

AMMA Instrument Form

SB3

Code	PI (Name, E-Mail)	Labo and TT.	AMMA Period	Funding Source
AS.TMS_O	Alastair Lewis acl5@york.ac.uk	U. York, TT8	June OR July 2006	NERC

Description of the instrument. temperature and flow controlled adsorption tube sampling equipment for collection of volatile organic compounds.

Scientific team. Alastair Lewis, Julie Saxton, University of York

Technical team. Local assistance will be arranged as required

Scientific Objectives. Assessment of the dominant biogenic species, particularly terpenoids and carbonyl compounds, present in boundary layer above this region of West Africa. The data will be used to determine biogenic influence on both local and regional ozone processes and potential organic aerosol formation.

Observation Strategy. Diurnal variation by sampling for 10 minutes every hour for 24 hours, intensive observations for periods of up to 3 hours, surveying emitted biogenic species using branch enclosures, flux measurement of biogenic emissions using branch enclosure. Surface measurements carried out at Djougou will complement the similar measurements made on the BAE 146 during SOP 2_a2 and measurements of species such as isoprene / ozone made by the Serca group (EF33, **AE.VAN_Od**)

Links with other instruments. Chemistry suite in Djougou, possibly BAE146 aircraft overhead measurements.

WPs relying on the instrument: 4.2

OPERATION and COLLABORATIONS

Déployment (site, dates, logistics). Expected deployment in Djougou area for up to 3 weeks during June/July 2006.

African Partners. None at present

INFORMATION for the DATA BASE. All data are available near real time from the Atmospheric Radiation Measurement program archive, www.arm.gov

Type of platform:

Type of instrument:

Sensor producer:

Serial number of sensor:

Information about calibration:

Site and position of sensor(s):

Measured parameters:

Data provided to the AMMA data base:

Unit of data provided: