

AE.GPS_1 - EOP GPS Network, Dakar, Djougou, Gao, Niamey

General information

Dataset name: AE.GPS_1 - EOP GPS Network, Dakar, Djougou, Gao, Niamey
Created on: 2005-12-13

Contact(s)

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Period

Date begin (yyyy-mm-jj): 2005-01-01
Date end (yyyy-mm-jj): 2011-06-17

Project(s)

AMMA > AMMA-EOP

Data description

Abstract

Analysis of the variability water vapor throughout the troposphere (diurnal cycle, intra-seasonal and interannual variability). Monitoring of the Monsoon front to the North, passage of MCS in the Catch window, assimilation into mesoscale atmospheric models (case studies and water budgets).

Observing strategy

Three stations will be installed on a meridian transect (centered on 0-2°E): Djougou, Niamey and Gao. They will measure continuously integrated water vapor, over the 3 years of the EOP. They will complement observations from existing IGS network (Dakar, Yamassoukro and Libreville). These sites should be maintained after 2007 either within the LOP structure or through long-term cooperation with African partners.

Instrument information

Sensor

Manufacturer: INSU
Model: GPS Receiver

Geographic information

GPS Network, Dakar, Djougou, Gao, Niamey

Location name:	GPS Network, Dakar, Djougou, Gao, Niamey
Platform type:	GROUND STATIONS
West bounding coordinate (°):	-17.47
East bounding coordinate (°):	2.18
North bounding coordinate (°):	16.73
South bounding coordinate (°):	9.55
Altitude min:	15.7
Altitude max:	402.3

Measured parameters

Zenith Tropospheric Delay

Parameter name:	Zenith Tropospheric Delay
Parameter keyword:	Atmosphere > Atmospheric Water Vapor
Unit:	meters
Date begin (yyyy-mm-jj):	2005-01-01
Date end (yyyy-mm-jj):	2011-06-17

Integrated Water Vapor

Parameter name:	Integrated Water Vapor
Parameter keyword:	Atmosphere > Atmospheric Water Vapor
Unit:	kilograms per square meter
Date begin (yyyy-mm-jj):	2005-01-01
Date end (yyyy-mm-jj):	2011-06-17

Data use information

Use constraints: AMMA data policy +

Take note of and make reference to the following publication regarding the AMMA GPS data:

Bock, O., M.N. Bouin, E. Doerflinger, P. Collard, F. Masson, R. Meynadier, S. Nahmani,
M. Koité, K. Gaptia Lawan Balawan, F. Didé, D. Ouedraogo, S. Pokperlaar,
J.-B. Ngamini,

J.P. Lafore , S. Janicot, F. Guichard, M. Nuret, The West African Monsoon
observed with
ground-based GPS receivers during AMMA,
J. Geophys. Res., 113, D21105, doi:10.1029/2008JD010327.
AMMA data policy

Data policy: