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**PROGRAMME TITLE: REGIONAL DISASTER RISK AND VULNERABILITY REDUCTION
CAPACITY DEVELOPMENT (PERIPERI U)**

AGREEMENT AID-OFDA-G-11-00215

QUARTERLY REPORT FOR THE SECOND QUARTER OF 2015

1 April to 31 June 2015

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List of Abbreviations and Acronyms

ABU	-	Ahmadu Bello University, Nigeria
ANIE	-	African Network for Internationalization of Education
ARAM	-	Agricultural Risk Assessment and Management in Developing Countries
Ardhi	-	Ardhi University, Tanzania
ASSAf	-	Academy of Science of South Africa
AUC	-	African Union Commission
BDU	-	Bahir Dar University, Ethiopia
CRSCAD	-	Centre for Rebuilding Sustainable Communities after Disasters
DRM	-	Disaster Risk Management
DRMSD	-	Dept. of Disaster Risk Management & Sustainable Development
EAS	-	Ethiopian Academy of Sciences
ECOWAS	-	Economic Commission of West Africa States
EMHES	-	Emergency Management Higher Education Symposium
FAO	-	Food and Agricultural organisation
FEMA/NETC	-	Federal Emergency Management Agency/National Emergency Training Centre
GAAS	-	Ghana Academy of Arts and Sciences
GAMA	-	Greater Accra Metropolitan Area
GBU	-	Gaston Berger Université, Senegal
ICoE REaL	-	International Centre of Excellence for Risk Education and Learning
ICSU	-	International Council for Science
IFAD	-	International Fund for Agricultural Development
IFRC	-	International Federation of Red Cross and Red Crescent Societies
IRDR	-	Integrated Research on Disaster Risk
KAIPTC	-	Kofi Annan International Peacekeeping Training Centre
LEAP	-	Livelihoods, Early Assessment and Protection
Leopoldina	-	German National Academy of Sciences
Makerere	-	Makerere University, Uganda
MC GRN	-	Master Complémentaire Gestion des Risques Naturels
Moi	-	Moi University, Kenya
MOU	-	Memorandum of Understanding
MSc	-	Masters of Science
NADMO	-	National Disaster Management Organization

NEMA	-	Nigeria Emergency Management Agency
NGO	-	Non-Government Organisation
Periperi U	-	Partners Enhancing Resilience for People Exposed to Risk
PhD	-	Doctor of Philosophy
SU	-	Stellenbosch University, South Africa
Tanà	-	University of Antananarivo, Madagascar
UDM	-	Universidade Técnica de Moçambique, Moçambique
UG	-	University of Ghana, Ghana
UGM	-	Gadjah Mada University, Indonesia
UNDP	-	United Nations Development Programme
USF World	-	Department of Government and International Affairs, University of South Florida
USTHB	-	University of Science and Technology – Houari Boumediene, Algeria
VCA	-	Vulnerability and Capacity Assessment
WADPPT	-	West Africa Disaster Preparedness Training
WCDRR	-	World Conference on Disaster Risk Reduction

1. Overview of Quarterly Report

This report describes the progress of the Periperi U Consortium of universities in the second quarter of the 2015 reporting year, covering 1 April to 31 June 2015, as required in terms of USAID Agreement AID-OFDA-G-11-00215.

Section 2 of the report describes the consortium's progress with specific reference to the five key focus areas of the Periperi U programme, specifically;

1. **Institutional development, embedding and expansion (i.e. sustainability)** of active disaster risk-related teaching and training, research and policy advocacy capacity with particular emphasis on urban and hydro-meteorological risks.
2. **Provision of short disaster risk-related courses** for capacity building and knowledge sharing among partners and external stakeholders.
3. **Growth and sustainability of new undergraduate and/or graduate programmes** related to reducing/managing the risk and vulnerability profile of the country concerned.
4. **Generation and communication of applied research outputs by each unit/programme** related to the risks and vulnerabilities of the country concerned that increase local understanding and improve the management of those risks.
5. **Mobilisation of the consortium to advance disaster-risk reduction efforts through strategic engagements** at national/sub-national, continental and international scales by each of the partners with governmental, nongovernmental, international and scientific stake-holders.

Tables appended provide greater detail about activities during this period as follows:

- Table A1** - Short courses implemented
- Table A2** - Under/Post graduate academic programmes
- Table A3** - Applied research outputs ongoing and completed
- Table A4** - Student Theses ongoing and completed
- Table A5** - Partners' external engagements and collaborations

2. Partner Focal area updates

2.1 Focus area 1: Institutional development, embedding and expansion

Most partner universities focused primarily on programme implementation during this quarter, to refocus their activities following the World Conference on Disaster Risk Reduction in March.

At **ABU**, one of the centre's key resource persons (Prof A. B Suraj) was appointed as the Provost of the Nigerian Police College in Kano. This represents a loss for future teaching support for the **ABU** programme. During this quarter, **ABU** also finalised a Memorandum of Understanding with Stellenbosch University, South Africa. This encompasses a wide range of areas including joint research, staff and students exchange, among others.

Encouragingly, **BDU's** Department of Disaster Risk Management and Sustainable Development (DRMSD) was upgraded to 'Institute' status within the university. While the new centre is likely to be named the *Institute of Disaster Risk Science and Food Security Studies*, this is still to be discussed and

approved. The University Curriculum Committee has approved the Institute and the Senate endorsed its establishment. However the institute is not yet functional, with focused attention now on its structural organization and staff relocation to a new operating space. **BDU** anticipates focused activity on 'rearranging and organizing' the new institute, including; the development of a strategic plan, conducting a consultative meeting as well as development/implementation of immediate action points.

At **GBU**, Professor Mateugue Diack was appointed as Dean of the School of Agronomy, Aquaculture and Food Technology. This new appointment affords an opportunity to contribute to promoting Periperi U programmes within the university community as well as throughout other institutions and communities in Senegal.

Moi's School of Public Health has established a new department, *the Department of Disaster Risk Reduction and Management*, which aims to implement a DRR-focused curriculum.

SU reported several promising developments to facilitate the gradual embedding of Disaster Risk Studies/Science within main-stream university activities and processes. These include establishing a system to enable proportional subsidy to be returned to RADAR for student enrolment and post-graduate supervision, as well as publications. Mrs Patricia Zweig has also been appointed to represent the Geography and Environmental Studies department (in which **SU** is based) at faculty level on the Community Interaction panel.

With Professor Benouar's (**USTHB**) selection as a founding member of the Algerian Academy of Sciences and Technologies (AAST), there is greater momentum for promoting DRR issues and innovation at the highest level of the Algerian government. After accompanying the USTHB delegation to the WCDRR 2015 in Japan, the USTHB Vice-Rector, Prof. Fawzia Mekideche-Chafa has shown enormous interest in Periperi U, becoming increasingly involved in Periperi U related activities and initiatives at the university.

2.2 Focus Area 2: Provision of short disaster risk-related courses

During this period, five partners conducted a total of seven short courses, across a range of topics, reaching 283 participants. See Table A1 for more details.

Ardhi conducted three tailor-made short courses. These comprised:

- 'Locating and Mapping of Critical Infrastructure and Incidents' for Officers of Police Crisis Response Teams of Tanzania Police Force. (17 attendees).
- 'Introduction to and the Role of Kibaha Town Council in DRR' for Heads of Department and Technical Staff of the local Council (24 attendees);
- 'Introduction to and the Role of Mkuranga District Council in DRR' for Heads of Department and Technical Staff of the local Council (31 attending).

The council-focused courses were specifically tailored to strengthen capacities within local government councils, in response to the new Disaster Management Act, 2014 of Tanzania. This new law has shifted the responsibilities of the District Disaster Management Committees from the District Commissioners, to the Office of the Council Directors.

BDU conducted a short course on 'Livelihoods, Early Assessment and Protection (LEAP) - Food Security Early Warning Tool' (18 attendees). Participants were drawn from the Department of Disaster Risk Management, as well as the College of Agriculture and Environmental sciences.

GBU conducted a short course on 'Food and Health Risks related to Flooding in the Region of Saint-Louis, Senegal', with 22 participants (each representing a district in Senegal). A further 5 participants were drawn from the National Food Security Programme, NGO and Women Association while several students attended from GBU's Food Security Risk Masters Degree Programme.

SU held the first session of its biannual short course The Community Risk Assessment: Focus on informal settlements (11 participants). These included staff from **BDU** and **Ardhi** (fulfilling Ardhi's target of sending a total of eight staff to attend courses organised by **SU** during the project course). It is also considering creating a third short course focused on Geo-Information Systems skills related to disaster risk reduction and management.

RADAR has successfully accredited this short course through **SU**'s system, allocating a student number and a University Certificate of Competence to all successful attendees. This ensures the course is advertised on the university's short course system portals which allows for online registration. The short course coordinator noted that the course is increasingly supported by local disaster managers who assist in initiating community engagement and attend the field component of the course as co-facilitators.

UDM reported conducting a short course on 'Risk Management for the Energy sector' in collaboration with Livaningo, a local NGO, with a total of 160 people attendees taking part.

Moi anticipates more community research from July until November, as well as offering at least three short courses by September, 2015.

2.3 Focus Area 3: Growth and sustainability of new undergraduate and/or graduate programmes

ABU, Ardhi, BDU, Makerere, GBU and **SU** reported no new or significant developments to their academic programmes, stating that these were being implemented smoothly and according to schedule. In total, 406 students were enrolled across Periperi U partner programmes (See Table A2).

Moi reported progress in the approval process for launching its MSc in Disaster Risk Reduction and Management, along with the MSc in Food Safety and Hygiene curriculum. With the establishment of the new Department of Disaster Risk Reduction and Management within the School of Public Health, the **Moi** team is optimistic that the programmes will be launched in the near future. **Moi** has also been able to incorporate one of its short courses 'Nutrition in Emergencies' into the Masters of Public Health and Nutrition curriculum.

Similarly, **USTHB** continues to work towards developing a master's programme on Earthquake Engineering and Disaster Risk Management. However it reported that this programme's approval and launch could be delayed due to several reforms currently underway within the university.

UG also reported holding discussions to implement major revisions to existing courses as well as avenues for additions to their current programmes.

In the next quarter, **GBU** is intends to send their Master Degree students on an internship programme to various institutions and companies dealing with DRR activities. It is planned that they will spend 2-3 months to become familiar with DRR management programmes and have 'hands-on' DRR strategies development in those structures.

Tanà carried out significant academic activities this quarter.

- The DMGRC Master's programme entered its second phase with its 31 students implementing disaster risk-related thesis research.
- The Master's module 'Risk governance and sustainable development' was taught to students in three different Masters' programmes (MPhil in Development Economics, MPhil in Environment and Natural Resources Economics and MPhil in Money, Banking and Finance) within the Department of Economics.
- In addition, the module '*Introduction to economic valuation tool*' was developed for students in their junior year of the Department of Economics for the three specialisation options; Macroeconomics and modelling, Public affairs and General Economics.

UDM also reported significant developments, announcing that the university's e-learning platform is almost ready for graduate and undergraduate DRM academic programmes. All hardware for the system has been installed with only the uploading of the programme contents still pending. This platform emerged from discussions between **UDM** and FAO (see Focus Area 5). In June, **UDM** also concluded their last module of their Masters in Education and Development, and is now identifying supervisors to assist students with their theses.

2.4 Focus Area 4: Generation and communication of applied research outputs by each unit/programme

This quarter saw a rising number of locally relevant disaster risk research studies being undertaken by either the Periperi U partners or their postgraduate students. 36 of these are being undertaken as 'applied disaster risk research' by Periperi U staff and researchers, while a further 56 studies reflect postgraduate student thesis research. For further details, please see Tables A3 and A4.

2.4.1 Applied disaster risk research

During this quarter, **ABU** began the validation and analysis of data collected for the Vulnerability and Capacity Assessment (VCA) of Sabon Gari Local Government Area of Kaduna State, Nigeria. It is expected this report will be published in the next quarter. ABU published the proceedings of the International conference on Disaster Risks Reduction held in December, 2012 after many factors contributed its delay.

Ardhi approved nine applied minor research projects during this reporting period. The projects are now operational and they are being implemented by three academic members of staff and six DRM Master's Degree students. In addition, Ardhi has been tasked to spearhead the publication of the two completed postgraduate research outputs which have been funded by the project but they are yet to be published.

BDU reported that several different research projects had been started by members of the Department/institute staff and other cross department colleagues.

4 of the 8 Schools that comprise **GBU** (Agriculture, Social Sciences, Law and Political Science, Applied Sciences and Technology) have begun conducting nine disaster risk-related research projects related to food security in Senegal and the Senegal River Valley.

Makerere reported that three papers were published (involving the DRR-related staff with a graduate student defending her master's research thesis. A further three disaster risk-related

research projects, two student theses and one faculty-based project, have been ongoing during this period.

Moi conducted and completed two disease related risk assessments with local communities as well as research on 'jigger intervention' in west Kenyan communities. **Moi** also reported a number of manuscripts which were in press at the end of the quarter.

SU reported the consolidation of the analysis and findings for its research on post-event assessment of four severe-weather events in the Western Cape. The research team had commenced work towards the synthesis report targeted at high-level decision-makers. Dr Holloway co-authored an article for the journal series Nature, entitled 'Global risks: Pool knowledge to stem losses from disasters'.

In May 2015 ActionAid formally commissioned **SU** to undertake a multi-country study on 'Strengthening urban resilience in African cities'. This study aims to support ActionAid's 2012-2017 strategy that identifies building the urban poor's resilience to conflict and disaster as well as responding to disasters through rights as a new programming/planning priority. The Researcher commenced research in Zimbabwe in June (with study sites in Senegal and the Gambia to be visited in July/August).

At **USTHB**, several staff members have been conducting research on floods in the city of Ghardaia (Southern Algeria), and are preparing a report which should be published by the end of this year.

2.4.2 Post-graduate student disaster risk research

At **Tanà**, 31 Masters students' thesis research projects are underway and will be publicly defended in September 2015, with another two PhD dissertations expected to be completed by the end of the year. One PhD thesis was completed and is awaiting the Department of Economics administration to give a date for the public presentation and defence.

Several **UG** MPhil students conducted research on 'delineating peri-urban Accra and its implications for urban risk governance' as part of a fieldwork component of their postgraduate programme. The final report is to be delivered to the relevant stakeholders later in the year. The same students, currently undertaking their thesis research, will present their proposals at a seminar in mid-August 2015. **UG** staff has conducted several disaster risk-related research projects, including one on 'disaster risks and vulnerability assessment of peri-urban areas of the Adenta Municipality'.

Two **USTHB** PhD students completed their DRR research in June and will defend their theses in September.

2.5 Focus Area 5: Mobilisation of the consortium to advance disaster-risk reduction efforts through strategic engagements

The consortium's strategic reach across national, continental and international scales was underlined this quarter. These range from finalisation of cooperative agreements with government partners for DRM-capacity building to collaborations with international agencies, other universities and academic associations. Please see Table 5 for more information concerning these engagements.

2.5.1 Strategic engagement at local/national levels

ABU concluded a consultancy for *UNDP and the Nigeria Emergency Management Agency (NEMA)* on the Development of a Public Awareness Plan for Disaster Risk Reduction in Nigeria, and submitted a final report.

GBU signed an MOU with the *Executive Secretariat for the National Food Security Programme* (under the Prime Minister of Senegal). The partnership will enable GBU on behalf of Periperi U to develop a capacity building programme through training, research and extension activities. Another MOU, focused on Agricultural Risk Management in Senegal, is currently being developed between **GBU** and the Senegal Ministry of Agriculture.

SU staff and students attended a session by the *South African Parliamentary Portfolio Committee on Cooperative Governance and Traditional Affairs* in connection with proposed amendments to the Disaster Management Act.

2.5.2 Strategic engagement at regional/continental scales

From 22-25 June, Prof. Iguisi (**ABU**) attended a workshop organized by the *Economic Commission of West Africa States (ECOWAS)* in collaboration with Ghana's National Disaster Management Organization (NADMO) and the Kofi Annan International Peacekeeping Training Centre (KAIPTC) held. The workshop attendance was for the Curriculum Review and Finalization Meeting for West Africa Disaster Preparedness Training (WADPPT), in which there have been efforts to better streamline the various educational packages into standardized teachable module across West and Central Africa.

BDU represented Periperi U at a consultative meeting in Addis Ababa Ethiopia on Law and Disasters from 30 June – 1 July. The meeting was organized by the *International Federation of Red Cross and Red Crescent Societies (IFRC)* in partnership with the African Union Commission (AUC), as part of a regional consultation process in preparation for the 32nd International Conference of the Red Cross and Red Crescent (International Conference) in Geneva, in December 2015. Through **BDU's** initiative, Periperi U co-sponsored the 2nd Annual National Conference on Agriculture and Environmental Management for Sustainable Development, conducted on 19-20 June, at Bahir Dar, Ethiopia. Approximately 209 (154 male and 55 female) academic staff, including those from DRMSD, attended the conference.

UG's Prof. Songsore, as a Fellow of the Ghana Academy of Arts and Sciences (GAAS), presented a paper entitled "from indoor water contamination to city level water pollution: the accumulation of water related risks in the Greater Accra Metropolitan Area (GAMA), Ghana" at a Symposium on Environment and Health in Pretoria, South Africa from 1-3 June. This was organised by the *Academy of Science of South Africa (ASSAf)* in collaboration with the *Ethiopian Academy of Sciences (EAS)*, *Ghana Academy of Arts and Sciences (GAAS)*, and the *German National Academy of Sciences (Leopoldina)*.

2.5.3 Strategic engagement at global scale: – collaborations with other universities

From 22-27 May, an **Ardhi** staff member carried out an exchange visit to *Gadjah Mada University (UGM)*, *Indonesia* to participate in the PhD defence of an Ardhi academic staff member whom he had co-supervised with a colleague from UGM. During his stay, the Ardhi staff member also delivered a public presentation entitled 'Adapting to Climate Change in Coastal Cities of East Africa: A Case of Dar Es Salaam City, Tanzania'.

ABU is in the process of establishing a collaborative agreement with the *University of Aberdeen, UK*. The agreement seeks to create opportunities for Ph.D openings for Masters graduates in Disaster Management and M.Sc. Environmental Management as well as collaboration in short courses. Bilateral discussions between the universities took place in Abuja on 30th June. Similarly, **ABU** has opened up discussions with the director of the Centre for Rebuilding Sustainable Communities after Disasters (CRSCAD) based at the *University of Massachusetts, Boston, USA*.

UG reported that Dr Osman is also continuing his research collaboration with colleagues at the Institute of Environment and Sanitation Studies, and faculty of the Department of Government and International Affairs (USF World), *University of South Florida* on community resilience building and disaster recovery in urban Sabon Zongo, and the Yeji and Buipe communities within the Volta basin in Ghana.

Tanà is currently establishing a partnership with the programme ‘Master Complémentaire Gestion des Risques Naturels (MC GRN) of the *University of Liège, Belgium*. A draft MoU has been sent to the University of Liège for comments/improvements. Exchange visits between the two programmes are expected in the forthcoming months. These aim to finalize and sign the MoU and identify the first activities to be performed within the MOU’s frame work.

2.5.4 Strategic engagement at global scale – collaborations with international organisations

Periperi U representatives from **BDU, GBU** and **UDM** attended a consultative workshop organised by *FAO* for the development of an e-learning curriculum on “Agricultural Risk Assessment and Management (ARAM) in Developing Countries” on 17-18 June 2015, at IFAD Headquarters, Rome, Italy. Following this, **UDM** has begun collaborating with *FAO* on a project focussed on advancing **UDM**’s curricular development. This includes assistance in establishing an e-learning system and the translation of various risk management and risk education materials into Portuguese.

Dr Benouar of **USTHB** attended the 17th Emergency Management Higher Education Symposium (17th EMHES) at the *National Emergency Training Centre (FEMA/NETC)* at Emmitsburg in Maryland (USA). The annual Emergency Management Higher Education Program Symposiums bring together academics representing colleges and universities with emergency management programs. It particularly aims to discuss the needs of potential course users and emergency management degree program developers, as well as general items of interest pertaining to hazards, disaster and emergency management higher education. During this symposium Professor Benouar made a presentation, on behalf of the Periperi U Consortium, entitled: “Exploring the African Higher Education Institutions in Advancing Disaster Risk Reduction: A Model for Post-2015 Capacity Building”.

Dr Pharoah represented **SU** (as the secretariat of the IRDR International Centre of Excellence for Risk Education and Learning – ICoE REaL) at the 13th Meeting of the *Integrated Research on Disaster Risk (IRDR) Science Committee Meeting in Qingdao, China* between 31 May and 5 June.

Dr Holloway (**SU**) also represented Periperi U at negotiations on the means of implementation for the post-2015 Sustainable Development agenda at the *United Nations in New York* 23-24 April. She represented the Science and Technology Major Group through the International Council for Science (ICSU), due to Periperi U’s status as an IRDR ICoE in Risk Education and Learning. On 23 April, she delivered a formal statement to the Interactive dialogue with Major Groups and other stakeholders. Dr Holloway also attended a consultation on ‘Science and the Sendai Framework hosted by the *Royal Society in London* between 24-25 June. She gave a presentation on ‘Science and the Sendai Framework - Role of Higher Education in Advancing Disaster Risk Reduction: Illustrative experience of Periperi U.

3. Other areas of progress/updates

3.1 Strategic engagements planned

Dr Djilalli from **USTHB** has been invited by the UNDP Arab Bureau for a consultative workshop on Arab Cities Resilience Report to be held on 12-13 August 2015 in Amman (Jordan).

The Periperi U secretariat began discussions with the African Network for Internationalization of Education (ANIE) to hold a dedicated disaster risk themed session at the 6th Annual ANIE Conference to be held in Dar es Salaam Tanzania between 7 – 9th October, in advance of the planned Periperi U Consultative Meeting, now scheduled for 11-12 October in Dar es Salaam. This will be undertaken in partnership with **Ardhi** University.

Ardhi and **SU** are currently investigating the implications of a Periperi U affiliate partnership programme, which extends connections and opens a wider network of engagement and collaboration. The next quarter will focus on scoping and drafting of a framework for such an affiliate programme for discussion at the consultative meeting in October.

SU will host the IRDR Science Committee meeting in Stellenbosch in November 2015. In June, Dr Rudiger Klein, the Director of IRDR, visited **SU** to begin preparatory discussions related to this event.

3.2 Secretariat support

SU has continued with the construction of an online library system for the partnership. The online library hardware has been nearly completed and the categorisation of content began this quarter. The library team plans to commence uploading of content in the next quarter. However due to the small team and the massive volume of materials to upload, this project remains a daunting undertaking.

In addition to its core programme support functions, the secretariat facilitated several crucial engagements in the past quarter. These included motivating for **GBU**, **BDU** and **UDM** staff to attend the FAO consultative workshop on “Agricultural Risk Assessment and Management (ARAM) in Developing Countries” on 17-18 June 2015 in Rome, Italy, as well as a **Tanà** representative to attend a global consultation in Geneva on the Monitoring Indicators for the Sendai Framework. This advocacy extended to ensuring Periperi U visibility (through **GBU**) at the 7th Africa Working Group Meeting on Disaster Risk Reduction planned for Yaoundé Cameroon in July 2015. Secretariat Administrative

The draft **Periperi U evaluation report** was circulated across the partnership, with expectations that this will be finalised in August.

4. Challenges experienced

Moi, **Tanà** and **UG** reported that funding delays from USAID constituted a major obstacle to implementing their planned activities – and resulted in missed opportunities such as cancelling several short courses and strategic engagements. **Tanà** has faced particularly difficult challenges, with funds only received as recently as March 2015.

ABU expressed similar concerns, underlining that funding would enable it to meet more of the partnership focus areas such as developing short courses, conducting research etc.

Moi also noted the slow pace of internal curriculum approval which has continuously delayed the start of their new academic programmes. Their work is further constrained due to the team's dispersion across separate offices. SU also faces this challenge, with staff members spread across three separate buildings.

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5. Appendices

Table A1: Short courses implemented

Institution	Name of Short Course	Dates held	No. of participants	
			Men	Women
Ardhi	Locating and Mapping of Critical Infrastructure and Incidents	16 May	2	15
	Introduction to and the Role of Kibaha Town Council in DRR	27 May	11	13
	Introduction to and the Role of Mkuranga District Council in DRR'	4 June	18	13
BDU	Livelihoods, Early Assessment and Protection (LEAP) - Food Security Early Warning Tool	20-26 April	15	3
GBU	'Food and Health Risks as related to Flooding in the Region of Saint-Louis, Senegal'	21-24 April	17	5
SU	'Community Risk Assessment: Focus on informal settlements'	29 June – 3 July	7	4
UDM	Risk Management for the Energy sector	June 11 - 12	59	101
Total			129	154

Table A2: Under/post graduate academic programmes

Institution	Title under/post graduate programme	Month commencing (registered)	No. students	Status
ABU	Masters in Disaster Management	October 2015	83	Enrolled
	Postgraduate Diploma in Disaster Management	October 2015	26	Enrolled
Ardhi	Master of Science in Disaster Risk Management (MSc. DRM)	October 2014	9	Enrolled
	Master of Disaster Risk Management (MDRM)	October 2014	11	Enrolled
	Master of Science in Disaster Risk Management			

	(MSc. DRM)			
BDU	Undergraduate Programme: Disaster Risk Management & Sustainable Development	October 2012 October 2013 October 2014	3rd year 76 2nd year 42 1st year 28	2nd sem. course – awaiting graduation 2nd sem. course 2nd sem. course
	Postgraduate Programme: MSc in Disaster Risk Management & Sustainable Development	October 2012 regular October 2013 regular October 2014 regular October 2013 summer October 2014 summer October 2013 distance	17 14 17 14 17 26	Thesis work Proposal writing Course work Thesis work Course work Proposal writing
GBU	Master of Disaster Risk Prevention and Management for Food Security	January 2015	34	enrolled
Makerere	Masters in Public Health and Disaster Management	January 2015	11	enrolled
Moi	Food safety and hygiene (teaching component)	October 2014	Not specified	enrolled
	Nutrition in Emergencies as part of MPH in Nutrition tract	June 2014	30	Ongoing
Stellenbosch	Disaster Risk Studies (DRS) Module	April 2015	8	Completed
	MSc in Geography and Environmental Studies (DRS specialisation)	March 2015	1	Completed - Awaiting graduation
Taná	DMGRC Masters program	October 2014	31	Ongoing
	Risk governance and sustainable development (module in three Master's programme in Department of Economics)	April 2015	Not specified	Conducted during April - June
	Introduction to economic valuation tool (module for junior year of the department of economics)	April 2015	Not specified	Conducted during April - June
UDM	BSc in Environmental Engineering and Disaster Management (Disaster risk evaluation)	October 2014	36	Enrolled
	Msc in Technical Education, Development and Disaster	October 2014	24	Enrolled

	Management			
UG	Theories and Analytical Methods for Disaster Risk Reduction	February 2015	10	Enrolled
	Concepts and Methods in Advanced Integrated Disaster Risk Reduction	February 2015	9	Enrolled
USTHB	Ph.D in Disaster Risk Reduction	Sept.2013/2014	14	Enrolled
Total:				406

Table A3: Applied research outputs ongoing and completed

Institution	Research title	Output	Research phase
ABU	Vulnerability and Capacity Assessment of Sabon Gar Local Government Area, Kaduna State, Nigeria	Professional Research Academic	On-going
	proceedings of the International conference on Disaster Risks Reduction	Conference Report	completed
Ardhi	Application of pesticides in vegetable farming in Dar Es Salaam	Faculty Research project	On-going
	Implementation of the National Land Policy and subsequent Legislation with regard to hazardous land	Faculty Research project	On-going
	Situational Analysis of Fire Hazard preparedness in Learning Institutions	Faculty Research project	On-going
BDU	Climate Induced Vulnerability to Food Insecurity in Pastoral Areas of Ethiopia: The Case of Afar Regional State;	Academic Research	On-going
	Impact of Food Security Program on Households Economic Livelihood Capital: the Case of Amhara Regional State	Academic Research	On-going
	Assessment of Opportunities and Challenges of Pig Production in Amhara Region: A case study from urban and peri-urban peasant association of Bahir Dar City	Academic Research	On-going
	Community Based Solid Waste Management at at Zenzelima Kebele	Academic Research	Unable to be finalised due to

	Administration		internal problems	administrative
GBU	Relationships between food safety and food quality for better response to crisis in the regions of Saint-Louis, Louga and Matam of Senegal	Professional academic research	On-going	
	Endogenous knowledge and development of fish farming in the Senegal River Valley: Issues of integrating fish farming and cropping under irrigated conditions	Professional academic research	On-going	
	Rational management of pest of solanaceous vegetable crops and improvement of the quality of the produce in the delta and the middle Senegal River valley	Professional academic research	On-going	
	Skills and strategies of the stakeholders in the Senegal River Valley for managing natural hazards and vulnerability for food security	Professional academic research	On-going	
	Managing risk for pests to ensure the availability of banana seeds in the delta and the Senegal River Valley	Professional academic research	On-going	
	Vulnerability of the paddy soils and increase in the salinization process in the Senegal River Delta: the comparative benefits of using phosphogypsum, organic fertilizer and biochar for soil restoration	Professional academic research	On-going	
	Dynamics of the farm lands in the Niayes region and risk of food insecurity	Professional academic research	On-going	
	Predicting rainfall events as tools for decision support for agriculture in Senegal	Professional academic research	On-going	
	Information system for securing land, in a food safety perspective applied to the community of Mbane in Senegal	Professional academic research	On-going	
Makerere	Rapid assessment of the implementation of Minimum Initial Service Package for sexual and reproductive health of refugees and host population in West Nile refugee affected districts. Faculty Research.	Faculty research Project	On-going	
	The enigmatic nodding syndrome in northern Uganda: Burden and national response strategies	Journal article: <i>Health Planning and Policy</i> , June 2015.	published	
	Use of mobile phone consultations during home visits by Community Health Workers for maternal and newborn care: community experiences	Journal article: <i>BMC Public Health</i> June 2015.	published	

	from Masindi and Kiryandongo districts, Uganda		
	Cholera outbreak in Butabika mental hospital, Kampala.	Journal: <i>American Journal of Public Health</i>	Accepted – awaiting publication
Moi	Community Risk Assessment	Community Risk Assessment	Completed
	Community Based Research (COBES)	Community Research reports	completed
	Jigger Intervention	Community Risk Assessment	Completed Phase 1 main research still ongoing
	Is there a Threshold Level of Maternal Education Sufficient to Reduce Child Undernutrition? Evidence from Malawi, Tanzania and Zimbabwe.	Journal article: BMC Paediatrics	In press
	Nutrient Intake and Risk factors of Obesity and hypertension among Moi University undergraduate students at the College of Health sciences	Journal article: BMC Paediatrics	In press
SU	post-event assessment of four severe-weather events in the Western Cape	Professional faculty research	- Consolidation of analysis and findings - Generation of synthesis report
	Strengthening urban resilience in African cities	Research project sponsored by ActionAid	On-going
Tanà	DRR, resilience and development in the Southeast part of Madagascar	Professional academic research	On-going
	Describing and measuring community resilience to inundation	Professional academic research	On-going
	Profile and characteristics of hydro-meteorological resilient community	Professional academic research	Ongoing - Planned to be completed in September 2015
UDM	Methodology for Environmental Health in Greater Maputo	Masters thesis	Completed – awaiting translation
UG	disaster risks and vulnerability assessment of peri-urban areas of the Adenta Municipality	Faculty Research	On-going
USTHB	Untitled research project focused on flooding in the city of Ghardaia	Faculty Research	On-going
Total:			36

Table A4: Student Theses ongoing and completed

Institution	Research title	Output - thesis	Research phase
ABU	Flood Risk and Vulnerability Assessment of Settlements downstream of Kubanni River Dam.	PhD thesis	On-going
Ardhi	Comparative analysis of non-infrastructural impacts of 2011 and 2014 floods in Dae Es Salaam	Masters thesis	On-going
	Effectiveness of accidents preparedness and response at Emergency Department, MOI Dar es Salaam	Masters thesis	On-going
	Analysis of occupational health and safety hazards experienced by health care workers in Hospital	Masters thesis	On-going
	Assessment of flood disaster time integrity of sanitation system in Dar Es Salaam city	Masters thesis	On-going
	Analysis of public and occupational safety and health (POSH) management in Operating Theatres in Tanzania: The case of Muhimbili National Hospital	Masters thesis	On-going
	Temporal and spatial trends of incidences and prevalence of communicable diseases during flood disaster in Kilosa.	Masters thesis	On-going
BDU	Determinants Of Adaptation To Climate Variability in Crop Production Area, The Case of Kalu District, South Wollo, Amhara Region;	Masters thesis	Research finalized
	Impact of Microfinance Service on the Livelihood of Rural, People in Ethiopia (Focused on women headed households);	Masters thesis	Research finalized
	The Impacts Of Productive Safety Net Program On Food Security At Household Level, The Case Of ZwayDugdaWoreda, East Shewa Zone, Oromiya Region;	Masters thesis	Research finalized
	The Influence of Ethnic-Based Federalism on Clan Conflict in BabilWoreda of Somali Regional State: trends, dynamics and perceptions;	Masters thesis	Research finalized
	Conflicts and Indigenous Conflict Resolution Mechanisms among Pastoralists in ArraroWoreda of Somali Regional State;	Masters thesis	Research finalized

	Gender, Household Food Security, and Coping Strategy: the case of Jijigaworeda;	Masters thesis	Research finalized
	Impact of Flood on Livelihoods in the Community of Marato of Kbridahar District of somali Regional state;	Masters thesis	Research finalized
	Assessment of Voluntary Sedntarazation Situation and its Smpervative to the Pastoral Livelihoods at AdadlayWoreda of Shabele Administrative;	Masters thesis	Research finalized
	The Determinants of Household Food Security from Food availability: the case of AwbareWoreda of Fafan Zone, Somali Regional State;	Masters thesis	Research finalized
	Livelihood and Survival Strategies among Migrant Children Shoe ShininginJijiga, somali regional State;	Masters thesis	Research finalized
	Determinants of Food Insecurity Shocks in agropastoralst households: the case of JijigaWoreda;	Masters thesis	Research finalized
	Determinants of Livelihood Diversification in Pastoral Households;	Masters thesis	Research finalized
	The Socieconomic Impacts of Drought : the Case of HarshinWoredaPastoralsts in somali ;	Masters thesis	Research finalized
	The impact of Drought hazard on Food Security Situation of rural Households: the Case of Gondar ZuriaWoreda;	Masters thesis	Research underway
	Determinant of poverty in Agropastoral Households in Somali regional State: he Case of JijigaWoreda; Clan Conflicts, their Causes, and Resolutions:the Case of HarshinWoreda of somali Region	Masters thesis	Research underway
Makerere	Assessment of nutritional status of children below 24 months in post conflict district Kitgum, northern Uganda	Masters thesis	Completed – Defended Masters
	A study to gender based violence in settings of natural disaster settings, Bududa and Kiryadongo districts. Veronika PhD candidate.	PhD thesis	On-going
Moi	Assessment of heavy metals in pigs reared under two farming systems in Uasin -Gishu county-Kenya	Masters thesis	Ready for defence
	Nutritional and Physical evaluation of wheat bread and wheat bread supplemented with oyster mushrooms	Masters thesis	Ready for defence

	Effectiveness of community mitigation strategies on the impacts of drought on their health and livelihoods: a case of sakow district, Somalia	Masters thesis	Finalising the thesis
	Prevalence and Determinants of under nutrition among children aged between 6-59 months in pre-selected health centers in Garissa town	Masters thesis	Defended and awaiting graduation
	A comparative study of the food consumption patterns of farmers in farmer field & life schools in Gatanga constituency, Murang'a county, Kenya	Masters thesis	Submitted thesis for marking
SU		Master's thesis	Completed – awaiting revision
	Change and contestation of policies governing river management and the implications for flood risk reduction	Honours research report	On-going
	Mapping the positioning of bulk water and sewage infrastructure in flood-prone areas and the frequency and consequences of damage'	Honours research report	On-going
	Residential movement patterns of the elderly in informal settlements: mapping the lives of the elderly in the Cape Winelands	Honours research report	On-going
Tanà	'Analyse de la vulnérabilité du système institutionnel en GRC à Madagascar'	PhD thesis	Planned for 2015
	Sécurité alimentaire: conditionnalités de réussite de la stratégie de mise à l'échelle des activités locales de Réduction des Risques de Catastrophes de l'ONG SAF-FJKM. Cas du fokotany de Masindranokely – Commune rurale de Nosy Varika ”.	Masters thesis	Complete – awaiting date for public presentation and defence
	La vulnérabilité à la sécheresse en Androy: conséquences socio économiques et perceptions culturelles du risque climatique	PhD thesis	On - going
UG	Delineating peri-urban Accra and its implications for urban risk governance	Field assignment 22 to 24 May 2015	completed
USTHB	Evaluation du potentiel de dommage dû aux mouvements du sol sous l'effet des seismes majeurs	PhD thesis	Completed in June 2015 but will be defended in October 2015

	Investigation experimentale sur les Courbes de performances de la table Vibrante du cgs et son interaction Avec les structures adjacentes	PhD thesis	On-going
	Modelisation numerique de la Table vibrante du cgs et Verifications experimentales	PhD thesis	Completed
Total:			56

Table A5: Partners' external engagements and collaborations

Institution	Engagement type	Title	Dates	Location	Host	Purpose
ABU	Discussions	N/A	30 June 2015	Abuja	ABU	Discussion concerning future collaboration with the University of Aberdeen
	MOU signed	N/A	June 2015	N/A	N/A	Memorandum of Understanding with SU for joint research, staff and students exchange
	Discussions	N/A	On-going	N/A	N/A	Discussion concerning future collaboration with CRSCAD, University of Massachusetts
	Consultancy job	Development of a Public Awareness Plan for Disaster Risk Reduction in Nigeria	Concluded June	Abuja	UNDP, and the NEMA	consultancy job for the development of a public awareness plan for Disaster Risk Reduction in Nigeria
	Workshop	ECOWAS Workshop for Curriculum Review and Finalization Meeting for WADPPT	22 - 25 June	Accra, Ghana	ECOWAS, NADMO, KAIPTC,	The attendance at the workshop was for the Curriculum Review and Finalization Meeting for WADPPT
Ardhi	Exchange visit		22 - 27 May	Gadjah Mada	UGM,	Examining PhD defence and giving

			2015	University (UGM), Indonesia	Indonesia	public presentation
	Attending short course	Community Risk Assessment: Focus on Informal Settlements	29 June – 3 July 2015	Stellenbosch, South Africa	SU, South Africa	Attending short course for skills training
BDU	Consultative meeting	Law and Disasters	30 June – 1 July 2015	Addis Ababa, Ethiopia	IFRC and AUC	Not specified
	Attending short course	Community Risk Assessment: Focus on Informal Settlements	29 June – 3 July 2015	Stellenbosch, South Africa	SU, South Africa	Attending short course for skills training
	Co-hosted conference	2 nd Annual National Conference on Agriculture and Environmental Management for Sustainable Development	19-20 June 2015	Bahir Dar, Ethiopia	BDU	Not specified
GBU	MOU signed	N/A	June 2015	Senegal	N/A	MOU was signed between GBU and the Executive Secretariat for the National Food Security Programme
	Consultative workshop	Agricultural Risk Assessment and Management (ARAM) in Developing Countries	17-18 June 2015	Rome, Italy	FAO	Assistance for the development of an e-learning curriculum at UDM
UDM	Consultative workshop	Agricultural Risk Assessment and Management (ARAM) in Developing Countries	17-18 June 2015	Rome, Italy	FAO	Assistance for the development of an e-learning curriculum at UDM
SU	Parliamentary portfolio Committee	South African Parliamentary portfolio Committee on	21-22 April.	Cape Town, South Africa	South African,	Providing input to the amendment of the Disaster Management Bill.

	meeting	Cooperative Governance and Traditional Affairs on the amendment to the Disaster Management Bill.			Parliament portfolio Committee	
	Attending negotiations	post-2015 Sustainable Development agenda at the United Nations	23-24 April	New York, USA	International Council for Science (ICSU)	delivered a formal statement to the Interactive dialogue with Major Groups and other stakeholders
	Committee meeting	13 th Meeting of the Integrated Research on Disaster Risk (IRDR) Science Committee Meeting	31 may – 5 June 2015	Qingdao, China	IRDR Science Committee	Representing secretariat at the IRDR Science Committee Meeting
Tanà	Establishing draft MOU	N/A	April –June 2015	N/A	N/A	Establishing draft MOU with University of Liège
UG	Presentation at symposium	from indoor water contamination to city level water pollution: the accumulation of water related risks in the Greater Accra Metropolitan Area (GAMA), Ghana	1 – 3 June 2015	Environment and Health symposium Pretoria, South Africa	ASSAf in collaboration with the EAS, GAAS, and Leopoldina.	Not specified
	Research collaboration	Community resilience building and disaster recovery in urban Sabon Zongo, and the Yeji and Buipe communities within the Volta basin in Ghana	April – June 2015	Ghana	UG, the Institute of Environment and Sanitation Studies and (USF World),	Not specified

USTHB	Presenting at 17 th EMHES	Exploring the African Higher Education Institutions in Advancing Disaster Risk Reduction: A Model for Post- 2015 Capacity Building	1 June 2015	Emmitsburg, USA	National Emergency Training Centre (FEMA/NETC)	Discussing the needs of potential course users and emergency management degree program developers, as well as general items of interest pertaining to hazards, disaster and emergency management higher education.
Total:						20