

# LBA-Air-ECO?

- **Discuss potential ways to recover the airborne remote sensing science objectives**



# COBRA

- **Measure atmospheric CO<sub>2</sub> concentration to estimate regional carbon balance**
- **Fly with BARCA (Balanço Regional de Carbono na Amazônia)**
- **Brazilian Lear jet (LIDER) w/ modified door**
- **November 2004 and May 2005 (?)**



# AVIRIS

- **Hyperspectral imaging spectrometer used by LBA-ECO and INPE teams**
- **Hyperion satellite hyperspectral images (>50 to date) are high quality and will allow 10-20% of original objectives to be met**
- **Brazilian Air Force aircraft**
  - C130
  - SIVAM Cessna Caravan
  - Commercial aircraft would require expensive modification
- **ALSA+ commercial hyperspectral sensor (Indiana)**
  - 6 weeks after July 2004 on INPE Bandeirante



# LVIS

- Lidar to map ground and canopy topography, canopy structure, and above ground biomass
- No satellite alternatives
- FAB C130
- FAB Learjet
- LIDER Learjet (same on as BARCA)
- INPE Bandeirante
- Max cost benefit: mapping effort over areas with most well quantified AGB



# Approval Needed!

- Agreement options are being studied and coordinated with NASA HQ and Brazilian MCT

