CE.SW_G - Soil profile measurement network, Gourma meso-scale site

General information

Dataset name:	CE.SW_G - Soil profile measurement network, Gourma meso-scale site
Created on:	2006-01-09

Contact(s)

Grippa Manuela - GET - manuela.grippa@get.obs-mip.fr (PI or Lead scientist)

Period

Date begin (yyyy-mm-jj):	2004-04-08
Date end (yyyy-mm-jj):	2010-01-01

Project(s)

AMMA > AMMA-EOP

Data description

Abstract

Documentation of the soil moisture dynamic in sahelian region. The aim is to characterize the spatial variability of the soil moisture, with particular attention focussed on the meridional gradient in the Gourma mesoscale site. Vertical and temporal variabilities are also very important. The data set will improve our understanding of land surface processes (WP2.3), continental water budget (WP1.2) and surface-atmosphere retroactions (WP1.3). It will be used in modelling and assimilation activities (WP4.1.2), as well as for validation of satellite products (WP4.3).

Observing strategy

Network of 9 moisture and temperature profile measurements covering various types of soil/vegetation in the Gourma meso scale site.

The soil moisture variability measurements are part of a complete land surface processes observation strategy, with vegetation and meteorological observations.

The objective is to use the soil moisture data together with modelling and remote sensing approaches to study the soil-plant-atmosphere interactions at different scales.

Site information

Location name:	network Gourma
Plateform type:	GROUND STATIONS
West bounding coordinate (°):	-1.789
East bounding coordinate (°):	14.7284
North bounding coordinate (°):	17.099
South bounding coordinate (°):	14.7284
Altitude min:	280
Altitude max:	315

Instrument 1 (TEMPERATURE PROBES)

Sensor

Instrument type:	TEMPERATURE PROBES
Model:	Theta Probe

Instrument 2 (SOIL TEMPERATURE PROBE)

Sensor

Instrument type:	SOIL TEMPERATURE PROBE
Model:	PT108

Measured parameter: Soil Temperature

Parameter name:	Soil Temperature
Parameter keyword:	Land Surface > Soils > Soil Temperature
Unit:	Degrees Celsius - °C
Date begin (yyyy-mm-jj):	2004-04-08
Date end (yyyy-mm-jj):	2010-01-01

Instrument 3 (SOIL MOISTURE PROBE)

Sensor

Instrument type:	SOIL MOISTURE PROBE
Manufacturer:	Campbell
Model:	CS616

Measured parameter: Soil Moisture/Water Content

Parameter name:	Soil Moisture/Water Content
Parameter keyword:	Land Surface > Soils > Soil Moisture/Water Content
Unit:	percent - %
Date begin (yyyy-mm-jj):	2004-04-08
Date end (yyyy-mm-jj):	2010-01-01

Data use information

Use constraints:	Permission is granted to use these data in research and publications when accompanied by the following statement: "The AMMA-CATCH regional observing system was set up thanks to an incentive funding of the French Ministry of Research that allowed pooling together various pre-existing small scale observing setups. The continuity and long term perenity of the measurements are made possible by an undisrupted IRD funding since 1990 and by a continuous CNRS-INSU funding since 2005."
Original data format(s):	ascii text