

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

## General information

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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

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

### Project(s)

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IMPETUS

## Data description

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### Abstract

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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

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

## Geographic information

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### 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

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### 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

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

## Vegetation stratification

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Parameter name: vegetation stratification  
Parameter keyword: Biosphere > Vegetation

## Air Temperature

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

## Turbulence

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

## Meteorological measurements

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Parameter name: meteorological measurements

## Data use information

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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