

 Content archived on 2024-06-18

Dynamics-aerosol-chemistry-cloud interactions in West Africa

Fact Sheet

Project Information

DACCIWA

Grant agreement ID: 603502

Project closed**Start date**

1 December 2013

End date

30 November 2018

Funded underSpecific Programme "Cooperation": Environment
(including Climate Change)**Total cost**

€ 11 508 227,29

EU contribution

€ 8 746 951,77

Coordinated byKARLSRUHER INSTITUT FUER
TECHNOLOGIE

Germany

Objective

Massive economic and population growth and urbanisation are expected to lead to a tripling of anthropogenic emissions in southern West Africa (SWA) between 2000 and 2030, the impacts of which on human health, ecosystems, food security and the regional climate are largely unknown. An assessment of these impacts is complicated by (a) a superposition with effects of global climate change, (b) the strong dependence of SWA on the sensitive West African monsoon, (c) incomplete scientific understanding of interactions between emissions, clouds, radiation, precipitation and regional circulations and (d) by a lack of observations to advance our understanding and improve predictions. The DACCIWA project will conduct

extensive fieldwork in SWA to collect high-quality observations, spanning the entire process chain from surface-based natural and anthropogenic emissions to impacts on health, ecosystems and climate. Combining the resulting benchmark dataset with a wide range of modelling activities will allow (a) to assess all relevant physical and chemical processes, (b) to improve the monitoring of climate and compositional parameters from space and (c) to develop the next generation of weather and climate models capable of representing coupled cloud-aerosol interactions, which will ultimately lead to reduced uncertainties in climate predictions. SWA with its rich mix of emissions and diverse clouds is ideal for such a study and many findings and technical developments will be applicable to other monsoon regions. Using a targeted dissemination strategy, DACCIWA will deliver a comprehensive scientific assessment and actively guide sustainable future planning and policy-making for West Africa and beyond. The interdisciplinary and experienced DACCIWA team will build on the scientific and logistical foundations established by AMMA (EU FP6) and collaborate closely with operational centres, international programs (e.g. WCRP, IGBP), policy-makers and users to maximise impact.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [health sciences](#) > [nutrition](#)

[natural sciences](#) > [biological sciences](#) > [ecology](#) > [ecosystems](#)

[natural sciences](#) > [earth and related environmental sciences](#) > [atmospheric sciences](#) > [climatology](#) > [climatic changes](#)



Programme(s)

[FP7-ENVIRONMENT - Specific Programme "Cooperation": Environment \(including Climate Change\)](#)

Topic(s)

[ENV.2013.6.1-2 - Atmospheric processes, eco-systems and climate change](#)

Call for proposal

FP7-ENV-2013-two-stage

[See other projects for this call](#)

Funding Scheme

[CP - Collaborative project \(generic\).](#)

Coordinator



KARLSRUHER INSTITUT FUER TECHNOLOGIE

EU contribution

€ 1 875 143,75

Total cost

No data

Address

KAISERSTRASSE 12

76131 Karlsruhe

Germany

Region

Baden-Württemberg > Karlsruhe > Karlsruhe, Stadtkreis

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Participants (16)



UNIVERSITE BLAISE PASCAL CLERMONT-FERRAND II

France

EU contribution

No data

Address

34 Avenue Carnot

63006 CLERMONT-FERRAND

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



UNIVERSITY OF LEEDS

United Kingdom

EU contribution

€ 1 073 022,00

Address

WOODHOUSE LANE

LS2 9JT Leeds

Region

Yorkshire and the Humber > West Yorkshire > Leeds

Activity type

Higher or Secondary Education Establishments

- Links
- [Contact the organisation](#)
 - [Website](#)
 - [Participation in EU R&I programmes](#)
 - [HORIZON collaboration network](#)

Total cost

No data



UNIVERSITY OF YORK

United Kingdom

EU contribution

€ 442 377,00

Address

HESLINGTON

YO10 5DD York North Yorkshire

Region

Yorkshire and the Humber > North Yorkshire > York

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
No data



THE UNIVERSITY OF READING

United Kingdom
EU contribution
€ 588 900,60

Address
WHITEKNIGHTS CAMPUS WHITEKNIGHTS HOUSE
RG6 6AH Reading

Region
South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Berkshire

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
No data



THE UNIVERSITY OF MANCHESTER

United Kingdom
EU contribution
€ 688 008,40

Address
OXFORD ROAD
M13 9PL Manchester

Region
North West (England) > Greater Manchester > Manchester

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
No data



DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV

Germany
EU contribution
€ 604 943,75

Address
LINDER HOHE
51147 Koln

Region
Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

Activity type
Research Organisations

Links
[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
No data



UNIVERSITE PAUL SABATIER TOULOUSE III

France
EU contribution
€ 1 459 932,00

Address

ROUTE DE NARBONNE 118
31062 Toulouse Cedex 9 

Region
Occitanie > Midi-Pyrénées > Haute-Garonne

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



UNIVERSITE PIERRE ET MARIE CURIE - PARIS 6

 France
EU contribution
€ 307 986,00
Address
Place Jussieu 4
75252 PARIS 

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



UNIVERSITE CLERMONT AUVERGNE

 France
EU contribution
€ 350 355,60
Address

49 BOULEVARD FRANCOIS MITTERRAND

63000 Clermont-Ferrand 

Region

Auvergne-Rhône-Alpes > Auvergne > Puy-de-Dôme

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



Université Paris Diderot-Paris 7

 France

EU contribution

€ 108 240,00

Address

Rue Thomas Mann

F-75205 / 13 Paris 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS

 United Kingdom

EU contribution

€ 245 920,00

Address

SHINFIELD PARK

RG2 9AX Reading 

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Berkshire

Activity type

Research Organisations

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

No data



EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH

Switzerland

EU contribution

€ 340 680,00

Address

Raemistrasse 101
8092 Zuerich



Region

Schweiz/Suisse/Svizzera > Zürich > Zürich

Activity type

Higher or Secondary Education Establishments

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

No data



KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY KUMASI

Ghana

EU contribution

€ 63 000,00

Address

PRIVATE MAIL BAG, UNIVERSITY POST OFFICE
ASH Kumasi 

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



OBAFEMI AWOLOWO UNIVERSITY

 Nigeria
EU contribution
€ 63 000,00

Address
Obafemi Awolowo University
220005 Ile Ife 

Activity type
Higher or Secondary Education Establishments

Links
[Contact the organisation](#)  [Website](#) 
[Participation in EU R&I programmes](#) 
[HORIZON collaboration network](#) 

Total cost
No data



MET OFFICE

 United Kingdom
EU contribution
€ 45 364,00

Address
FITZROY ROAD
EX1 3PB Exeter 

Region

South West (England) > Devon > Devon CC

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

 France

EU contribution

€ 490 078,67

Address

RUE MICHEL ANGE 3

75794 Paris 

Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data

Last update: 13 February 2017

Permalink: <https://cordis.europa.eu/project/id/603502>

