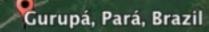
## Livelihoods or Hardwoods: extractive reserves, logging, and a sustainable future?

Kevin McDaniel University of Florida



Belém, State of Pará, Brazil

Google earth

Rio Amazonas, Brazil

Ringu River, Brazil

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Image Landsat

Imagery Date: 4/9/2013 1°28'47.58" S 51°07'36.02" W elev 95 ft eye alt 928.53 ml

Photo: Google Earth Screen capture of Gurupá



## Example of timber extraction. Photo credits-Dr. Richard pace



Timber extraction equipment shipped into Gurupá. Photo credits- Dr. Richard Pace



## Slash and Burn clearing- Photo Credits-Dr. Richard Pace



Amazonian Dark Earth. Left:Ceramics *in situ* .Right: Profile image of dark earth and regular soils.-Photo credits-Dr. Richard Pace

## Many Thanks

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