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# AFRICAN AND LATIN AMERICAN RESILIENCE TO CLIMATE CHANGE (ARCC)

5<sup>th</sup> QUARTERLY REPORT (October - December 2012)

15 January 2013

This publication was produced for review by the United States Agency for International Development.  
It was prepared by Tetra Tech ARD.

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## DISCLAIMER

The views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

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# ACRONYMS AND ABBREVIATIONS

AFR	Africa Region
AM	Activity Manager
APS	Annual Program Statements
ARCC	African and Latin American Resilience to Climate Change
CCA	Climate Change Adaptation
CCAFS	Climate Change Agriculture and Food Security Program (CGIAR)
CGIAR	Consultative Group on International Agricultural Research
CIESIN	Center for International Earth Science Information Network
CO	Contracting Officer
COP	Chief of Party
COP 17	Seventeenth Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC)
COR	Contracting Officer's Representative
ETOA	Environmental Threats and Opportunities Assessment
FAO	United Nations Food and Agriculture Organization
FEWS NET	Famine Early Warning Systems Network
FESS	Foundation for Environmental Security and Sustainability
FGD	Focus Group Discussion
FTF	Feed the Future
GCAP	Global Climate Adaptation Partnership
GCC	Global Climate Change
GMP	Grants Management Plan
GoU	Government of Uganda
GoM	Government of Malawi
GUC	Grants Under Contract

IQC	Indefinite Quantity Contract
KII	Key Informant Interview
LAC	Latin America and the Caribbean Region
LDPG	Local Development Partner Group
LVI	Livelihood Vulnerability Index
M&E	Monitoring and Evaluation
NAPA	National Adaptation Program of Action
NGO	Nongovernmental Organization
PM	Project Manager
PMP	Performance Monitoring Plan
PRRGP	Property Rights and Resource Governance Program
SMTS	Subject Matter Technical Specialists
SOW	Scope of Work
STA/M	Senior Technical Advisor/Manager
UCT	University of Cape Town
USG	United States Government
UNDP	United Nations Development Programme
UNFCCC	United Nations Framework Convention on Climate Change
VA	Vulnerability Assessment
WRI	World Resources Institute

# I.0 PROJECT SUMMARY

**The African and Latin American Resilience to Climate Change (ARCC)** project is a three-year program funded by the United States Agency for International Development (USAID) to provide technical, analytical, and project assistance, as well as capacity building to promote adaptation to climate change, in order to improve the ability of vulnerable populations to respond to climate challenges and safeguard economic growth. The Task Order for ARCC will focus on advancing the Economic Growth Objective within the USAID Foreign Assistance Framework by promoting adaptation to climate change and integration of adaptation into other economic investments, in order to safeguard and promote sustainable, climate-resilient growth. ARCC has the following goals/objectives:

- Promote sustainable economic growth through the development of vulnerability assessment methodologies and other analyses that provide information about the greatest climate change risks to sustainable growth and adaptation options;
- Promote improved governance through the development of analysis and methodologies that increase public understanding of potential climate change impacts and broaden civil society participation in decision-making;
- Address the needs of vulnerable populations, and include gender considerations, by developing best practices in analysis of risk and mitigation of climate change impacts on these populations; and
- Provide technical support to USAID missions and operating units by providing analysis, design, and evaluation support for activities related to adaptation.

To follow, the Task Order for ARCC consists of four activity areas with predefined tasks and deliverables:

- Task Area 1: Development of Vulnerability Assessments Methodologies;
- Task Area 2: Outreach, Training and Support;
- Task Area 3: Knowledge Development and Management; and
- Task Area 4: Technical Support to USAID Missions and Operating Units.

Under these Task Areas, key activities will include the provision of assessment methodologies to guide USAID programming of adaptation-related objectives; a vulnerability assessment tool to provide specific guidance into 'Feed The Future' planning for USAID programs; knowledge management support on topics that may range from evaluation of publicly available indicators of vulnerability to research to improve downscaled modeling outputs that are important for decision-making around adaptation; and technical assistance for field missions in Africa and to a lesser extent, the Latin America and Caribbean region. This Task Order is also expected to have the flexibility to address unforeseen support needs for the Africa Bureau and the Latin America and Caribbean Bureau (LAC).

ARCC will likely be asked to focus on the following geographic areas: *Africa*: Angola, Ethiopia, Kenya, Malawi, Mali, Mozambique, Rwanda, Senegal, Tanzania, and Uganda. *Africa Regional Missions*: East Africa, Southern Africa, and West Africa. *Latin America and Caribbean*: Colombia, Ecuador, Peru, Guatemala, Haiti, and Jamaica. *Latin America Regional Missions*: Central American, Andean and the Caribbean.

# 2.0 SUMMARY RESULTS FOR THE PERIOD

During the 5<sup>th</sup> Quarter, ARCC made marked progress on the Uganda VA. ARCC completed the Uganda crop simulations using the Ecocrop model; presented the preliminary results of the Uganda VA to USAID/Washington and USAID/ Uganda missions; and prepared an illustrative list of management options for developing and implementing pathways for adaptive capacity. The illustrative list of options focused on: strengthening climate change monitoring systems; diversification of agriculture systems; diversification of livelihood outcomes; and intensification of agriculture production. ARCC will present a detailed list of options for Uganda at an Options Analysis Workshop in Kampala during the next quarter.

ARCC also conducted a Scoping Mission in Senegal to determine the parameters for a vulnerability assessment and options analysis. The ARCC team, joined by USAID/Washington staff, facilitated an in-brief with USAID/Senegal staff, and administered interviews with representatives of the government of Senegal, NGOs, development projects, and donor organizations. Following the Scoping Mission, ARCC conducted background research and developed a draft statement of work for the vulnerability assessment and options analysis process. The preliminary research design was submitted to USAID in mid-December and is pending final USAID approval.

ARCC carried out the Dominican Republic VA Scoping Mission from November 25 – December 15, 2012. During the mission, the ARCC team worked with USAID to define the most important questions that need to be answered about climate change impacts, the decisions USAID needs to make related to climate change, the scale and analytical for the VA, as well as opportunities for local capacity building. A second phase of research and field work will commence in the next quarter.

ARCC organized a summary meeting on the Malawi Vulnerability Assessment Results to share results from the Malawi VA as well as to begin planning for subsequent field activities and analysis. In addition, with the support of WRI, ARCC began the options analysis methods development.

ARCC worked on preparatory stages of planning three major workshops. First, the USAID Experts Workshop entitled “Building Public Sector Capacity to Engage in Climate Change Decision Making,” will be held on February 25-26, 2013. The workshop will focus on building the capacity of decision makers at the municipal and regional levels. Second, ARCC is leading the logistics and coordination of the AFR Climate Change Training and Technical Officers Meeting in Accra, Ghana to be held February 4-9, 2013. Third, ARCC began to conceptualize and frame the Climate Change Adaptation Experts Meeting which is to be held on March 27-28, 2013. This experts meeting will focus on sharing vulnerability and risk assessment experiences, capturing lessons learned and best practices, reviewing vulnerability and risk assessment tools, and identifying ongoing knowledge needs and gaps.

ARCC submitted a series of technical papers, assessments and fact sheets to USAID for reviews.

On the project management side, ARCC hired four new additional staff in accordance with the approved budget re-alignment. ARCC also held a two-day work planning and review session with USAID to help define new program activities as well as orient the new team members with progress to date under ARCC.

## **TASK AREA I: DEVELOPMENT OF VULNERABILITY ASSESSMENTS METHODOLOGIES**

Activities that were completed under Task Area I include:

- I. Under the direction of ARCC Climate Scientist, Sylwia Trzaska ARCC completed the Uganda crop simulations using the Ecocrop model. The crop simulations were used to investigate potential changes in crop suitability under past, current and projected climate conditions. Key activities included:
  - Conducted evaluations of suitability for 8 crops and 6 locations in Uganda, using observed climate conditions in 1951-80 and 1981-2010 and 5 different conditions projected for 2015-2045 (multi-model average, as well as combinations of maximum and minimum changes in temperature and rainfall);
  - Based on information provided by NARL, modified crop parameters in the model to better reflect varieties grown in Uganda and access more realistic suitabilities; and
  - Summarized the main findings on observed and projected climate changes and crop suitability changes for inclusion in the VA report and PowerPoint presentation.

On November 14, 2012 ARCC made a virtual presentation via teleconference on the Uganda VA Preliminary Results to staff at the USAID/Washington and USAID/ Uganda missions, including Tegan Blaine and P.V. Sundareshwar, amongst others. The presentation largely focused on: a) the purpose of the research; b) overall methodology; c) climate and water analysis; d) water assessment; e) crop and value chain analysis; f) livelihoods assessment; g) a summary of key findings; and h) next steps for making a larger presentation on the results of the VA.

In addition to presenting the preliminary results of the Uganda VA, ARCC prepared an illustrative list of management options for addressing the climate change impacts in Uganda. The options represent potential actions for continuing along a continuum of progressively developing and implementing pathways for adaptive capacity aiming for diversification of agricultural systems, livelihood incomes and intensification of agricultural production. The illustrative list of options focused on:

- Strengthening Climate Change Monitoring Systems
- Diversification of Agriculture Systems
- Diversification of Livelihood Outcomes
- Intensification of Agriculture Production

ARCC plans to present a detailed list of options for Uganda at an Options Analysis Workshop in Kampala during the next quarter.

2. At the request of USAID and under the supervision of Dr. David Miller, ARCC conducted a Scoping Mission in Senegal to determine the parameters for a vulnerability assessment and options analysis. Over the first three weeks of October, the ARCC team, joined by USAID/Washington staff facilitated an in-brief with USAID/Senegal staff, and administered interviews with over forty representatives of the government of Senegal, NGOs, ongoing development projects and donor organizations. The out-brief with USAID/Senegal confirmed the parameters of the assessment, which are:
  - Identify current and future climate stresses in eastern Senegal,

- Describe the potential impacts of those stresses on vulnerable populations, and
- Assess local capacity to respond

The assessment will also produce an initial list of development investment options for USAID, government, and other donor consideration.

Following the Scoping Mission, the ARCC Senegal team conducted background research and developed a draft statement of work for the vulnerability assessment and options analysis process, as well as a preliminary research design document. ARCC brought on Tetra Tech staff Ryan Roberge as Deputy Team Leader to assist Dr. David Miller. To develop the research design, research associate Leif Brottem conducted a review of literature concerning livestock and climate change; CSE staff Almamy Wade produced maps and data; and climatologist Sylwia Trzaska produced background information on climate and crop modeling. The ARCC climatologist also designed a set of climate analyses and drafted preliminary scope of work for the Senegal Meteorological Agency (ANACIM), a potential subcontractor ARCC wishes to engage during the VA. Two planning sessions were conducted to review the design. An initial draft of the statement of work was sent to USAID for review on November 2, 2012. A first draft of the preliminary research design was sent to USAID on December 1, and a second draft followed on December 17, 2012. The Senegal team also developed draft statements of work for research partners to be finalized upon USAID approval of the research design.

3. At the request of the USAID Mission in the Dominican Republic, ARCC carried out a VA Scoping Mission from November 25 – December 15, 2012. The DR VA Team comprised of Trish Caffrey, Ruben Torres, Jerry Meier and Carter Stone, and the primary purpose of the scoping mission was to define: the most important questions that need to be answered about climate change impacts, the decisions USAID needs to make related to climate change, the scale of focus, the appropriate analytical focus, opportunities for local capacity building and how the study will be used. During the scoping mission ARCC collected numerous relevant studies and data sets (primarily GIS-based), interviewed with 20 institutions, and made preparations made for the assessment visit. During the out-brief presentation with USAID, ARCC and USAID had defined the focus for the study, which is:
  - How climate change has and will impact water and marine resources
  - How the impacts will affect society and natural systems (water quantity and quality and urban centers and communities dependent on marine resources)
  - How do and can people and institutions respond/adapt to these impacts
4. In December 2012, ARCC organized summary meeting on the Malawi Vulnerability Assessment Results in Arlington, Virginia to share results from the Malawi VA as well as to begin planning for subsequent field activities and analysis. ARCC contributed to the presentation of results of phase II fieldwork for Malawi, including the assessment of natural resource management practices in a changing climate. WRI and CIESIN partners also participated in this event.

Also in December 2012, ARCC began the options analysis methods development. WRI proposed a scenario-based approach for conducting the options analysis exercise in Malawi. This event informed the development of ‘options analysis’ methods and exercise upcoming in Uganda and will also inform the options analysis exercise to be conducted in Senegal later this spring.

## **TASK AREA 2: OUTREACH, TRAINING AND SUPPORT**

Activities that were completed under Task Area 2 include:

1. ARCC Technical Specialist Matt Sommerville continued planning for the USAID Experts Workshop entitled “Building Public Sector Capacity to Engage in Climate Change Decision Making,” which is to be held in Arlington, VA on February 25-26, 2013. The workshop will focus on building the capacity of decision makers at the municipal and regional levels, who often have the most limited resources, and face a larger capacity gap than those at the national level. The agenda for the Experts Workshop includes three main topics:
  - Defining capacity and information needs of adaptation decision makers
  - Presenting information: Communicating adaptation to decision makers
  - Tools for reaching audiences
2. In coordination with USAID/Washington, ARCC’s Operations Manager Roberto Prado is spearheading the logistics and coordination of the AFR Climate Change Training and Technical Officers Meeting in Accra, Ghana, which is to be held February 4-9, 2013. Based on the draft agenda set forth by USAID, this 6-day meeting/workshop will focus on: a) an overview of climate change and integration; b) monitoring and reporting in climate change programs, including the use of GIS for programming and reporting; c) lessons learned about implementation by other donors; d) advances in key climate change issues; and e) USAID’s resilience policy and relation to the climate change initiative. During the quarter, ARCC developed the Accra general information sheet, a guide for traveling to Ghana for USAID participants. ARCC will continue to provide logistics and coordination support such as securing a venue, liaising with participants, etc. will be provided throughout the next quarter.
3. In coordination with USAID/Washington, ARCC is planning the Uganda Options Analysis Workshop in Kampala, Uganda from January 29-31. In attendance will be USAID/Uganda, USAID/Washington, ARCC Chief of Party Cary Farley, ARCC Uganda Team Leader and Vulnerability Assessment Specialist Patricia Caffrey, ARCC Climate Scientist Sylwia Trzaska, and WRI’s Associate Aarjan Dixit.
4. On December 13, 2012 ARCC Knowledge and Training Manager Leif Kindberg and ARCC Chief of Party Cary Farley, met with USAID/Washington’s Activity Manager Tegan Blaine to begin conceptualizing the Climate Change Adaptation Experts Meeting which is to be held on March 27-28, 2013 in Arlington, VA. Based on this initial conversation, it was decided that the meeting should focus on sharing vulnerability and risk assessment experiences, capturing lessons learned and best practices, reviewing vulnerability and risk assessment tools, and identifying ongoing knowledge needs and gaps for planning and developing assessments. Likely participants of this meeting include USAID, ARCC, International Institute for Sustainable Development (IISD), Michigan State University (MSU), Climate Change, Agriculture and Food Security (CCAFS), amongst others.

## **TASK AREA 3: KNOWLEDGE DEVELOPMENT AND MANAGEMENT**

Activities that were completed under Task Area 3 include:

1. ARCC submitted to USAID for review a total of seventeen (17) technical documents. These documents are:
  - DRR and CCA Synergy in USAID/E Programming

- Climate Change and Conflict in Africa and Latin America: Findings and Preliminary Lessons from Uganda, Ethiopia
  - Background Paper: Regional Climate Change Vulnerability Assessment for West Africa
  - Ensuring Condition-Appropriate Seed (Climate Change Fact Sheet, 2 pages)
  - Stakeholder Participation in Climate Change Adaptation Planning (Executive Summary, 4 pages)
  - Stakeholder Participation in Climate Change Adaptation Planning
  - Analyzing Climate Change Adaptation Options Using Multi-Criteria Analysis
  - Adaptation and Governance (working title)
  - Climate Change and Agriculture Interventions (Overview)
  - Climate Change Issues Affecting Small Holder Agriculture (a.k.a., Agricultural Interventions Matrix)
  - Background Chapters for Uganda, Malawi & Senegal on Phenology
  - Methods for Economic Analysis of Climate Change Adaptation Interventions (Executive Summary, 3 pages)
  - Methods for Economic Analysis of Climate Change Adaptation Interventions
  - From Assessment to Implementation Fact Sheet: Approaches for Adaptation Option Analysis (3 pages)
  - From Assessment to Implementation: Approaches for Adaptation Option Analysis
  - Evaluating Networks Frameworks to Support Decision Making (Four page summary)
  - Analysis of Climate Change Adaptation Networks and Institutions in Africa (Report)
2. ARCC finalized a total of eight (8) fact sheets, including:
- Investigate Crop Insurance Schemes (Fact Sheet)
  - Improve Extension Services (Fact Sheet)
  - Expansion of Integrated Pest Management (Fact Sheet)
  - Expansion of Income Generating Activities (Fact Sheet)
  - Improved Post Harvest Handling and Storage (Fact Sheet)
  - Promoting Conservation Agriculture (Fact Sheet)
  - Strengthening Agricultural Value Chains (Fact Sheet)
  - Supporting Mixed Farming Systems (Fact Sheet)
3. Detailed below is a list and the status of several knowledge products ARCC continued to work on during the quarter:
- Design and Use of Composite Indices in Assessments of Climate Change Vulnerability and Resilience. Sandra Baptista of CIESIN did additional research on the Livelihood Vulnerability Index (LVI) in Mozambique, specifically to learn more about the advantages, disadvantages, challenges and limitations of the LVI approach. Ms. Baptista submitted a revised draft technical paper on November 9, and is expected that the final draft will be submitted to USAID in the next quarter.
  - Spatial Vulnerability Assessments. Under the direction of CIESIN's Alex de Sherbinin and Sandra Baptista, ARCC completed a working outline of the Spatial Vulnerability Assessment. Also initial research and writing commenced in October and it is expected that a draft of the paper will be ready for USAID review in January 2013.
  - West Africa Background Paper. A team of scientists and researchers at CIESIN continued a desk review to assess the level of current and future climate change vulnerability in relationship to the key ecological, social, economic and political characteristics. Key areas of research will include: an overview of climate variability,

trends, projections and confidence; background on climate change vulnerabilities by zones; an overview of adaptive responses; and summary of adaptive options.

- Case Studies - Climate Change and Conflict: New Vulnerabilities in Africa and Latin America/Caribbean. The Foundation for Environmental Security and Sustainability (FESS), an ARCC subcontractor, prepared a scope of work for USAID review to do three to four case studies on climate change and conflict in Latin America and Africa. Potential countries recommended for the case studies included those with both governance challenges and a potential for conflict, as well as diversity of climate vulnerabilities. Based on feedback received from USAID in December 2012, ARCC presented to USAID the following countries and regions for consideration: Sahel (Burkina Faso and Niger), West Africa, Peruvian Amazon, and Hispaniola (Haiti-DR). Once USAID concurrence is received, ARCC will work with FESS to continue to define the details of the scope of work for carrying out the case studies.
- Background Paper on Vulnerability Assessment Methodology. Under the supervision of ARCC's Knowledge and Training Manager Leif Kindberg, ARCC continued to work on a summary of the Background Paper on Vulnerability Assessment Methodology. It is expected that the draft will be submitted to USAID for review and approval in January 2013.

## **TASK AREA 4: TECHNICAL SUPPORT TO USAID MISSIONS AND OPERATING UNITS**

Activities that were completed under Task Area 4 include:

- I. ARCC has been asked to evaluate USAID/Ethiopia Office of Assets and Livelihoods in Transition's (ALT) capacity to implement development programming in food security and DRR as well as assess opportunities for improved integration of DRR and CCA across ALT programs. As a part of this evaluation, ARCC completed a desk review and analysis of all information related to USAID/Ethiopia programming on adaptation, DRM and DRR/food security. The desk review mapped out what development aid in Ethiopia focuses on disaster risk reduction/management as it relates to food security and climate change adaptation.

## **PROJECT MANAGEMENT AND ADMINISTRATION**

The following are key project management and administration activities which took place during the reporting period.

- Received USAID approval for the budget re-alignment.
- Identified additional staffing needs, recruited and hired five new full-time staff, including: Vulnerability Assessment Specialist, Patricia Caffrey; Deputy Chief of Party, Kelly Miller; Technical Advisor for Latin America, Christine Mataya; Administrative Assistant, Arielle Kleinman, and Climate Research Associate, Emilie Schnarr (through CIESIN). In addition, ARCC Agriculture Specialist David Miller was hired on full-time as the Technical Advisor for Latin America (through ACDI/VOCA).
- Identified and moved to new office space at 1611 North Kent St., Suite 600, Arlington, VA.
- Presented USAID with a timeline for implementing USAID grants program with ACPC partners.
- Conducted a two-day work planning review and planning session for ARCC's second program year. USAID/Washington Activity Managers Tegan Blaine (Africa) and Christine Pendzich (Latin

America) were invited to attend, and they shared with ARCC staff upcoming program activities to be carried out by ARCC.

- Mobilized short term technical assistance (STTA) for the Senegal and Dominican Republic Scoping Missions.
- Managed for outputs from subcontractors – ACDI/VOCA, CIESIN and the World Resources Institute (WRI);
- Held several strategic planning meetings with USAID and implementing partners to review results of the Uganda Vulnerability Assessment and develop the methodology for the Senegal and Dominican Republic Vulnerability Assessments.

# 3.0 FINANCIAL MANAGEMENT

Quarterly Accrual Worksheet			
<b>Contract/Agreement No.</b>		<b>AID-OAA-TO-11-00064</b>	
<b>Project/Activity Name</b>		<b>Africa and Latin America Resilience to Climate Change (ARCC)</b>	
Agreement Ceiling:	\$	13,034,950.00	
Obligated Amount:	\$	7,075,112.00	
Ceiling Remaining:	\$	5,959,838.00	
Total Disbursed/Vouchered:	\$	3,149,948.22	
Last Payment Amount:	\$	250,539.82	
For the Period:			Nov-12
Unliquidated Balance:	\$	3,925,163.78	
<b>Last Invoice, not yet disbursed:</b>			
Invoice No.			50637615
For the Period:			Dec-12
Calculation:	Nov	\$ 250,539.82	(Nov 2012)
	Dec	\$ 444,894.99	(Dec 2012)
	Total	\$ 695,434.81	(actual for Oct-Dec)
<b>Accrual amount:</b>	\$	<b>444,894.99</b>	
<small>(the value of goods and services provided to USAID, not yet paid for)</small>			
Est. Pipeline Amount:	\$	3,480,268.90	
Notes/Comments:			Obligated amount less disbursed amount, less accrual amount.
CTO Initials/Date:			

# 4.0 MAJOR ACTIVITIES PLANNED FOR NEXT PERIOD

ARCC expects to initiate vulnerability assessments in at least two countries – Dominican Republic and Senegal -- during the next quarter and to have a significant number of related activities, including:

Activity Plan				
Task Areas	Activities	Lead ARCC Team Member/Partner	Date/Month	Output
TA 1	Pending USAID approval for the research design for the Senegal VA, conduct literature review, identify subcontractors and negotiate subcontracts, commence the geo-spatial analysis and livestock modeling.	David Miller	January/February	Implementation Plan for conducting VA
TA 1	Begin field research phase of the vulnerability assessment in DR. Key activities include: focus group discussions and key informant interviews, analyze climate data, and report writing.	Christine Mataya	January – March	Dominican Republic Draft VA Report
TA 1	Conduct Phase II of the vulnerability assessment in Malawi: crop modeling, value-chain analysis, preliminary write-up. Initiate planning for Options Analysis Exercise next Quarter.	ARCC / Cary Farley	January - March	Research Reports
TA 1	Finalize the Uganda VA Report and conduct Options Analysis Workshop in Kampala Uganda.	Patricia Caffrey	January	Uganda VA Report
TA 2	Hold a stakeholder workshop on “Building Public Sector Capacity to Engage in Climate Change Decision Making”	Matt Sommerville	February	Meeting Report
TA 2	Manage all logistics for the “AFR Climate Change Training and Technical Officers Meeting in Accra, Ghana”	Roberto Prado	February	Coordination and Logistics Report Out
TA 2	Coordinate and facilitate the Climate Change Adaptation Experts Meeting in	Leif Kindberg	March	Lessons Learned

	Arlington, VA			Report
TA 3	Finalize report on “Design and Use of Composite Indices and Assessment of Climate Change Vulnerability and Resilience.”	CIESIN	January	Design Document
TA 3	Produce technical papers and policy briefs on climate change & governance, climate change & ecosystem management.	WRI	February – March	Policy Briefs/TBD
TA 3	Finalize Spatial Vulnerability Assessments	CIESIN	January	Assessment
TA 3	West Africa Background Paper	CIESIN	January	Technical Paper
TA 3	Case Studies – Climate Change and Conflict: New Vulnerabilities in Africa and Latin America / Caribbean	FESS	January – March (ongoing)	Case Studies
TA3	Summary of the Background Paper on Vulnerability Assessment Methodology	Leif Kindberg	January	Summary of Background Paper
TA 4	As requested, support USAID Missions in initiating literature reviews, developing case studies, and conducting assessments for USAID Missions.	ARCC	Ongoing	TBD

# 5.0 ANNEXES

## ANNEX I: ARCC OUTPUTS

### ARCC Program Outputs

	Title (Illustrative)	Date Submitted	Feedback Requested By	Approved for Distribution
47	DRR and CCA Synergy in USAID/E Programming	8-Dec-12	22-Dec-12	
46	Investigate Crop Insurance Schemes (Fact Sheet)	21-Dec-12	9-Jan-13	
45	Improve Extension Services (Fact Sheet)	22-Dec-12	10-Jan-13	
44	Expansion of Integrated Pest Management (Fact Sheet)	23-Dec-12	11-Jan-13	
43	Expansion of Income Generating Activities (Fact Sheet)	14-Dec-12	28-Dec-12	
42	Improved Post Harvest Handling and Storage (Fact Sheet)	14-Dec-12	28-Dec-12	
41	Promoting Conservation Agriculture (Fact Sheet)	14-Dec-12	28-Dec-12	
40	Strengthening Agricultural Value Chains (Fact Sheet)	14-Dec-12	28-Dec-12	
39	Supporting Mixed Farming Systems (Fact Sheet)	14-Dec-12	28-Dec-12	
38	Analyzing Climate Change Adaptation Options Under Uncertainty (working title)			
37	Climate Change and Conflict in Africa and Latin America: Findings and Preliminary Lessons from Uganda,	21-Dec-12	11-Jan-13	
36	Background Paper: Regional Climate Change Vulnerability Assessment for West Africa	21-Dec-12	11-Jan-13	
35	Ensuring Condition-Appropriate Seed (Climate Change Fact Sheet, 2 pages)	19-Nov-12	7-Dec-12	
34	Business As Usual			
33	Stakeholder Participation in Climate Change Adaptation Planning (Executive Summary, 4 pages)	19-Nov-12	7-Dec-12	
32	Stakeholder Participation in Climate Change Adaptation Planning	16-Oct-12	7-Dec-12	
31	Analyzing Climate Change Adaptation Options Using Multi-Criteria Analysis			
30	Climate Change and Nutrition Action Plan	1-Oct-12		
29	Adaptation and Governance (working title)	14-Dec-12	28-Dec-12	
28	Climate Change and Agriculture Interventions (Overview)	14-Dec-12	28-Dec-12	
27	Climate Change Issues Affecting Small Holder Agriculture (a.k.a., Agricultural Interventions Matrix)	1-Oct-12	22-Oct-12	
26	Senegal Vulnerability Assessment Report (Full)			
25	Malawi Vulnerability Assessment Report (Full)			
24	Design and use of Composite Indices in Assessments of Climate Change Vulnerability and Resilience	4-Jan-13	18-Jan-13	
23	Spatial Vulnerability Assessments			
22	Downscaling Climate Projections - Review of Existing Methods			
21	Downscaling Climate Projections - Standardized Approaches to Downscaling Climate Projections			
20	Uganda Vulnerability Assessment Report (Full)			
19	Background Chapters for Uganda, Malawi & Senegal on Phenology	6-Dec-12	20-Dec-12	
18	Methods for Economic Analysis of Climate Change Adaptation Interventions (Executive Summary, 3 page	19-Nov-12	7-Dec-12	
17	Methods for Economic Analysis of Climate Change Adaptation Interventions	19-Nov-12	7-Dec-12	
16	Alternative Approaches for Adaptation Options Analysis (outline)	21-Sep-12		
15	From Assessment to Implementation Fact Sheet: Approaches for Adaptation Option Analysis (3 pages)	19-Nov-12	7-Dec-12	
14	From Assessment to Implementation: Approaches for Adaptation Option Analysis	19-Nov-12	7-Dec-12	
13	Integrating Climate Change Adaptation into Biodiversity and Forestry Assessments and Programs (draft c	18-Oct-12		
12	Improving Vulnerability Assessment and Climate Change Adaptation by Applying Impact Assessment Pro	4-Jan-13	18-Jan-13	
11	Improving Vulnerability Assessment and Climate Change Adaptation by Applying Impact Assessment Processes - Ten Principles			1-Oct-12
10	Evaluating Networks Frameworks to Support Decision Making (Four page summary)	26-Nov-12	17-Dec-12	
9	Analysis of Climate Change Adaptation Networks and Institutions in Africa (Report)	26-Nov-12	17-Dec-12	
8	Analysis of Climate Change Adaptation Networks and Institutions in Africa (Database)			24-Sep-12
7	Vulnerability Assessment Options: A Review of Approaches	4-Jan-13	25-Jan-13	
6	Background Paper on Vulnerability Assessment Methodology - Full	27-Jun-12		
5	ARCC Program Briefs (two audiences)			
4	AFR-GCC Meeting (Addis)	8-Apr-12		
3	COP 17 Trip			
2	Expert's Meeting Report - Summary	15-May-12		
1	Expert's Meeting Report - Full			

Color Key	
	= Forthcoming from ARCC
	= Action Requested by USAID
	= Priority Action Requested by USAID

## ARCC Operational Outputs

	Title	Date Submitted	Feedback Requested By	USAID Final Approval
10	Adaptation Futures Conference Report	20-Sep	28-Sep-12	
9	Quarterly Report 4, July 1 - September 30, 2012	3-Nov	3-Nov-12	16-Nov-12
8	ARCC Pipeline Analysis and Budget Re-Alignment Request	10-Oct-12		21-Nov-12
7	Quarterly Report 3, April 1 - June 30, 2012	15-Jul-12		20-Sep-12
6	Communications and Knowledge Management Strategy	27-Sep-12		3-Dec-12
5	Quarterly Report 2, January 1 - March 31, 2012	15-Apr-12		1-Jun-12
4	Performance Monitoring Plan	23-Jul-12		23-Sep-12
3	Quarterly Report 1, September 28 - December 31, 2011	15-Jan-12		1-Jun-12
2	First Annual Work Plan	3-Nov-11		1-Jun-12
1	Grants Management Plan	11-May-12		14-May-12

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