

Overview of Danish research competences and research projects

- with regard to climate change impacts, mitigation and adaptation in developing countries.



Consultancy overview compiled by:

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June 2008



Danish
Development
Research
Network
*Bringing together
knowledge and
development*



Table of content

TABLE OF CONTENT	2
LIST OF ABBREVIATIONS	3
THE THREE DANISH RESEARCH NETWORKS	4
PREFACE	5
1. INTRODUCTION	6
1.1 BACKGROUND	6
1.2 OBJECTIVES	6
1.3 STRUCTURE OF THE REPORT	7
2. METHODOLOGY OF THE REVIEW	7
3. OVERVIEW OF PROFILES AND PROJECTS	8
3.1 NUMBER OF PROFILES AND PROJECTS REFERRING TO EACH FOCAL AREA	8
3.3 PROFILES ORGANISED ACCORDING TO FOCAL AREAS	9
<i>Focal area 1: The climate system</i>	10
<i>Focal area 2: Climate change and agriculture</i>	10
<i>Focal area 3: Climate change and Local livelihoods</i>	12
<i>Focal area 4: Climate change and Mitigation</i>	13
<i>Focal area 5: Climate change and Adaptation</i>	14
<i>Focal area 6: Climate change and Health</i>	16
<i>Focal area 7: Climate change and Water resources</i>	17
<i>Focal area 8: Climate change and Security</i>	19
<i>Focal area 9: Climate change, Law and governance</i>	19
<i>Focal area 10: Climate change, rivers and coastal dynamics</i>	20
<i>Focal area 11: Climate change, Ecosystems and biodiversity</i>	21
ANNEX 1: Overview of Danish research competences	23
ANNEX 2: Overview of research projects	34
ANNEX 3: Contact details for the targeted Danish research institutions	48
ANNEX 4: Questionnaire form	49

List of abbreviations

AAU	University of Aalborg
AU	University of Aarhus
CC	Climate Change
CDM	Clean Development Mechanism
DANIDA	Danish Development Assistance
DBL	Institute for Health Research and Development
DC's	Developing Countries
DDRN	Danish Development Research Network
DHI	DHI – Water, Environment, Health
DIIS	Danish Institute for International Studies
DMI	Danish Meteorological Institute
DTU	Technical University of Denmark
DWF	Danish Water Forum
EIA	Environmental Impact Assessment
ENRECA	Enhancement of Research Capacity (in Developing Countries)
ENRECAHEALTH	the Danish Research Network for International Health
GEUS	Geological Survey of Denmark and Greenland
GIS	Geographical Information Systems
HIA	Health Impact Assessment
HRD	Human Resource Development
IGBP	International Geosphere-Biosphere Programme
IHDP	International Human Dimensions Programme
IPCC	Intergovernmental Panel on Climate Change
LDC's	Least Developed Countries
MDG	Millennium Development Goals
NGO	Non-Governmental Organization
SDU	University of Southern Denmark
SEA	Strategic Environmental Assessment
UC	University of Copenhagen
UNEP Risoe Centre	United Nations Environment Programme Risoe Centre

The three Danish research networks

This overview of Danish research on themes of relevance for climate change in developing countries is a joint project of the three Danish research networks: DDRN, DWF and ENRECAHEALTH

<p style="text-align: center;">DDRN</p> <p style="text-align: center;">Danish Development Research Network</p> <p style="text-align: center;">http://www.ddrn.dk</p>	<p>DDRN is a network linking knowledge and development within the sectors of agriculture, environment, and governance. It was established in 2007 as a merger of three Danida supported research and knowledge networks within these sectors. Currently, DDRN has more than 1,200 members primarily in Denmark and developing countries. Members are drawn from the research community, the private sector, NGOs and development organisations. The overall goal of DDRN is to contribute to the inclusion of research and research-based knowledge in development assistance and in partner countries' development activities. Activities of the network include: Workshops and seminars in the North and the South; member driven working groups; research overviews and briefs; contributions to development strategies; facilitation of North/South and South/South collaboration; website, newsletters and newsmails services; inspiration seminars for students.</p> <p>The network secretariat is located at the Department of Geography and Geology, University of Copenhagen, and includes:</p> <ul style="list-style-type: none"> • Anne Sørensen, Chief Coordinator (Email: ams@ddrn.dk) • Lluís Armangué, Coordinator (Email: la@ddrn.dk) • Marianne Forti, Communications Officer (Email: maf@ddrn.dk) • Lone Frederiksen, Academic Secretary (Email: lf@ddrn.dk)
<p style="text-align: center;">DWF</p> <p style="text-align: center;">Danish Water Forum</p> <p style="text-align: center;">http://www.danishwaterforum.dk/</p>	<p>Danish Water Forum was established by the end of 2003 as a broad stakeholder organisation to share knowledge, create synergies within the Danish water sector and to link the Danish water sector to the international water community. DWF has a number of projects including the Knowledge Network for Water and Development. The first phases of this project were established by the end of 2003 to facilitate knowledge sharing and cooperation between researchers in Denmark and between Denmark and developing countries. The focus is within Danida supported water sector programmes as well as in other sector programmes where water is an issue, i.e. agriculture, environment, and health. The knowledge network promotes inclusion of more research in the sector programmes and a better application of research in the development assistance through seminars, exchange of researchers, etc. Danish Water Forum is running the Knowledge network in co-operation with the Research School for Water Resources (FIVA). It consists of stakeholders from a broad spectrum of the water sector: NGO's, ministries, authorities, private companies and universities.</p> <p>The network secretariat is located at DHI. For more information and assistance please contact::</p> <ul style="list-style-type: none"> • Miriam Feilberg, Network Coordinator (Email: mfe@dhigroup.com) • Jesper Dannisøe, Coordinator (Email: jda@dhigroup.com)
<p style="text-align: center;">SUNNET</p> <p style="text-align: center;">Danish Research Network for International Health</p> <p style="text-align: center;">http://enrecahealth.ku.dk/</p>	<p>The Danish Research Network for International Health comprises Danish core institutions and Universities and their research partner institutions in the South involved in international health related research. Moreover the network includes individual members and organisations involved in health and development assistance. The Network aims to strengthen the dialogue between research and development assistance by enhancing research capacity and the use of research results in international health as a means of improving health in low-income countries, in line with Danish Development Aid Policy. Important approaches will be to facilitate and promote exchange of information between researchers and development aid agencies, universities and research institutions in the North and the South, Danida supported sector programmes, NGOs, private firms, and relevant international and regional organisations and networks.</p> <p>The network coordination office is located at the Institute of Public Health, University of Copenhagen and the coordinators are:</p> <ul style="list-style-type: none"> • Lene Blegvad, Network Coordinator (Email: L.Blegvad@pubhealth.ku.dk) • Kira Fortune, Research Coordinator (Email: K.Fortune@pubhealth.ku.dk)

Preface

This first overview of Danish research competences and research projects of relevance to the topic ‘climate change impacts, mitigation and adaptation in developing countries’ is broadly aimed at relevant authorities in developing countries, the research community and consultants involved in the planning of activities that address climate change impacts, mitigation and adaptation.

In January 2008 a task-force was set up, initiated by the three research networks and with the support from Danida, to discuss research and knowledge sharing with regard to climate change and the impacts in developing countries. The task force consists of members of the Danish resource base, researchers and representatives of consulting and other companies as well as representatives of the 3 research networks. The task force decided as its first activity to initiate a mapping of Danish research competences.

The three research networks believe that the researchers and resource persons included in this report could provide decision-makers and development workers with evidence of relevance which can inform policies and development activities. Based on this mapping more concrete activities can be developed to promote knowledge sharing within the resource base in Denmark and between researchers and others in Denmark and developing countries.

This report is the result of a five week consultancy carried out between May and June 2008 and is based on individual contributions from researchers with various backgrounds and experience. The overview presents 63 researcher profiles (50 male/13 female) and 64 research projects, and covers 11 different focal areas of relevance to the topic: “climate change impacts, mitigation and adaptation in developing countries”. This overview may not represent the full picture and therefore should be considered as an on-going process, open to further inputs and updating, possibly with greater involvement of Danish research institutions.

Many of the focal areas within climate change research are closely interlinked, and as a result researchers in this report often associate their competences and projects with several areas. However, some focal areas are more clearly represented than others (e.g. CC and agriculture; CC adaptation; CC mitigation), and areas such as CC and Health, or CC and security tend to be less explored within the Danish research community. Investigation of the need for more Danish projects within these fields might prove relevant.

I would like to thank Lluís Armangué (DDRN), Miriam Feilberg (DWF) and Kira Fortune (ENRECAHEALTH), for help and support in all aspects of the work. In the initial phase of the work I also received valuable information from Kjeld Rasmussen (Department of Geography and Geology, University of Copenhagen), Karen Edelvang (DHI), Svend Binnerup (University of Aarhus). Finally, I would like to thank the researchers who have contributed with most of the information available in this overview.

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Short-term consultant

1. Introduction

1.1 Background

Focus on climate change issues, mitigation of climate change and adaptation to climate change have increased significantly in recent years. In April 2007 the 4th assessment report from the Working Group 2 of the Intergovernmental Panel on Climate Change (IPCC) clearly demonstrated that the most vulnerable regions with regard to climate change are: Africa South of Sahara, large coastal cities, mega deltas in Asia, small island states, polar areas and areas covered by permafrost.

Climate change is an issue closely related to poverty and the IPCC report states that besides the above mentioned regions, which are among the poorest and most vulnerable globally, the poorest in the different regions will be the most affected by climate change. Adaptation to climate change is closely linked to better water management, water supply and sanitation (e.g. changes in the hydrological cycle and water balance, sea level rise and increased water temperatures and changed water quality). But the same effects of climate change and the increased instability and risk of drought and floods also have severe consequences for the environment, for agriculture and for health issues. Thus climate change is closely related to issues of sustainable development and is a serious threat in terms of meeting the MDG's in the developing countries. Danish partner countries are among the poorest countries in the world and strategies to reduce poverty and promote sustainable development are vital elements of support to these countries.

Profound knowledge of the consequences of climate change in the developing countries is vital for assistance to developing countries in overcoming the negative effects of climate change. This knowledge is also important in order to secure the most needed and efficient adaptation to climate change.

1.2 Objectives

In order to facilitate the access of policy-makers, embassies, sector programmes, research funders and other interested parties to Danish based research and facilitate networking and joint research proposals within climate change, the research networks Danish Development Research Network (DDRN), Danish Water Forum (DWF), and the Danish Research Network for International Health (ENRECAHEALTH) decided to jointly commission a mapping of Danish research projects and competences with regard to climate change and its implications for developing countries.

The present overview has the purpose to provide a) an overview of individual research competences and b) an overview of recently completed and ongoing research activities.

The overview is broadly aimed at relevant authorities in developing countries, the research community, research funding, donor agencies, and consultants involved in the planning of activities relevant to CC impact, mitigation and adaptation.

In terms of collaboration between authorities, local institutions and researchers, the needs for assistance and collaboration with international experts and institutions are defined most appropriately by the local partners and programme advisers. However, the three research networks believe that the researchers and resource persons included in this report can provide decision-makers and development workers

with evidence of relevance within the subject ‘climate change impacts, mitigation and adaptation in developing countries’ which can inform policies and development activities.

1.3 Structure of the report

After the introduction, section 2 describes the methodology for this review and introduces the different focal areas within climate change research which were applied in the survey in order to label and categorise different research competences and –projects. Section 3 describes the results of the survey and presents a summarised overview of research competences and projects according to each of the focal areas. The focal areas within the subject of climate change and developing countries are closely inter-linked, and most researchers have indicated that their expertise and competences are relevant to more than one of these areas. For purposes of clarity contributors are placed in the areas where they affirm to have expertise. In annex 1 & 2, overviews of research profiles and research projects are presented with the information submitted by the researchers.

2. Methodology of the review

The current review was carried out as a desk study in close collaboration with the secretariats of the three research networks. Key persons at the Danish research institutions within scope of this review (see below) have been identified through the universities’ / research institutions’ websites, the consultants own network, consultation with staff and members of DDRN, DWF and ENRECAHEALTH.

The identified researchers were asked to fill in two separate forms: 1) A personal profile with research interests and focal areas, geographic specialisation and collaborating partners, and description of individual competences, 2) A profile for research projects (see questionnaire form in Annex 2).

The overview of Danish research competences and research projects which is available in this report is solely based on individual contributions from researchers at Danish research institutions, and does not represent a complete picture. Out of an initial target group of more than 100 researchers, this overview includes 63 individual contributions. Thus, it should be considered to extend and update the overview at a later stage, possibly with a greater involvement of research institutions in order to identify institutional research priorities and key resource personal. However, it is believed that the information available in this earliest edition will provide decision makers, developing country partners and others with a useful tool for getting an overview of Danish research competences and projects

In the questionnaire form, respondents were asked to specify their competences and research area according to a number of focal areas. These focal areas were defined (in consultation with the three research networks and researchers at University of Copenhagen) in order to categorise profiles and projects, as well as to provide respondents with an option to label their own competences and research activities. The eleven focal areas of relevance for climate change and developing countries are:

1) The climate system; 2) CC and agriculture; 3) CC and local livelihoods; 4) CC and mitigation; 5) CC and adaptation; 6) CC and health; 7) CC and water resources; 8) CC and security; 9) CC, law and governance; 10) CC, rivers and coastal dynamics; 11) CC, ecosystems and biodiversity

As is expected, the area of ‘climate change impacts, mitigation and adaptation in developing countries’ covers a wide array of research themes and disciplines, ranging from social issues to technical, political, institutional and economic aspects. Pre-established, there was no fixed criteria for assessing an area of expertise, but the researcher’s own subjective valuation. In the same line, it is the researcher’s own judgement to state how close their research projects are to the field of climate change impacts, mitigation and adaptation in developing countries.

If a similar mapping exercise is to be carried out with more in-depth analysis in the future, it should be considered to focus on less- and more explicitly defined focal areas¹. Also, fixed criteria for assessing the relevance of research projects would ensure a more consistent methodology for the overview².

Targeted Research Institutions:

In this first overview of Danish research competences and projects of relevance for the topic of ‘climate change impacts, mitigation and adaptation in developing countries’, the following research institutions have been within scope:

Danish Meteorological Institute (DMI); DHI ; Danish Institute for International Studies (DIIS); Geological Survey of Denmark and Greenland (GEUS); UNEP Risoe Centre; Technical University of Denmark (DTU), University of Copenhagen (UC); University of Aarhus (AU); University of Aalborg (AAU); University of Southern Denmark (SDU).

3. Overview of profiles and projects

This overview contains 63 individual competence profiles (50 male/13 female) and details of 64 ongoing or recently completed research projects, either closely or directly related to the subject of *climate change impacts, mitigation and adaptation in developing countries*. The contributions cover a variety of competences, skills, expertises and research of relevance within the eleven focal areas (see table 3.1).

3.1 Number of profiles and projects referring to each focal area

Of the 63 contributors to the overview, 54 report competences of relevance to more than one focal area. In summary: 9 contributors reported of competences within just one focal area, 19 within two focal areas, 22 within three focal areas, and 13 within more than three focal areas.

Out of the 64 research projects, 15 projects refer to just one focal area, 15 refer to two areas, 17 to three areas, and 17 to more than 3 focal areas.

¹ E.g. narrow the geographic focus to Danish programme countries or certain developing country regions, and perhaps concentrate on ongoing Danish research within certain thematic focal areas such as ‘CC, precipitation and fresh water availability’, ‘CC, sea-level rise and coastal communities’, ‘CC, land use and land cover change’ etc.

² E.g. only include research projects which have an explicit climate change component in the approved project description

As previously described the survey had two purposes, namely to provide a) an overview of individual research competences and b) an overview of recently completed and ongoing research activities. However, out of the 63 contributors, 20 returned their personal competence profile only – some with the explanation that they have competences relevant within the subject, although their research activities are not at present or yet explicitly dealing with climate change issues.

Focal area	Related profiles	Related projects
1: The climate system	14	20
2: CC and agriculture	21	22
3: CC and local livelihoods	21	23
4: CC and mitigation	14	15
5: CC and adaptation	26	25
6: CC and health	5	5
7: CC and water resources	25	22
8: CC and security	5	6
9: CC, law and governance	7	6
10: CC, rivers and coastal dynamics	10	8
11: CC, ecosystems and biodiversity	20	16
Total number of profiles and projects	63	64

Table 3.1: Number of researchers and research projects grouped by focal area

Table 3.1 lists the number of researcher profiles and research projects referring to each of the 11 focal areas. It is quite clear from the table that some focal areas are well represented in this overview (No. 2, 3, 5, 7 and 11), while others much less. For example, the areas of ‘CC and health’ (No. 6), as well as ‘CC and security’ (No. 9) are only represented by few contributions in this overview, and even if this may not fully reflect the Danish resource base, there have been noticeably less ongoing research activity within these areas than for example CC and agriculture.

However, it should also be noted that some of the focal areas (e.g. health; law and governance) are more directly linked with certain research disciplines than for example areas like ‘adaptation’ and ‘mitigation’ which refer to more general concepts within climate change research.

3.3 Profiles organised according to focal areas

Under each focal area, please refer to annex 1 for detailed profile description. Under each profile in annex 1 you will also find a reference to research projects in annex 2 (if any).

Focal area 1: The climate system

The climate system is made up of complex interactions between the atmosphere, the oceans, the ice sheets, and the terrestrial environment. Often, the concept ‘the climate system’ refers to the physical processes which determine the global climate

Therefore, the contributions within this focal area are mainly from researchers with expertise and skills in the analysis of physical climate processes. The majority of contributors within this field have experience with regional climate modelling, climate monitoring and climate data analysis (profile 2, 10, 12, 28, 35, 38, 55, 61). Other contributors have expertise in remote sensing, early warning systems, drought prediction and seasonal forecast (profile 17, 52, 53).

Name and institution	The climate system Thematic specialisation within this focal area
Baklanov, Alexander (Profile No. 2) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Atmospheric pollution and climate change ▪ Effects of urban areas on pollution and climate
Cappelen, John (Profile No. 10) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Development of operational systems for e.g. monitoring degree-days ▪ Weather and climate data management
Christensen, Jens Hesselbjerg (Profile No. 12) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Provider of climate and climate change information for the physical climate system ▪ Research leader, Project coordinator ▪ IPCC 4AR WG1 coordinating lead author
Dhar, Subash (Profile No. 15) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Development of future national scenarios for developing countries ▪ Modelling future energy demands
Fensholt, Rasmus (Profile No. 17) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Development of early warning system ▪ Remote Sensing drought monitoring
Jensen, Roar Askær (Profile No. 28) DHI	<ul style="list-style-type: none"> ▪ Hydrological modelling ▪ Development of approaches to climate change aspects of water resources management, planning and management
Neil MacKellar (Profile No. 35) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Regional climate modelling – Southern Africa ▪ Seasonal forecasting, Data analysis ▪ Engaging with users of climate information
Mark, Ole (Profile No. 37) DHI	<ul style="list-style-type: none"> ▪ Urban flooding, rainfall, urban drainage, urban water, ▪ Head of Innovation, project manager, project specialist
Wilhelm May (Profile No. 38) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Climate modelling – the Southwest Pacific, Solomon Islands
Rosbjerg, Dan (Profile No. 52) Danish Technical University (DTU)	<ul style="list-style-type: none"> ▪ Drought prediction, warning and management
Sandholt, Inge (Profile No. 53) University of Copenhagen	<ul style="list-style-type: none"> ▪ Remote sensing specialist
Martin Stendel (Profile No. 55) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Regional climate modelling - Sub-Saharan Africa ▪ Monitoring of climate change ▪ Scientific capacity building
Shuting Yang (Profile No. 61) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Regional climate modelling and simulation – Asia ▪ Data analysis

Focal area 2: Climate change and agriculture

Climate change is likely to have profound effects on conditions affecting agricultural activities and food production, especially in regions that are already exposed to extreme weather events, droughts and

other climate related stress factors. Also, agricultural activities, including land use change and land cover change, has been shown to produce significant effects on climate change, primarily through the release of greenhouse gases.

Contributors within this focal area have expertise and skills within various aspects of land use / land use change, natural resource management, agricultural development and capacity building. Some are involved in the improvement of farmer systems and food production, development of new technologies, local capacity building and participatory management (profiles 4, 7, 25, 26, 27, 43), while others use remote sensing or modelling approach to assess the impacts of CC on agriculture and vegetation (profiles 9, 17, 27, 35, 41, 44, 47, 61). Others again are engaged in wider perspectives of coupled human-environmental systems, including more general aspects of natural resource management, land-use systems and environmental change (4, 5, 8, 28, 39, 43, 48, 50, 58).

Name and institution	Climate change and agriculture Thematic specialisation within this focal area
Birch-Thomsen, Torben (Profile No. 4) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Natural resource management, land use/land use change, rural livelihoods, rural-urban linkages, agricultural systems ▪ Project coordination and management ▪ Local capacity building
Bolwig, Simon (Profile No. 5) Danish institute for International Studies (DIIS)	<ul style="list-style-type: none"> ▪ Research and dissemination ▪ Natural resource management in developing countries
Brandt, Kristian K. (Profile No. 7) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Development of new technologies to improve rice yield and quality ▪ Research coordinator, work package leader
Buch-Hansen, Mogens (Profile No. 8) Roskilde University (RU)	<ul style="list-style-type: none"> ▪ Assessment of adaptation needs, Identification of adaptation strategies to CC, Formulation of CC resilient development policies in agriculture and natural resources management
Callaway, John M. (Profile No. 9) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Building sector and spatial equilibrium models for sector planning in agriculture and water resources with a focus on long-run investment to cope with CC and economic development pressure
Fensholt, Rasmus (Profile No. 17) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Remote sensing of vegetation change, land use change and water resources
Jakobsen, Svend-Erik (Profile No. 25) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Improvement of farmer systems and food production ▪ Strategic water management for drought alleviation and sustainable agricultural practices
Jensen, Christian R. (Profile No. 26) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Development of water saving irrigation schemes ▪ Improvement of farmer systems and food production ▪ Strategic water management for drought alleviation and sustainable agricultural practices
Jensen, Jens Raunsø (Profile No. 27) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Agrometeorology, water productivity and reuse ▪ Participatory integrated watershed management, agriculture and natural resource management ▪ Chief advisor, Programme/project coordinator, ▪ Consultant – identification, planning, review and evaluation
Jensen, Roar Askær (Profile No. 28) DHI	<ul style="list-style-type: none"> ▪ Development of approaches to CC aspects of water resources assessment, planning and management
Mackellar, Neil (Profile No. 35) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Modelling and monitoring of land-surface processes ▪ Seasonal weather forecasting ▪ Engaging with local users of climate information
Mertz, Ole (Profile No. 39) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Assess past adaptation strategies, identify possible adaptation needs in agricultural production systems
Nielsen, Thomas Theis (Profile No. 41) Roskilde University (RU)	<ul style="list-style-type: none"> ▪ Remote sensing specialist ▪ Assessment and monitoring of vegetation and land use change, change of vegetation productivity

Oksen, Peter (Profile No. 43) Roskilde University (RU)	<ul style="list-style-type: none"> Natural Resource Management, Land Use Planning, Environmental Management, EIA, Socio-Economic Rural Studies, GIS & Remote Sensing, Capacity building & HRD, Institutional Building.
Olesen, Jørgen E. (Profile No. 44) University of Aarhus (AU)	<ul style="list-style-type: none"> Modelling impacts of CC on agricultural production
Porter, John (Profile No. 47) University of Copenhagen (UC)	<ul style="list-style-type: none"> Assessment of climate variability and food production, food quality
Rasmussen, Kjeld (Profile No. 48) University of Copenhagen (UC)	<ul style="list-style-type: none"> Assessment of CC impacts, mitigation and adaptation in LDC's Local capacity development
Reenberg, Anette (Profile No. 50) University of Copenhagen (UC)	<ul style="list-style-type: none"> Land use systems, natural resource management, coupled human-environmental systems Former ENRECA coordinator Chair of the IGBP/IHDP Global Land Project
Trærup, Sara L.M. (Profile No. 58) UNEP Risoe Centre	<ul style="list-style-type: none"> Vulnerability, adaptation, rural livelihoods
Villholth, Karen (Profile No. 60) GEUS	<ul style="list-style-type: none"> Groundwater resources, availability, use, and management Disaster use and management of groundwater resources
Yang, Shuting (Profile No. 61) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> Seasonal weather forecasting

Focal area 3: Climate change and Local livelihoods

Climate change is likely to have profound effects on poor people's livelihoods, especially in the developing countries. The concept of 'livelihoods' usually refers to a way of thinking about people in a context of social, economic, political and environmental resources or assets.

All contributors within this focal area have competences and research activities which relate to other focal areas as well (e.g. agriculture, adaptation or water resources). Most of the researchers within this focal area have experience from working in a local, often rural context with various aspects of natural resource management. The activities are likely to be carried out in a close connection to local institutions and decision-makers. Many of the contributors are at some point involved in local capacity building or participatory management (3, 4, 8, 27, 30, 36, 43, 57), while some also have skills with the assessment of CC impacts in a local or regional context (2, 5, 14, 18, 37, 38, 39, 48, 49, 50, 54, 58).

Name and institution	Climate change and Local livelihoods Thematic specialisation within this focal area
Baklanov, Alexander (Profile No. 2) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> Quantify feedbacks between urban air quality, local and regional climate, and global climate change
Balslev, Henrik (Profile No. 3) University of Aarhus (AU)	<ul style="list-style-type: none"> Assess local people's use of and impacts on ecosystem goods and services Local capacity building, strengthening of knowledge and research capacity
Birch-Thomsen, Torben (Profile No. 4) University of Copenhagen (UC)	<ul style="list-style-type: none"> Natural resource management, land use/land use change, rural livelihoods, rural-urban linkages, agricultural systems Local capacity building
Bolwig, Simon (Profile No. 5) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> Private standards on climate change, Carbon labelling, Organics and climate change
Buch-Hansen, Mogens (Profile No. 8) Roskilde University (RU)	<ul style="list-style-type: none"> Natural resources management, organic agriculture and rural development for adaptation and CC resilient development policies
Cold-Ravnkilde, Signe Marie (Profile No. 14) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> Water conflicts, decentralisation, climate change, state formation processes in Mali

Funder, Mikkel (Profile No. 18) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> ▪ Social and institutional aspects of climate change ▪ Local aspects of climate change in relation to water and forest management, coastal resources and protected areas. ▪ Experience from programme and project design, review and implementation for DANIDA, the World Bank and various NGOs.
Jensen, Jens Raunsø (Profile No. 27) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Participatory integrated watershed management, water harvesting, surface irrigation etc.
Kristensen, Erik (Profile No. 30) University of Southern Denmark (SDU)	<ul style="list-style-type: none"> ▪ Mangrove, sewage, local communities
Marcussen, Henrik Secher (Profile No. 36) Roskilde University (RU)	<ul style="list-style-type: none"> ▪ Rights, tenure, access and entitlements; institutions; plans, policies & strategies ▪ Local capacity building
Mark, Ole (Profile No. 37) DHI	<ul style="list-style-type: none"> ▪ Urban flooding, rainfall, urban drainage, urban water
May, Wilhelm (Profile No. 38) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Climate change, small islands, extreme weather events, livelihoods
Mertz, Ole (Profile No. 39) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Adaptation to climate change of rural people in developing countries
Oksen, Peter (Profile No. 43) Roskilde University (RU)	<ul style="list-style-type: none"> ▪ Natural Resource Management, Land Use Planning, Environmental Management, Development studies, EIA, Socio-Economic Rural Studies, GIS & Remote Sensing, Capacity building & HRD, Institutional Building, Teaching and Training.
Rasmussen, Kjeld (Profile No. 48) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ CC impacts, mitigation and adaptation in LDC's
Ravnborg, Helle Munk (Profile No. 49) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> ▪ Local water governance; poverty research and measurement; ▪ local institutions and organizing practices ▪ rural development; access to natural resources and natural resource management
Reenberg, Anette (Profile No. 50) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Land use systems, natural resource management, resilience, coupled human environmental systems ▪ Former ENRECA-(co)coordinator
Sjørsløv, Jens (Profile No. 54) DHI	<ul style="list-style-type: none"> ▪ Social impact assessment; poverty assessments; water resources; inland fisheries
Svenning, Jens Christian (Profile No. 57) University of Aarhus (AU)	<ul style="list-style-type: none"> ▪ Evaluation of impacts on natural resources and ecosystem services from local people's extraction of resources
Trærup, Sara L. M. (Profile No. 58) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ CC Vulnerability and adaptation, rural livelihoods ▪ Exploring linkages between climate variability and rural household welfare

Focal area 4: Climate change and Mitigation

The mitigation of climate change usually refers to actions or activities which either reduce the emissions of greenhouse gases or enhance the sinks that may reduce the extent of global warming. Common types of mitigation measures include increased efficiency in energy production or switching to cleaner energy sources. In relation to developing countries, mitigation often takes place through the Clean Development Mechanism of the Kyoto Protocol, a political mechanism with important development implications.

Many of the contributors within this focal area have expertise directly related to the CDM (profiles 13, 15, 21, 23, 45, 46, 62) or other mitigation measures (profiles 2, 34, 47, 48), while others have expertise through the knowledge of various aspects of climate change and natural resource management (profiles 28, 43, 44, 51).

Name and institution	Climate change and Mitigation Thematic specialisation within this focal area
Baklanov, Alexander (Profile No. 2) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Coordinating a project with the aim to develop tools for assessment and mitigation of urban emissions
Christensen, John (Profile No. 13) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Climate convention “politics” and implementation, CDM and carbon markets, Adaptation and development
Dhar, Subash (Profile No. 15) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Capacity building among local enterprises, governments, and other institutions for the implementation of CDM
Halsnæs, Kirsten (Profile No. 21) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Economic concepts applied to mitigation and adaptation studies ▪ Climate screening, Identification of development paths and actions linked to positive climate outcomes ▪ IPCC Convening lead author
Hinojosa, Miriam (Profile No. 23) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Carbon Finance and CDM coordinator, Project manager for CDM in Latin America, Planning and facilitating regional and national capacity development for the CDM conferences, seminars, training sessions
Jensen, Roar Askær (Profile No. 28) DHI	<ul style="list-style-type: none"> ▪ Manager of or participant in several overseas projects dealing with climate change aspect. Development of approaches to climate change aspect of water resources assessment, planning and management.
Macintosh, Donald (Profile No. 34) University of Aarhus (AU)	<ul style="list-style-type: none"> ▪ 20 years of experience on mangrove regeneration and coastal zone planning and management in SE Asia.
Oksen, Peter (Profile No. 43) Roskilde University (RU)	<ul style="list-style-type: none"> ▪ Natural Resource Management, Land Use Planning, Environmental Management, Development studies, EIA, Socio-Economic Rural Studies, GIS & Remote Sensing, Capacity building & HRD, Institutional Building, Teaching and Training.
Olesen, Jørgen E. (Profile No. 44) University of Aarhus (AU)	<ul style="list-style-type: none"> ▪ Climate change impacts on crops, soils and agricultural cropping systems ▪ Climate change impacts on elemental flows and fluxes ▪ Adaptation to climate change in agroecosystems
Olhoff, Anne (Profile No. 45) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Assist countries to remove barriers for the integration of climate change issues into development planning and decision-making frameworks. ▪ CC and Sustainable development, CC and International Trade
Olsen, Karen H. (Profile No. 46) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Climate policy in practice, CDM, institutional capacity development, sustainable development
Porter, John (Profile No. 47) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Climate variability and food production, food quality, combined food and energy production systems, energy and greenhouse gas neutral farming.
Rasmussen, Kjeld (Profile No. 48) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ CC impacts, mitigation and adaptation in LDC's
Reefsgaard, Jens Christian (Profile No. 51) Geological Survey of Denmark and Greenland (GEUS)	<ul style="list-style-type: none"> ▪ Water resources management, Groundwater, Rivers ▪ Development of new methodologies and tools that enable easier and more accurate use of regional scale climate and hydrological models to address local scale water resources problems.
Zhu, Xianli (Profile No. 62) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Climate, Energy and economic development, especially in relation to China, Clean development mechanism, especially forestry CDM and also programmatic CDM

Focal area 5: Climate change and Adaptation

Although most societies have a long record of adapting to the changes in- and impacts of weather and climate, it is widely acknowledged that the present climate changes pose novel challenges and risks, especially among people who are already struggling with climate related perturbations and extreme events. The concept of “CC adaptation” often refers to decisions or actual activities which are implemented to reduce the vulnerability or increase the resilience towards potential climate change

impacts. However, adaptation measures are seldom undertaken in response to climate change alone, but embedded within broader sectoral initiatives or programmes. In the context of development aid adaptation to CC is increasingly seen as an important aspect, strengthening adaptive capacity in developing countries.

The contributors to this focal area have expertise within various aspects of CC adaptation, including assessment and management of CC risks at a national, regional and local scale. Most of the contributors have experience within closely related sectors of agriculture (profiles 9, 26, 39, 43, 44, 48, 50, 58) and water resources (profiles 1, 9, 27, 28, 32, 36, 54, 59, 60), while others are involved in the development of economic, physical and political concepts and models in order to approach adaptation at different scales (profiles 1, 9, 12, 18, 36, 53).

Name and institution	Climate change and Adaptation Thematic specialisation within this focal area
Ammentorp, Hans Christian (Profile No. 1) DHI	<ul style="list-style-type: none"> ▪ Planning water management, Modelling, Optimisation of water use, Training
Buch-Hansen, Mogens (Profile No. 8) Roskilde University (RU)	<ul style="list-style-type: none"> ▪ Natural resources management, organic agriculture and rural development for adaptation and CC resilient development policies
Callaway, John M (Profile No. 9) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Risk management, agriculture, water resources, climate change, adaptation ▪ Building sector and spatial equilibrium models for sector planning in agriculture and water resources with a focus on long-run investment to cope with climate change and economic development pressure
Christensen, Jens Hesselbjerg (Profile No. 12) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Regional climate, climate change projections, defining uncertainties, extreme weather. ▪ IPCC 4AR WG1 coordinating lead author
Christensen, John (Profile No. 13) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Climate convention “politics” and implementation CDM and carbon markets Adaptation and development
Edelvang, Karen (Profile No. 16) DHI	<ul style="list-style-type: none"> ▪ Public awareness
Funder, Mikkel (Profile No. 18) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> ▪ Social and institutional aspects of climate change ▪ Applied policy- and sector analysis; aid programme design, monitoring, and review/evaluation.
Halsnæs, Kirsten (Profile No. 21) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Economic concepts applied to mitigation and adaptation studies, sustainable development ▪ IPCC Convening lead author
Hinostroza, Miriam (Profile No. 23) UNEP Risoe Centre	<ul style="list-style-type: none"> ▪ Carbon Finance and CDM coordinator ▪ Project manager for CDM in Latin America ▪ Planning and facilitating regional and national capacity development for the CDM conferences, seminars, training sessions
Jensen, Christian R. (Profile No. 26) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Crop physiologist with emphasis on plant water relations under arid conditions. Modelling of plant water balance. Signalling under soil drying.
Jensen, Jens Raunsø (Profile No. 27) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Participatory integrated watershed management, water harvesting, surface irrigation etc. ▪ Programme/project coordinator, Team leader, Consultant (identification, planning, review and evaluation)
Jensen, Roar Askær (Profile No. 28) DHI	<ul style="list-style-type: none"> ▪ Development of approaches to climate change aspect of water resources assessment, planning and management.
Larsen, Henrik (Profile No. 32) DHI	<ul style="list-style-type: none"> ▪ Integrated water resources management; adaptation; links between water, energy and climate change
Marcussen, Henrik Secher (Profile No. 36) Roskilde University (RU)	<ul style="list-style-type: none"> ▪ Rights, tenure, access and entitlements; institutions; plans, policies & strategies ▪ Capacity building

Mark, Ole (Profile No. 37) DHI	<ul style="list-style-type: none"> Urban flooding, rainfall, urban drainage, urban water, Head of Innovation, project manager, project specialist
Mertz, Ole (Profile No. 39) University of Copenhagen (UC)	<ul style="list-style-type: none"> Adaptation to climate change of rural people in developing countries
Oksen, Peter (Profile No. 43) Roskilde University (RU)	<ul style="list-style-type: none"> Natural Resource Management, Land Use Planning, Environmental Management, EIA, Socio-Economic Rural Studies, Capacity building & HRD, Institutional Building Management and administration of research projects and programmes
Olesen, Jørgen E (Profile No. 44) University of Aarhus (AU)	<ul style="list-style-type: none"> Climate change impacts on crops, soils and agricultural cropping systems, Climate change impacts on elemental flows and fluxes, Adaptation to climate change in agroecosystems
Olhoff, Anne (Profile No. 45) UNEP Risoe Centre	<ul style="list-style-type: none"> CC and Sustainable development, CC and International Trade
Rasmussen, Kjeld (Profile No. 48) University of Copenhagen (UC)	<ul style="list-style-type: none"> CC impacts, mitigation and adaptation in LDC's
Reenberg, Anette (Profile No. 50) University of Copenhagen (UC)	<ul style="list-style-type: none"> Land use systems, natural resource management, resilience, coupled human environmental systems Former ENRECA-(co)coordinator, Chair of the IGBP/IHDP Global Land Project
Sandholt, Inge (Profile No. 53) University of Copenhagen (UC)	<ul style="list-style-type: none"> Earth Observation, hydrology, land surface processes, climate Project coordinator
Sjørsløv, Jens (Profile No. 54) DHI	<ul style="list-style-type: none"> Social impact assessment; poverty assessments; water resources; inland fisheries
Trærup, Sara (Profile No. 58) UNEP Risoe Centre	<ul style="list-style-type: none"> Vulnerability, adaptation, rural livelihoods
Tychsen, John (Profile No. 59) Geological Survey of Denmark and Greenland (GEUS)	<ul style="list-style-type: none"> Effect of CC on coastal systems meaning ecology, coastal erosion, infrastructure, urban areas, natural hazards, contingency planning, environmental sensitivity ranking
Villholth, Karen (Profile No. 60) Geological Survey of Denmark and Greenland (GEUS)	<ul style="list-style-type: none"> Groundwater resources, availability, use, and management Disaster use and management of groundwater resources

Focal area 6: Climate change and Health

Although a large part of the health risks associated with climate change are avoidable through existing health programmes and interventions, the World Health Organization (WHO) acknowledge that many vector-borne diseases (e.g. malaria and dengue) are highly sensitive to changing temperatures and precipitation. Thus, climate change already contributes to increase health risks, especially in tropical regions and developing countries, and this contribution is expected to grow in the future.

Contributors within this focal area have specialised in various aspects of climate related health issues, such as pollution (profile 2), environmental health (profile 9), vector borne diseases and spatial epidemiology (profiles 29, 31, 63)

Based on the information available on the universities and research institutions websites (May 2008), there still seem to be few research projects and publications explicitly focussing at the impacts of CC on health in developing countries. This was confirmed during consultation with the ENRECA research network, and key informants from Copenhagen University (UC) and Southern University of Denmark (SDU).

Name and institution	Climate change and Health Thematic specialisation within this focal area
Baklanov, Alexander (Profile No. 2) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> Atmospheric pollution and climate change; effects of urban areas (megacities) on environment pollution and climate

Furu, Peter (Profile No. 19) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Environmental health; climate change and health; health impact assessment (HIA); health aspects of environmental impact assessment (EIA) and strategic environmental assessment (SEA); ecosystems health. ▪ 25 years of research, capacity building, consultancy and service provision in developing countries - primarily in a cross-sectoral context with focus on environmental health aspects of development.
Konradsen, Flemming (Profile No. 29) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Vector borne diseases, disaster management and health, risk assessments ▪ Research design
Kristensen, Thomas (Profile No. 31) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Freshwater snail taxonomy and diversity, snail borne diseases, GIS, remote sensing, spatial epidemiology
Ørnbjerg, Niels (Profile No. 63) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Vector-borne diseases; environmental change; Biodiversity and health ▪ Director at DBL-Centre for health Research and Development with major overall coordinating functions in relation to activities (research, training, knowledge management in relation to CC and health

Focal area 7: Climate change and Water resources

Changes to the Earth's climate have a direct effect on the global hydrological cycle and hence on water resources. In general the increase of surface temperatures will lead to more evaporation and also more precipitation. However, it is expected that some regions will experience an increase in precipitation, while other regions will experience a decline. For developing countries e.g. in arid and semi-arid regions where water resources are already scarce, small changes in precipitation would place additional stress on people, agriculture and the natural environment. In other regions, increased precipitation could affect the runoff and increase the risks of floods.

Contributors within this focal area mainly have expertise in various aspects of water resources management (profiles 1, 7, 11, 18, 25, 27, 28, 29, 32, 37, 49, 51, 52, 60), some with a focus on large scale changes in the hydrological cycle and the modelling of CC impacts (profiles 1, 12, 27, 28, 51, 52, 53, 61). Others have expertise in local governance and institutional facets of water management in developing countries (profiles 18, 49, 54).

Name and institution	Climate change and Water resources Thematic specialisation within this focal area
Ammentorp, Hans Christian (Profile No. 1) DHI	<ul style="list-style-type: none"> ▪ Modelling hydrology and water resources management systems Reservoirs ▪ Planning water management, Modelling, Optimisation of water use, Training
Brandt, Kristian (Profile No. 7) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Water management, nutrient management, sustainable agriculture, integrated crop management, plant-microbe interactions, soil quality, environmental microbiology, pollution, cropping systems, irrigation, rice, maize, nitrogen transformations in soil, whole-cell bacterial biosensors
Callaway, John (Profile No. 9) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Risk management, agriculture, water resources, climate change, adaptation ▪ Building sector and spatial equilibrium models for sector planning in agriculture and water resources with a focus on long-run investment to cope with climate change and economic development pressure
Casse, Thorkil (Profile No. 11) Roskilde University (RU)	<ul style="list-style-type: none"> ▪ Local forest management, protection of groundwater

Christensen, Jens Hesselbjerg (Profile No. 12) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> ▪ Provider of climate and climate change information for the physical climate system (weather, ocean and terrestrial related) ▪ IPCC 4AR WG1 coordinating lead author
Fensholt, Rasmus (Profile No. 17) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Remote sensing of vegetation and water resources
Funder, Mikkel (Profile No. 18) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> ▪ Applied policy- and sector analysis; aid programme design, monitoring, and review/evaluation. Especially local aspects of climate change in relation to water and forest management, coastal resources and protected areas.
Hasholt, Bent (Profile No. 22) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Hydrology,, runoff, erosion, sediment transport
Jakobsen, Svend-Erik (Profile No. 25) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Climate proof crops, strategic water management for drought alleviation
Jensen, Christian R. (Profile No. 26) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Crop physiologist with emphasis on plant water relations under arid conditions. Modelling of plant water balance. Signalling under soil drying.
Jensen, Jens Raunsø (Profile No. 27) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Agrometeorology; water harvesting; surface irrigation; water productivity (rainfall and irrigation); wastewater reuse; participatory integrated watershed management
Jensen, Roar Askær (Profile No. 28) DHI	<ul style="list-style-type: none"> ▪ Water resources expert with extensive modelling experience and more than 20 years of experience from water resources planning projects in many developed and industrialised countries. ▪ Development of approaches to climate change aspect of water resources assessment, planning and management.
Konradsen, Flemming (Profile No. 29) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Vector borne diseases, disaster management and health
Kristensen, Erik (Profile No. 30) University of Southern Denmark (SDU)	<ul style="list-style-type: none"> ▪ Mangrove, sewage, local communities, Greenhouse gas emission, CO₂, CH₄, invasive species
Larsen, Henrik (Profile No. 32) DHI	<ul style="list-style-type: none"> ▪ Integrated water resources management; adaptation; links between water, energy and climate change
Mark, Ole (Profile No. 37) DHI	<ul style="list-style-type: none"> ▪ Urban flooding, rainfall, urban drainage, urban water,
Oksen, Peter (Profile No. 43) Roskilde University (RU)	<ul style="list-style-type: none"> ▪ Natural Resource Management, Land Use Planning, Environmental Management, EIA, Socio-Economic Rural Studies, GIS & Remote Sensing, Capacity building & HRD.
Ravnborg, Helle Munk (Profile No. 49) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> ▪ Local water governance; water conflicts, poverty research and measurement; local institutions and organizing practices; rural development; access to natural resources and natural resource management; protected areas; climate change.
Reefsgaard, Jens Christian (Profile No. 51) Geological Survey of Denmark and Greenland (GEUS)	<ul style="list-style-type: none"> ▪ Water resources management, Groundwater, Rivers ▪ Development of new methodologies and tools that enable easier and more accurate use of regional scale climate and hydrological models to address local scale water resources problems.
Rosbjerg, Dan (Profile No. 52) Danish Technical University (DTU)	<ul style="list-style-type: none"> ▪ Hydrological modelling, Water resources optimisation, Flood protection and drought prediction ▪ Local capacity building
Sandholt, Inge (Profile No. 53) University of Copenhagen (UC)	<ul style="list-style-type: none"> ▪ Earth Observation, hydrology, land surface processes, climate
Sjørlev, Jens (Profile No. 54) DHI	<ul style="list-style-type: none"> ▪ Social impact assessment; poverty assessments; water resources; inland fisheries; ▪ Process consulting, institutional analysis, stakeholder analysis, policy and strategy analysis, team management and leadership, programme and project design and project implementation.
Villholth, Karen (Profile No. 60) Geological Survey of Denmark and Greenland (GEUS)	<ul style="list-style-type: none"> ▪ Groundwater resources, availability, use, and management, Disaster use and management of groundwater resources

Yang, Shuting (Profile No. 61) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> Global and regional climate modelling, climate variability, climate sensitivity, climate change impacts, seasonal forecasting
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Focal area 8: Climate change and Security

It is increasingly evident that the effects of climate change will have implications for national and international security, e.g. through displacement of people due to impacts of drought, sea-level rise or extreme weather events. In the developing world, the adverse effects of climate change on the natural environment are likely to increase the challenges for local communities and governments in securing access to natural resources, e.g. water, food, energy supplies etc. In worst case scenarios, the combined effect of climate change and other stressors could induce violent conflicts.

Contributors within this focal area have expertise in different fields of relevance to climate change and security in developing countries. One has knowledge of CC effects on urban pollution (profile 2), while others focus on access to natural resources, tenure and conflict (profiles 36, 42, 48, 49).

Name and institution	Climate change and Security Thematic specialisation within this focal area
Baklanov, Alexander (Profile No. 2) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> Atmospheric pollution and climate change; effects of urban areas (megacities) on environment pollution and climate
Marcussen, Henrik Secher (Profile No. 36) Roskilde University (RU)	<ul style="list-style-type: none"> Rights, tenure, access and entitlements; institutions; plans, policies & strategies Capacity building
Nordstrøm, Steen (Profile No. 42) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> Natural resources and armed conflict, International security Identification of possible links between climate change and security
Rasmussen, Kjeld (Profile No. 48) University of Copenhagen (UC)	<ul style="list-style-type: none"> CC impacts, mitigation and adaptation in LDC's, Ethical aspects of CC, Security aspects of CC
Ravnborg, Helle Munk (Profile No. 49) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> Local water governance; poverty research and measurement; local institutions and organizing practices; rural development; access to natural resources and natural resource management; protected areas; climate change.

Focal area 9: Climate change, Law and governance

The ability of developing countries to address the adverse effects of climate change is largely determined by national, regional or local institutional capacity and governance mechanisms. Knowledge of and research in legislation and management systems is important in order to design the most efficient organisational structures and other elements of an enabling environment for management of water, land, natural resources etc.

Contributors within this focal area have experience with various aspects of environmental law and governance, including the analysis of existing policies with relevance for CC (profiles 18, 46) and institutional capacity building (profiles 18, 43, 46).

Name and institution	Climate change, Law and Governance Thematic specialisation within this focal area
Bolwig, Simon (Profile No. 5) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> Private standards on climate change, Carbon labelling, Organics and climate change

Cold-Ravnkilde, Signe Marie (Profile No. 14) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> Water conflicts, decentralisation, climate change, state formation processes in Mali
Dhar, Subash (Profile No. 15) UNEP Risoe Centre	<ul style="list-style-type: none"> Climate Change, Sustainable Development, Energy and Environment, Modelling
Funder, Mikkel (Profile No. 18) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> Social and institutional aspects of climate change, including local and national governance mechanisms, conflicts and collaborative mechanisms; decentralization; community-based approaches; stakeholder participation and impacts for the poorest. Applied policy- and sector analysis; aid programme design, monitoring, and review/evaluation. Especially local aspects of climate change in relation to water and forest management, coastal resources and protected areas.
Oksen, Peter (Profile No. 43) Roskilde University (RU)	<ul style="list-style-type: none"> Natural Resource Management, Land Use Planning, Environmental Management, Development studies, EIA, Socio-Economic Rural Studies, GIS & Remote Sensing, Capacity building & HRD, Institutional Building, Teaching and Training.
Olsen, Karen H (Profile No. 46) UNEP Risoe Centre	<ul style="list-style-type: none"> Climate policy in practice, CDM, institutional capacity development, sustainable development
Ravnborg, Helle Munk (Profile No. 49) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> Local water governance; poverty research and measurement; local institutions and organizing practices; rural development; access to natural resources and natural resource management; protected areas; climate change.

Focal area 10: Climate change, rivers and coastal dynamics

Climate change and sea-level rise is likely to have significant effects on coastal areas and river flows. In many developing countries people are highly dependent on natural resources, including fisheries, and thus large parts of the population live along river banks or in low-lying coastal areas, some of which are extremely prone to flooding (e.g. Bangladesh, small islands states).

Most of the contributors within this focal area have expertise in various aspects of river- and coastal zone management (profiles 16, 22, 30, 34, 52, 59), including the effects of CC and other stressors on coastal ecosystems (profiles 24, 30, 34, 59).

Name and institution	Climate change, rivers and coastal dynamics Thematic specialisation within this focal area
Christensen, Jens Hesselbjerg (Profile No. 12) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> Provider of climate and climate change information for the physical climate system (weather, ocean and terrestrial related) Research leader, Project coordinator IPCC 4AR WG1 coordinating lead author
Edelvang, Karen (Profile No. 16) DHI	<ul style="list-style-type: none"> Cohesive sediments, public awareness
Hasholt, Bent (Profile No. 22) University of Copenhagen	<ul style="list-style-type: none"> Hydrology, runoff, erosion, sediment transport
Holmer, Marianne (Profile No. 24) University of Southern Denmark (SDU)	<ul style="list-style-type: none"> Marine plant ecology and sediment biogeochemistry with particular interests in understanding ecosystem level dynamics due to ecological responses of plants communities to resource, stress and disturbance gradients. Environmental impacts of marine aquaculture on coastal ecosystems through ecosystem approach to management.

Jensen, Roar Askær (Profile No. 28) DHI	<ul style="list-style-type: none"> Water resources expert with extensive modelling experience and more than 20 years of experience from water resources planning projects in many developed and industrialised countries. Manager of or participant in several overseas projects dealing with climate change aspect. Development of approaches to climate change aspect of water resources assessment, planning and management.
Kristensen, Erik (Profile No. 30) University of Southern Denmark (SDU)	<ul style="list-style-type: none"> Mangrove, sewage, local communities, Greenhouse gas emission, CO₂, CH₄, invasive species
Macintosh, Donald (Profile No. 34) University of Aarhus (AU)	<ul style="list-style-type: none"> Coastal Zone Management, Natural Resources Management, Coastal Protection, Mangrove Ecosystem 20 years of experience on mangrove regeneration and coastal zone planning and management in SE Asia.
Reefsgaard, Jens Christian (Profile No. 51) Geological Survey of Denmark and Greenland (GEUS)	<ul style="list-style-type: none"> Water resources management, Groundwater, Rivers Development of new methodologies and tools that enable easier and more accurate use of regional scale climate and hydrological models to address local scale water resources problems.
Rosbjerg, Dan (Profile No. 52) Technical University of Denmark (DTU)	<ul style="list-style-type: none"> Hydrological modelling, Water resources optimisation, Flood protection and droughts prediction Local knowledge and research capacity building
Tychsen, John (Profile No. 59) Geological Survey of Denmark and Greenland (GEUS)	<ul style="list-style-type: none"> Effect of CC on coastal systems meaning ecology, coastal erosion, infrastructure, urban areas, natural hazards, contingency planning, environmental sensitivity ranking

Focal area 11: Climate change, Ecosystems and biodiversity

In addition to other human caused disturbances such as land use- and land cover change, changes in climate will exert pressure on ecosystems, and to a certain extent changes in temperatures and precipitation patterns have already begun to affect biodiversity, e.g. temperature increases have affected the length of growing seasons, species distribution, and the timing of reproduction and migration of animals.

Most of the contributors within this focal area have knowledge about the potential effects of climate change on natural ecosystems and experience in management of natural resources. Some have a focus on assessment and management of forest ecosystems (profiles 3, 6, 11, 18, 20, 30, 34, 57), and others with wider perspectives on vegetation change (profiles 33, 41) and land-surface processes (profiles 35, 53).

Name and institution	Climate change, Ecosystems and biodiversity Thematic specialisation within this focal area
Balslev, Henrik (Profile No. 3) University of Aarhus (AU)	<ul style="list-style-type: none"> Research, Palms, Biodiversity, Ecosystems, South America
Borchsenius, Finn (Profile No. 6) University of Aarhus (AU)	<ul style="list-style-type: none"> Research, Palms, Biodiversity, Ecosystems, South America
Casse, Thorkil (Profile No. 11) Roskilde University (RU)	<ul style="list-style-type: none"> Local forest management
Funder, Mikkel (Profile No. 18) Danish Institute for International Studies (DIIS)	<ul style="list-style-type: none"> Social and institutional aspects of climate change. Applied policy- and sector analysis; aid programme design, monitoring, and review/evaluation. Especially local aspects of climate change in relation to water and forest management, coastal resources and protected areas.
Gundersen, Per (Profile No. 20) University of Copenhagen (UC)	<ul style="list-style-type: none"> Greenhouse gas emission from tropical forest soils, Increased nitrogen deposition effects on forest including interaction with CC, Environmental services from forest

Holmer, Marianne (Profile No. 24) University of Southern Denmark (SDU)	<ul style="list-style-type: none"> Marine plant ecology and sediment biogeochemistry with particular interests in understanding ecosystem level dynamics due to ecological responses of plants communities to resource, stress and disturbance gradients. Sulphur and nutrient cycling in temperate and tropical benthic ecosystems. Environmental impacts of marine aquaculture on coastal ecosystems through ecosystem approach to management.
Kristensen, Erik (Profile No. 30) University of Southern Denmark (SDU)	<ul style="list-style-type: none"> Tropical mangrove systems, Greenhouse gas emission, CO₂, CH₄, invasive species
Kristensen, Thomas (Profile No. 31) University of Copenhagen (UC)	<ul style="list-style-type: none"> Freshwater snail taxonomy and diversity, snail borne diseases, GIS, remote sensing, spatial epidemiology 26 years experience in project coordination, training course and conference organization in developing countries.
Lykke, Anne Mette (Profile No. 33) University of Aarhus (AU)	<ul style="list-style-type: none"> Vegetation change, local knowledge, ethnobotany, biodiversity, ecology
Macintosh, Donald (Profile No. 34) University of Aarhus (AU)	<ul style="list-style-type: none"> Coastal Zone Management, Natural Resources Management, Coastal Protection, Mangrove Ecosystem 20 years of experience on mangrove regeneration and coastal zone planning and management in SE Asia.
Mackellar, Neil (Profile No. 35) Danish Meteorological Institute (DMI)	<ul style="list-style-type: none"> Regional climate modelling, seasonal forecasting, land-surface processes
Nielsen, Thomas (Profile No. 40) University of Aarhus (AU)	<ul style="list-style-type: none"> Natural Resources Management Project Design, project implementation, information management consultant, conference planner
Nielsen, Thomas Theis (Profile No. 41) University of Copenhagen (UC)	<ul style="list-style-type: none"> Remote sensing, land degradation, desertification
Oksen, Peter (Profile No. 43) Roskilde University (RU)	<ul style="list-style-type: none"> Natural resource management, Land use planning Experience in management and administration of projects, research programs, and cooperation with international partners, including conference planning.
Sandholt, Inge (Profile No. 53) University of Copenhagen (UC)	<ul style="list-style-type: none"> Earth Observation, hydrology, land surface processes, climate
Struwe, Sten (Profile No. 56) University of Copenhagen (UC)	<ul style="list-style-type: none"> Decomposition and microbial activity, Production and emission of greenhouse gases, nitrous oxide
Svenning, Jens-Christian (Profile No. 57) University of Aarhus (AU)	<ul style="list-style-type: none"> Ecoinformatics, macroecology, ecological modelling, spatial analyses, climate change impacts, biodiversity, plant ecology, forest ecology
Tychsen, John (Profile No. 59) Geological Survey of Denmark and Greenland (GEUS)	<ul style="list-style-type: none"> Effect of CC on coastal systems meaning ecology, coastal erosion, infrastructure, urban areas, natural hazards, contingency planning, environmental sensitivity ranking Project manager, Responsible for project formulation, contract negotiation, reporting and project economy, contact to donors Planning conferences etc.

<p style="text-align: center;">Danish research competences - in relation to climate change (CC) impacts, mitigation and adaptation in developing countries (DC's)</p>							
No.	Name of researcher	CC related focal area	Thematic specialisation	Geographic specialisation	Collaborating partners in DC's	Summary of functions and competences	Research projects Details on projects in Annex 2
1	Ammentorp, Hans Christian Senior hydrologist, Water Resources DHI Phone: +45 45 16 91 32 Web: www.dhigroup.com E-mail: hca@dhigroup.com	Adaptation, Water resources	Modelling hydrology and water resources management systems Reservoirs	Africa, Asia	National authorities and river basin authorities	Planning water management, modelling, Optimisation of water use, Training	Participant project No. 6, 7 & 8
2	Baklanov, Alexander Dr. Sci., Professor Vice-director of Danish Strategic Research Center for Energy, Environment and Health (CEEH) Senior scientist Danish Meteorological Institute (DMI) Phone: +45 39157441 Fax: +45 39157460 E-mail: alb@dm.dk ; Web: http://dm.dk , http://ceeh.dk , http://baklanov.dk	The climate system, Local livelihoods, Mitigation, Health	Atmospheric pollution and climate change; effects of urban areas (megacities) on environment pollution and climate	Many different countries around the world	Not yet	The coordinator of 7FP EC project MEGAPOLI "Megacities: Emissions, urban, regional and Global Atmospheric POLLution and climate effects, and Integrated tools for assessment and mitigation" Convener of the FAU conference 2008 Workshop 1 "Megacities: Development Scenarios and Impact on Environment and Climate"	Coordinator project No. 16
3	Balslev, Henrik Professor, PhD University of Aarhus (AU) Phone: +45 8942 2743 Fax: +45 8942 2722 Web: www.henrikbalslev.dk E-mail: henrik.balslev@biology.au.dk	Local livelihoods, Ecosystems and biodiversity	Research, Palms, Biodiversity, Ecosystems, South America	South America, Ecuador, Peru, Bolivia, Colombia, Amazonas	University of San Francisco Xavier de Chuquisaca in Sucre, San Andrés University (UMSA) in LA Paz, Bolivia, 1) Monica Moraes R Universidad Mayor de San Andres, La Paz, Bolivia, monicamoraes@accelerate.com 2) Betty Millán Salazar, Universidad Nacional Mayor De San Marcos, Lima, Peru, bmillans@unmsm.edu.pe 3) Renato Valencia, Pontificia Universidad Católica Del Ecuador, Quito, rvalencia@puce.edu.ec 4) Gloria Galeano, Universidad Nacional De Colombia, Bogota, gagaleano@unal.edu.co	Research, teaching, grant applications, project coordinator, conference planning,	Coordinator project No. 56, 57 & 58
4	Birch-Thomsen, Torben PhD., Associate Professor Phone: +45 35 32 25 70 Fax: +45 35 32 25 01 Web: www.geogr.ku.dk/staff/tbt E-mail: tbt@geo.ku.dk	Agriculture, Local livelihoods	Natural resource management, land use/land use change, rural livelihoods, rural-urban linkages, agricultural systems	East and Southern Africa; Tanzania, South Africa Oceania; Solomon Islands	Institute of Resource Assessment, University of Dar es Salaam (Tanz), Scholl of Environmental Sciences, University of KwaZulu-Natal (SA) University of South Pacific (Fiji)	Project coordination and management, capacity building	Participant project No. 47

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

5	Bolwig, Simon PhD, Project Researcher Danish Institute for International Studies (DIIS) Phone: +45 3269 8743 Email: sbo@diis.dk Web: http://www.diis.dk/sbo	Agriculture, Local livelihoods, Law and governance, Other: Private CC standards	Private standards on climate change, Carbon labelling, Organics and climate change	EU, UK, Developing Countries	None	Research and dissemination	Coordinator project No. 13
6	Borchsenius, Finn Ph.D, Associate Professor University of Aarhus (AU) Phone: +45 8942 2740 Fax: +45 8942 2722 Web: http://person.au.dk/finn.borchsenius@biology E-mail: finn.borchsenius@biology.au.dk	Ecosystems and biodiversity	Research, Palms, Biodiversity, Ecosystems, South America	South America, Ecuador, Peru, Bolivia, Colombia, Amazonas	University of San Francisco Xavier de Chuquisaca in Sucre, San Andrés University (UMSA) in LA Paz, Bolivia, 1) Monica Moraes R Universidad Mayor de San Andres, La Paz, Bolivia,. monicamoraes@accelerate.com 2) Betty Millán Salazar, Universidad Nacional Mayor De San Marcos, Lima, Peru, bmillans@unmsm.edu.pe 3) Renato Valencia, Pontificia Universidad Católica Del Ecuador, Quito, rvalencia@puce.edu.ec 4) Gloria Galeano, Universidad Nacional De Colombia, Bogota, gagaleanog@unal.edu.co	Research, teaching, Chairman of teaching committee at Biology,	Participant in project No. 57 & 58
7	Brandt, Kristian K. PhD, Associate professor University of Copenhagen (UC), Faculty of Life Sciences Phone: +45 353 32612 Fax: +45 353 32606 http://www.ecol.life.ku.dk/kkb@life.ku.dk	Agriculture, Water resources	water management, nutrient management, sustainable agriculture, integrated crop management, plant-microbe interactions, soil quality, environmental microbiology, pollution, cropping systems, irrigation, rice, maize, nitrogen transformations in soil, whole- cell bacterial biosensors.	South-East Asia, Vietnam, Mekong River Delta	Pham Sy Tan, Cuu Long Rice Research Institute, VIETNAM, pstan@hcm.vnn.vn Ngo Ngoc Hung, Can Tho University, VIETNAM, ngochung@ctu.edu.vn	Research coordinator, work package leader, PhD supervisor.	N/A
8	Buch-Hansen, Mogens Ph.D., Associate Professor Roskilde University (RU) Phone: +45 4674 2908 Fax: +45 4674 3096 E-mail: mobh@ruc.dk	Agriculture, Local livelihoods, Adaptation	Natural resources management, organic agriculture and rural development for adaptation and CC resilient development policies	SSA (specifically Kenya and Tanzania) and South East Asia (specifically Thailand)	N/A	Project coordinator, consultant and team leader for a number of assignments in natural resource management and agriculture. Researcher with ICRAF and RUC	Coordinator project No. 41
9	Callaway, John M Ph.D, Senior Economist UNEP Risoe Centre Phone: +45 4677 5132 Fax: +45 4632 1999 Web: www.uneprisoe.org E-mail: john.macintosh.callaway@gmail.com	Agriculture, Adaptation, Water resources	Risk management, agriculture, water resources, climate change, adaptation	Western Cape, South Africa (ZA)	University of the Free State, University of Cape Town, University of Kwazulu-Natal, Optimal Agricultural Business Systems	Building sector and spatial equilibrium models for sector planning in agriculture and water resources with a focus on long-run investment to cope with climate change and economic development pressure	Participant project No. 24 & 25
10	Cappelen, John MSc. Physics and Geography, Senior Climatologist, Danish Meteorological Institute (DMI) Phone: +45 39157500 Fax: +45 39157598 E-mail: jc@DMI.dk	The climate system	Weather, Climate, Data Management	E.g. Africa, Ghana, Latvia	N/A	Senior Climatologist, Project leader, Data Management Specialist, Science Writer	Coordinator project No. 14 & 15

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

11	Casse, Thorkil Associate Professor Roskilde University (RU) Phone: +45 46 74 24 81 E-mail: casse@ruc.dk	Water resources, Ecosystems and biodiversity	Local forest management	Madagascar	University of Antananarivo, Madagascar, ESSA-Forêt (Bruno Ramamonjisoa bs.ramamonjisoa@netclub.mg) Water Resources University, Hanoi Vietnam (Khiêm Dao bicon97@yahoo.com)	Project coordinator, 2005- 2008 : Local forest management in Madagascar Final workshop organiser in July 2008	Coordinator project No. 42
12	Christensen, Jens Hesselbjerg PhD, Research leader Danish Meteorological Institute (DMI) Phone: +45 3915 7428 Fax: +45 39165 7460 Web: http://www.dmi.dk E-mail: jhc@dmi.dk	The climate system, Adaptation, Water resources, Other: CC integrated assessment	Regional climate, climate change projections, defining uncertainties, extreme weather.	Europe, Arctic, West and South Africa, the Americas,	Bruce Hewitson, University of Cape Town, hewitson@csag.uct.ac.za Claudio Menendez, University of Buenos Aires, menendez@cima.fcen.uba.ar	Provider of climate and climate change information for the physical climate system (weather, ocean and terrestrial related)	Participant project No. 20
13	Christensen, John Dr. (PhD), Head of centre UNEP Risoe Centre Phone : +45 4677 5130 Fax : +45 4632 1999 Web : www.uneprisoe.org E-mail : john.christensen@risoe.dk	Mitigation, Adaptation	Climate convention "politics" and implementation CDM and carbon markets Adaptation and development	Multi region with a special focus on Africa, but involvement in projects in many countries in Africa, Asia and LAC	Too many to list, see website: www.uneprisoe.org	Manager for approx. 30 international staff Participation in project design and fund raising Participation in UNFCCC meetings for UNEP Speaker at international conferences etc...	N/A
14	Cold-Ravnskilde, Signe Marie PhD, researcher Danish Institute for International Studies (DIIS) Phone: +4560921933 E-mail: smr@diis.dk	Local livelihoods, Water resources, Law and governance	Water conflicts, decentralisation, climate change, state formation processes in Mali	West Africa Mali (and Niger)	Moussa Djiré, University of Bamako (UB), djiremous@yahoo.fr	Researcher	Participant project No. 10
15	Dhar, Subash Economist UNEP Risoe Centre Phone: +45 4677 5135 Fax: +45 4677 5199 E-mail: subash.dhar@risoe.dk	The climate system, Mitigation, Security, Law and governance	Climate Change, Sustainable Development, Energy and Environment, Modelling	India and South Asia	Prof. P. R. Shukla Indian Institute of Management, Ahmadabad shukla@iimahd.ernet.in	Project Coordinator	Participant project No. 25, 26, 27 & 28
16	Edelvang, Karen PhD, Head of Research DHI Phone: +45 45169117 Tel: +45 45169292 Web: www.dhigroup.com E-mail: kae@dhigroup.com	Adaptation, Rivers and coastal dynamics	Cohesive sediments, public awareness	Europe, China	N/A	Head of Research	N/A
17	Fensholt, Rasmus PhD. Assistant professor, University of Copenhagen (UC) Department of Geography and Geology, Phone: +45 35322526 E-mail: rf@geo.ku.dk	The climate system, Agriculture, Water resources, Ecosystems and biodiversity	Remote sensing of vegetation and water resources	Africa	Dr. Cheikh Mbow Institut des Sciences de l'Environnement Laboratoire d'Enseignement et de Recherche en Géomatique (LERG) Ecole Supérieure Polytechnique (ESP) Université Cheikh Anta Diop de Dakar-Sénégal email. cmbow@ucad.sn ; cheikh_penda@yahoo.fr	Project coordinator of 2 projects:	Coordinator project No. 49 & 50

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

18	<p>Funder, Mikkel PhD, Programme Researcher Danish Institute for International Studies (DIIS) Phone: +45 3269 8697 Fax: +45 3269 8700 Web: http://www.diis.dk/naturalresources E-mail: mfu@diis.dk</p>	Local Livelihoods, Adaptation, Water resources, Law and governance, Ecosystems and biodiversity	Social and institutional aspects of climate change, including local and national governance mechanisms, conflicts and collaborative mechanisms; decentralization; community-based approaches; stakeholder participation and impacts for the poorest. Applied policy- and sector analysis; aid programme design, monitoring, and review/evaluation. Especially local aspects of climate change in relation to water and forest management, coastal resources and protected areas.	Country experience from Southeast Asia and Africa, including Cambodia, Vietnam, Lao PDR, Thailand, Malaysia, Indonesia, Mali, Kenya, Tanzania, Zambia, Zimbabwe.	Chulalongkorn University, Thailand National University of Laos, Lao PDR Centre for Agro-Ecological Research and Environmental Studies, Vietnam University of Bamako, Mali Center for Integrated Water Resources Management, Zambia International Water Management Institute, South Africa	10+ years experience as researcher and consultant in development. This includes impacts of policy and project interventions on the poorest; natural resource conflicts and collaborative mechanisms; decentralisation and participatory/community-based approaches. Also multilateral collaboration, multidisciplinary education and research, and applied policy and sector analysis. Experience from programme and project design, review and implementation for DANIDA, the World Bank and various NGOs. Techniques include Participatory Rural Appraisal, Social Impact Assessment and socio-economic baseline	Coordinator project No. 10 Participant project No. 53
19	<p>Furu, Peter MSc, MPH, Senior Adviser Head - WHO Collaborating Centre on Health and Environment in Sustainable Development DBL-Centre for Health Research and Development University of Copenhagen (UC), Faculty of Life Sciences Phone: +45 3533 1430 Fax: +45 3533 1433 E-mail: pfu@life.ku.dk Web: www.dbl.life.ku.dk</p>	Health	Environmental health; climate change and health; health impact assessment (HIA); health aspects of environmental impact assessment (EIA) and strategic environmental assessment (SEA); ecosystems health;	Africa; SE-Asia	Ministry of Health, Ministry of Environment, Vietnam Ministry of Health, Lao PDR Ministry of Health, Cambodia Ministry of Health, Thailand	25 years of research, capacity building, consultancy and service provision in developing countries - primarily in a cross-sectoral context with focus on environmental health aspects of development.	N/A
20	<p>Gundersen, Per Professor University of Copenhagen (UC), Faculty of Life Sciences Phone: + 45 3533 1678 Fax: + 45 3533 1517 Web: www.sl.life.ku.dk E-mail: pqu@life.ku.dk</p>	Ecosystems and biodiversity	Greenhouse gas emission from tropical forest soils Increased nitrogen deposition effects on forest including interaction with CC Environmental services from forest	South East Asia South China	South China Institute of Botany Prof. Jiangming Mo mojm@scib.ac.cn	Participant in Chinese financed projects (consultant on scientific questions, participate in writing research papers from the projects)	N/A
21	<p>Halsnæs, Kirsten Phd, Professor UNEP Risoe Centre Phone: + 45 46 77 51 12 Fax: + 45 46 32 19 99 E-mail: Kirsten.halsnaes@risoe.dk</p>	Mitigation, Adaptation Other: Economics of CC, International climate policies	Economic concepts applied to mitigation and adaptation studies, sustainable development	India, China, African countries	ERI China, IIAM Ahmedabad India	IPCC Convening lead author, Thematic coordinator in UNEP Risoe, Project manager	Coordinator project No. 20, 21 & 22

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

22	Hasholt, Bent PhD, Associate professor Phone: +4535322500 Fax: +4535322501 E-mail: bh@geo.ku.dk	Water resources, Rivers and coastal dynamics, Other: Erosion and sediment transport	Hydrology, runoff, erosion, sediment transport	Afrika, Ghana	Department of Geology, Legon University, Accra, Ghana	Supervision of PhD projects, project coordinator of monitoring programmes, conference planning.	N/A
23	Hinostroza, Miriam PhD, Senior Economist UNEP Risoe Centre Phone: +45 4677 5180 Fax: +45 4632 1999 Web: http://uneprisoe.org/Staff/Hinostroza.htm	Local livelihoods, Mitigation, Adaptation	Climate change, energy planning, economics	Latin America and the Caribbean	Daniel Bouille, Fundación Bariloche, Daniel Bouille, dbouille@fundacionbariloche.com.ar Sinclair Mallet Guy Guerra: sguerra@iee.usp.br	Carbon Finance and CDM coordinator Project manager for CDM in Latin America Planning and facilitating regional and national capacity development for the CDM conferences, seminars, training sessions	Coordinator project No. 35
24	Holmer, Marianne Ph.D., Associate Professor University of Southern Denmark (SDU) Phone: +4565502605 Fax: +4565502787 Web: www.mholmer.biology.sdu.dk E-mail: holmer@biology.sdu.dk	Rivers and coastal dynamics, Ecosystems and biodiversity	Marine plant ecology and sediment biogeochemistry with particular interests in understanding ecosystem level dynamics due to ecological responses of plants communities to resource, stress and disturbance gradients. Sulfur and nutrient cycling in temperate and tropical benthic ecosystems. Environmental impacts of marine aquaculture on coastal ecosystems through ecosystem approach to management.	Asia (Thailand, Philippines, India).	Tritep Vichkovitten, University of Kasseart, vichkovitten@yahoo.com Pornthep Wirachwong, Trang University, thep1969@gmail.com Miquel Fortes, University of Philippines Prof.M.Kurup, Cochin University of Science & Technology kurup424@gmail.com	Project coordinator	N/A
25	Jacobsen, Sven-Erik PhD, Associate Professor University of Copenhagen (UC), Faculty of Life Sciences Phone: +4535333388 E-mail: Seja@life.ku.dk	Agriculture, Water resources	Climate proof crops	North Africa, West Africa, Middle East, Latin America	N/A	Project coordinator (see projects)	Coordinator project No. 51 & 52
26	Jensen, Christian Richardt Senior associate professor University of Copenhagen (UC), Faculty of Life Sciences Phone: +45 35333392 Fax: +45 35333478 Web: http://www.life.ku.dk/ E-mail: crj@life.ku.dk	Agriculture, Adaptation, Water resources	Crop physiologist with emphasis on plant water relations under arid conditions. Modelling of plant water balance. Signalling under soil drying.	Arid conditions	N/A	Research and teaching in crop physiology and crop water relations.	Coordinator project No. 63 Participant project No. 51
27	Jensen, Jens Raunso PhD, Associate Professor University of Copenhagen (UC), Faculty of Life Sciences Phone: +45 35333387 E-mail: jrj@life.ku.dk	Agriculture, Local livelihoods, Adaptation, Water resources	Agrometeorology; Environmental Physics; water harvesting; surface irrigation; water productivity (rainfall and irrigation); wastewater reuse; participatory integrated watershed management; agriculture and natural resources management; sustainable landuse	Country examples: West Africa (Nigeria), East Africa (Tanzania, Kenya), South Asia (India, Pakistan, Bangladesh), and South-East Asia (Thailand, Vietnam, Indonesia)	N/A	Functions: Chief Advisor, Programme/Project Coordinator, Team Leader, Conference Organisation/facilitation, Associate Professor, Consultant (identification, planning, review, and evaluation)	N/A

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

28	Jensen, Roar Askær MSC. Civ Eng, Senior Water Resources Expert DHI Phone: +45 4516 9270 Web: www.dhigroup.com E-mail: raj@dhigroup.com	The climate system, Agriculture, Mitigation, Adaptation, Water resources, Security, Rivers and coastal dynamics, Ecosystems and biodiversity	Water resources expert with extensive modelling experience and more than 20 years of experience from water resources planning projects in many developed and industrialised countries.	World wide	N/A	Water resources and Climate Change in Vietnam	Coordinator project No. 4 Participant project No. 5
29	Konradsen, Flemming Professor, Deputy, Head of Department; Program Director (MIH and MDMA) University of Copenhagen (UC) Phone: +45 35 32 77 76 E-mail: f.konradsen@pubhealth.ku.dk	Health, Water resources	Vector borne diseases, disaster management and health	South Asia and East Africa	Christian Medical Collage (Vellore, India); University of Peradeniya (Sri Lanka); International Water Management Institute; KNUST (Kumasi, Ghana)	Course planning; Teaching; Research design; Risk assessments	N/A
30	Kristensen, Erik Dr. scient. Lektor University of Southern Denmark (SDU) Phone: +45 6550 2754 Fax: +45 6550 2786 Web: http://www.ebkristensen.biology.sdu.dk/dk/vip.htm bjology.sdu.dk	Local livelihoods, Water resources, Rivers and coastal dynamics, Ecosystems and biodiversity	Greenhouse gas emission, CO ₂ , CH ₄ , invasive species	Greenhouse gas emission, CO ₂ , CH ₄ , invasive species	John Machiwa (jmachiwa@udsm.ac.tz), Karoli Njau (knjau30@yahoo.com), University of Dar es Salaam, Tanzania	Researcher, project coordinator (EU projects)	Coordinator project No. 44
31	Kristensen, Thomas K. Ph.D, Professor adj. WHO Collaborating Centre on Health and Environment in Sustainable Development DBL-Centre for Health Research and Development University of Copenhagen (UC) Phone: +45 35331425 Web: www.dbl.life.ku.dk E-mail: tkk@life.ku.dk	Health, Ecosystems and biodiversity	GIS, remote sensing, spatial epidemiology, freshwater snail taxonomy and diversity, snail borne diseases.	Africa, China	University of Zambia, Lusaka Zambia National Museums of Kenya, Nairobi, Kenya Makerere University, Kampala, Uganda Vector Control Division, Ministry of health Uganda For others see: www.eu-contrast.eu	26 years experience in project coordination, sdtudnet supervision, training course and conference organization in developing countries.	N/A
32	Larsen, Henrik M.Sc. (Env. Eng.) Head of Innovation, DHI Water Policy Phone: +45 16 9572 Fax: +45 4516 9292 Web: www.dhigroup.com E-mail: hel@dhigroup.com	Adaptation, Water resources	Integrated water resources management; adaptation; links between water, energy and climate change	Worldwide	Assoc. Prof. Dr. Tran Thuc, Director General, Vietnam Institute of Meteorology, Hydrology and Environment Tel.: (84-4) 8359540, Email: thuc@netnam.vn , Website: http://www.imh.ac.vn	No current <i>research</i> projects on climate change in developing countries	N/A
33	Lykke, Anne Mette Phd, Associate professor University of Aarhus (AU) Phone: + 45 89422647 Fax: +45 89422722 Web: http://person.au.dk/lykke@biology E-mail: lykke@biology.au.dk	Ecosystems and biodiversity Other: CC and natural vegetation	Vegetation change, local knowledge, ethnobotany, biodiversity, ecology	West Africa (Senegal, Burkina Faso, Benin, Niger), South East Asia (Thailand)	University Cheikh Anta Diop of Dakar, Dakar, Senegal. University of Ouagadougou, Ouagadougou, Burkina Faso. University of Bobo Dioulasso, Bobo Dioulasso, Burkina Faso. University of Abomey-Calavi, Cotonou, Benin. University Abdou Moumouni, Niamey, Niger	Project coordination, Research, University teaching, Organisation of conferences, Consultancy	Coordinator project No. 54 & 55

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

34	Macitnosh, Donald PhD, Professor University of Aarhus (AU) Phone: +45 8942 3302 Fax: +45 8942 2722 Web: www.biology.au.dk/center E-mail: don.macintosh@biology.au.dk	Mitigation, Rivers and coastal dynamics, Ecosystems and biodiversity	Coastal Zone Management, Natural Resources Management, Coastal Protection, Mangrove Ecosystem	SE Asia (Thailand, Vietnam, Malaysia)	Asian Institute of Technology, Bangkok IUCN Regional Office, Bangkok	Senior Advisor to LMP Project. Sector Program Consultant (S-LMP). 20 years of experience on mangrove regeneration and coastal zone planning and management in SE Asia.	Coordinator project No. 61 & 62
35	MacKellar, Neil Post-doc Danish Meteorological Institute (DMI) Phone: +45 39157404 E-mail: ncm@DMI.dk	The climate system, Agriculture, Water resources, Ecosystems and biodiversity	Regional climate modelling, seasonal forecasting, land-surface processes	Southern Africa (most countries); Ghana, Zambia	Bruce Hewitson, University of Cape Town, hewitson@csag.uct.ac.za Mark Tadross, University of Cape Town, mtadross@csag.uct.ac.za	climate modelling; data analysis; engaging with users of climate information	Participant project No. 20
36	Marcussen, Henrik Secher Ph.D., Professor, Roskilde University (RU) Phone: +45 46742322; Fax: +45 46743033 Web: www.ruc.dk E-mail: hsm@ruc.dk	The climate system, Adaptation, Security	Rights, tenure, access and entitlements; institutions; plans, policies & strategies;	South-East Asia; West Africa	Hanoi University of Agriculture; National University of Laos; Royal University of Phnom Penh; Asia Institute of Technology;	Capacity building; appraisal and reviews; board memberships;	N/A
37	Mark, Ole M.Sc, Ph.D DHI Phone: +45 45169373 Web: www.dhigroup.com E-mail: omj@dhigroup.com	The climate system, Local livelihoods, Adaptation, Water resources	Urban flooding, rainfall, urban drainage, urban water,	Thailand, Bangladesh, India, Singapore, Vietnam, Laos, Cambodia, Malaysia, SE Asia in general- all of Scandinavia	Dr. Kapil Gupta, Professor IIT Bombay, Mumbai, India - kgupta@civil.iitb.ac.in ; Associate prof. Ismal Abustan, Malaysia - Universiti Sains Malaysia; Associate prof. Mukand Sing Babel, AIT, Thailand - msbabel@ait.ac.th ; Dr Ranjit Galappatti, Lanka Hydraulic Institute. Katubedda MORATUWA Sri Lanka - galaps@lhi.lk	Head of Innovation, project manager, project specialist	N/A
38	May, Wilhelm Dr. Scientist Danish Meteorological Institute (DMI) Phone: +45 39157462 Fax: +45 39157460 Web: http://glwww.dmi.dk/f+u/klima/klimasektion/wm.html wm@DMI.dk	The climate system, Local livelihoods	Climate change, small islands, extreme weather events, livelihood	Solomon Islands	Douglas Yee, National Weather Service Solomon Islands	Climate expert, climate modeller	Participant project No. 47
39	Mertz, Ole PhD, Associate Professor University of Copenhagen (UC), Department of Geography and Geology Phone: +45 35322529 Fax: +4535322500 Web: www.geo.ku.dk E-mail: om@geo.ku.dk	Agriculture, Local livelihoods, Adaptation	Adaptation to climate change of rural people in developing countries	West Africa, Southeast Asia, Pacific	Cheikh Mbow, University Cheikh Anta Diop Dakar, Senegal Drissa Diallo, University of Bamako, Mali Dapola Da, University of Ouagadougou, Burkina Faso Bruno Barbier, CIRAD and Zie, Burkina Faso Ibrahim Bouzou Moussa, Université Abdou Moumouni Niamey, Niger Daniel Dabi, University of Jos, Nigeria Randy Thaman, University of the South Pacific, Fiji Melchior Matakai, University of the South Pacific, Fiji	Coordinator of two projects with important climate components	Coordinator project No. 46 & 47

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

40	Nielsen, Thomas International Coordinator, University of Aarhus (AU) Department of Biological Sciences Phone: +45 8942 3349 Fax: +45 8942 2722 Web: www.biology.au.dk/center & http://person.au.dk/thomas.nielsen@biology E-mail: Thomas.nielsen@biology.au.dk	Agriculture, Ecosystems and biodiversity	Natural Resources Management	Southeast Asia (Vietnam, Thailand, Malaysia)	Cantho University, Vietnam – ntphuong@ctu.edu.vn IUCN, Regional Office, Bangkok – don@iucnt.org	Project Design, project implementation, information management consultant, conference planner	Participant project No. 60 & 61
41	Nielsen, Thomas Theis Ph.D., Associate professor Roskilde University (RU) Phone: +45 4674 3941 Web: http://www.ruc.dk E-mail: nielsentt@ruc.dk	Agriculture, Security, Ecosystems and biodiversity	Remote sensing, land degradation, desertification	West Africa	N/A	N/A	Coordinator project No. 43
42	Nordstrøm, Steen M.SC, PhD Student, Danish Institute for International Studies (DIIS) Phone: +45 26705236 Web: http://www.diis.dk/sw22490.asp E-mail: snn@diis.dk	Security	Natural resources and armed conflict International security	Africa – Sudan, Rwanda, Ghana	N/A	PhD Student doing project on natural resource conflicts and responsible for some conference planning.	Coordinator project 12
43	Oksen, Peter PhD, Associate Professor Roskilde University (RU) Phone: +45 4674 2320 Fax: +45 4674 3033 E-mail: oksen@ruc.dk Web: www.ruc.dk	Agriculture, Local livelihoods, Mitigation, Adaptation, Water resources, Law and governance, Ecosystems and biodiversity	Natural Resource Management, Land Use Planning, Environmental Management, Development studies, EIA, Socio-Economic Rural Studies, GIS & Remote Sensing, Capacity building & HRD, Institutional Building, Teaching and Training.	Southeast Asia, Africa. Thailand, Lao PDR, Malaysia, Cambodia, Philippines, Niger, Burkina Faso, and South Africa.	National University of Laos Asian Institute of Technology Royal University of Phnom Penh	Experience in management and administration of projects, research programs, and cooperation with international partners, including conference planning.	N/A
44	Olesen, Jørgen E. PhD, Research professor Phone: +45 89991659 Fax: +45 89991619 Web: www.agrsci.dk/jpm/jeo E-mail: JorgenE.Olesen@agrsci.dk	Agriculture, Mitigation, Adaptation	Climate change impacts on crops, soils and agricultural cropping systems Climate change impacts on elemental flows and fluxes Adaptation to climate change in agroecosystems	East Africa, Ghana Latin America	Dr. Samuel Adiku, University of Ghana, Legon, Ghana	Project coordinator, researcher, modelling	Participant project No. 64
45	Olhoff, Anne Ph.D., Senior Economist UNEP Risoe Centre Phone: +45 46775172 Fax +45 46321999 Web: www.uneprisoe.org E-mail: anne.olhoff@risoe.dk	Local livelihoods, mitigation, adaptation, health	CC and Sustainable development, CC and International Trade	Global scope, but particular emphasis on Asia, South East Asia, and Africa	CONAM, Peru CEEST, Tanzania AIM, India	Socio-economic research, scientific journal paper writing, project management and coordination, conference presentations, planning, and facilitation	Coordinator project No. 38, 39 & 40 Participant project No. 22

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

46	Olsen, Karen Holm PhD, Post Doc UNEP Risoe Centre Phone: +45 46775135 Fax: +45 46321999 Web: www.uneprisoe.org E-mail: karen.olsen@risoe.dk	Mitigation, Law and governance Other: Institutional capacity development for implementation of global climate policies in developing countries	Climate policy in practice, CDM, institutional capacity development, sustainable development	Africa; Uganda, Tanzania, Mauritius, South Africa and Mozambique	Designated National Authorities (typically located in Ministries of Environment) in the above mentioned countries, also NGOs, research institutions and some private companies.	Researcher and project coordinator	Coordinator project No. 29 & 35
47	Porter, John Roy Dr, Professor University of Copenhagen (UC), Faculty of Life Sciences Phone: +45 3533 3377 Fax: +45 3533 3384 E-mail: jrp@life.ku.dk	Agriculture, Mitigation	Climate variability and food production, food quality, combined food and energy production systems, energy and greenhouse gas neutral farming.	Global	ZS El-Sayad, Field Crops Research Institute, ARC, Giza, Egypt	Project coordinator	N/A
48	Rasmussen, Kjeld PhD, Associate professor University of Copenhagen (UC), Department of Geography and Geology Phone: +45 35322563 Fax: +45 35322501 Web: www.geo.ku.dk E-mail: kr@geo.ku.dk	Agriculture, Local livelihoods, Mitigation, Adaptation, Security, Other: Ethical aspects of CC	CC impacts, mitigation and adaptation in LDCs Ethical aspects of CC Security aspects of CC	West Africa, the Sahel Vietnam Pacific Islands	Cheikh Mbow, University of Dakar, Senegal Tran Duc Vien, Hanoi University of Agriculture, Vietnam Melchior Matakai, University of the South Pacific, Fiji	Responsible for research project (CLIP in the Solomon Islands, Mapping of Renewable Energy Resources in Mali) Participant in other research and capacity development projects	Participant project No. 13, 37, 46, 47
49	Ravnborg, Helle Munk PhD., Senior researcher Danish Institute for International Studies (DIIS) Phone: +45 3269 8694 Fax: +45 3269 8700 E-mail: hmr@diis.dk	Water resources, Security, Law and governance	Local water governance; poverty research and measurement; local institutions and organizing practices; rural development; access to natural resources and natural resource management; protected areas; climate change.	E.g. Vietnam, Mali, Zambia, Bolivia, Nicaragua	Centro Agua (Bolivia), Ambato Water Agency and Provincial Government of Tungurahua (Ecuador), University of Bamako (Mali), Nitlapán (Nicaragua), Centre for Agro-Ecological Research and Environmental Studies (Vietnam), Center for Integrated Water Resources Management (Zambia)	E.g. Project coordinator	Coordinator project No. 10
50	Reenberg, Anette dr. scient. Professor Phone: +45 35 32 25 62 Fax: + 45 35 32 25 01 Web: www.geo.ku.dk – www.globallandproject.org E-mail: ar@geo.ku.dk	Agriculture, Local livelihoods, Adaptation	Land use systems, natural resource management, resilience, coupled human environmental systems	Sahel, SW pacific	University of Ouagadougou (Dr. P. Zoungrana) University of Dakar (dr. C. Mbow)	Former ENRECA-(co)coordinator Participant in AMMA-EU-IP Chair of the IGBP/IHDP Global Land Project	Participant project 46 & 47
51	Refsgaard, Jens Christian Dr. Scient, Professor Geological Survey of Denmark and Greenland (GEUS) Phone: +45 28 14 27 76 Web: www.geus.dk E-mail: jcr@geus.dk	Mitigation, Water resources, Rivers and coastal dynamics	Water resources management Groundwater Rivers	My knowledge is general. I have working experience from many countries in Europe and Asia, and a few countries in Africa	Many: Asia, Africa	Project Coordinator – many international projects Member of many international scientific panels, e.g. for review of research programmes/projects Member of many international review/appraisal missions (Danida, EC)	Coordinator project No. 19

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

52	Rosbjerg, Dan dr. techn. Professor Phone: +45 4525 1449 Fax: +45 4593 2850 Web: http://www2.er.dtu.dk/homepages/dr/ E-mail: dr@env.dtu.dk	The climate system, Water resources, Rivers and coastal dynamics	Hydrological modelling Water resources optimisation Floods and droughts	East Asia Vietnam and China	Ngo Le Long Assoc. prof., Hanoi Water Resources University, Vietnam LongLN@wru.edu.vn	Support to Hanoi Water Resources University Supervision of Vietnamese PhD candidates Participant in an EU funded Asia Pro Eco project	Coordinator project No. 1 & 2 Participant project No. 3
53	Sandholt, Inge PhD, Associate Professor University of Copenhagen (UC), Department of Geography and Geology Phone: +45 35322559 Fax: +45 35322501 Web: www.geo.ku.dk E-mail: js@geo.ku.dk	The climate system, Adaptation, Water resources, Ecosystems and biodiversity	Earth Observation, hydrology, land surface processes, climate	West Africa; African continent	Cheikh Mbow, UCAD, Senegal, mbow@ucad.sn Harouna Karambiri, 2iE, Burkina Faso, Haroua.karambiri@2ie-edu.org	Coordinator of AMMA-EU impact studies Coordinator of a number of nationally funded research projects	Coordinator project No. 48 Participant project No. 46 & 50
54	Sjørslev, Jens Grue Mag.Scient.Soc, Senior social anthropologist DHI Phone: +45 45921600 Web: www.dhigroup.com E-mail: jgs@dhigroup.com	Local livelihoods, Adaptation, Water resources	Social impact assessment; poverty assessments; water resources; inland fisheries;	Southeast Asia: Vietnam, Laos, Cambodia, Thailand, South Asia: India, Nepal, Sri Lanka, Africa: Zambia, Ghana	N/A	Southeast Asia: Vietnam, Laos, Cambodia, Thailand, South Asia: India, Nepal, Sri Lanka, Africa: Zambia, Ghana	Participant project No. 4 & 9
55	Stendel, Martin Dr., Senior Scientist Danish Meteorological Institute (DMI) Phone: +45 3915 7446 Fax: +45 3915 7460 Web: http://www.dmi.dk E-mail: mas@dmi.dk	The climate system Other: Climate modelling	Regional climate modelling	Sub-Saharan Africa (Ghana, Nigeria, Senegal, South Africa, Tanzania, Zambia, Zimbabwe)	Prof. Bruce Hewitson, University of Cape Town, South Africa hewitson@egs.uct.ac.za Dr. Clavery Tungaraza, Sokoine University of Agriculture, Tanzania tungaraza@suanet.ac.tz	Invited expert in the Third World Academy of Science project AIACC (Assessments of Impacts and Adaptations to Climate Change in Multiple Regions and Sectors), subproject AF07: Developing high resolution regional climate change scenarios for sub-Saharan Africa Expert in a proposed project on Monitoring Climate Change and its association to the changing environment of Mount Kilimanjaro	Participant project No. 17 & 18
56	Struwe, Sten Professor, Head of section University of Copenhagen (UC), Department of Biology Phone: +45 35322044 Tel: +45 35322040 Web: www.bio.ku.dk E-mail: struwe@bio.ku.dk	Ecosystems and biodiversity	Decomposition and microbial activity Production and emission of greenhouse gases, nitrous oxide	West Africa Ghana, Burkina Faso, Côte d'Ivoire	Mark Abekoe, University of Ghana, abekoe@uni.edu.gh Hassan B. Nacro, Ecole Polytechnique, Bobo Dioulasso, nacrohb@yahoo.fr Souleymane Konaté, Univ Adjame, Konate@biozentrum-uni-wuerzburg.de	Former co-ordinator	Coofdinator project No. 45
57	Svenning, Jens-Christian PhD, Associate professor University of Aarhus (AU), Department of Biology Phone: +45 89424711 Fax: +45 89422722 Web: http://person.au.dk/en/svenning@biology.au.dk E-mail: svenning@biology.au.dk	Local livelihoods, Ecosystems and biodiversity	Ecoinformatics, macroecology, ecological modelling, spatial analyses, climate change impacts, biodiversity, plant ecology, forest ecology	Latin America (in general, plus Ecuador and Panama in particular); Africa; Europe	1) Monica Moraes R Universidad Mayor de San Andres, La Paz, Bolivia, monicamoraes@accelerate.com 2) Betty Millán Salazar, Universidad Nacional Mayor De San Marcos, Lima, Peru, bmillans@unmsm.edu.pe 3) Renato Valencia, Pontificia Universidad Catolica Del Ecuador,	Research, supervision of PhD students, teaching, grant applications, conference planning, project coordination	Coordinator project No. 59 Participant project No. 56, 57

Annex 1: Danish research competences in relation to climate change impacts, mitigation and adaptation in developing countries

					Quito, lvalencia@puce.edu.ec 4) Gloria Galeano, Universidad Nacional De Colombia, Bogota, gagaleanog@unal.edu.co		
58	Trærup, Sara L. M. Agricultural economist, PhD student UNEP Risoe Centre Phone: +45 46775199 Tel: +45 4677 5100 E-mail: sara.traerup@risoe.dk	Agriculture, Local livelihoods, Adaptation	Vulnerability, adaptation, rural livelihoods	N/A	N/A	PhD student	Coordinator project No 36
59	Tychsen, John Director. International projects Geological Survey of Denmark and Greenland Phone: + 45 2147 4331 Fax: +45 3814 2050 Web: www.geus.dk E-mail: jt@geus.dk	Adaptation, Rivers and coastal dynamics, Ecosystems and biodiversity	Effect of CC on coastal systems meaning ecology, coastal erosion, infrastructure, urban areas, natural hazards, contingency planning, environmental sensitivity ranking	East Africa: Kenya, Tanzania, Somalia, Mozambique	Kenya: E.g. Kenya Marine and Fishery Research Institute (KMFRI), University of Nairobi (Kenya) Tanzania: E.g. University of Dar es Salaam, National Fishery Institute on Zanzibar Mozambique: E.g. University of Eduardo Mondlane (Maputu), INAMAR (marine institute I MoZ) UNDP Somalia Office in Nairobi EU Somalia office in Nairobi	Project manager Responsible for project formulation, contract negotiation, reporting and project economy, contact to donors Planning conferences, workshops Geological fieldwork	N/A
60	Villholth, Karen Ph.D., Senior Researcher Geological Survey of Denmark and Greenland (GEUS) Phone: +45 38 14 27 89 Fax: +45 38 14 20 50 Web: www.geus.dk E-mail: kqv@geus.dk	Agriculture, Adaptation, Water resources	Groundwater resources, availability, use, and management Disaster use and management of groundwater resources	Asia (India, China, Pakistan, Bangladesh, Nepal, Sri Lanka) Africa (various) South and Central America (Mexico)	IWMI, International Water Management Institute, iwmi@iwmi.org	Member of the Conference Planning Committee of the International Scientific Congress on Climate Change, Copenhagen March 10-12. 2009. Member of the IAH Burton Groundwater Network, http://burdon.wgw.org/	N/A
61	Yang, Shuting Ph.D, Senior Scientist Danish Meteorological Institute (DMI) Phone: +45 3915 7463 Fax: +45 3915 7460 Web: www.dmi.dk E-mail: shuting@dmi.dk	The climate system, Agriculture, Water resources	Global and regional climate modelling, climate variability, climate sensitivity, climate change impacts, seasonal forecasting	Eastern Asia and South Asia; in particular China, Vietnam	(No direct connection)	Climate modelling and simulation; Data analysis	Participant project No. 21
62	Zhu, Xianli Dr., Scientist UNEP Risoe Centre Phone: +45 4677 5270 Fax: +45 4632 1999 Web: www.uneprisoe.org E-mail: xianli.zhu@risoe.dk	Mitigation, Security, Law and governance	Climate, Energy and economic development, especially in relation to China Clean development mechanism, especially forestry CDM and also programmatic CDM	China, and other eastern Asian countries	Prof. Jiahua Pan, Chinese Academy of Social Sciences, jiahuapan@163.com	Researcher, lecturer at training workshops and related regional and international seminars	Participant project No. 29, 30, 31, 32, 33, 34 & 35
63	Ørnbjerg, Niels Dr. scient., Director University of Copenhagen (UC), Faculty of Life Sciences Phone: +45 35331420 Web: www.dbl.life.ku.dk E-mail: no@life.ku.dk	Health	Vector-borne diseases; environmental change; Biodiversity and health	Africa	A number of institutions and networks involved with control of vector-borne diseases and related health problems. See www.dbl.life.ku.dk	Director at DBL-Centre for health Research and Development with major overall coordinating functions in relation to activities (research, training, knowledge management in relation to CC and health)	N/A

<p style="text-align: center;">Overview of research projects In relation to climate change (CC) impacts, -mitigation and –adaptation in developing countries (DC’s)</p>								
No.	Project title and Danish institution	Project coordinator * and contact person † Details on profiles in annex 1	CC related focal area	Theme of project	Aim of project	Geographic focus	Collaborating partners in DC’s	Funding and duration of project
1	Danish Technical University (DTU) “Optimising reservoir operation”	DTU: Dan Rosbjerg *† (Profile No. 52)	Water resources, Security, Rivers and coastal dynamics	Water resources optimisation and flood protection	Improving the management of the Hoa Binh reservoir	The Red River basin Vietnam	Hanoi Water Resources University http://www.wru.edu.vn/En/Web/Default.aspx	Danida: approx 1 million DKK 2003-2006
2	Danish Technical University (DTU) “Coping with drought”	DTU: Dan Rosbjerg *† (Profile No. 52)	The climate system, mitigation, water resources	Drought prediction and management	Drought assessment, warning and mitigation in the central highlands	South-East Asia Vietnam Central highlands	Hanoi Water Resources University http://www.wru.edu.vn/En/Web/Default.aspx	Danida: approx 1 million DKK 2003-2006
3	Danish Technical University (DTU) “Oasis-hydrosphere-desert interaction in arid regions”	Lars Bengtsson, Lund University * DTU: Dan Rosbjerg † (Profile No. 52)	The climate system, Agriculture, Local livelihoods, Water resources	Water resources management	Development of scenario analyses in arid and semi-arid regions	East Asia China Gansu province	Wang Zongjing, Tsinghua University zj.wang@tsinghua.edu.cn http://www.civil.tsinghua.edu.cn/en_new_04.aspx	EU: Approx. EUR 20,000 (in total EUR 375.000) 2003-2005
4	DHI Benefits of Climate Change Adaptation from Small and Medium Scale Hydropower Plants -Synergies and Trade-Off with Rural Development	DHI: Roar Askjær Jensen *† (Profile No. 28)	Local livelihoods, Adaptation, Water resources	Adaptation, hydropower, rural development	The study is of a plan for around 120 small and medium scale hydropower schemes in Lao Cai province in the Northern Mountains of Vietnam. Responsible for design and supervision of a study based on OECD’s Poverty Impact Assessment methodology. Task include review of social-economic development plan for Lao Cai Province; Cost/benefit evaluation for hydro-power development; assessment of employment opportunities; benefits of infrastructure (e.g. roads, social services); cost/benefits for affected people, their livelihood strategies, resilience to change cultural practices etc.; and cost/benefits for resettlement of the local population and subsequent impacts on their livelihood strategies	Vietnam, Lao Cai Province	N/A	Danish Embassy, Hanoi, Vietnam 1 year, 2007-2008

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

5	DHI "Water Resources Demand Management Project" www.wrmap.cn	Mr. Don More, Director Water and Environment Mott MacDonald Ltd, Cambridge* DHI: Roar Askær Jensen † (Profile No. 28)	The climate system, Agriculture, Mitigation, Adaptation, Water resources, Rivers and coastal dynamics	General Broad integrated water resources management planning project in a water stressed dry north eastern region of China.	General Broad integrated water resources management planning project in a water stressed dry north eastern region of China.	Daling River Basin, Liaoning, China	Mott Mc Donald, Regional Bureau of hydrology and water resources, local Water Administration Bureau ChaoYang	DFID 5 years
6	DHI "Niger River Basin model"	Robert Dessouassi, Autorité du Bassin du Niger* DHI: Hans Christian Ammentorp † (Profile No. 1)	Agriculture, Water resources, Ecosystems and biodiversity	water management planning, water sharing	A water management model has been developed for the entire catchment area of the Niger River, shared by nine countries. The model enables analysis of the present and future use of the water resources of the basin and illustrates the impact of changed water use or climatic conditions. The model may be seen as a decision support tool to identify ways of increasing the efficiency of the water use in general.	West Africa	ABN: Robert Dessouassi Autorité du Bassin du Niger dessouassi@abn.ne	France 700,000 € 1,5 years
7	DHI "Sélingué optimisation"	Sidi Touré, Chef de Division IRH* DHI: Hans Christian Ammentorp † (Profile No. 1)	Adaptation, Water resources	Optimisation of reservoir operations	Increasing the benefits of available water in the Sélingué reservoir by optimising operation rules. The dam is applied for irrigation, town water supply, hydropower, and flood control.	Mali	Direction Nationale de l'Hydrauliques Energi du Mali	Danida, 0.5 mill dkk 6 months
8	DHI "Upper Senegal River flow forecasting"	M. Samaké, OMVS* DHI: Hans Christian Ammentorp † (Profile No. 1)	Water resources	Flow forecasting	Defining a flow forecasting system for the upper Senegal river to enable improved management of the large Manantali dam and to reduce losses of liver and property in connection with floods	The Senegal River basin in Senegal, Mali, Mauritania, Guinea	N/A	OMVS, 50,000 € 1 year
9	DHI "Linkages of poverty and climate change in fishing communities in Vietnam".	PEP/UNDP, MONRE * DHI: Jens Sjørsløv † (Profile No. 54)	Local livelihoods, Adaptation, Rivers and coastal dynamics	Coastal, fisher folk, livelihoods, disaster preparedness, sea level rise	Explore links between poverty and climate change adaptation in 4 fishing communities in Vietnam	Vietnam	N/A	UNDP 2007-2008
10	DIIS – Danish Institute for International Studies "Competing for Water" Collaborative research programme that maps and explores local water conflict and cooperation in Africa, Asia and Latin America	DIIS: Helle Munk Ravnborg *† (Profile No. 49) and DIIS: Mikkel Funder † (Profile No. 18)	Local livelihoods, Adaptation, Water resources, Law and governance	Maps conflicts and cooperation about water quantitatively and qualitatively in five countries in Latin America, Africa and Asia, and analyze their consequences for the poor.	To contribute to sustainable local water governance in support of the rural poor and otherwise disadvantaged groups in developing countries by improving the knowledge among researchers and practitioners of the nature, extent and intensity of local water conflict and cooperation and their social, economic and political impacts, and how this may change with increased competition for water.	Vietnam, Mali, Zambia, Bolivia, Nicaragua	Centro Agua (Bolivia), Ambato Water Agency and Provincial Government of Tungurahua (Ecuador), University of Bamako (Mali), Nitlapán (Nicaragua), Centre for Agro-Ecological Research and Environmental Studies (Vietnam), Center for Integrated Water Resources Management (Zambia)	FFU: approx. 10 million DKK June 2007 - June 2010

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

11	DIIS – Danish Institute for International Studies “Water and Conflict. Conflict prevention and mitigation in water resources management”. http://www.diis.dk/sw58159.asp	DIIS: Helle Munk Ravnborg *† (Profile No. 49)	Water resources, security, law and governance	Water related conflicts, conflict prevention, integrated water-resources management	A Danida-commissioned study aimed to take stock of the current understanding of water-related conflicts and lessons learned with respect to governance, conflict prevention and resolution in integrated water-resources management.	Global, including Africa (e.g. Nile river basin), South America, Asia (e.g. Mekong river basin)	N/A	Danida 2003 - 2004
12	DIIS – Danish Institute for International Studies “Climate change and security”	DIIS: Steen Nordstrøm *† (Profile No. 42)	Security	Climate change and security, resource conflict, energy security, migration	To write report that identifies the possible links between climate change and security problems	Global – with most examples drawn from the African continent	N/A	Part of the Defence and Security program at DIIS, funded by the Danish Ministry of Defence. Until July 2008
13	DIIS – Danish Institute for International Studies “Experience from Research and Interventions within Natural Resource Management in the Sahel”.	DIIS: Simon Bolwig *† (Profile No. 5) UC: Kjeld Rasmussen † (Profile No. 48)	Agriculture, Adaptation, Water resources	Natural Resources Management	Discuss Experience from Research and Interventions within Natural Resource Management in the Sahel	West African Sahel	None	Danida, DKK 700.000 2006 – 08
14	DMI – Danish Meteorological Institute “Water Resources Information Services” (WRIS/MSD) in Ghana.	DMI: John Cappelen *† (Profile No. 10)	The climate system, Water resources	Water resources, Data Management, rehabilitation, meteorological and hydro-meteorological information	The aim of this project was to rehabilitate the hydro-meteorological (and other meteorological) information produced by the Meteorological Services Department (MSD) in Ghana.	Ghana	N/A	DANIDA 1997-2004.
15	DMI – Danish Meteorological Institute “Heating degree day” system in Latvia	DMI: John Cappelen *† (Profile No. 10)	The climate system	Heating degree days, meteorological information, Data Management	The main objective was to develop an operational system for monitoring degree-days in Latvia, including development of theory, a historical climatological description of Latvia with respect to degree-days and the complete technology to monitoring degree-days in an operational way. The plan was also to involve forecast for degree-days. The system has been operational since 2002. The project period was 2000-2005.	Latvia	N/A	Danish Energy Agency

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

16	DMI – Danish Meteorological Institute MEGAPOLI: “Megacities: Emissions, urban, regional and Global Atmospheric Pollution and climate effects, and Integrated tools for assessment and mitigation”	DMI: Alexander Baklanov *† (Profile No. 2)	The climate system, Local livelihoods, Mitigation, Adaptation, Health, Security, Ecosystems and biodiversity	Megacities: Emissions, urban, regional and Global Atmospheric Pollution and climate effects, and Integrated tools for assessment and mitigation.	The main objectives of the project are: 1. to assess impacts of megacities and large air-pollution “hot-spots” on local, regional, and global air quality; 2. to quantify feedbacks between megacity air quality, local and regional climate, and global climate change; 3. to develop improved integrated tools for prediction of air pollution in megacities	MEGAPOLI megacities (outside EU) in focus: Moscow, Istanbul, Mexico City, Beijing, Shanghai, Santiago, Delhi, Mumbai, Bangkok, New York, Cairo, Tokyo, St.Petersburg.	26 teams from 12 EU countries and many collaborators from US, Canada, Russia, China, India, and several developing countries	7FP EC project, ~6 mln. Euro 3 years (2008 – 2011)
17	DMI – Danish Meteorological Institute “AIACC - Building Scientific Capacity”	Prof. Bruce Hewitson, University of Cape Town, South Africa* DMI: Martin Stendel † (Profile No. 55)	The climate system Other: Climate modelling	Assessments of impacts and adaptations to climate change, development of regional climate change scenarios for sub-Saharan Africa	Enhancement of the scientific capacity in developing countries to assess climate change vulnerabilities and adaptations and to generate and communicate information useful for adaptation planning and action	Sub-Saharan Africa: Ghana, Nigeria, Senegal, South Africa, Zambia, Zimbabwe	Bruce Hewitson, Mark Tadross, Ruwani Walawege, Chris Jack, (all South Africa); Ernest Afiesiemama, (Nigeria); Suman Jain, Zambia; Joseph Intsiful, (Ghana); Abdoulaye Sarr, (Senegal); Brad Garangara, (Zimbabwe)	Approx. US\$ 170,000 2002 - 2004
18	DMI – Danish Meteorological Institute “Monitoring Climate Change and its association to the changing environment of Mount Kilimanjaro”	Dr. Clavery Tungaraza, Sokoine University of Agriculture, Tanzania* DMI: Martin Stendel † (Profile No. 55)	The climate system Other: Climate modelling	Prediction of disappearance of the ice field on Mt. Kilimanjaro, assessment of changes in water budget, enhancement of observational database	Collection of field data, large-scale and regional modelling of the Kilimanjaro region to predict the disappearance of the ice field, and to assess the water budget for the Kilimanjaro region	Tanzania, Mt. Kilimanjaro	Dr. Clavery Tungaraza, Sokoine University of Agriculture, Tanzania	Project submitted to DANIDA
19	GEUS – Geological Survey of Greenland and Denmark “Hydrological Modelling for Assessing Climate Change Impacts at different Scales”. www.hyacints.dk	GEUS: Jens Christian Refsgaard *† (Profile No. 51)	The climate system, Water resources, Rivers and coastal dynamics Other: Groundwater	Climate change, water resources, hydrological models, uncertainty, scales	HYACINTS will develop new methodologies and tools that enable easier and more accurate use of regional scale climate and hydrological models to address local scale water resources problems. The tools will be tested on cases relevant for the water supply sector in Denmark and for an international case relevant for export of Danish water resources management expertise.	Main focus. Denmark Secondary focus: A case in a developing country. This is not yet identified, but will most likely be in Asia	Not yet identified	The Danish Strategic Research Council
20	UNEP Risoe Centre Climate screening for Danida assistance in Ghana and Zambia	UNEP Risoe Centre: Kirsten Halsnæs *† (Profile No. 21)	Agriculture, Local livelihoods, Adaptation, Health, Water resources	Vulnerability and risk assessment, Danida sector programme	Assess climate risks and vulnerabilities for various sectors and ensure that CC issues are incorporated into Danida programmes	Africa: Ghana, Zambia	None	Approx. 1 million DKK 1/4 - 31/5 2008

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

21	UNEP Risoe Centre "Climate screening in Vietnam"	UNEP Risoe Centre: Kirsten Halsnæs* † (Profile No. 21)	Agriculture, Local livelihoods, Adaptation, Water resources, Ecosystems and biodiversity		Assess climate risks and vulnerabilities for various sectors and review Danish supported programmes on related studies in Vietnam	Vietnam	None	2007
22	UNEP Risoe Centre "Development and Climate, Phase II" http://developmentfirst.org/	UNEP Risoe Centre: Kirsten Halsnæs* † (Profile No. 21)	Mitigation, Adaptation	Development, energy, electrification, socio-economic assessment, policy advice, food security, fresh water availability	The principal aim of the Development and Climate Project is to identify development paths and actions linked to positive climate outcomes. The Project is aimed at national, developmental, and environmental communities.	Bangladesh, Brazil, China, India, South Africa, Senegal	None	Danida and Korea Environment Institute 3 years
23	UNEP Risoe Centre Estimating and comparing costs and benefits of adaptation projects in Africa (AIACC Project 47)	Jabavu Nkomo, EDRC, University of Cape Town, South Africa* UNEP Risoe Centre: Mac Callaway† (Profile No. 9)	Agriculture, Adaptation, Water resources	Risk management, agriculture, water resources, climate change, adaptation	To develop the capacity to build and implement models to estimate the benefits and costs of coping with climate change risk in agriculture and water resources in the Berg River Basin of South Africa	South Africa: Berg River Basin, Western Cape	University of Cape Town, Optimal Agricultural Business Systems, IRI - Columbia University	AIACC - UEP and GEF: \$250,000 3 years
24	UNEP Risoe Centre "Managing climate risk for agriculture and water resources development in South Africa" (CCAA Project)	Daan Louw, Agricultural economics, University of the Free State, South Africa* UNEP Risoe Centre: Mac Callaway† (Profile No. 9)	Agriculture, Adaptation, Water resources	Risk management, agriculture, water resources, climate change, adaptation	To develop the capacity to build and implement models to estimate the benefits and costs of coping with climate change risk in agriculture and water resources in the Western Cape of South Africa	South Africa: Western Cape	University of the Free State, University of Cape Town, University of Kwazulu-Natal, Optimal Agricultural Business Systems, IRI - Columbia University	CCAA – IDRC, DIFID ZAR: approx \$650,000 3 years
25	UNEP Risoe Centre "Electricity Sector Demand for Natural Gas in India" http://pesd.stanford.edu/publications/india_electricity/	Prof. P. R. Shukla* UNEP Risoe Centre: Subash Dhar† (Profile No. 15)	The climate system	Gas Market, Electricity, Energy Modeling, Externalities	Modeling the Demand for Natural Gas from Electricity sector under three alternative policy scenarios individually and collectively and these are- - Electricity Sector Reforms - Coal Sector Reforms - Environmental Reforms	India	Indian Institute of Management, Ahmadabad	
26	UNEP Risoe Centre "Balancing Energy, Development and Climate Priorities in India" http://developmentfirst.org/Publications/DevelopEnergyClimate_India.pdf	Prof. P. R. Shukla* UNEP Risoe Centre: Subash Dhar† (Profile No. 15)	The climate system, Local livelihoods, Adaptation, Health, Law and governance	Adaptation, Climate Change, Development Pathways, Energy Scenarios, Sustainable Development	Alignment of climate change with development agenda in the developing countries	India	Indian Institute of Management, Ahmadabad, India	UNEP Risoe Centre, Denmark 2005 – 2007

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

27	UNEP Risoe Centre "Asia-Pacific Network (APN) for Global Change under APN's CAPaBLE project" (A WSSD Type III project) http://www.e2models.com/	Prof. P. R. Shukla* UNEP Risoe Centre: Subash Dhar † (Profile No. 15)	The climate system	Modelling, Climate Change, Energy and Environment,	Development of national scenarios with developing country perspective; ii) explicit recognition of developing country dynamics in modelling, iii) initiation of national modelling exercises and development of national databases in three participating countries of India, China and Thailand.	Asia	Energy Research Institute, China Indian Institute of Management, Ahmadabad Asian Institute of Technology, Thailand	APN CAPaBLE programme 2004 - 2007
28	UNEP Risoe Centre "Scenario and Modelling of Low Carbon Society (2050) in India"	Prof. P. R. Shukla* UNEP Risoe Centre: Subash Dhar † (Profile No. 15)	The climate system, Mitigation, Security, Law and governance	Climate Change, Development, Developing Countries, Low Carbon Scenarios, Modelling, Sustainable Development	Develop scenario and modelling of future (year 2050) transition to Low Carbon Society in India	India	Indian Institute of Management, Ahmadabad	National Institute of Environmental Studies, Tsukuba, Japan 2005-2007
29	UNEP Risoe Centre "The CDM's contribution to sustainable development"	UNEP Risoe Centre: Karen Holm Olsen * † (Profile No. 46) And UNEP Risoe Centre: Xianli Zhu † (Profile No. 62)	Mitigation	CDM, sustainable development, assessment methodology	Development of a methodology and procedure to assess CDM project's contribution to sustainable development with the aim of promoting such projects through a higher price for the carbon credits (CERs).	Global	N/A	No dedicated project funding and unspecified time frame
30	UNEP Risoe Centre "UNDP-funded China CDM Capacity building project" http://cdm.ccchina.gov.cn	Mr. Song Yanqin, Energy Research Institute, China* UNEP Risoe Centre: Xianli Zhu † (Profile No. 62)	Mitigation, Security	Capacity building, CDM, China	Capacity building among local enterprises, governments, and other institutions for the implementation of CDM in China	China	Energy Research Institute, www.eri.org.cn , songyq@eri.org.cn Chinese Academy of Social Sciences, www.rcsd.org.cn jiahuapan@163.com	Norwegian government , Italian government , UNF and UNDP, 3 million US dollars 2004-2006
31	UNEP Risoe Centre "CDM Development dividend project, Phase II" www.iisd.org	John Drexhage, IISD* UNEP Risoe Centre: Xianli Zhu † (Profile No. 62)	Mitigation	Promote the sustainable development contribution of CDM projects	Promote the sustainable development contribution of CDM projects	Global	N/A	Danish government and Canada government 2005-2006
32	UNEP Risoe Centre "Programatic CDM in China" http://cdm.ccchina.gov.cn	Prof. Jiahua Pan Chinese Academy of Social Sciences* UNEP Risoe Centre: Xianli Zhu † (Profile No. 62)	Mitigation	Programmatic CDM implementation	Study the feasibility and overall impacts of implementing Programmatic CDM in China, offering policy input to the Chinese government and capacity building for local stakeholders	China	Chinese Academy of Social Sciences, www.rcsd.org.cn , jiahuapan@163.com	Danida, 4 million DKK 2007-2008

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

33	UNEP Risoe Centre "China Biomass CDM capacity building project" http://cdm.ccchina.gov.cn	Mr. Song Yanqin, Energy Research Institute, China* UNEP Risoe Centre: Xianli Zhu † (Profile No. 62)	Mitigation	Biomass CDM in China	Capacity building for biomass CDM implementation in 3 Chinese provinces	China	Energy Research Institute, China www.eri.org.cn , songyq@eri.org.cn Tsinghua University, China, www.tingshua.edu.cn duanmsh@mail.tsinghua.edu.cn	Danida, 9.6 million DKK 2007-2008
34	UNEP Risoe Centre "UNEP-WTO joint research on Climate change and Trade"	Benjamin Simmons, UNEP Geneva* UNEP Risoe Centre: Xianli Zhu † (Profile No. 62)	N/A Other: CC and trade	Climate change and trade	This is a research projects to find out the relations between trade and climate change	Global	N/A	UNEP, 2008
35	UNEP Risoe Centre "CD4CDM"	UNEP Risoe Centre: Miriam Hinostraza *† (Profile No. 23)	Mitigation, Law and governance	CDM - Clean Development Mechanism	Develop capacity for CDM in developing countries and identify barriers for CDM implementation	Global	Many	Dutch government
36	UNEP Risoe Centre "Coping with climate change vulnerability – issues related to development and agricultural linkages in developing countries"	UNEP Risoe Centre: Sara Trærup *† (Profile No. 58)	Agriculture, Local livelihoods, Adaptation	Vulnerability, coping strategies, rural livelihoods	explore linkages between climate variability and rural household welfare	East Africa, Tanzania, Mozambique	N/A	UNEP Risø Centre, 3 years
37	UNEP Risoe Centre "Mapping of Renewable Energy Resources in Mali"	UNEP Risoe Centre: Ivan Nykjær *† University of Copenhagen, Institute of Geography and Geology: Kjeld Rasmussen † (Profile No. 48)	Agriculture, Mitigation	Assessment of renewable energy resources, as a contribution to CC mitigation		Africa: Mali	University of Bamako & Mali Folkecenter	Danish Embassy in Mali
38	UNEP Risoe Centre "UNEP Vulnerability and Adaptation Project"	UNEP Risoe Centre: Anne Olhoff *† (Profile No. 45)	Adaptation, Health	Mainstreaming, methodology, case studies, Tanzania, India, Peru, health, infrastructure, CC, vulnerability, adaptation	The objective of the Adaptation and Climate Vulnerability Project is to elaborate a methodology for mainstreaming climate analysis into sustainable development programmes and to test the methodology in selected countries, including Tanzania, India and Peru	Tanzania, Peru and India	CONAM, Peru CEEST, Tanzania AIM, India	Dutch Ministry of Foreign Affairs through UNEP. Approx. USD 150,000 1 yr, 2007

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

39	<p>UNEP Risoe Centre</p> <p>"CC and Development – Adapting by REDucing vulnerability (CC DARE)" www.ccdare.org</p>	<p>UNEP Risoe Centre: Anne Olhoff*† (Profile No. 45)</p>	<p>The climate system, Agriculture, Local livelihoods, Adaptation, Health, Water resources, Law and governance, Rivers and coastal dynamics, Ecosystems and biodiversity</p>	<p>CC vulnerability, adaptation, capacity building, mainstreaming, case studies, awareness, technical assistance, scientific knowledge base, national planning.</p>	<p>CC DARE will provide demand driven financial and technical support to sub-Saharan African that is targeted, flexible and rapid. The support will be made available to assist countries to remove barriers for the integration of climate change issues into development planning and decision-making frameworks. The programme is designed to complement and strengthen relevant ongoing and planned conventional project and programme-based activities.</p>	<p>Sub-Saharan Africa</p>	<p>National Government Focal Points on CC, UNDP CO's, Ministries, Universities, Private companies, NGOs</p>	<p>Danida and in-kind, total size of funding USD 10 mil.</p> <p>3 years</p>
40	<p>UNEP Risoe Centre</p> <p>" CC and Trade (UNEP WTO)"</p>	<p>UNEP Risoe Centre: Anne Olhoff*† (Profile No. 45)</p>	<p>The climate system, Agriculture, Local livelihoods, Mitigation, Adaptation, Law and governance</p>	<p>CC and international trade regimes / linkages</p>	<p>To co-write a paper on linkages between CC and international trade with WTO</p>	<p>Global</p>	<p>none</p>	<p>Sub-contracted by UNEP DTIE Economics and Trade Branch, USD 20,000</p> <p>1 year</p>
41	<p>RU – Roskilde University</p> <p>"Climate change and policy responses in Africa"</p>	<p>RU: Mogens Buch-Hansen*† (Profile No. 8)</p>	<p>Agriculture, Local livelihoods, Adaptation</p>	<p>Poor agricultural and rural development to be exacerbated by CC, simultaneously with constraints in global food supply. Adaptation strategies influencing social discourse of environmental problems</p>	<p>To identify, document and disseminate adaptation strategies to CC and formulate CC resilient development policies in agriculture and natural resources management</p>	<p>East Africa</p>	<p>Not yet identified</p>	<p>N/A</p> <p>(in the process of starting up)</p>
42	<p>RU – Roskilde University</p> <p>"Is community forestry the answer to the environmental crisis in Madagascar?"</p>	<p>RU: Torkil Casse*† (Profile No. 11)</p>	<p>Ecosystems and biodiversity, Mitigation</p>	<p>Evaluation of local forest management policies in Madagascar using a combination of quantitative and qualitative techniques</p>	<p>To assess whether the transfer of forest management to local communities is a success or a failure</p>	<p>Africa: Madagascar - mostly in the south-west</p>	<p>Centre National de Recherche sur l'Environnement (Madagascar)</p>	<p>FSE, approx. 1 million DKK</p>
43	<p>RU – Roskilde University</p> <p>"Long Term Trends in African Vegetation Productivity"</p>	<p>RU: Thomas Theis Nielsen*† (Profile No. 41)</p>	<p>The climate system, Agriculture, Ecosystems and biodiversity</p>	<p>Remotes sensing, Vegetation productivity</p>	<p>To investigate 25 years of consecutive satellite image coverage of the African continent with special reference to developments in vegetation productivity</p>	<p>Continental Africa</p>	<p>None</p>	<p>Danish Research Counsels</p>

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

44	SDU – University of Southern Denmark “PUMPSEA” http://www.pumpsea.icat.fc.ul.pt/main.php	SDU: Erik Kristensen *† (Profile No. 30)	Local livelihoods, Water resources, Rivers and coastal dynamics, ecosystems and biodiversity	Mangrove, sewage, local communities	To develop low tech sewage treatment in mangrove wetlands and to minimize greenhouse gas emission	Tropical mangrove forests, Tanzania	John Machiwa (jmachiwa@udsm.ac.tz), Karoli Njau (knjau30@yahoo.com), University of Dar es Salaam, Tanzania	EU funded 2005-2008
45	UC – University of Copenhagen “WASAC project on West Africa’s savannah under change”	UC: Sten Struwe *† (Profile No. 56)	Agriculture, Ecosystems and biodiversity	N/A	WASAC is aiming at providing a common platform for understanding the stability of savannah region soils in relation to soil organic matter and emissions, nutrients and plant growth, different management types and the need for increased food production. This knowledge is essential for identifying the net carbon balance in terms of the Kyoto protocol.	West Africa	N/A	EU climate change programme : EUR 300,000 2002 - 2005
46	UC – University of Copenhagen “AMMA - African Monsoon Multidisciplinary Analysis” - Work Package 3.2 on the Human Dimension of Climate Change	UC, Department of Geography and Geology: Ole Mertz *† (Profile No. 39) and Inge Sandholt *† (Profile No. 53)	Agriculture, Local livelihoods, Adaptation, Ecosystems and biodiversity	African monsoon, Traditional coping strategies, Adaptation needs	AMMA objective is to obtain a better understanding of the West African monsoon systems. Work Package 3.2 will contribute to the understanding of past adaptation strategies in Sahel and identify possible adaptation needs	West Africa: Senegal, Mali, Burkina Faso, Niger, Nigeria	Cheikh Mbow, University Cheikh Anta Diop Dakar, Senegal Drissa Diallo, University of Bamako, Mali Dapola Da, University of Ouagadougou, Burkina Faso Bruno Barbier, CIRAD and 2ie, Burkina Faso Ibrahim Bouzou Moussa, Université Abdou Moumouni Niamey, Niger Daniel Dabi, University of Jos, Nigeria	EU FP6: IGG part approx. EUR 300,000 (total budget: EUR 12 million) 2005 - 2009 (5 years)
47	CLIP - Sustainable resource use or imminent collapse? Climate, Livelihoods and Production in the Southwest Pacific	UC, Department of Geography and Geology: Ole Mertz *† (Profile No. 30) UC: Kjeld Rasmussen † (Profile No. 48)	The climate system, Agriculture, Local livelihoods, Adaptation, Water resources	Climate variability and change, Traditional coping strategies, Adaptation needs	Understanding the impacts of climate variability and change as well as adaptive strategies and possibilities of small island communities in the Southwest Pacific	Southwest Pacific: Solomon Islands (Bellona, Ontong Java, Tikopia)	Randy Thaman, University of the South Pacific, Fiji Melchior Matakai, University of the South Pacific, Fiji Douglas Yee, Solomon Islands Meteorological Service Centre	Bikubenfonden, ca. DKK 1,2 mio. Knud Højgaard's Fond, COWIfonden, Brdr. Hartmanns Fond, ca. DKK 370,000 DKK. Forskningsrådet for samfund og Erhverv,

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

								DKK 50,000 Institute of Geogrphy and Geology, Univ. Copenhagen, ca. DKK 250,000 2006 -
48	New approaches to the study of land surface processes based on multi-sensor remote sensing data	UC, Department of Geography and Geology: Inge Sandholt *† (Profile No. 53)	N/A Other: Land cover, Vegetation	Land Cover changes; Land Surface Processes, Soil Moisture	Using multi Source remote sensing for the study of large scale changes	African continent	Boston University, Mark Friedl, friedl@bu.edu	FNU 2007-2008
49	UC – University of Copenhagen Developing an improved early warning system for Africa using a new generation of Earth Observation data	UC, Department of Geography and Geology: Rasmus Fensholt *† (Profile No. 17)	The climate system, Agriculture, Water resources, Ecosystems and biodiversity	Remote Sensing, vegetation and drought monitoring, Early Warning Systems	The overall objective of the proposed project is to develop improved methods, products and data delivery system for drought EWS for Africa based on the new generation EO using the MSG data stream.	Africa	Dr. Cheikh Mbow Institut des Sciences de l'Environnement Laboratoire d'Enseignement et de Recherche en Géomatique (LERG) Ecole Supérieure Polytechnique (ESP) Université Cheikh Anta Diop de Dakar-Sénégal email. cmbow@ucad.sn ; cheikh_penda@yahoo.fr	FTP grant: 2,3 million DKK 2007 - 2010
50	UC – University of Copenhagen KISS - Kenyan Integrated Satellite Savanna Survey "Developing new methodologies for agricultural and rangeland applications in the tropics based on new generation satellite data	UC, Department of Geography and Geology: Rasmus Fensholt *† (Profile No. 17)	The climate system, Agriculture, Ecosystems and biodiversity	Remote Sensing, Vegetation, Meteosat second generation	The overall objectives of the proposed project are to develop and refine EO based methods for national and regional assessments of plant productivity; Primary Production and crop yield of agriculture and rangelands.	Kenya	Dr. CHRISTOPHER ALLAN SHISANYA Kenyatta University, Department of Geography (KU) shisanya@yahoo.com	FTP grant: 1,5 million DKK 2006 - 2009
51	UC – University of Copenhagen "Sustainable Water Use Securing Food Production In Dry Areas Of The Mediterranean Region" (SWUP-MED)	UC, Faculty of Life Sciences: Sven-Erik Jacobsen *† (Profile No. 25)	Agriculture, Water resources	Multiple abiotic stress, selection and adaptation, sustainable agronomy, environmental impact, socio-economy, modelling	The strategic objective of the project is to improve food crop production in the Mediterranean region, influenced by multiple abiotic stresses. These stresses are becoming even more pronounced under changing climate, predicted to result in drier conditions, increasing temperatures, and greater variability, causing desertification. The project will work mainly in farmers' communities to improve farming systems, by strengthening a diversified crop rotation and using marginal-quality water for supplemental irrigation	Mediterranean region	International Center for Agricultural Research in the Dry Areas, Aleppo (Syria), Institut Agronomique et Veterinaire Hassan II, Rabat (Morocco), Centre for Environment and Development for the Arab Region and Europe, Cairo (Egypt)	EU FP7: 2.7 mill euro 1/10/2005-31/9/2009

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

52	UC – University of Copenhagen “Water Resource Strategies and Drought Alleviation in Western Balkan Agriculture” (Waterweb)	UC, Faculty of Life Sciences: Sven-Erik Jacobsen *† (Profile No. 25)	Agriculture, Water resources	Water quantity, water quality, water use, new crops	1) To contribute to development in the Western Balkans by introducing strategic water management for drought alleviation and sustainable agricultural practices in the WB, 2) To establish and reinforce research expertise in the WB in a range of technologies for water and crop management.	Western Balkan	Faculty of Agriculture, University of Belgrade (Serbia), Institute 'Jaroslav Cerni' (Serbia), Faculty of Agriculture, University of St Cyril and Methodius (Macedonia)	EU FP6: 1.2 mill euro
53	UC – University of Copenhagen “Monitoring Matters” Comparative research programme on participatory and community-based natural resource monitoring in Africa, Asia and Latin America	UC, Faculty of Life Sciences: Per Moestrup*† DIIS, Mikkel Funder † (Profile No. 18)	Local livelihoods, Adaptation, Law and governance	Comparative analysis of locally-based monitoring of natural resources vis-a-vis conventional monitoring	Local communities and national agencies have access to the most reliable methods for monitoring resource use trends	Philippines, Ghana, Tanzania, Madagascar, Nicaragua	Forest and Beekeeping Division, Ministry of Natural Resources and Tourism, MNRT (Tanzania) , Iringa Districts Lands, Natural Resources and Environment Office, MNRT, (Tanzania), Sokoine University of Agriculture, Fac. of Forestry and Nature Conservation, Morogoro, (Tanzania), Centre of Malacology and Animal Diversity, University of Central America, Managua, (Nicaragua), Herbario Unan, León, Nicaragua, Centro Humboldt, Managua, (Nicaragua), Danida Env. Sector Progr./MARENA, Ministry of Natural Resources and Environment, (Nicaragua), Ministry of Agriculture, Department of Forests, Nature Conservation Division, (Bhutan), Wildlife Division, Forestry Commission of Ghana, (Ghana), Ministry of Environment and WWF Namibia under the LIFE Programme, (Namibia), Dep. of Env. and Nat. Res. DENR, Protected Area and Wildlife Bureau PAWB, (Philippines)	FFU: approx. 10 million DKK June 2007 - June 2010
54	AU - University of Aarhus “SUN - Tools for management and Sustainable Use of Natural vegetation in West Africa”	AU, Department of Biology: Anne Mette Lykke *† (Profile No. 33)	Ecosystems and biodiversity Other: Natural vegetation	Vegetation change, local knowledge, ethobotany, biodiversity, ecology	SUN works to develop new, practical management tools and concrete management actions for improved sustainable use of natural vegetation by combining scientific vegetation data, remote sensing and socio-economic information with local people's knowledge and needs	West Africa: Senegal, Burkina Faso, Benin, Niger	a) University Cheikh Anta Diop of Dakar, Dakar, Senegal b) University of Ouagadougou, Ouagadougou, Burkina Faso c) University of Bobo Dioulasso, Bobo Dioulasso, Burkina Faso d) University of Abomey-Calavi, Cotonou, Benin e) University Abdou Moumouni, Niamey, Niger	EU INCO-dev fp6 2007 - 2010
55	AU - University of Aarhus ENRECA - Enhancement of Research Capacity in Senegal and Burkina Faso	AU, Department of Biology: Anne Mette Lykke *† (Profile No. 33)	Ecosystems and biodiversity Other: Natural vegetation	Vegetation change, local knowledge, ethobotany, biodiversity, ecology	Enhancement of research capacity within natural resource management in Senegal and Burkina Faso	West Africa: Senegal and Burkina Faso	a) University Cheikh Anta Diop of Dakar, Dakar, Senegal b) University of Ouagadougou, Ouagadougou, Burkina Faso	Danida 1991 - 2004

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

56	<p>AU - University of Aarhus</p> <p>"Modelling Neotropical Palm Diversity"</p>	<p>AU, Department of Biological Sciences: Henrik Balslev*† (Profile No. 3)</p>	<p>Livelihoods, Ecosystems and biodiversity</p>	<p>Modelling Neotropical Palm Diversity – Taxonomi, Phylogenetic, Ecological and Structural Evidence</p>	<p>This project will determine the drivers of Neotropical palm diversity and species distributions and build models to predict future trends in palm diversity in relation to climate changes and human impacts on the vegetation cover. It will generate and use taxonomic, phylogenetic, ecological and structural evidence. We anticipate that diversity models for palms will be representative for many other groups of organisms because palms are both genetically, ecologically, and structurally diverse in the Neotropics. Furthermore changes in diversity and abundance patterns of palms will affect the future availability of important resources for the subsistence of millions of people in tropical forests; understanding the dynamics of palm diversity and abundance is therefore interesting from a scientific point of view, but also has important practical and social implications, including implications for land-use planning and development of conservation strategies</p>	<p>The Andes and Amazon basin and Panamanian isthmus</p>	<p>Monica Moraes R Universidad Mayor de San Andres, La Paz, Bolivia, . monicamoraes@accelerate.com - Rodrigo Bernal rgbernal@unal.edu.co and Gloria Galeano gagaleanog@unal.edu.co, Bogota, - Hugo Navarrete, hnavarrete@puce.edu.ec Quito and Cesar Grandez cgrandez@mixmail.com Iquitos</p>	<p>Danish research council / Forskningsrådet for Natur og Univers: 2,986,800 DKK</p> <p>1.1.2007 – 31.12-2009</p>
57	<p>AU - University of Aarhus</p> <p>"Palm harvest impacts in tropical forests"</p> <p>www.fp7-palms.org</p>	<p>AU, Department of Biological Sciences: Henrik Balslev*† (Profile No. 3)</p>	<p>Livelihoods, Ecosystems and biodiversity</p>	<p>Amazon, Andes, extraction, use, subsistence, trade, commerce, resilience, sustainability, indicators</p>	<p>The use of and trade in natural resources impact the composition and services provided by ecosystems. The project proposed here will evaluate impacts of resource extraction regarding: 1) The biodiversity of ecosystems, 2) The resilience and limits of natural ecosystem functioning, 3) Local people's use of and impact ecosystem goods and services, 4) Goods and services at regional, national or international levels, 5) Sustainable levels and systems of resource use, and 6) Political-administrative measures that may further (or aggravate) sustainable practices</p>	<p>Tropical forests in the western Amazon, the Andes and the Pacific lowlands</p>	<p>1) Monica Moraes R Universidad Mayor de San Andres, La Paz, Bolivia, monicamoraes@accelerate.com, 2) Betty Millán Salazar, Universidad Nacional Mayor De San Marcos, Lima, Peru, bmillans@unmsm.edu.pe 3) Renato Valencia, Pontificia Universidad Católica Del Ecuador, Quito, rvalencia@puce.edu.ec 4) Gloria Galeano, Universidad Nacional De Colombia, Bogota, gagaleanog@unal.edu.co</p>	<p>EU, 3,145,880 Euro</p> <p>60 Months</p>
58	<p>AU - University of Aarhus</p> <p>"Biodiversity and Economically Important Species in the Tropical Andes"</p> <p>www.beisa.dk</p>	<p>AU, Department of Biological Sciences: Henrik Balslev*† (Profile No. 3)</p>	<p>Livelihoods, Ecosystems and biodiversity</p>	<p>Biodiversity, research capacity building, research-based education, natural resource management.</p>	<p>Strengthen research capacity and improve teaching in and dissemination of natural resource management topics, emphasizing an integrated participatory approach, and provide a scientific foundation for managing the Serrania de Inao area in Chuquisaca, Bolivia</p>	<p>Bolivia, Parque Nacional y Area Natural de Manejo Integrado de Inao ,protects 690 km2 of the much</p>	<p>Agronomy Faculty of the University of San Francisco Xavier de Chuquisaca in Sucre (USFX)Bolivia, Zhofre Aguirre,National University of Loja, Ecuador, Hugo Navarrete, hnavarrete@puce.edu.ec and Renato Valencia, Pontificia Universidad Católica Del Ecuador, Quito, rvalencia@puce.edu.ec</p>	<p>Danish Ministry of Foreign Affairs, 4.946.214 DKK</p> <p>3 years</p>

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

						endangered Tucumano-Boliviano forest formation		
59	AU - University of Aarhus "Plant Species Diversity in a Changing World – Using Ecoinformatics to Assess Drivers and predict responses"	AU, Department of Biological Sciences: Jens-Christian Svenning *† (Profile No. 57)	The climate system, Local livelihoods, Adaptation, Ecosystems and biodiversity	Biodiversity, ecoinformatics, global change, plants, predictive modelling	Understanding the determinants of species diversity represents the kind of complex large-scale problems that biology and ecology is increasingly expected to provide quantitative solutions to. This project will use ecoinformatics – a novel quantitative bioinformatics approach to ecology– to achieve a better understanding of the mechanisms that drives geographic species diversity patterns and to use this understanding to provide quantitative predictions of species diversity under future climate and land-use scenarios.	Africa, Europa	N/A	Danish Research Council / Forskningsråd for Natur og Univers 3.493.200,00 DKK 1.5.2008 – 30.4.2011
60	AU - University of Aarhus "Training and Research on physiological constraints in aquaculture in the Mekong Delta, Vietnam"	Mark Bayley, Department of Biological Sciences, AU* AU, Department of Biological Sciences: Thomas Nielsen † (Profile No. 40)	Local livelihoods	Sustainable Aquaculture, Training, Research, Ecophysiology, Oxygen uptake, Osmoregulation, Salinity tolerance	The aim of this proposal is to train Vietnamese students and academics in animal and plant physiology, and to supervise their research into applied aspects that will allow for immediate and significant optimization of farmed fresh water animal growth.	Vietnam (lower Mekong Delta)	Dr Nguyen T. Phuong, College of Aquaculture and Fisheries, Cantho University, nphuong@ctu.edu.vn , www.ctu.edu.vn	Danida (ENRECA) DKK 3,5 mio. 01 01 2007 – 31 12 2009
61	AU - University of Aarhus "Mainstreaming Conservation of Coastal Biodiversity through Formulation of a Code of Conduct for Sustainable Management of Mangrove Ecosystems" http://www.mangrove.au.dk/	AU, Department of Biological Sciences: Donald Macintosh *† (Profile No. 34) AU, Department of Biological Sciences: Thomas Nielsen † (Profile No. 40)	Rivers and coastal dynamics, Ecosystems and biodiversity	Mangrove Ecosystems Management	Principles for a Code of Conduct for the Management and Sustainable Use of Mangrove Ecosystems ('the Principles') is a draft document commissioned by the World Bank. The draft document is intended to serve as a guide to assist States, local and national non-governmental organizations and other stakeholders to cooperatively develop local codes, laws and/or regulations to protect mangroves, and the critical functions they serve, through sustainable management.	Global	Instituto Terramar (Brazil) http://www.terramar.org.br/ Red Manglar (Ecuador) http://www.redmanglar.org/ Thailand Environment Institute (TEI) http://www.tei.or.th/main.htm The Red Cross Vietnam (Vietnam) CARE Vietnam (Vietnam) http://www.careinternational.org.uk/?lid=10957 MS Swaminathan Foundation (India) http://www.mssrf.org/ The Southeast Asian Fisheries Development Corporation (SEAFDEC) (Southeast Asia) http://www.seafdec.org/cms/index.php	World Bank-Netherlands Partnership programme Approx DKK 200 000 2002 - present

Annex 2: Danish research projects in relation to climate change impacts, mitigation and adaptation in developing countries

62	<p>AU - University of Aarhus</p> <p>"Mangroves for the Future"</p> <p>http://mangrovesforthefuture.org/</p>	<p>AU, Department of Biological Sciences: Donald Macintosh*† (Profile No. 34)</p>	<p>Local livelihoods, Mitigation, Adaptation, Rivers and coastal dynamics, Ecosystems and biodiversity</p>	<p>Promote investment in coastal ecosystem conservation for sustainable development</p>	<p>Mangroves for the Future (MFF) is a unique partner-led initiative to promote investment in coastal ecosystem conservation for sustainable development. It provides a collaborative platform among the many different agencies, sectors and countries who are addressing challenges to coastal ecosystem and livelihood issues, to work towards a common goal.</p> <p>MFF builds on a history of coastal management interventions before and after the 2004 tsunami, especially the call to continue the momentum and partnerships generated by the immediate post-tsunami response. It focuses on the countries worst-affected by the tsunami; India, Indonesia, Maldives, Seychelles, Sri Lanka, and Thailand. However, MFF will also include other countries of the Region that face similar issues, with an overall aim to promote an integrated ocean wide approach to coastal zone management.</p> <p>For more info see website</p>	<p>Indian Ocean Region (Thailand, Indonesia, Sri Lanka, India, Maldives and the Seychelles)</p>	<p>Ministry of Environment and Forests, India National Development Planning Agency (BAPPENAS), Indonesia Ministry of Environment, Energy and Water, Maldives Ministry of Environment and Natural Resources, Seychelles Ministry of Environment and Natural Resources, Sri Lanka Department of Marine and Coastal Resources, Thailand IUCN, Asia Regional Director (co-chair) UNDP, Regional Centre Bangkok UNEP, Regional Asia and Pacific FAO, Regional Representative for Asia and the Pacific CARE, Regional Asia and Pacific Wetlands International, Green Coast Programme</p>	<p>NORAD and SIDA (approx DKK 60 million).</p> <p>2006 - 2010</p>
63	<p>AU – University of Aarhus</p> <p>"Safe and High Quality Food Production using Low Quality Waters and improved Irrigation System and Management"</p>	<p>AU, The Faculty of Agricultural Sciences: Mathias N. Andersen*† And UC: Christian R Jensen*† (profile No. 26)</p>	<p>Agriculture, Adaptation, Water resources, Security</p>	<p>Use of low quality water for irrigation including health risk assessment. Development of water saving irrigation strategies</p>	<p>Development of decision support systems for use waste water and for use of water saving irrigation strategies.</p>	<p>China, Italy, France, Serbia, Crete, UK, Denmark,</p>	<p>N/A</p>	<p>55 mill kr. In total; KU-life 8 mill. Kr.</p> <p>End 1/10/09.</p>
64	<p>AU – University of Aarhus</p> <p>Social impacts of climate change in LAC</p>	<p>Dorte Verner, World Bank* AU, The Faculty of Agricultural Sciences: Jørgen Olesen*† (Profile No. 44)</p>	<p>Agriculture, Local livelihoods, Adaptation</p>	<p>Climate change and livelihoods, social impacts</p>	<p>To review and evaluate the social impacts of climate change in Latin American countries with particular focus on livelihoods of the poorest people</p>	<p>Latin America</p>	<p>N/A</p>	<p>World Bank and Danida</p> <p>2008</p>

Annex 3: Contact details on Research Institutions

<p>DHI Agern Allé 5 2970 Hørsholm Denmark Phone: +45 4516 9200 Fax: +45 4516 9292 E-mail: dhi@dhigroup.com Web: www.dhi.dk</p>	<p>Danish Meteorological Institute (DMI) Lyngbyvej 100 2100 Copenhagen Ø Denmark Phone: +45 39 15 75 00 Fax: +45 39 27 10 80 E-mail: dmi@dmi.dk Web: www.dmi.dk</p>
<p>Geological Survey of Denmark and Greenland (GEUS) Øster Voldgade 10, 1350 Cph. K Denmark Phone: +45 38142000 E-mail: geus@geus.dk Web: www.geus.dk</p>	<p>UNEP Risoe Centre Technical University of Denmark Frederiksborgvej 399 P.O. Box 49 DK 4000 Roskilde Denmark Phone: +45 46 32 22 88 Fax: +45 46 32 19 99 E-mail: unep@risoe.dk Web: http://uneprisoe.org/</p>
<p>Aalborg University (AAU) Postbox 159 9100 Ålborg Denmark Phone: +45 99 40 80 80 Fax: +45 98 15 15 22 E-mail: aau@aau.dk Web: www.aau.dk</p>	<p>Roskilde University (RU) Postboks 260 4000 Roskilde Denmark Phone: +45 46 74 20 00 Fax: +45 46 74 30 00 E-mail: ruc@ruc.dk Web: www.ruc.dk</p>
<p>Technical University of Denmark (DTU) Bygning 101A Anker Engelundsvej 1A 2800 Lyngby Denmark Phone: +45 45 25 25 25 Fax: +45 45 88 17 99 E-mail: dtu@dtu.dk Web: www.dtu.dk</p>	<p>University of Aarhus (AU) Nordre Ringgade 1 8000 Århus C Denmark Phone: +45 89 42 11 11 Fax: +45 86 19 70 29 E-mail: au@au.dk Web: www.au.dk</p>
<p>University of Copenhagen (UC) Nørregade 10 Postboks 2177 1017 Copenhagen K Denmark Phone: +45 35 32 26 26 Fax: +45 35 32 26 28 E-mail: ku@ku.dk Web: www.ku.dk</p>	<p>University of Southern Denmark (SDU) Campusvej 55 5230 Odense M Denmark Phone: +45 65 50 10 00 Fax: +45 65 50 10 90 E-mail: sdu@sdu.dk Web: www.sdu.dk</p>

Annex 4: Questionnaire form

1) Researcher profile

Individual focal areas, specialisation and competences in relation to climate change, climate impacts, mitigation and adaptation to climate change in developing countries

Name, Academic title, Function, Telephone, website, e-mail fax	
<p><i>Please specify (X) to which of the following focal areas your competences and research area are of particular relevance:</i></p> <p>1) The climate system (___) 2) CC and agriculture (___) 3) CC and local livelihoods (___)</p> <p>4) CC mitigation (___) 5) CC adaptation (___) 6) CC and health (___)</p> <p>7) CC and water resources (___) 8) CC and security (___) 9) CC, law and governance (___)</p> <p>10) CC, rivers and coastal dynamics (___) 11) CC, ecosystems and biodiversity (___)</p> <p>12) Other (specify):</p>	
Thematic specialisation (Key words)	
Geographic specialisation (region and country)	
Closest collaborating partners in DC's (name, affiliation, email)	
Cooperation with Danida sector programmes	
Summary of functions and competences (e.g. project coordinator, conference planning and/or facilitation...)	

2) Research project (s)

Current or recent research projects (since 2003) that address climate change, climate impacts, mitigation and adaptation to climate change in developing countries. Please fill in different projects in separate forms – see next page.

Project title	
Web link - http://	
Project coordinator and contact person	
<p><i>Please specify (X) to which of the following focal areas your research project area is of particular relevance:</i></p> <p>1) The climate system (___) 2) CC and agriculture (___) 3) CC and local livelihoods (___)</p> <p>4) CC mitigation (___) 5) CC adaptation (___) 6) CC and health (___)</p> <p>7) CC and water resources (___) 8) CC and security (___) 9) CC, law and governance (___)</p> <p>10) CC, rivers and coastal dynamics (___) 11) CC, ecosystems and biodiversity (___)</p> <p>12) Other (specify):</p> <p>.....</p>	
Theme of project (key words)	
Overall aim of project	
Geographic focus - region, country, location (please specify)	
Collaborating partners in DC's (name, affiliation, email, website)	
Funding (source and size) and duration of project	