

Micro Rain Radar: Rain and Reflectivity Profiles_Kumasi

General information

Dataset name: Micro Rain Radar: Rain and Reflectivity Profiles_Kumasi
Dataset DOI: 10.6096/dacciwa.1663
Created on: 2017-01-03

Contact(s)

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Period

Date begin (yyyy-mm-jj): 2016-06-11
Date end (yyyy-mm-jj): 2016-07-30

Project(s)

DACCIWA > WP1 - Boundary Layer Dynamics

Data description

Abstract

Data obtained from a range of instruments deployed at KNUST, Kumasi Ghana during the field observation period of the DACCIWA project. All data is supplied in NetCDF classic format following CF 1.6 naming standards. Files are self-supporting with embedded meta data.

Instrument information

Sensor

Instrument type: Imaging Radars
Manufacturer: METEK
Model: 24 GHz FM-CW Micro Rain Radar
Instrument features / Calibration: Calibrated to manufacturers standard

Sensor resolution

Observation frequency: 1 minute

Sensor location

Longitude (°):	-1.5601
Latitude (°):	6.6796
Height above ground (m):	1

Geographic information

KNUST

Location name:	KNUST
Platform type:	GROUND-BASED OBSERVATIONS
West bounding coordinate (°):	-1.5601
East bounding coordinate (°):	-1.5601
North bounding coordinate (°):	6.6796
South bounding coordinate (°):	6.6796
Altitude min:	263
Altitude max:	263

Measured parameters

Precipitation Rate

Parameter keyword:	Atmosphere > Precipitation > Precipitation Rate
Unit:	millimeter per hour - mm/h

Liquid Water Equivalent

Parameter keyword:	Atmosphere > Precipitation > Liquid Water Equivalent
Unit:	grams per cubic meter - g.m-3

Fall Velocity

Parameter name:	Fall Velocity
Parameter keyword:	Atmosphere > Precipitation > Precipitation Rate
Unit:	meters per second - m/s

Radar reflectivity

Parameter name:	Radar reflectivity
Parameter keyword:	Atmosphere > Precipitation
Unit:	dBZ - dBZ

Attenuated Radar Reflectivity

Parameter name:	Attenuated Radar Reflectivity
Parameter keyword:	Atmosphere > Precipitation
Unit:	dBZ - dBZ

Path Integrated Attenuation

Parameter name:	Path Integrated Attenuation
Parameter keyword:	Atmosphere > Precipitation
Unit:	dB

Data use information

Use constraints:	Permission is granted to use these data and images in research and publications when accompanied by the following statement:"Data were obtained from the DACCIIWA program which has received funding from the European Union Seventh Framework Programme (FP7/2007-2013) under grant agreement n° 603502 [Leeds]."
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Acknowledgement of NCAS as the data provider is required whenever and wherever the data are used.

Data policy:	DACCIIWA data policy
Database:	Dacciwa database
Original data format(s):	NetCDF