



BUNIAACIC: Intensive field deployment

James Allan University of Manchester NCAS Composition



The University f Manchester



Potential 2013 scheduling conflicts at Manchester

- Overlap with people and instruments
- Potential cruises in March and September, although March is currently in doubt
- ACIDPRUF
 - Lab work, same PI, therefore flexible
- MICROSCOPE
 - Summer 2013, but currently not well defined
 - Probably sufficient redundancy so as not to cause a problem



The University of Manchesté



Scheduling options

- Need to allow plenty of time for shipping/customs
- If the March ACCACIA cruise goes ahead:
 June-July
- If the cruise is cancelled/postponed:
 March-April?



versit



Aerosol Science themes

- General aerosol characterisation
 - Been done already by AMAZE
 - Being done as part of long-term measurement activity
- Biomass burning
 - Will have already have been done better by SAMBBA
 - Wrong time of year anyway
- Biological aerosols
 - Done by AMAZE, but plenty of scope for more work
- Interactions between pollution and natural forest atmosphere
 - Good synergy with GO-AMAZON
 - Reliant on seeing plumes from cities
- Aerosol chemistry experiment (similar to OP3)
 - Would need much more instrumentation
- Others?
 - Links with CLARE?





Manchester instrumentation

- Aerosol Mass Spectrometer (AMS)
- Wide Issue Bioaerosol Sensor (WIBS)
- Single Particle Soot Photometer (SP2)
- Hygroscopicity Tandem Differential Mobility Analyser (HTDMA)
- Cloud Condensation Nuclei Counter (CCN)
- Environmental Scanning Electron Microscopy (ESEM)













Sites near Manaus

- Agricultural school
 - Currently used for remote sensing work
 - Close to anthropogenic sources
- TT34

he Universit f Mancheste

- Site previously used by AMAZE
- Existing facilities and long-term measurements
- On site accommodation



The University of Manchesté



Other considerations

- Shipping/customs
 - Been advised to initially ship to Sao Paulo or Rio, as these have better customs
- Shipping container(s)
 - Plenty of existing space at TT34, so might not be needed
 - Probably space for 1 20ft container at TT34 if required
 - Will it help or hinder us through shipping and customs?



The University of Mancheste



Discussion points

- Links with other projects/institutions
 - Who is in/out?

• Timing of experiment

A more definitive science plan & instrument list