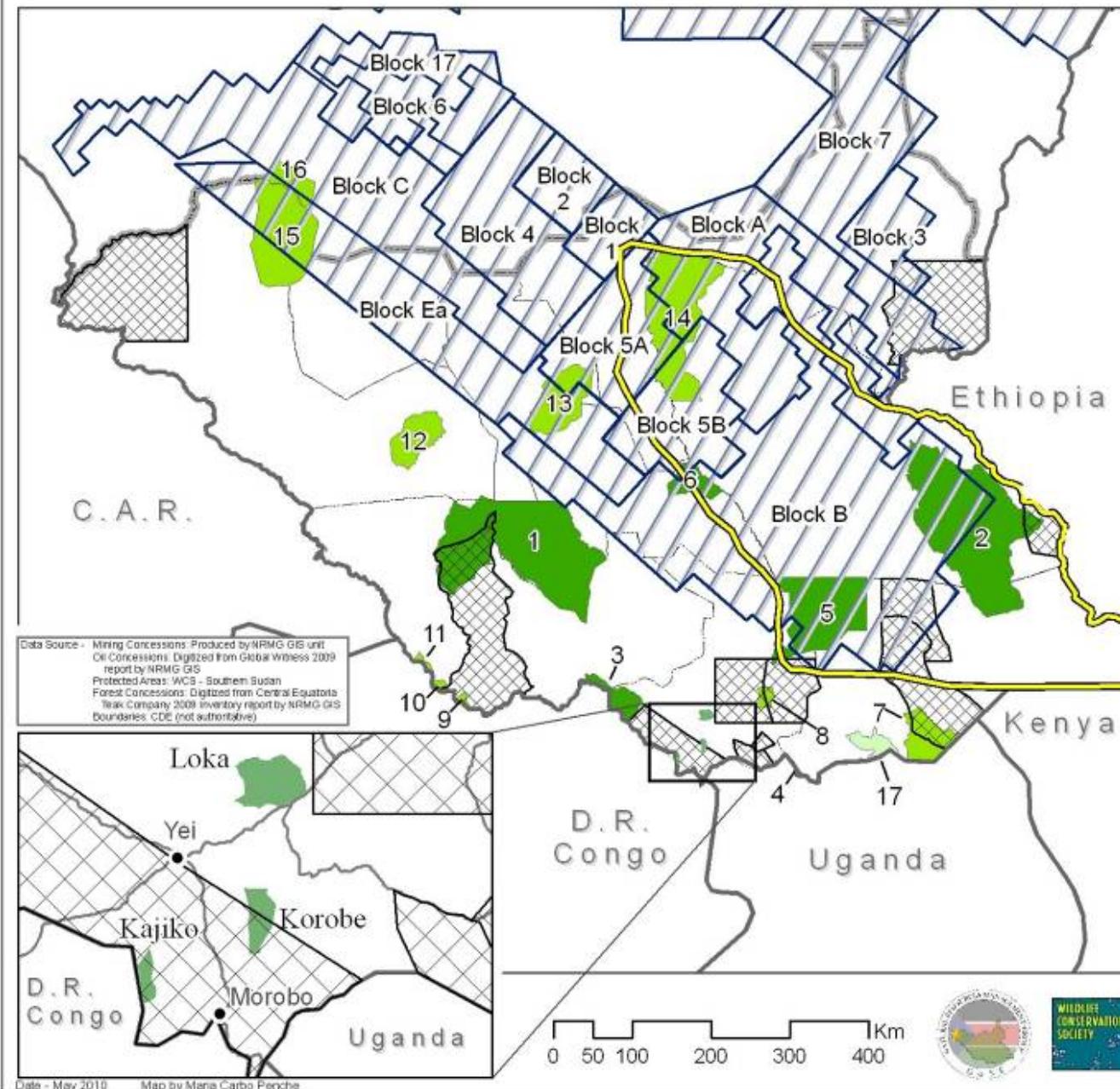


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Uncontrolled extractive industries and concessions



Concessions and Land Use in Southern Sudan



- | | |
|------------------------|--------------------|
| Concessions | |
| | Oil |
| | Mining Exploration |
| | Forest |
| Protected Areas | |
| | National Park |
| 1. Southern | |
| 2. Boma | |
| 3. Lontoto | |
| 4. Nimule | |
| 5. Bandingilo | |
| 6. Shambe | |
| | Game Reserve |
| 7. Kidepo | |
| 8. Juba | |
| 9. Mbarizunga | |
| 10. Bire Kapatuos | |
| 11. Bangangai | |
| 12. Numatina | |
| 13. Meshra | |
| 14. Zeraf | |
| 15. Chelkou | |
| 16. Ashana | |
| | Forest Reserve |
| 17. Imatong | |

Road and other infrastructure developments in proximity to protected areas



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Commercial poaching and trade



© PDemetry WCS



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© PAwol WCS



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**Deforestation (IDPs and
Refugees returning to the land)**

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**Jonglei canal, dams, and other major
development projects**

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Insecurity



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Sudan Tribune



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Goal: Conserve biodiversity and sustainably manage natural resources across the Boma-Jonglei Landscape

- 1) Strengthen institutional capacity of GoSS, State, and local communities for conservation and natural resource management
- 2) Develop sustainable land-use management for the landscape integrating conservation and sustainable NRM practices
- 3) Conserve the wildlife migrations, key vulnerable species, and vast savannas and wetlands through protected area and corridor management, including transboundary cooperation
- 4) Improve local community livelihoods through ecotourism, application of climate change adaptation and mitigation tools, and sustainable livelihoods opportunities

*Contribute to improvement of security for communities and wildlife through protected area management and reduction of community natural resource and land conflicts

Institutional Capacity Building

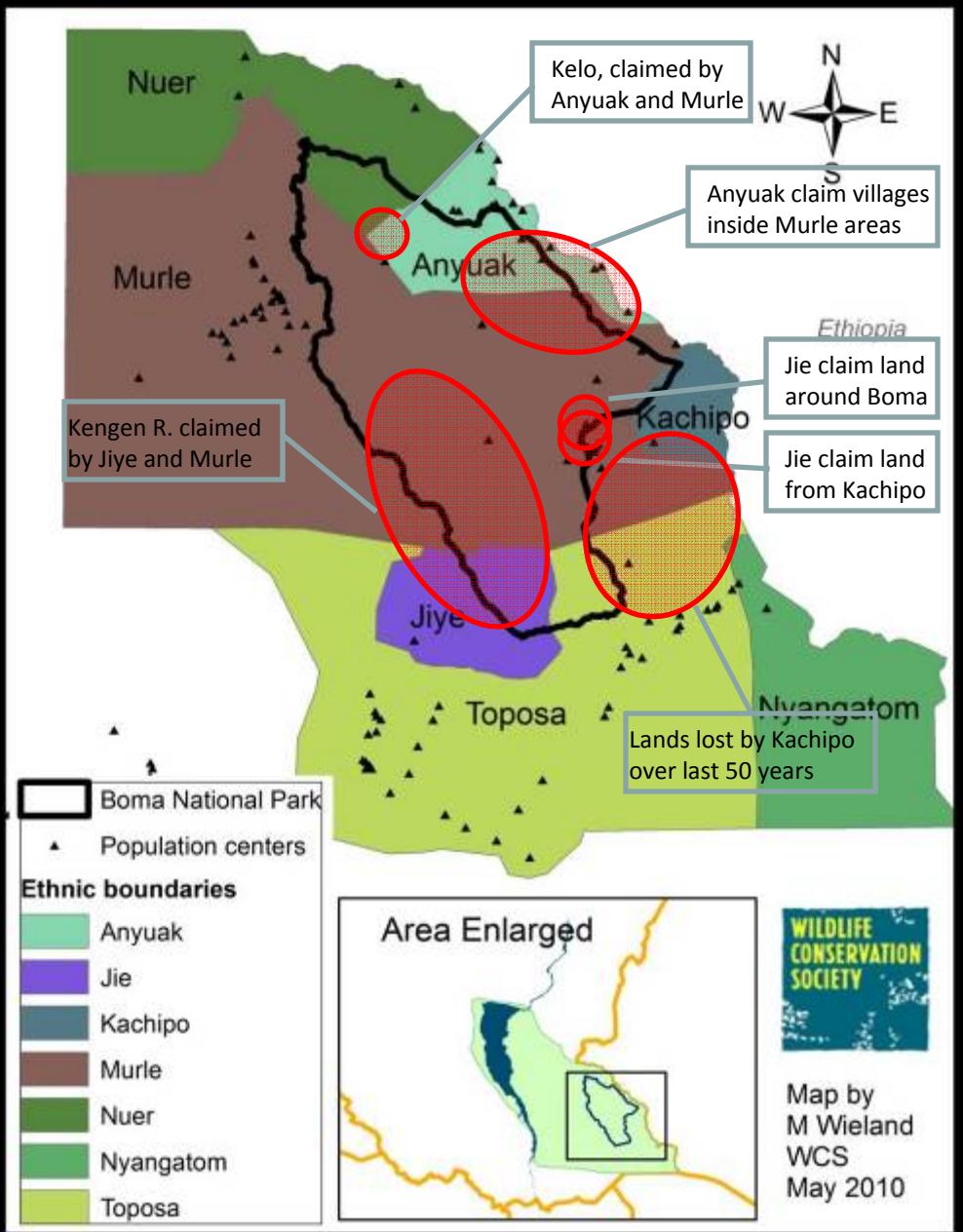
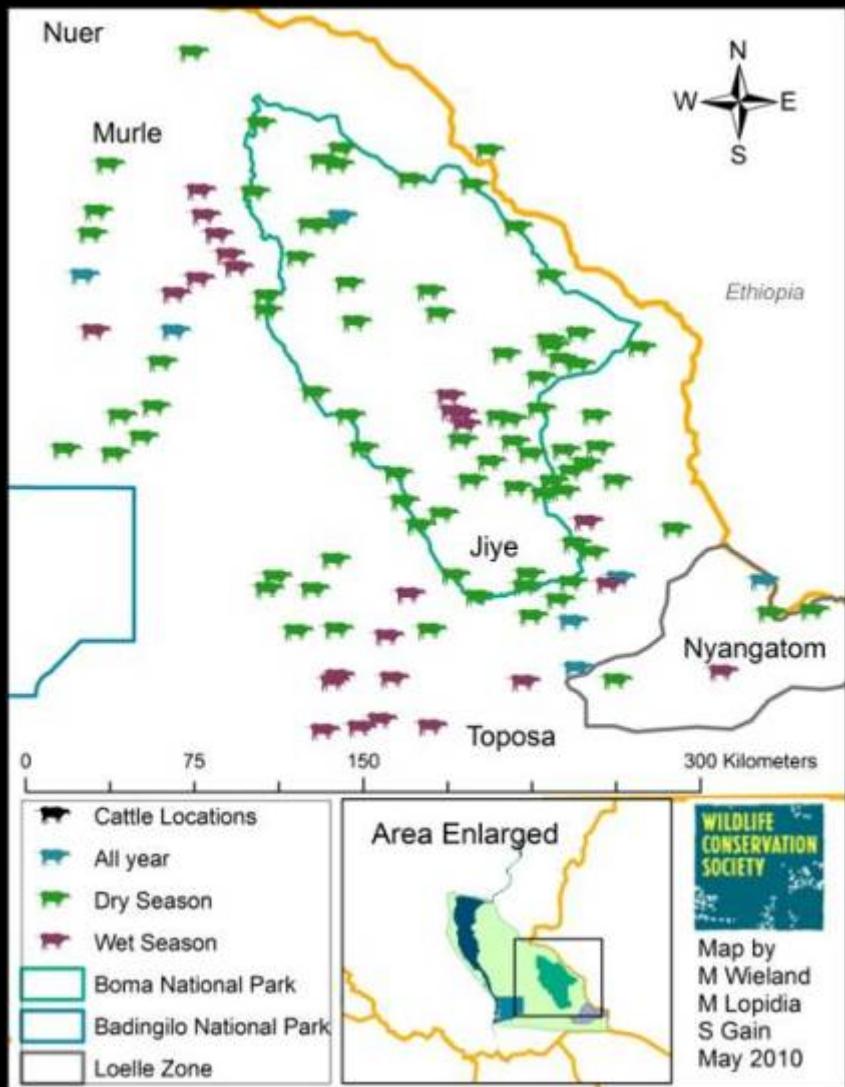
- GoSS NRMG group (strategic plan, policy review, concession allocation guidelines, GIS databasing)
- Ministry of Wildlife Conservation and Tourism-Wildlife Law Enforcement Training and Monitoring, Wildlife law revision, Strategic planning
- Training Community and Local Gov't Leaders in PA management and NRM



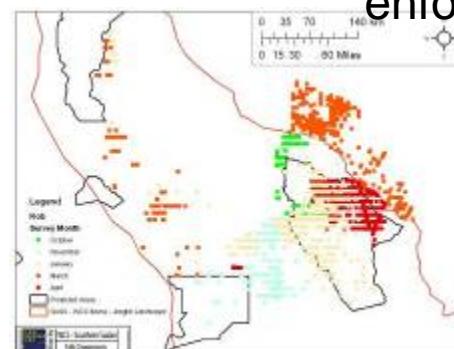
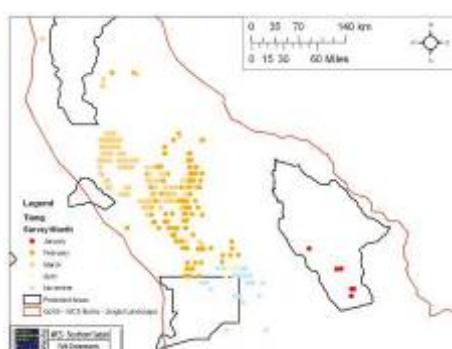
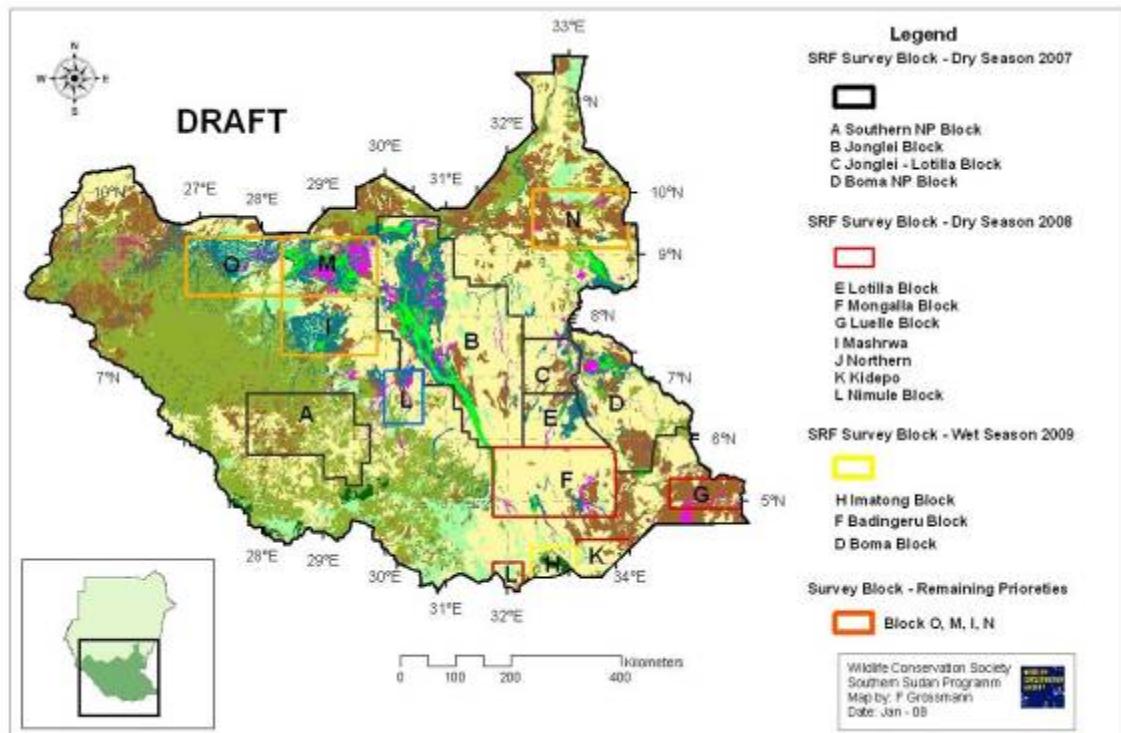
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Socio-economic Surveys & Assessing Land Conflicts



Aerial Surveys and Monitoring

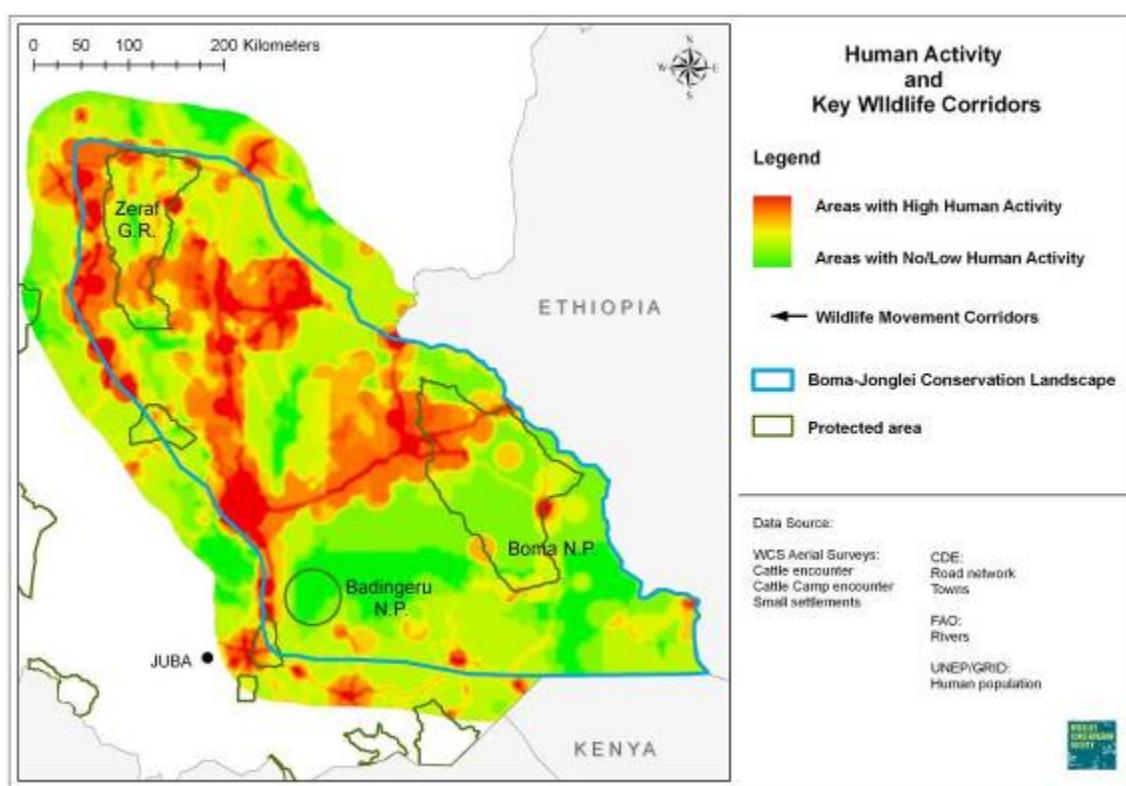


In total 14 surveys (11 since 2007) have been conducted inside the landscape and other key areas in SSudan (Gambella- Ethiopia)

Improving estimates for ungulate migrations and elephants

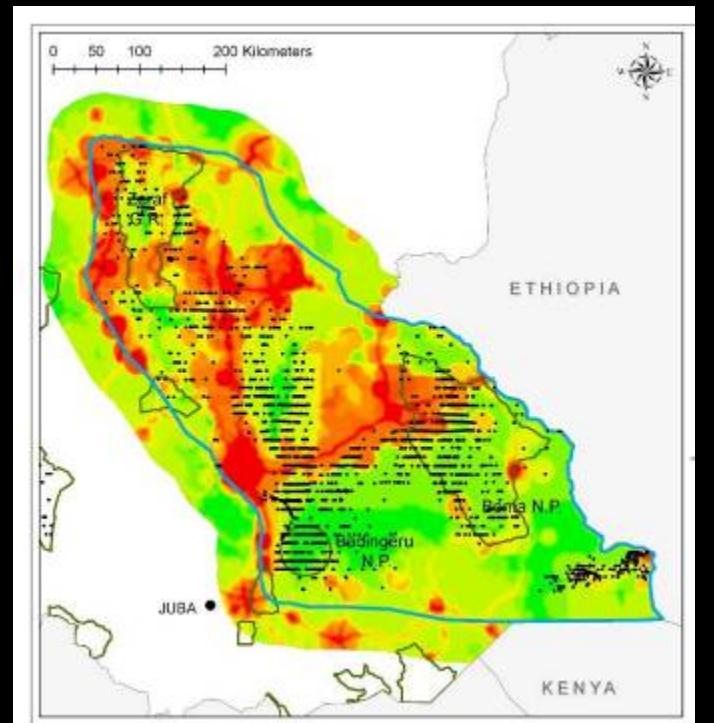
Developing monitoring program (biol, socio, law enforcement)

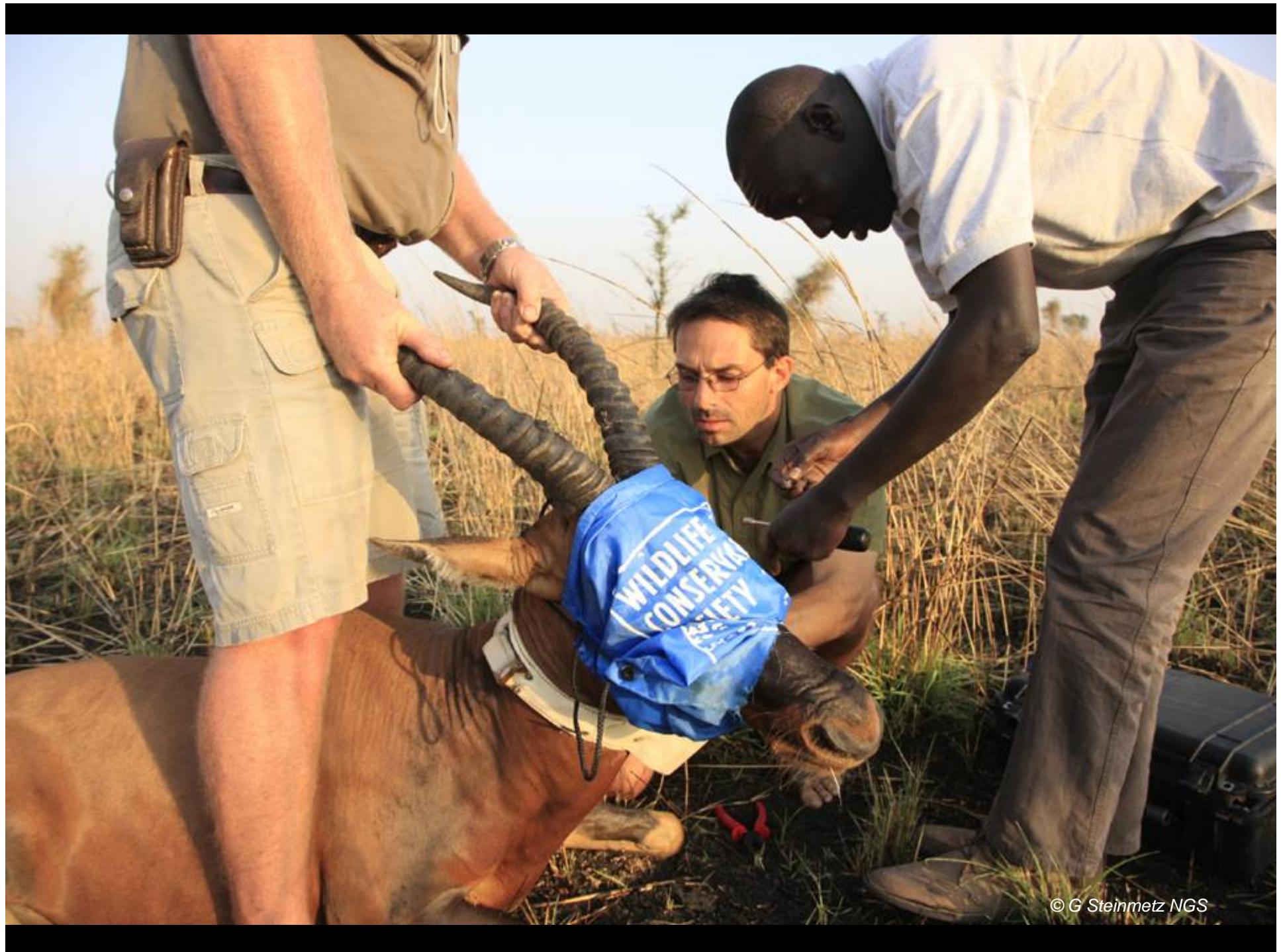
Human & Wildlife Activity



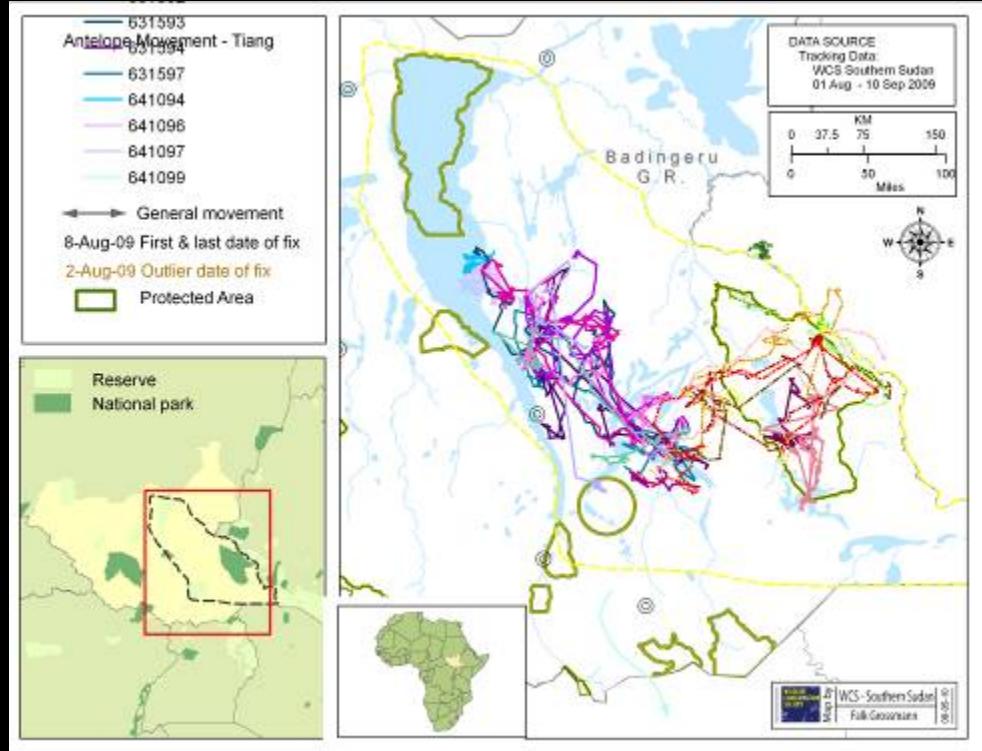
-Combination of datasets from aerials surveys, official datasets and remote sensing

-Creating a landscape wide map of human activity and identifying potential threats to conservation



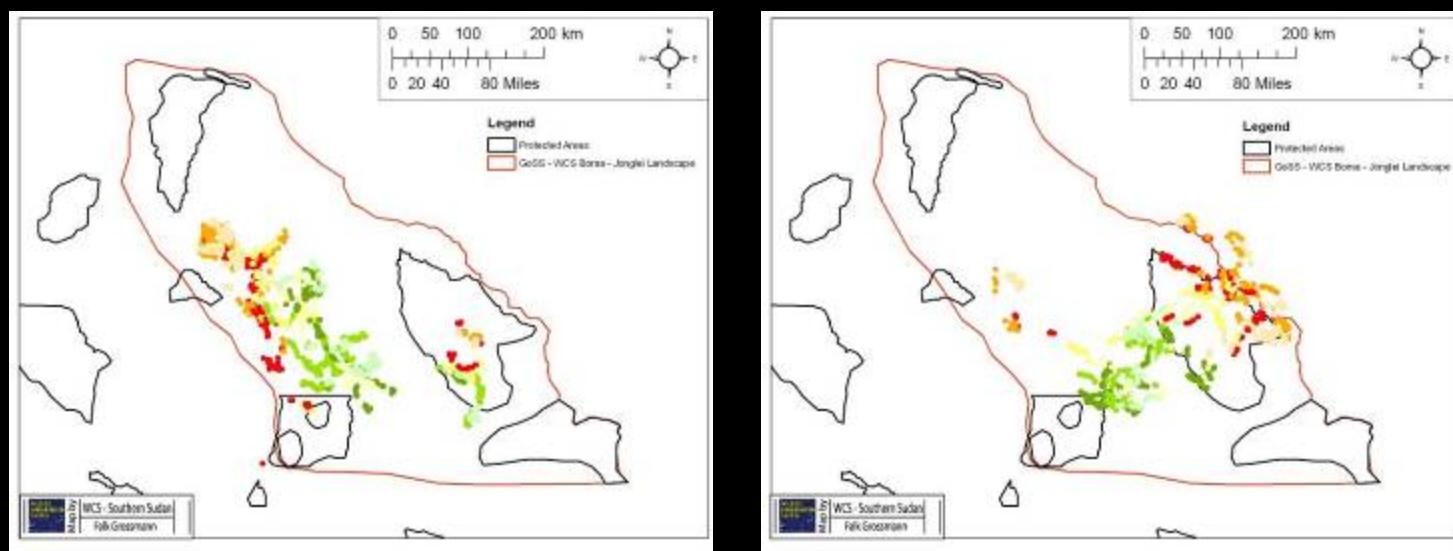


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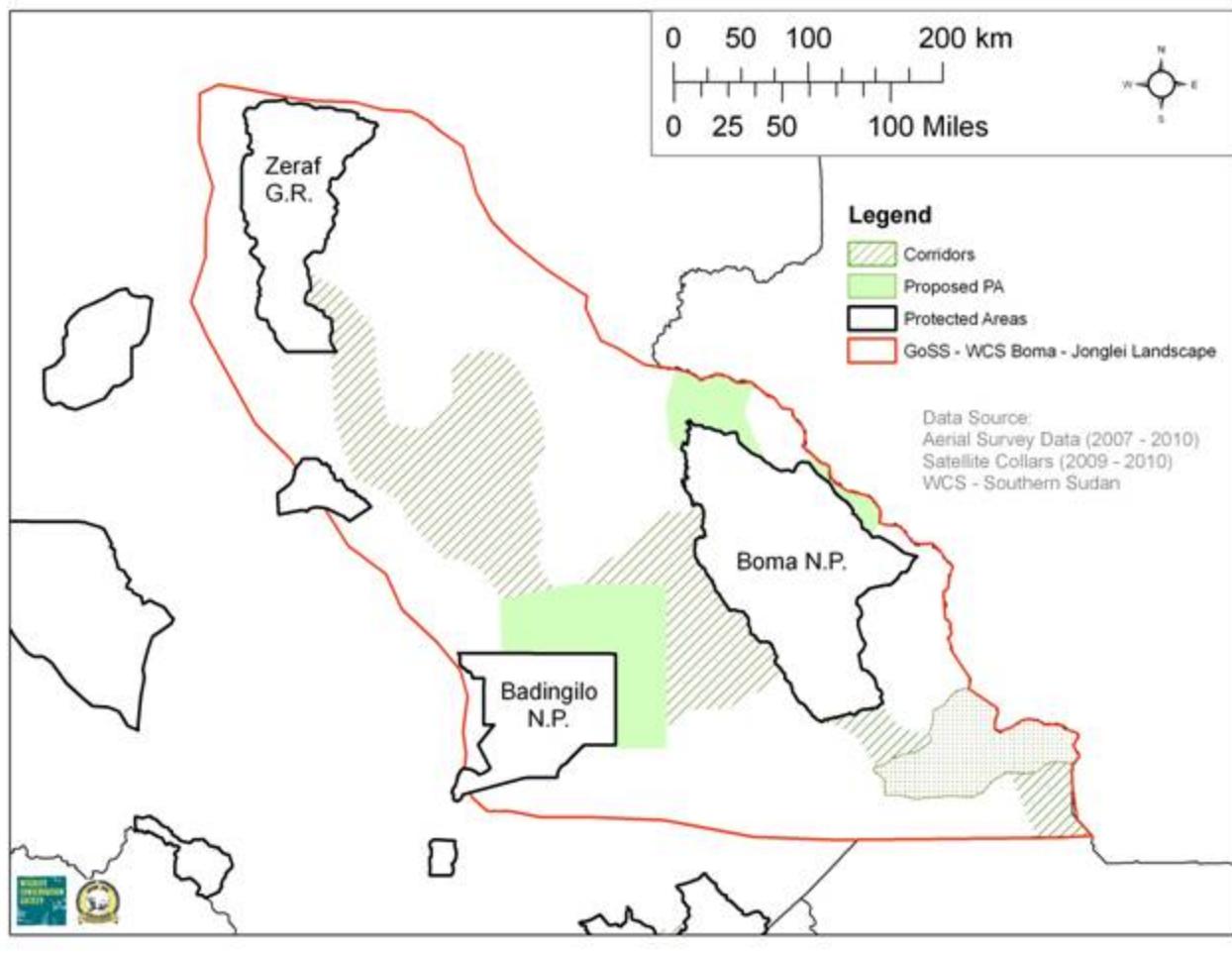


Current investigation focuses on:

1. Identifying key areas for kob and tiang migration and elephant
2. Identify important “corridors” linking key areas
3. Identifying potential threats and guiding intervention



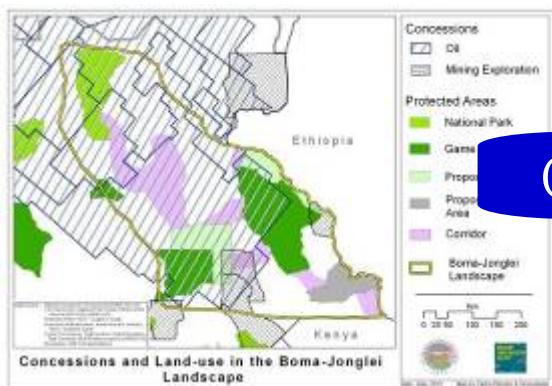
Proposed Corridors



1. Maintain ecological processes - including large-scale gradients
2. Ensure habitat connectivity
3. Maximise wildlife habitat suitability
4. Representative biodiversity pattern

Currently the Boma-Jonglei landscape constitutes one of the largest continuous and intact savanna biomes and terrestrial migrations in the world.

Multi-sectoral Land-use Planning Process – a road map for land-use planning



Clear objectives

Stakeholder participation

Multi-sectoral
zoning

Conflict resolution

Inter-agency
coordination

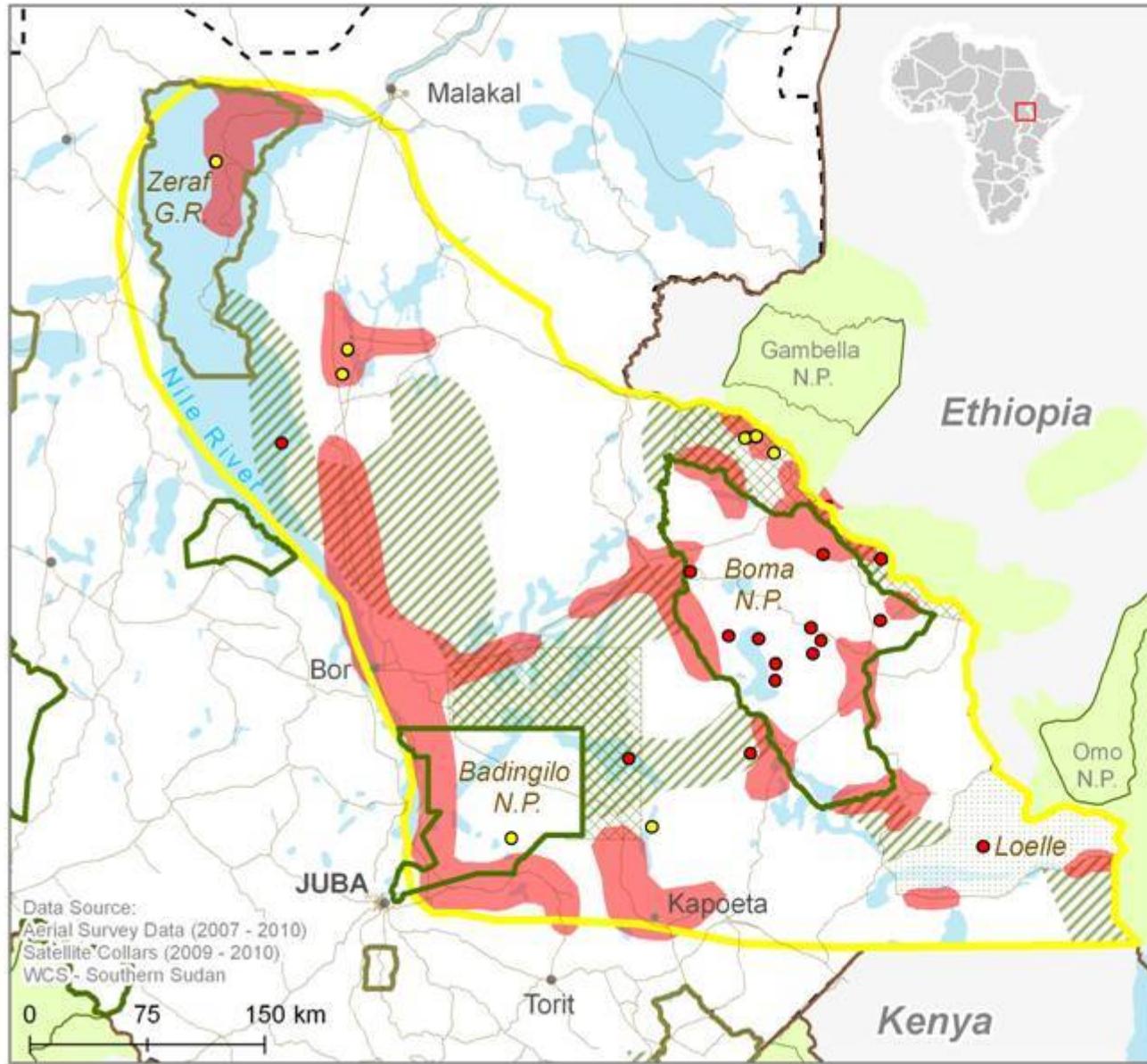
Enabling conditions

Monitoring

Wildlife Law Enforcement & Protected Area Management



Photos © A Schenk WCS



POACHING HOTSPOTS AND ELEPHANT CARCASSES IN THE BOMA - JONGLEI LANDSCAPE

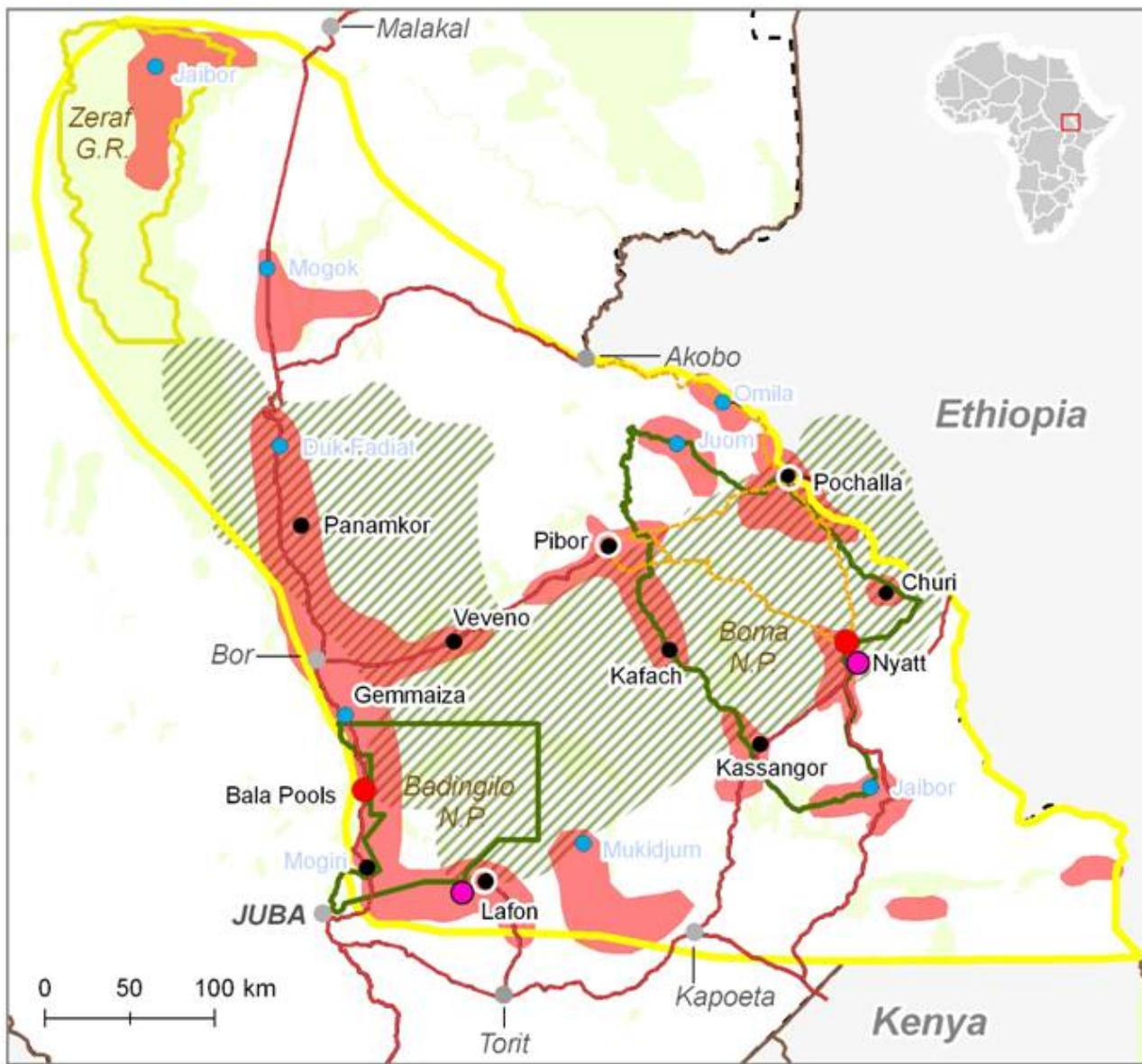
Conservation Areas

- National Park (N.P.)
- Game Reserve (G.R.)
- Migration Corridors
- Proposed Protected Area
- Extension of Current PA's
- Boma-Jonglei Landscape

Hunting Hotspots

- High Hunting Threat
- Elephant Carcass (Old)
- Elephant Carcass (Recent)





DRAFT NOVEMBER 2010

**PLANNED MWCT WILDLIFE PROTECTION
INFRASTRUCTURE DEVELOPMENT
IN THE BOMA - JONLEI LANDSCAPE**

Infrastructure Development

- Park Headquarters
- Park Operations Base
- Patrol Post (Phase I)
- Patrol Post (Phase II)
- WCS Base

Conservation Areas

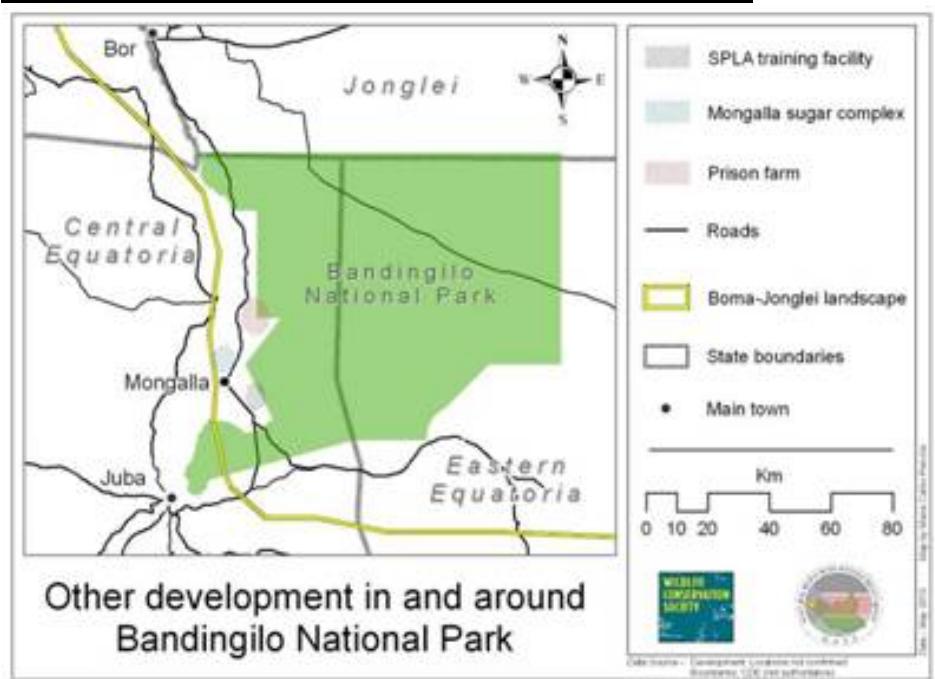
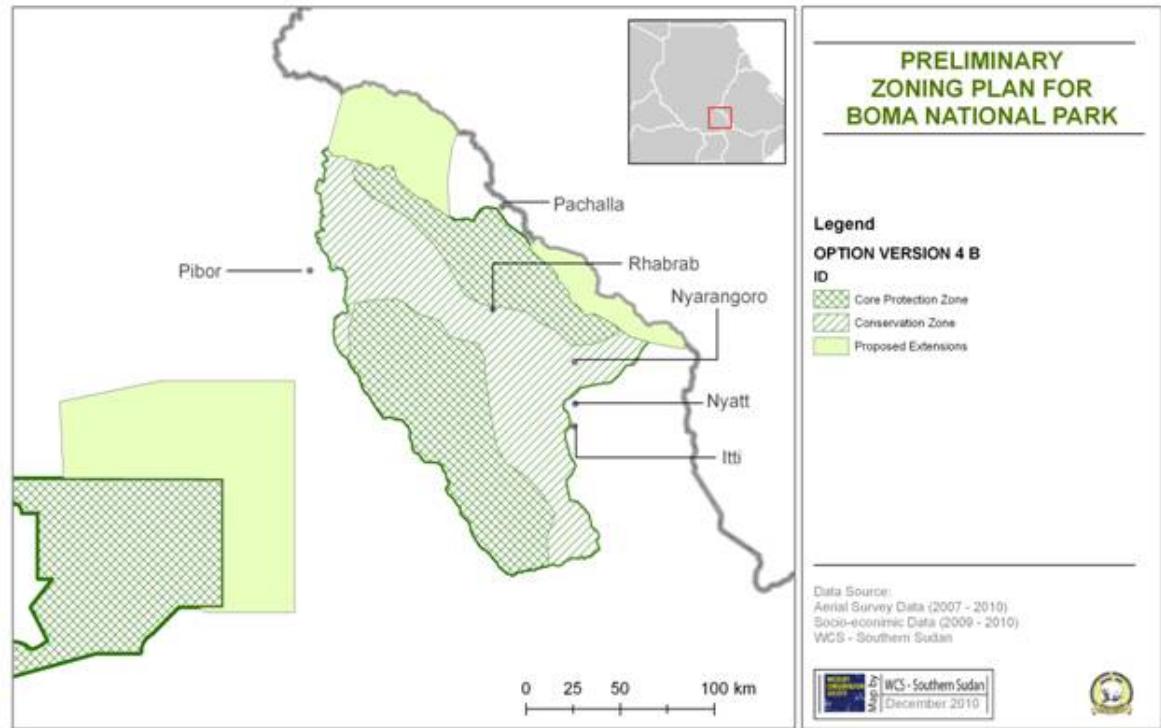
- National Park (N.P.)
- Game Reserve (G.R.)
- ▨ Migration Corridors
- Boma-Jonglei Landscape
- ▨ Important Wetlands

Conservation Threats

- High Hunting Threat
- Principal Road
- Planned Road Rehabilitation

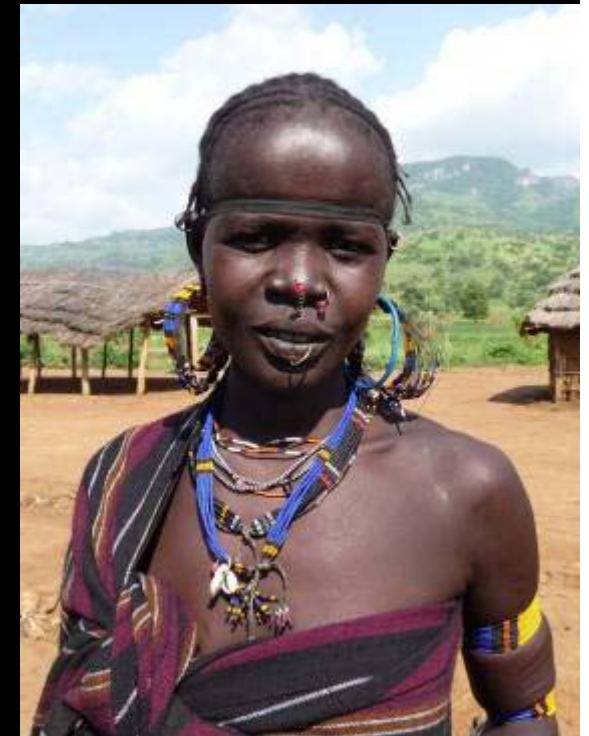


Protected Area Management Planning



Community Conservation and Livelihoods Interventions

- Livelihoods/Small grants targeting key communities in landscape
- Outreach and Education
- Community Partnerships
 - Sustainability initiatives & NRM (fishing, pastoralist-markets, tourism...)
 - Linking PAs and Security
- Wildlife-Livestock-Human Health
- Reaching out to other sectors of USAID, UN, and NGOs to plan rural development



Tourism

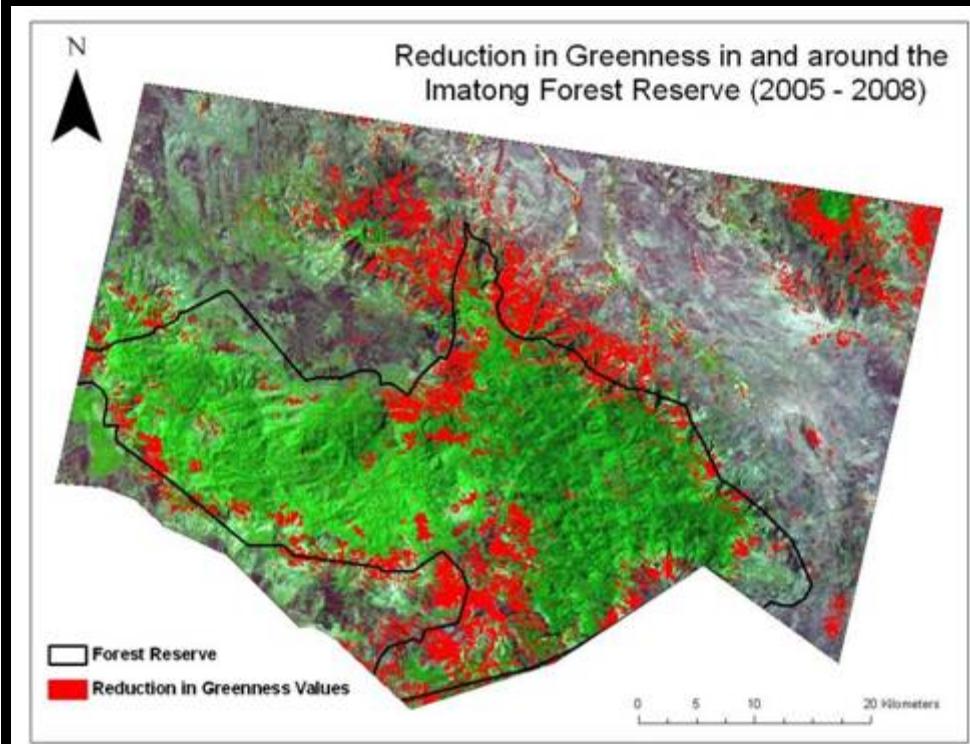
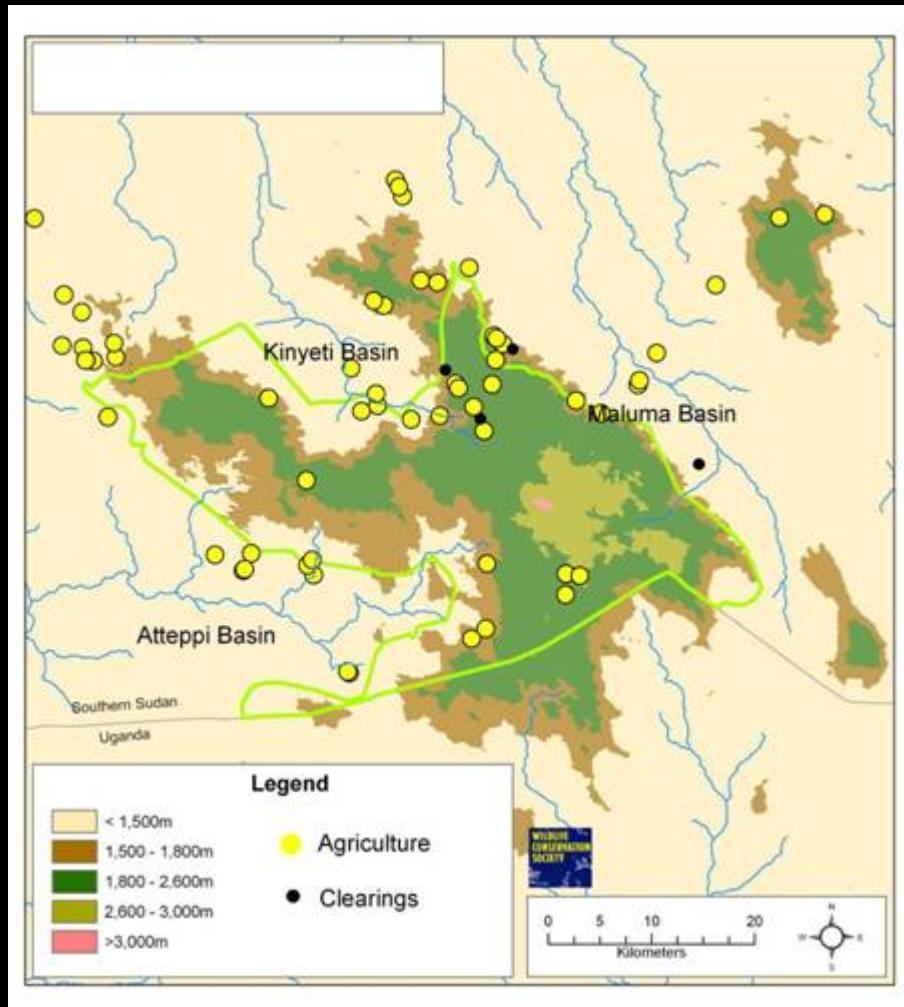


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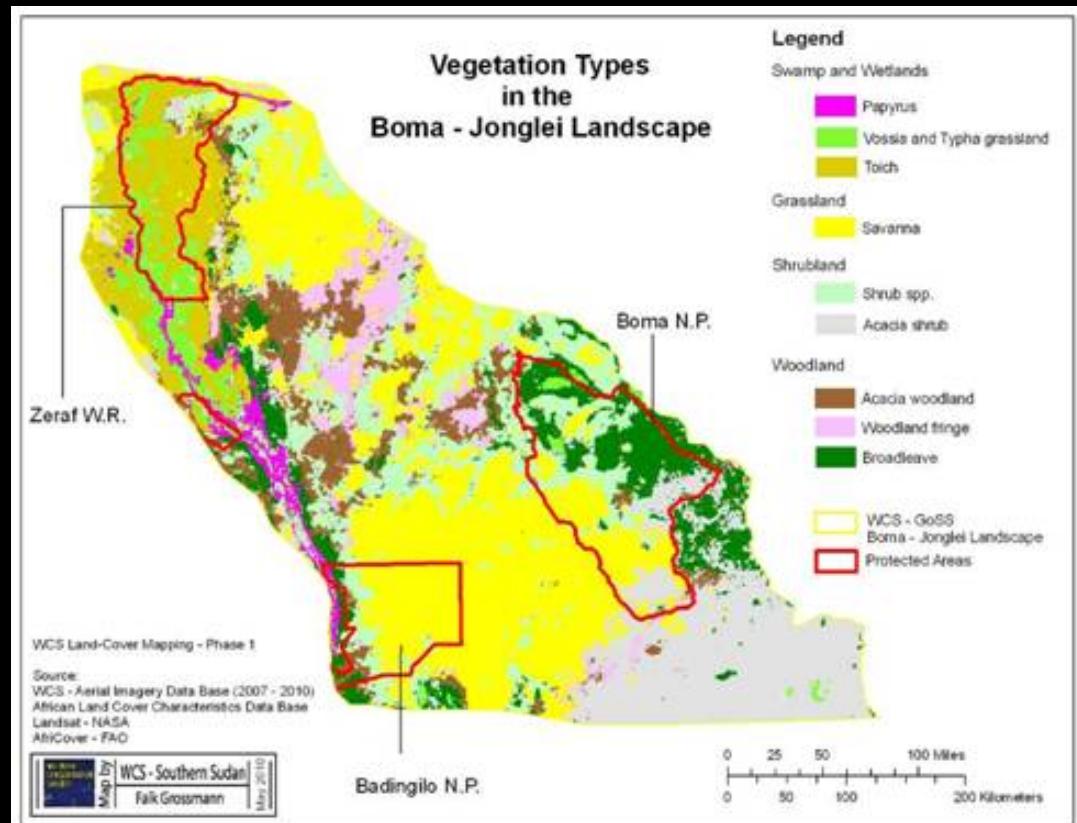
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Imatong aerial, terrestrial, landcover assessments to inform management planning



Climate Change Adaptation and Mitigation

- REDD (Imatong, Jonglei Acacia, etc.)
- Improved and adaptive grazing management
- Sudd wetland-Ecosystem Service Valuation



DRAFT

PROTECTED AREAS AND LINKAGES IN THE BOMA - JONGLEI LANDSCAPE

Gazetted Conservation Areas

- National Park
- Game Reserve
- Forest Reserve
- PA's Outside of Sudan

Proposed Conservation Areas

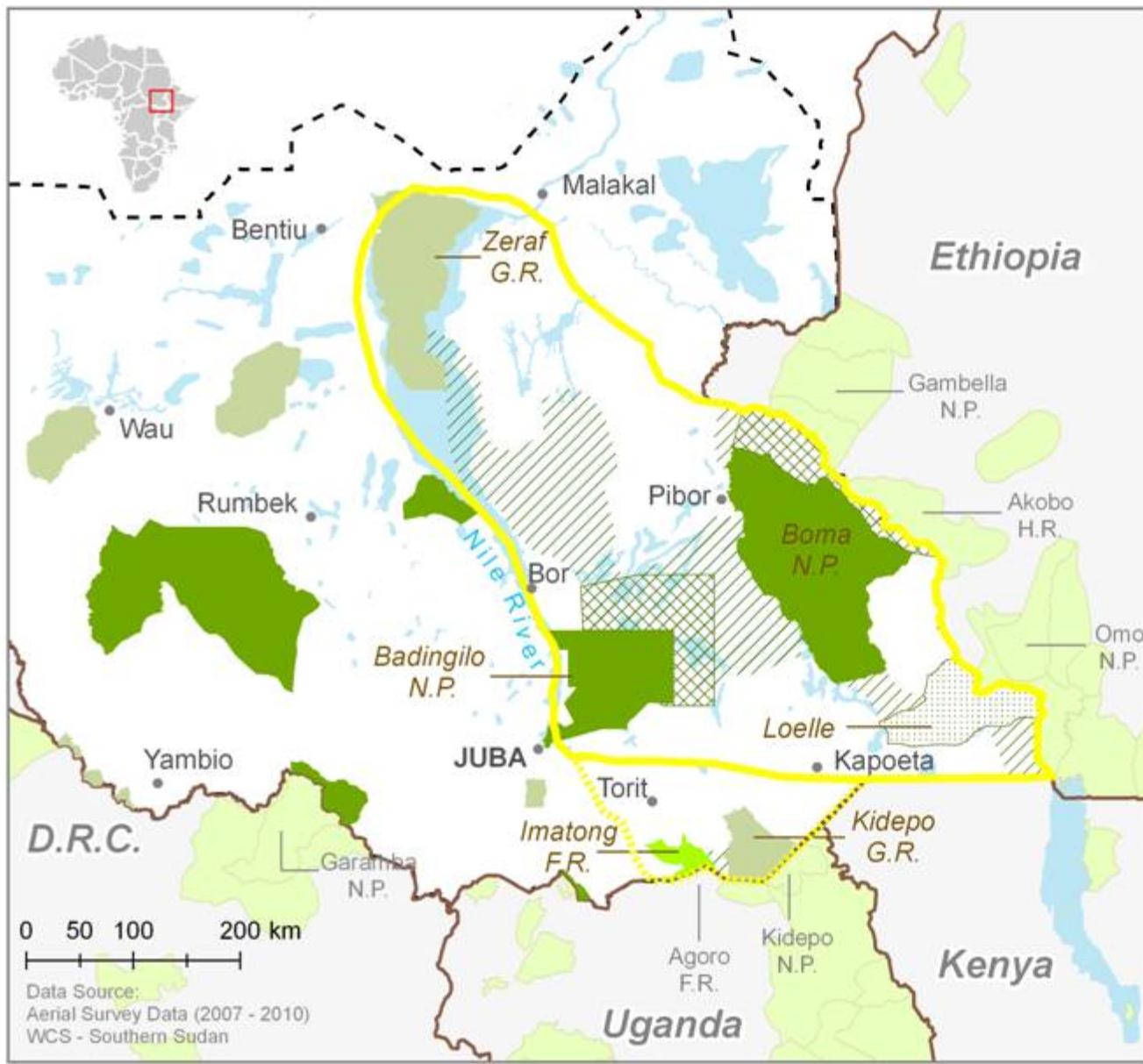
- New Protected Area
- Extension of Current PA's

Critical Movement Corridors

- Migration Corridors

GoSS - WCS Conservation Landscape

- Current Boma - Jonglei
- Proposed Boma - Jonglei



Window of Opportunity

- Establish protected areas and amplify conservation with linkages security (prevent and resolve land conflicts, improve security)
- Professionalization of Wildlife Staff and PA management
- Eco-tourism (high end, low volume)
- Pastoralism-wildlife partnerships (security, health, grazing management, wildlife monitoring)
- Land-use planning and management (resolution of local land conflicts, coordinated zoning, etc..)
- Oil and mining concession private sector engagement
- Transboundary cooperation (S.Sudan-Ethiopia and Kenya, Uganda)
- Climate change mitigation and adaptation



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