

AE.Ba.CO2_G - Tethered balloon (CO2, PTU profiles), Gourma meso-scale site

General information

Dataset name: AE.Ba.CO2_G - Tethered balloon (CO2, PTU profiles), Gourma meso-scale site
Created on: 2006-01-04

Contact(s)

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Period

Date begin (yyyy-mm-jj): 2005-08-06
Date end (yyyy-mm-jj): 2005-08-22

Project(s)

AMMA > AMMA-EOP

Data description

Abstract

Inferring landscape-scale night-time surface CO2 fluxes from concentration profiles. Documenting near surface night-time atmosphere, nocturnal boundary layer, and day-time convective boundary layer.

Observing strategy

Nighttime profiles in August 2004 and August 2005 (0-200 m).
Daytime profiles in 2006 (max 0-1800 m)

Site information

Location name: AGOUFOU
Platform type: Balloons/Rockets
West bounding coordinate (°): -1.48
East bounding coordinate (°): -1.48
North bounding coordinate (°): 15.33
South bounding coordinate (°): 15.33
Altitude min: 265

Altitude max: 1076

Instrument 1 (TETHERSONDES)

Sensor

Instrument type:	TETHERSONDES
Manufacturer:	Vaisala
Model:	TS-5A-SP

Instrument 2 (CO2 ANALYZERS)

Sensor

Instrument type:	CO2 ANALYZERS
Manufacturer:	Vaisala
Model:	GMP434

Measured parameter: Carbon Dioxide Mixing Ratio

Parameter name:	Carbon Dioxide Mixing Ratio
Parameter keyword:	Atmosphere > Atmospheric Chemistry
Unit:	ppmv

Data use information

Use constraints: AMMA data policy

++ AND ++ PLEASE CITE:

Bain, Caroline L., Parker, Douglas J., Taylor, Christopher M., Kergoat, Laurent and Guichard, Françoise. Observations of the Nocturnal Boundary Layer associated with the West African Monsoon, Monthly Weather Review, in press, doi 10.1175/2010MWR3287.1

Data policy: AMMA data policy