

Turbulence parameters within the atmospheric boundary layer (IMPETUS dataset ID = 224)

General information

Dataset name: Turbulence parameters within the atmospheric boundary layer (IMPETUS dataset ID = 224)
Created on: 2006-09-20

Contact(s)

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Period

Date begin (yyyy-mm-jj): 2002-08-17
Date end (yyyy-mm-jj): 2002-09-26

Project(s)

IMPETUS

Data description

Abstract

Turbulence characteristics and parameters describing the energy exchange between atmosphere and surface, measured 6m above a field of maize, 30min mean values during several days within the period, mostly during daytime. Raw data see Metadata ID 125, Title: Meteorological data with high temporal resolution. Parameter, Attribute list: air temperature, wind direction, vertical wind speed, horizontal wind speed, water vapour density, turbulent flux of sensible heat, turbulent flux of latent heat. Dataset created by IMPETUS subproject A3.

No information about Data Lineage; No information about Data Consistency; Data Completeness: some days missing; No information about Positional Accuracy; Data Completeness: dataset contains calculated accuracy of turbulent fluxes

Observing strategy

Turbulence in the lower boundary layer and energy exchange between atmosphere and surface

Geographic information

Doguè

Location name: Doguè

Ouémé Upper Catchment (HVO)

Location name: Ouémé Upper Catchment (HVO)

West bounding coordinate (°): 1.2056

East bounding coordinate (°): 3.0008

North bounding coordinate (°): 10.3814

South bounding coordinate (°): 8.6763

IMPETUS_224

Location name: IMPETUS_224

West bounding coordinate (°): 1.94

East bounding coordinate (°): 1.94

North bounding coordinate (°): 9.1

South bounding coordinate (°): 9.1

Measured parameters

Air humidity

Parameter name: air humidity

Parameter keyword: Atmosphere > Atmospheric Water Vapor > Water Vapor Indicators > Humidity

Atmosphere land interactions

Parameter name: atmosphere land interactions

Microclimate

Parameter name: microclimate

Energy fluxes

Parameter name: energy fluxes

Boundary layer

Parameter name: boundary layer

Wind Speed

Parameter name: Wind Speed
Parameter keyword: Atmosphere > Atmospheric Winds > Wind Speed

Vegetation stratification

Parameter name: vegetation stratification
Parameter keyword: Biosphere > Vegetation

Air Temperature

Parameter name: Air Temperature
Parameter keyword: Atmosphere > Atmospheric Temperature > Surface Temperature > Air Temperature

Turbulence

Parameter name: Turbulence
Parameter keyword: Atmosphere > Atmospheric Winds > Wind Dynamics > Turbulence

Meteorological measurements

Parameter name: meteorological measurements

Data use information

Use constraints: Please inform the Point of Contact if you use the data for publication
Data policy: IMPETUS data policy
Database: IMPETUS
Original data format(s): Excel, Text