Lecture given at the

WCS Workshop on Land Change Modeling for REDD

October 25-29, 2010

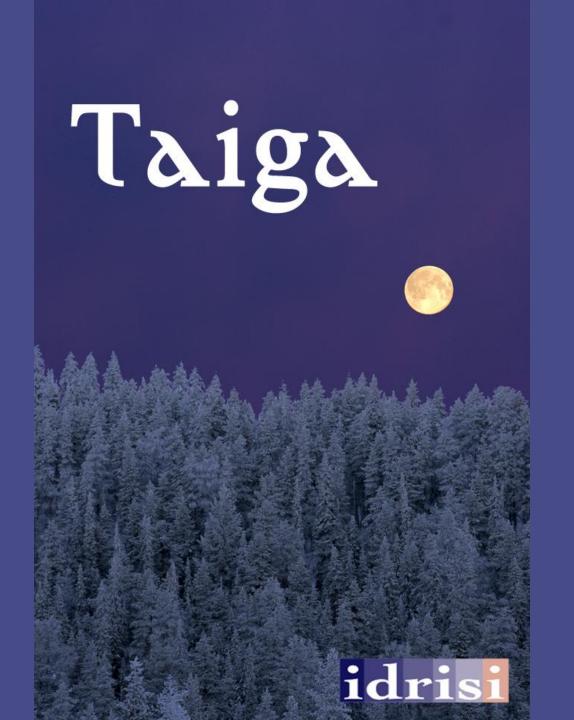
Wildlife Conservation Society - Bronx Zoo Bronx, New York, USA

Hosted by

Clark Labs and the Wildlife Conservation Society



This workshop was generously supported by the American people through the United States Agency for International Development (USAID), under the terms of the TransLinks Cooperative Agreement No.EPP-A-00-06-00014-00 to the Wildlife Conservation Society (WCS). TransLinks is a partnership of WCS, The Earth Institute, Enterprise Works/VITA, Forest Trends and the Land Tenure Center. The contents are the responsibility of the authors and do not necessarily reflect the views of USAID or the United States government.







Content:

- Current Forest and Non-forest
- Transition Potential for Disturbance
- Business-as-usual
- Perfect Protection
- Protection with 100% Area Leakage
- Uniform Carbon Density Map
- Non-uniform Carbon Density Map
- Carbon Mass Comparison

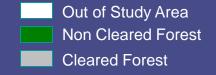






Forest and Non-forest (2004)



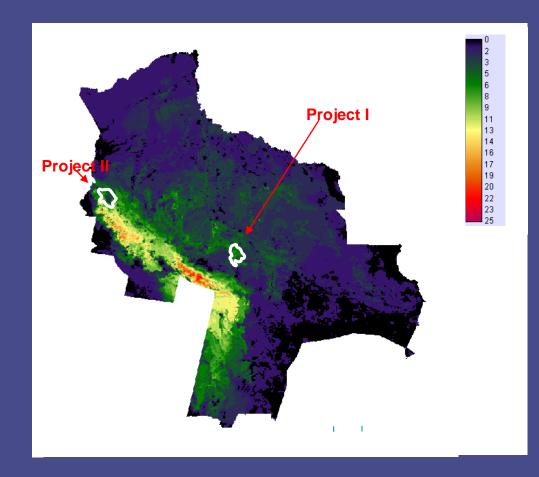








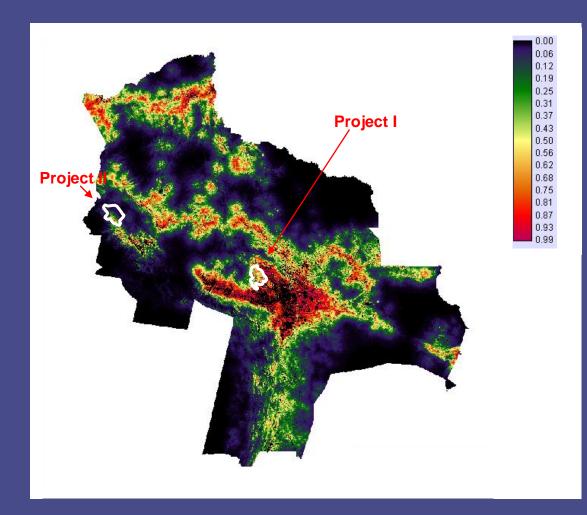
Alpha Biodiversity Index







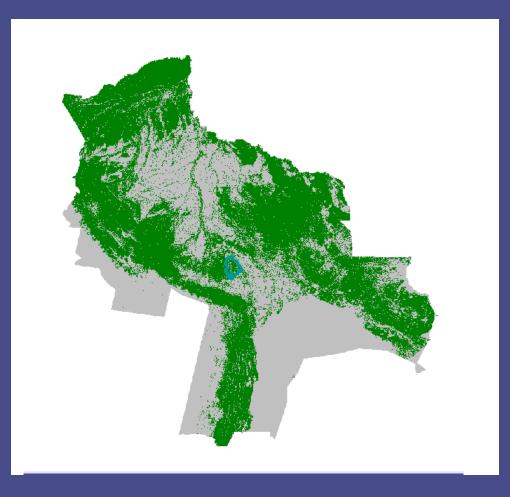
Transition Potential for Disturbance







Forest and Non-Forest (2004)



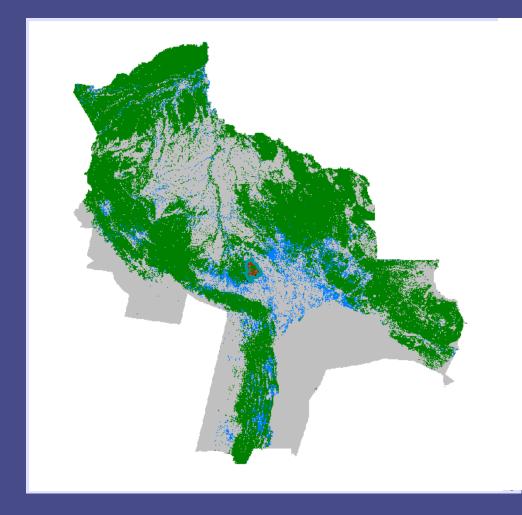
Out of Study Area
Non Cleared Forest
Cleared Forest
Project I







Business-as -Usual (2015)

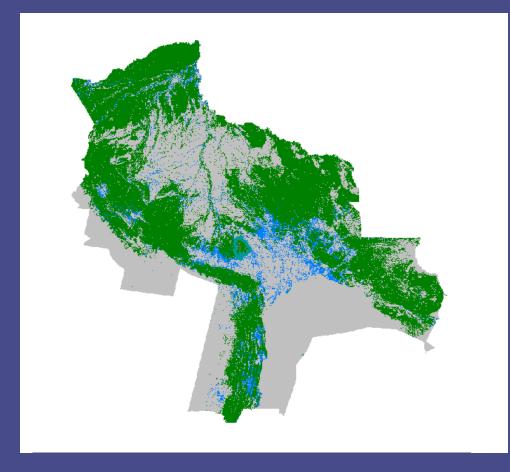


Out of Study Area
Non Cleared Area
Newly Cleared Outside Protected Area
Newly Cleared Inside Protected Area
Previously Cleared Outside Protected Area
Previously Cleared Inside Protected Area
Project I





Perfect Protection (2015)



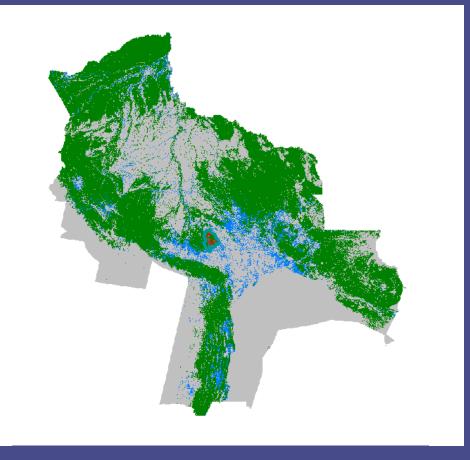
Out of Study Area
Non Cleared Area
Newly Cleared Outside Protected Area
Previously Cleared Outside Protected Area
Previously Cleared Inside Protected Area
Project I







Displacement of Protection 1



Out of Study Area
Non Cleared Area
Newly Cleared Outside Protected Area
Newly Cleared Inside Protected Area
Leakage Outside Protected Area
Previously Cleared Outside Protected Area
Previously Cleared Inside Protected Area
Previously Cleared Inside Protected Area
Project I







Displacement of Protection 1



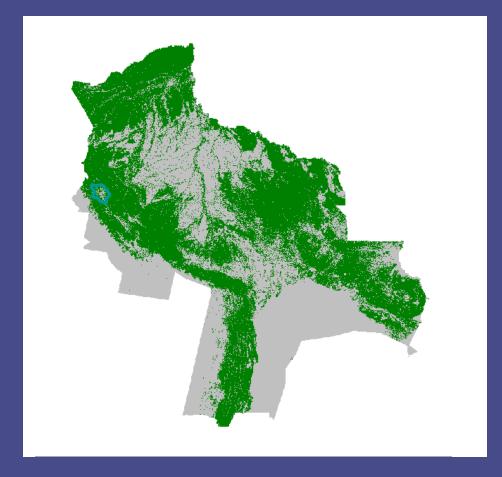


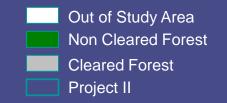






Forest and Non-Forest (2004)



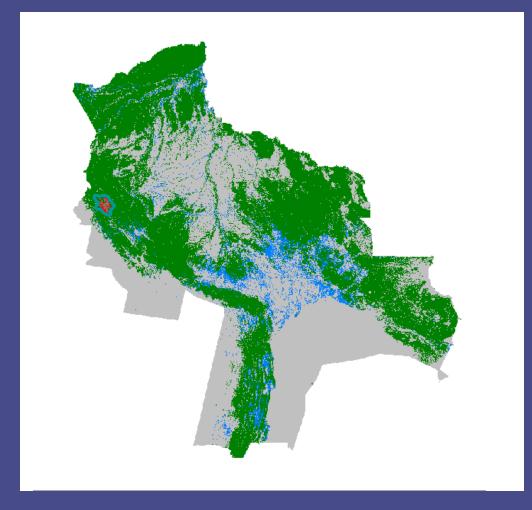








Business-as-Usual (2015)

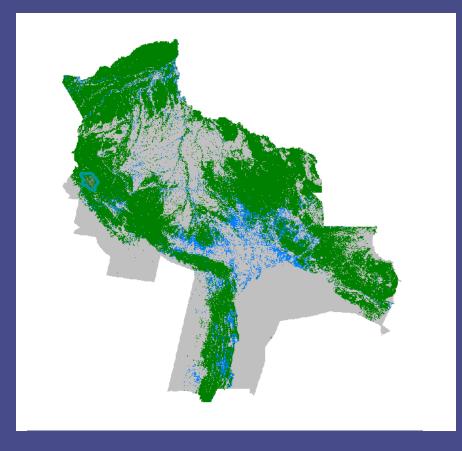


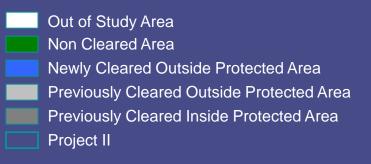
Out of Study Area
Non Cleared Area
Newly Cleared Outside Protected Area
Newly Cleared Inside Protected Area
Previously Cleared Outside Protected Area
Previously Cleared Inside Protected Area
Project II





Perfect Protection (2015)



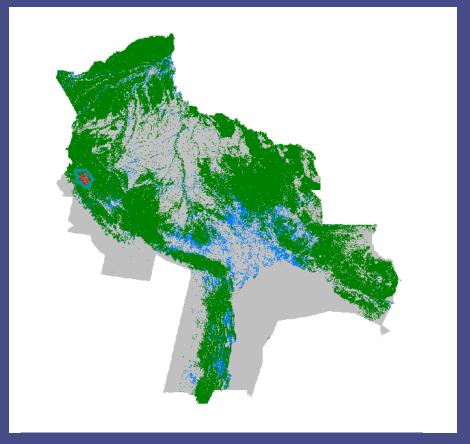


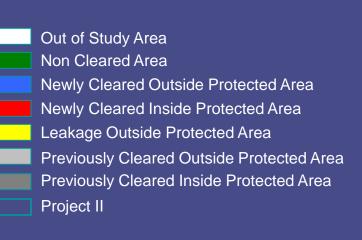






Displacement of Protection II











Displacement of Protection II



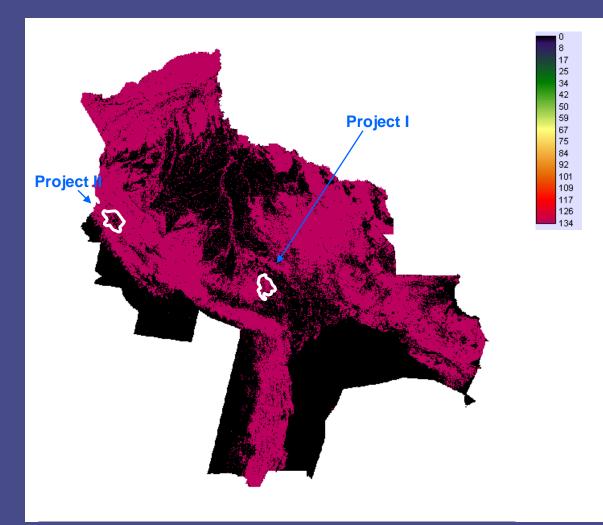
Out of Study Area
Newly Cleared Inside Protected Area
Leakage Outside Protected Area
Etc
Project II







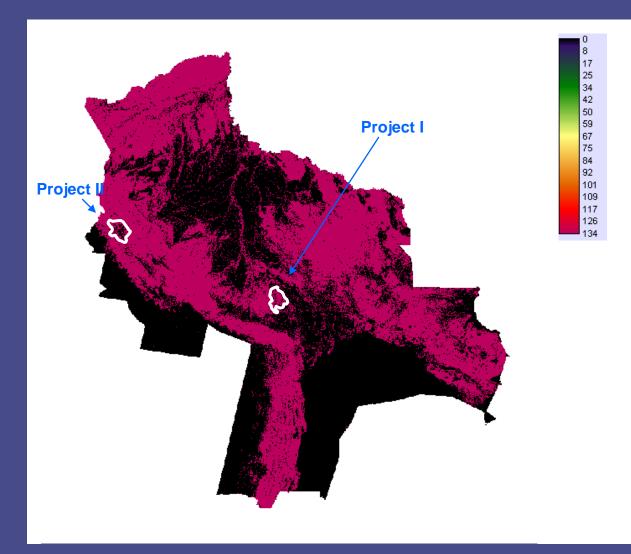
Uniform Carbon Density



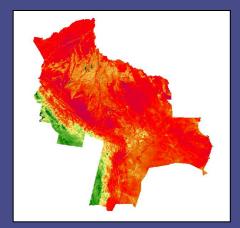




Spatial Carbon Distribution



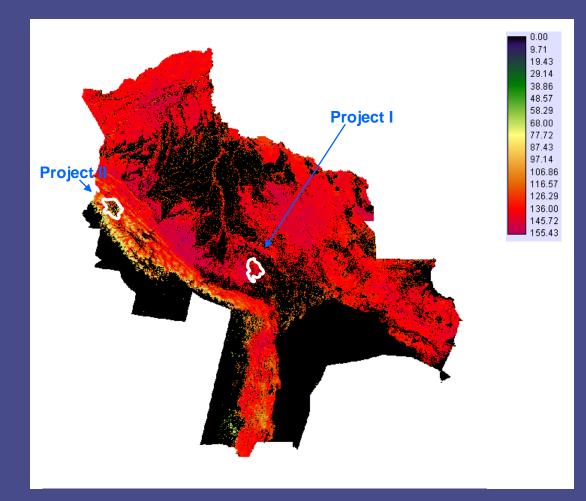




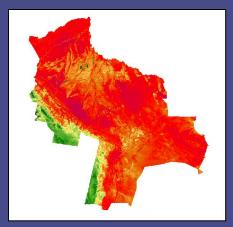




Non-Uniform Carbon Density



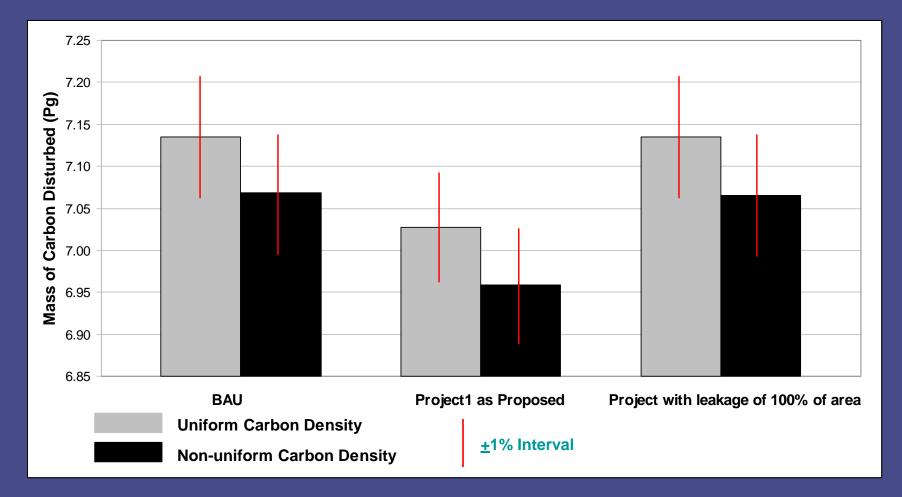
Mean Annual NDVI 1999







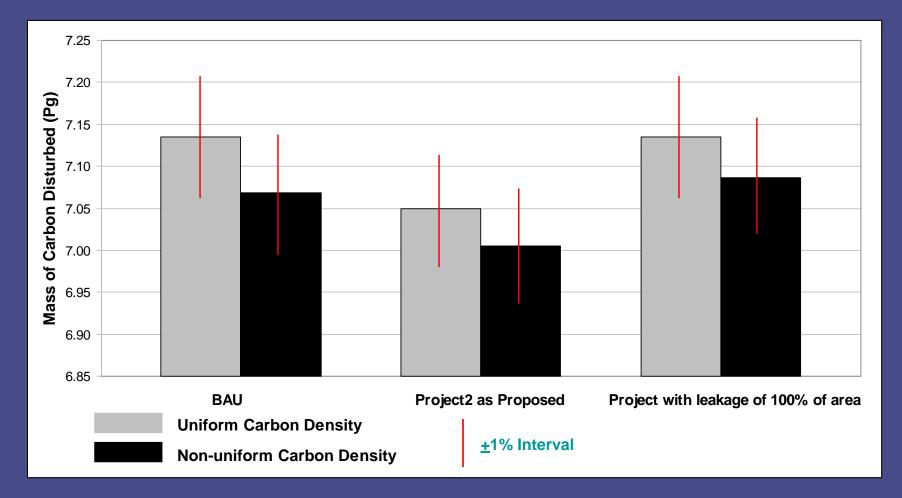
Carbon Mass Protection I







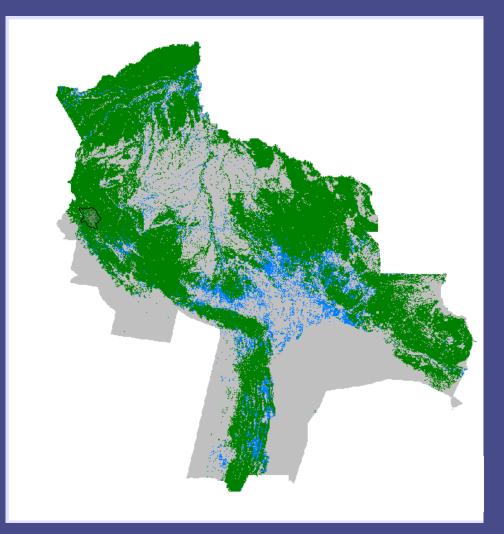
Carbon Mass Protection II

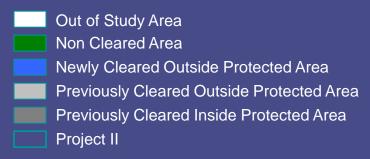






100% Leakage (2015)









100% Leakage (2015)



Out of Study Area
Non Cleared Area
Newly Cleared Outside Protected Area
Previously Cleared Outside Protected Area
Previously Cleared Inside Protected Area
Project I





