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SUSTAINABLE FISHERIES MANAGEMENT PROJECT (SFMP)

Progress Report



APRIL 1 – JUNE 30, 2017



Hen Mpoano



Friends of the Nation



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Cover photo: A skit on the importance of not overfishing at an event involving the National Fish Processors and Traders Association.

Photo credit: SFMP

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SNV:	http://www.snvworld.org/en/countries/ghana
SSG Advisors:	http://ssg-advisors.com/
Spatial Solutions:	http://www.spatialsolutions.co/id1.html

ACRONYMS

BFPA	Best Fisheries Practices Award
CCM	Centre for Coastal Management
CCPC	Community Child Protection Committees
CLaT	Child Labor and Trafficking
CEWEFIA	Central and Western Region Fishmongers Improvement Association
CLaT	Child Labor and Trafficking
CECAF	Fisheries Committee for Eastern and Central Atlantic
CRC	Coastal Resources Center
CSLP	Coastal Sustainable Landscape Project
CSO	Civil Society Organization
DAA	Development Action Association
DQF	Daasgift Quality Foundation
DFAS	Department of Fisheries and Aquatic Sciences
F ₂ F	Fisherman to Fisherman (Dialogues)
FC	Fisheries Commission
FCWC	Fisheries Committee for the West Central Gulf of Guinea
FoN	Friends of Nation
FSSD	Fisheries Scientific and Survey Division of the Fisheries Commission
FWV	Fisheries Watch Volunteers
HM	Hen Mpoano
GITA	Ghana Industrial Trawlers Association
GIFA	Ghana Inshore Fishermen's Association
GIS	Geographic Information System
GNCFC	Ghana National Canoe Fishermen's Council
IR	Intermediate Results
IUU	Illegal, Unreported, and Unregulated (Fishing)
LEK	Local Ecological Knowledge
LUSPA	Landuse and Spatial Planning Authority
MOFAD	Ministry of Fisheries and Aquaculture Development
M&E	Monitoring and Evaluation
NAFPTA	National Fish Processors and Traders Association
NFMP	National Fisheries Management Plan
NMFMP	National Marine Fisheries Management Plan
NGO	Non-Governmental Organization
ODK	Open Data Kit
PAH	Polycyclic Aromatic Hydrocarbons
SFMP	Sustainable Fisheries Management Project
MSMEs	Micro, Small and Medium Scale Enterprises
SMEs	Small and Medium Enterprises
SNV	Netherlands Development Organisation
SSG	SSG Advisors
ToT	Training of Trainers
UCC	University of Cape Coast
UNODC	United Nations Office on Drugs and Crime
URI	University of Rhode Island
USAID	United States Agency for International Development
VSLA	Village Savings and Loans Association
WARFP	West Africa Regional Fisheries Project

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1. PROGRAM DESCRIPTION AND EXECUTIVE SUMMARY

Table 1 Sustainable Fisheries Management Project Summary

Program Name:	Sustainable Fisheries Management Project
Activity Start and End Date:	October 22, 2014 to October 31, 2019
Lead Implementing Partner:	Coastal Resources Center, University of Rhode Island
Agreement Number:	AID-641-A-15-00001
Name of Sub-awardees:	Hen Mpoano Friends of the Nation SNV Netherlands Development Organisation SSG Advisors Spatial Solutions Central and Western Fishmongers Association (CEWEFIA) Development Action Association (DAA) Daasgift Quality Foundation
Main Counterpart Organizations	Ministry of Fisheries and Aquaculture Development & Fisheries Commission
Geographic Coverage	Ghana: Central, Western, Greater Accra and Volta Regions
Reporting Period:	April 1 – June 30, 2017

Program Description

The objective of the five-year USAID/Ghana Sustainable Fisheries Management Project (SFMP - October 2014–October 2019) is to rebuild marine fisheries stocks and catches through the adoption of responsible fishing practices. The project contributes to the Government of Ghana’s fisheries development objectives and the US Government’s Feed the Future Initiative. Working closely with Ghana’s Ministry of Fisheries and Aquaculture Development (MOFAD) and the Fisheries Commission (FC), USAID/Ghana SFMP aims to assist Ghana to end overfishing of key stocks important to local food security through achievement of the following intermediate results:

- Improved legal enabling conditions for co-management, use rights
- Strengthened information systems and science-informed decision-making
- Increased constituencies that provide the support needed to rebuild fish stocks
- Implementation of applied management initiatives for targeted fisheries ecosystems

More than 100,000 men and women involved in the local fishing industry are expected to benefit from this project and tens of thousands of metric tons of additional high quality low cost food supply from fisheries can be regained via improved and sustainable management of the marine fish stocks in Ghana’s waters.

The Coastal Resources Center (CRC) at the University of Rhode Island’s Graduate School of Oceanography is the lead implementer of the SFMP and works in consortium with other international and local partners. The SFMP focuses on small pelagic fisheries along the entire coastline as well as fisheries in three estuaries along Ghana’s coastline. Improvements in the value chain of smoked fish, important to tens of thousands of women fish processors also is supported. The project includes actions to reduce child labor and trafficking in the Central Region of Ghana, a main source area for child labor and trafficked children.

This progress report provides an overview and highlights of key activities, results, and lessons learned during the third quarter (April – June, 2017) of Project Year 3 (FY17).

Executive Summary

The USAID/Ghana Sustainable Fisheries Management Project vertically integrates national, regional, district and local/community activities to simultaneously introduce innovations, build capacity, generate public support for political action and successfully apply and demonstrate approaches that contribute to restored fisheries stocks. SFMP work is grouped into seven main areas of work.

- Improved enabling environment for fisheries management.
- Applied science and research informing policy and management.
- Expanded constituencies, stakeholder engagement and political will.
- Applied management demonstrations.
- Improved gender equity.
- Developed public-private partnerships.
- Reduced child labor and trafficking.
- Improved capacity of selected government and civil society organizations.

In the first 2.5 years of implementation, significant work was carried out and tangible products were produced at the national level. These products included drafts of a national fisheries co-management policy, national gender strategy, a national child labor and anti-trafficking strategy, recommendations on amendments to the national fisheries act. In addition, a detailed review of the national fuel subsidy's contribution to overcapacity in the fishing sector that pointed to related opportunities for actions that could result in reduced effort in the canoe fishing sectors. All these efforts were supported by extensive public consultation and awareness programs, some of which are ongoing in the current reporting period. Finally, a national ad hoc science and technical working group was formed with the aim of this being considered by MOFAD as a formally appointed advisory group at some future date. Overall, institutional challenges reduced opportunities for policy engagement and resulted in national level work generally moving slowly despite the efforts of SFMP team.

While broad scale traction at the national level for adoption of new policies and related guidelines was relatively low, some success was notable. A gender strategy for the Fisheries Commission was formally approved by the Minister of MOFAD and implementation initiated. Capacity development with the Fisheries Scientific and Survey Division (FSSD) of the Fisheries Commission showed success as a result of direct training of staff in stock assessment and analysis of stock data and trends, and the introduction of pilot mobile phone-based collection of fisheries landings data based on FAO standards. Data from demonstration sites is now being transmitted directly to the FSSD and additional training is planned to secure the capacity to conduct stock assessments in-country. As a result of leveraging non-USAID/Ghana funding, regional collection of DNA samples of Round and Flat Sardinella were collected to contribute to an understanding of the population dynamics of these straddling stocks and possible harmonization measures that Ghana could take with other regional countries to protect this important food source that provides over 60% of protein intake in Ghana, and much higher percentages in coastal communities.

Parallel with the success at MOFAD and FSSD, SFMP moved forward strongly with sub-national and private sector engagements. Resilience plans for the Pra and Ankobra estuaries were developed and community-based fisheries management plans drafted for the Densu, Pra and Ankobra estuaries. The plans were developed with direct participation of the local communities and related local government institutions. An interim fisheries training center is up and operational and the construction of a permanent training center is nearing completion. The centers are used by Development Action Association to train women in post-harvest

value adding activities that increase incomes and improve health, leadership training was provided to community organizers, members of women's organizations, fishermen, local NGO members and other local government partners that mobilized efforts within fisher communities for sustainable fishing practices. SFMP carried out competency-based training with local marine police enforcement officers and worked closely with fisheries zonal officers at the community level to increase oversight and boost enforcement to reduce illegal fishing and other unsustainable fishing practices.

In this reporting period, 758 micro-businesses (92% female-led) received business development support services from the project, 1009 persons (68% female) received natural resources management training, and 1767 persons (785 female) received short-term agricultural sector productivity or food security training. In addition, over \$172,758 in private sector investments were leveraged to date.

On the non-governmental side, a national private sector partnership strategy was produced outlining a mobile phone-based fishers' communication and mobile money network (Tigo Fishers Network) and a separate micro-insurance program for fishers was designed that also links with fishers through mobile phones. Based on a learning exchange with the Philippines, an IUU community volunteer watch program was designed. MOUs were signed with the University of Cape Coast and University of Rhode Island at university and departmental levels. Engagements and capacity development with the National Fish Processors and Traders Association (NAFPTA) the Ghana National Canoe Fishermen's Council, the Ghana Industrial Trawlers Association and others showed great progress.

Against this background, significant changes in project context were apparent during the current reporting period at the national level. National elections were completed in late 2016 and resulted in a new minister of fisheries and aquaculture development. The new minister is implementing more open institutional approaches and taking affirmative actions including changing all high level management positions within the Fisheries Commission, SFMP's most significant national government partner, and pledging to reduce overcapacity in the fishing sector. There has been an observable increase in access and coordination between the operational divisions of the Fisheries Commission, and SFMP staff. The results of increased engagement are evident in the program highlights that follow.

Particularly important to note is an improved coordination and integration with the Fisheries Commission. Fisheries Commission senior personnel were invited and accepted invitations to join the annual SFMP core team work plan meeting, along with USAID, where they made presentations on specific needs and opportunities to integrate SFMP activities with Commission priorities. During this quarter, there has been an estimated 300% jump in individual program-focused meetings between SFMP staff and Fisheries Commission personnel. To encourage this trend across all areas of the project, numbers of weekly meetings between SFMP-Accra staff with all counterparts are now monitored in weekly SFMP staff meetings and weekly staff work plans. We expect that the results of increased coordination and communication with the Fisheries Commission (and MOFAD) will be more evident in the next quarterly report.

Also important to note in this quarter was a number of key staffing transitions, with a new Chief of Party coming on-board, as well as a new communications specialist and fisheries advisor appointments.

Table 2 below summarizes the standard USAID indicators showing results completed in FY 17 vis-a-vis targets. Significant deviations between results and targets are explained in Annex A. Annex A shows both USAID standard and custom project indicators.

Table 2 Summary of Results: Year 3 Quarter 3 (April 1 – June 30, 2017)

Standard Indicators	Baseline FY 2015	Annual Target	Annual Actual	Q1 FY17	Q2 FY17	Q3 FY17	Q4 FY17	Annual Performance Achieved to the End of Reporting Period (%)	On Target Y/N
Number of hectares in areas of biological significance and/or natural resource showing improved biophysical conditions as a result of USG assistance (EG 4.8.1-1)	0	10 hectares	0	0	0	0	N/A	0	
1a. Biomass to produce MSY (B_{msy}) (Project Indicator)	Baseline established	Stable /increasing (Assumes major management measures put in place)	2015 Biomass is low at B= 30,000MT. Biomass target for MSY set at 310,000 MT	N/A	N/A	2015 Biomass is low at B= 30,000MT. Biomass target for MSY set at 310,000 MT	N/A	2015 Biomass is low at B= 30,000MT. Biomass target for MSY set at 310,000 MT	No, without management measures being implemented over the next year, unlikely that biomass declining trend will change
1b. Fishing Mortality at MSY (F_{msy}) (Project Indicator)	Baseline established	Stable/decreasing (Assumes major management measures put in place (e.g. 2nd fishing holiday etc.)	2015 fishing mortality is $F=0.8$ which is very high. Rebuilding target for F_{msy} set at $F=0.3$	N/A	N/A	2015 fishing mortality is $F=0.8$ which is very high. Rebuilding target for F_{msy} set at $F=0.3$.	N/A	2015 fishing mortality is $F=0.8$ which is very high. Rebuilding target for F_{msy} set at $F=0.3$	A Trawler seasonal closure was put in place for Oct 2016 and Feb-March 2017 which should show some reduced effort in 2016-17 data. If additional measures e.g. closed season and/or second fishing holiday are adopted, F will decrease in 2017

Standard Indicators	Baseline FY 2015	Annual Target	Annual Actual	Q1 FY17	Q2 FY17	Q3 FY17	Q4 FY17	Annual Performance Achieved to the End of Reporting Period (%)	On Target Y/N
Number of agricultural and nutritional enabling environment policies completing the following processes/steps of development as a result of USG assistance in each case: (FTF 4.5.1(24)) 1. Analysis 2. Stakeholder consultation 3. Drafting or revision 4. Approval (legislative or regulatory) 5. Full and effective implementation	0	7 • Ankobra (CBMP) Step 3 • Densu(CBMP) Step 3 • Pra (CBMP) Step 3 • CLaT strategy – Step 4 • Fish Act –Step 2 • NMFMP-Step 5 • Co-mgt. policy – Step 4	<ul style="list-style-type: none"> • Ongoing • Ongoing • Ongoing • Ongoing • Ongoing • Ongoing • Ongoing 	N/A	N/A	<ul style="list-style-type: none"> • Ongoing • Ongoing • Ongoing • Ongoing • Ongoing • Ongoing • Ongoing 	N/A	<ul style="list-style-type: none"> • Ongoing • Ongoing • Ongoing • Ongoing • Ongoing • Ongoing • Ongoing 	Y
Number of institutions with improved capacity to develop and implement managed access fisheries mgt plans	0	16 Ongoing, NAFTA replaces FA	15	0	0	15	N/A	94%	Y
Number of days of USG funded technical assistance in NRM and/or biodiversity provided to counterparts or stakeholders (EG 4.8.1-28)	0	704	409	130	177	102	N/A	58%	N
Number of information products disseminated in local media reports, radio shows, conference papers, and research studies (Project indicator).	0	36	96	28	14	54	N/A	266%	Y
Number of hectares of biological significance and/or natural resources under improved natural resource management as a result of USG assistance (EG 4.8.1-26)	0	619,473 hectares	0	0	0	0	N/A	0	N
Number of DAs supported with USG Assit (Ghana CDCS, IR 2.3 indicator)	0	4 (Ongoing)	5 Ongoing	4	5 (1new, 4 ongoing)	5 Ongoing	N/A	125 %	Y
Number of climate vulnerability assessments conducted as a result of USG Assistance (EG 4.5.1)	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Standard Indicators	Baseline FY 2015	Annual Target	Annual Actual	Q1 FY17	Q2 FY17	Q3 FY17	Q4 FY17	Annual Performance Achieved to the End of Reporting Period (%)	On Target Y/N
Number farmers and others who have applied new technologies or management practices as a result of USG assistance (FtF 4.5.2)	0	100,000 (assumes national measure for small pelagics adopted)	N/A	N/A	N/A	N/A	N/A	N/A	
Number of micro, small and medium enterprises (MSMEs), including farmers, receiving business development services from USG assisted sources (FtF 4.5.2)	0	896	1,348 M-129 F-1219	251 M-49 F-202	339 M-19 F-320	758 M-61 F-697	N/A	150% M-10% F-90%	Y
Value of new private sector investments in select value chains (FTF 4.5.2-38)	0	Tracked, No target	\$ 35,931	\$0	S 19,237	\$16,694	N/A	100%	Y (Q3 data not received yet at time of reporting)
Number of food security private enterprises (for profit), producers organizations, water users associations, women's groups, trade and business associations, and community-based organizations(CBOs) receiving USG assistance (RiA) (WOG) (FTF 4.5.2(11))	0	4 (1 new-NAFTA)	4 ongoing	4	4 ongoing	4 ongoing	N/A	100%	Y
Number of members of producer organizations and community based organizations receiving USG assistance (S) (FTF 4.5.2(27))	0	TBD	1246 M232 F-1014	228 M-43 F-185	390 M98 F-292	628 M-91 F-537	N/A	100%	Y
Number of public-private partnerships formed as a result of Feed the Future assistance (S) (FTF 4.5.2(12))	0	1	1	0	1	0	N/A	100%	Y
Number of people receiving USG supported training in natural resources management and/or biodiversity conservation, and climate change, disaggregated by gender (EG 4.8.1-27/	0	1492	1,529 M-658 F-871	156 M-85 F-71	364 M-254 F-110	1,009 M-319 F-690	N/A	105% M-43% F-57%	Y

Standard Indicators	Baseline FY 2015	Annual Target	Annual Actual	Q1 FY17	Q2 FY17	Q3 FY17	Q4 FY17	Annual Performance Achieved to the End of Reporting Period (%)	On Target Y/N
4.8.2-6)									
Number of person hours of training in natural resources management and/or biodiversity conservation supported by USG assistance (4.8.1-29)	0	19,959	20,746	2,794	7,280	10,672	N/A	104%	Y
Number of individuals who have received USG-supported short-term agricultural sector productivity or food security training (RAA) (WOG) EG.3.2-1	0	1,987	2470 M-653 F-1817	0	703 M-273 F-430	1,767 M-380 F-1387	N/A	124% M-26% F-74%	Y
Number of individuals who have received USG-supported degree-granting agricultural sector productivity or food security training (RAA) EG.3.2-2	0	5 Continuing	5 continuing M-1 F-4	0	5 M-1 F-4	5 continuing M-1 F-4	N/A	100% M-20% F-80%	Y
Value of agricultural and rural loans as a result of USG assistance (RAA) (WOG) EG.3.2-6	0	\$30,497	\$10,514 M-\$0 F-\$10,514	0	\$8,372 M-\$0 F-\$8,372	\$2,142 M-\$0 F-\$2,142	N/A	34% M-0% F 100%	N
Number of micro, small, and medium enterprises (MSMEs), including farmers, receiving agricultural-related credit as a result of USG assist (RAA) EG.3.2-3	0	TBD	110 M-0 F-110	0	65 M-0 F-65	45 M-0 F-45	N/A	100 M-0% F- 100%	N/A

¹ This indicator is similar to the Feed the Future indicator: Number of rural households benefiting directly from USG interventions (FtF 4.5.2-13)

* Number of days of USG funded technical assistance in NRM and/or biodiversity provided to counterparts or stakeholders (EG 4.8.1-28) was revised to add SSG staff resident in Ghana (Nii Otoo)

* Value of new private sector investments in select value chains which was sent by insurance partners after submission of second quarter reports

*Number of members of producer organizations and community based organizations receiving USG assistance (S) (FTF 4.5.2(27)) data was revised to capture results after internal review was conducted at the end of the year.

2. SELECTED QUARTER 3 PROGRAM HIGHLIGHTS

IR 1: Strengthened Enabling Environment for Marine Resources Governance

Addressing Key Policy Issues in the Marine Fisheries Sector

Revision of the National Fisheries Act

The Ministry of Fisheries and Aquaculture Development initiated the process of revising and consolidating the fisheries laws of Ghana in 2014 with the overall objective of consolidating and modernizing Ghana's Fisheries Act to international standards and best practices. SFMP sits as a member of the Legislative Drafting Review Committee for this effort. During the 3rd Quarter, the committee completed its reviews of the Drafting Instructions for the Fisheries and Aquaculture Act. Outstanding issues identified included:

- The development of the new fisheries legislation is behind schedule.
- The Government Transition Report targets early 2018 for the new fisheries act to move to Parliament but this is looking unlikely because extensive stakeholder processes and consultations required before submission have yet to start. The minister needs to be briefed in order for the necessary next steps to be taken.
- There is an urgent need to socialize the drafting instructions with key industry players (aquaculture associations, capture fisheries associations, fish processor and trader associations) and leadership of Fisheries Commission divisions for further inputs.
- A briefing on the overall progress and needs for the minister is urgent to outline the tasks ahead and the costs of stakeholder consultations to move the act forward.

Following the committee meeting, SFMP partners and selected stakeholders met to discuss the status of legislative revisions by the Ministry. Copies of the drafting instructions were circulated among participants and reviews and inputs are being gathered to support further actions and will be fed back to the committee and Fisheries Commission counterparts.

Drafting and Adoption of a National Fisheries Co-Management Policy

In cooperation with the Fisheries Commission, SFMP provides significant support for the drafting of a national fisheries co-management strategy and policy. During this quarter, a fourth round of revisions to the co-management policy document was completed and a final round of public consultations and stakeholder engagements was scheduled for the August-September 2017. Once completed, the co-management policy will be submitted to MOFAD/Fisheries Commission for consideration by the end of Quarter 4. Parallel to development of the policy, SFMP has been supporting the demonstration of fisheries co-management in the Densu, Pra and Ankobra Estuarine Systems (see section on *Applied Management below*).

Strengthened Law Enforcement

Marine Police Competence-Based Integration for Strengthened Law Enforcement

SFMPs goal to contribute to rebuilding marine fish stocks through adoption of responsible fishing. To promote deterrence from illegal fishing practices, SFMP works with stakeholders to document, understand and address challenges with fisheries enforcement. During Quarter 3, fisheries cases and infractions from the year 2015 and 2017 were collated including fisheries observer reports, out-of-court settlements and arrests



Figure 1: CCM extension officer facilitating fisheries leadership training course

This provided a platform to assess the change of enforcement performance between the two years. Analysis of the data revealed continuing challenges including weak capacity to prosecute fisheries cases, weak coordination of agencies, and high political interferences in cases and a rise in reported illegalities was observed. Fishermen attribute this rise to the lack of enforcement and prosecution. They believe that when fishers who indulge in illegal fishing practices face the full arm of the law, it will contribute immensely to the implementation of fisheries management measures as well as encourage actors who are ready to commit to responsible fishing.

Fisheries Watch Volunteers Program

The joint committee of fisheries stakeholders, Fisheries Commission, MoFAD and SFMP completed preparatory activities and strategies towards the inauguration on 5 May 2017 of the Fisheries Watch Volunteers (FWV) program at Otokpe, Ada East District. As both a positive sign of the attention this program is getting and the potential challenges it faces, the launch event was marred by riots and disruption by fishermen from Akplabanya in the Ada West District because community persons associated with the watch program from Prampram had attempted to arrest some of the fishermen for light-fishing. The aggrieved and rioting fishers insisted light-fishing was the only means to capture fish at this time and that they will only cease their activities when the MoFAD/FC have curtailed the illegal fishing activities of foreign trawlers, which they said impacted their own livelihoods. They insisted the establishment of the FWV will further impact on their already diminished source of livelihood.

As a result, the launch event was only partially successful as the minister inaugurated the FWV groups amidst tension and significantly different press coverage than planned. Equipment – cameras, binoculars, communication gadgets and other materials procured by SFMP for effective execution of FWV activities could not be presented at the ceremony.

The leaders of the group later publicly apologized to the minister for their behavior and the independent implementation committee decided to move forward with plans to establish two FWV groups each in the Volta and Western regions in the next quarter. This decision was taken as a result of further calls from the fisherfolk in these other regions to establish the FWV which they see as a good initiative to help curb illegalities in Ghana's fishing sector. It is expected that by the end of the first quarter of Year Four, all the four coastal regions will have FWV groups. The co-management policy framework and the revision of the national fisheries act being developed/revised with support from SFMP will providing adequate space for the establishment of these fisheries co-management groups. However, lessons learned have moved SFMP teams to review with the Fisheries Commission the operational guide that will be used by the Fisheries Watch volunteers in execution of their work.

Harmonizing Regional Fisheries Policies

SFMP continues to coordinate project activities with inter-governmental fisheries science and management bodies including the United Nations Food and Agricultural Organization and the Fisheries Committee for the West Central Gulf of Guinea. During the current reporting period, SFMP worked with the UCC College of Environment and Life Sciences to complete collection of samples of round sardinella (*S. aurita*) and flat sardinella (*S. maderensis*) that will form the basis for a stock discrimination assessment delineating the population structure for these species and Ghana's role in coordinating with other countries to restore these important straddling stocks. Comparisons of DNA from 12 countries (Morocco, Senegal, Mauritania, Guinea-Bissau, Liberia, Côte d'Ivoire, Ghana, Nigeria, Togo, Gabon, Congo, and Angola) will be analyzed at URI. The study is one part of SFMP's capacity building activities with UCC, as a graduate student enrolled at URI will process samples and address other research questions relative to issues of regional management of these fish species, vitally important for food security in the region. The final results will be available in Year 4 and will inform on management of small pelagics within the EEZ of Ghana, as well as for these species across all countries of the Fisheries Committee for Eastern and Central Atlantic (CECAF).

Reducing Child Labor and Trafficking in Fisheries

Behavior Change Campaign on Child Labor and Trafficking (CLaT)

While child labor and trafficking occurs all over Ghana, the Central region where SFMP works are major sourcing areas for children due to the high poverty and large family sizes in coastal villages. SFMP is implementing prevention campaigns in this area. Six (6) radio discussion programs were held to promote information sharing and sensitization on CLaT and included resources persons from the Ghana Police Service, Ghana Immigration service, and Ghana Education Service. Community advocates supported community education about the legal, social, physical and psychological implications of CLaT for children and encouraged participants to work toward make CLaT socially unacceptable among families, traffickers, and users. The police hotline for CLaT reporting (199 & 1855) was provided to communities to promote voluntary reporting and subsequent arrest and prosecution of perpetrators. The implications of Ghana's current rank of Tier two on TIP watch list was discussed in meetings and public events to encourage stakeholder collaboration to address CLaT and raise the urgency of the issue in terms of political support. In addition, a national anti- child labor and trafficking strategy for the fisheries sector has been submitted to the Minister of Gender, Child Protection and Social Welfare and is pending approval.

Support to Child Protection Committees and Social Welfare Dept.

Records available from Ghana's Ministry of Gender and Social Protection estimates that over 2 million children in Ghana are estimated to be in child labor. Also, Ghana was ranked at Tier 2 level in the U.S. Trafficking in Persons (TIPS) watch list by the US State Department for the second year in a row. Poverty, weak institutions and poor institutional coordination and ignorance are some of the key underlying factors supporting high Child Labor and Trafficking (CLaT) issues in Ghana. SFMP focuses on prevention of child labor and trafficking by working with stakeholders and government agencies through a behavior change communications campaign to make the practice socially unacceptable and thereby reduce its occurrence.

A three (3) day capacity strengthening training program was held in June 2017 for 73 participants (27 females and 46 males) from the department of Social Welfare and the District Child Protection Panels/Committees (DCPCs). This brings to a total of 120 persons (40 females and 80 males) trained in Year 3 on anti-CLaT approaches directly contributes to strengthened social welfare and DCPCs which were identified as weak by an earlier assessment. The training supported the development of DCPC action plans for the identification and prevention of CLaT cases at the district level. The training was facilitated institutional linkages and coordination between police and immigration departments, CSOs, and the media through a facilitated peer-to-peer learning process that now has been adopted by the Districts Assemblies to scale-up efforts to reduce Child Labor and Trafficking (CLaT) in Ghana.

In Quarter 3, SFMP implementing partners supported formation of community-based Anti-CLaT Advocate and Community Child Protection Committees (CCPC) in the Central Region. These groups work with the community members to understand the need to protect their children from child labor and trafficking, and how to identify potential traffickers. In Quarter 4, house-to-house sensitization programs will be rolled out to help create awareness of the dangers of CLaT in high-risk communities. A one-day forum on child labor and trafficking with traditional leaders and opinion leaders was held on in May with 37 participants (15 females) to build capacity among community leaders and district assembly members in the various landing fishing communities in Apam.

In the Central Region, Elmina is one of the vast landing sites that accommodate a high degree of fisherfolk, including migrants. As a result, children travel along with their families to Elmina to fish as well as process fish. This makes Elmina a source and receiving community of child labor and trafficking. In order to spread the information about CLaT issues, anti-CLaT advocates organized a three-day mass street awareness event at Elmina to spread the information on Child Labor and Trafficking. An estimated 400 community members were reached, and the CLaT street drama performance drew intense emotion from community members who were present.

Weekly radio programs serve as an effective tool covering the entire coastal region with anti-CLaT messages as part of the national media advocacy campaign for anti-CLaT in the fisheries sector. A live national radio advocacy program was hosted by StarrFm 103.5MHz during their peak hour morning discussions to ensure it reaches as many people as possible across the country. StarrFm also operates a live online broadcast and twitter news feed for international coverage. This ensured that Ghana's anti-CLaT efforts received the broadest attention possible. Also, increasing coverage, the campaign was broadcast live on four other radio stations across the country (Ultimate Fm 106.9MHz- Kumasi, Empire Radio 102.7MHz -Takoradi, and starrfonline.com and also with live news feed on StarrFm twitter page at @starr1035Fm with a hashtag of #SimplyTheBest).

SFMP implementing partners provided inputs into the National Plan of Action (NPA) for the elimination of human trafficking 2017-2021 as part of stakeholder consultations on the development of the National Plan of Action organized in March 2017 by the Ministry of Gender,

Children, and Social Protection. These inputs focused on the integration of the prevention strategies developed in the policy document on anti-CLaT into the fisheries sector. SFMP continues to support the NPA and if approved by government it will be the first NPA in Ghana on human trafficking.

In an effort to coordinate national stakeholders and government agencies in eliminating CLaT in Ghana, the SFMP anti-CLaT team reported all anti-CLaT preventive activities carried out in 2016/2017 to the human trafficking secretariat. The secretariat circulated a template for reporting human trafficking related activities for 2017 as part of its efforts to collate national data relating to human trafficking to enable Ghana to provide evidence of increased efforts to combat severe forms of trafficking. The data collated will help improve on the US State Department Trafficking in Persons (TIP) tier rankings. Currently ranked as a Tier 2 Watch List country, the government does not fully meet the minimum standards for the elimination of trafficking in persons and failed to provide evidence of increasing efforts to combat severe forms of trafficking.

The SFMP anti-CLaT team joined stakeholders in supporting a durbar in Apam recognizing World Anti-Child Labor Day. Attended by over two-hundred members from the Apam community and its surroundings, the event also included high profile persons such as the Member of Parliament (MP) for Gomoa West, Mr. Alexander Kodwo Kum Abban, the District Chief Executive of Gomoa West, Mr Bismark Baisie Nkum and paramount chiefs from the Western Region. The SFMP program was represented by the Chief of Party, Mr. Maurice Knight, who addressed the community and the country through extensive press coverage, highlighting the need for urgent pragmatic steps to address the problem in Ghana.



Figure 2: Eric Tawia, a victim of child labor trafficked to Yeji from Mumford (Central Region), who now serves as Anti-CLaT Advocate, speaking at the World Day Against Child Labour on 13TH June 2017 in Apam

The durbar and associated activities were covered by 14 media outlets from across the country. Nine of these outlets were radio stations out of which 6 aired the program live and 3 aired detailed coverage the day after. The program was also broadcast in the evening news of 3 TV stations; UTV, TV Africa and Angel TV. Online news publications also covered the event (see following weblinks).

<http://citifmonline.com/2017/06/15/us-threatens-to-cut-aid-to-ghana-over-child-labour-menace/>

<https://www.ghanabusinessnews.com/2017/06/15/ghana-risks-losing-donor-support-from-us-to-fight-child-labour-usaid/>

<http://www.ghananewsagency.org/social/sfmp-starts-with-world-day-against-child-labour--118105>

IR 2: Science and Research Applied to Policy and Management

SFMP Scientific and Technical Working Group

Ghana's small pelagic fishery is already collapsing according to numerous scientific reports, landings data and observations from fishers. Science-based decision making is weak and data is historically lacking. This directly reduces the effectiveness of fisheries management in Ghana and compounds challenges to effective action in linked areas such as economic development planning, planning for social safety nets, and political action. The canoe fishery's annual *sardinella* catch plummeted to less than 30,000 metric tons in 2015 from a high of 120,000 metric tons almost two decades ago. Driven by the lack of scientific data, weak governance, overcapacity and an open-access fishery caused this crisis and are not being effectively addressed. At risk are the livelihoods of more than 160,000 Ghanaians directly engaged in the fishery sector and national food security as these stocks are one of the most important high-quality low-cost protein sources nationally and regionally. Addressing the need for scientific information to support action, SFMP supported a Scientific and Technical Working Group to produce a report on the *Status of Small Pelagics Stocks in Ghana 2015* which outlined this crisis.

Estimated biomass of total small pelagic species in Ghana declined sharply following the trends of landings. Recent levels have reached the lowest point over the period between 1990 and 2015. (Figure 2). This represents about 12% of the biomass needed to maintain sustainable exploitation of the stock. The recent Fridjof Nansen research acoustic survey conducted in April 2016 in the waters of Ghana estimated similar levels of biomass for small pelagic stocks, noting a possible collapse of the *sardinella* stocks (Nansen 2016). Fishing mortality, a measure of excessive fishing effort, also showed increases in the level of overfishing, another alarming trend (Figure 3).

The report, just released, concluded the following:

“The STWG concludes that current fishing effort is well beyond the level of sustainability for the small pelagic stocks. In the absence of effort control measures, stocks will continue to decline with diminishing economic returns leading to further deterioration of social conditions in fishing communities. It is common for small pelagic species (forage species) to be more prone to rapid collapse than for other types of marine fishes due in part to their rank in the food web and their response to environmental conditions. These fish occupy a very special position in food webs, ensuring energy transfer between species lower and higher levels, while forming a narrow range of species richness. The collapse of the pelagic stocks have a domino effect on both higher and lower trophic species.”

(STWG, 2017)

During the current report period the final draft of the *Status of Small Pelagics in Ghana 2016* was completed and will be finalized in Quarter 4 in collaboration with the Fisheries Science and Survey Division (FSSD) of the Fisheries Commission. Data gathered through the pilot demonstration of mobile collection of landings data will support this and future editions of this important report. Discussions are planned for Quarter 4 on the expansion of the mobile landings data collection with FSSD. When completed, the 2016 status report will inform SFMP's intensified focus on fishing capacity reduction in Year 4.

During Quarter 3, the STWG also reviewed the stock assessment report of the demersal fish stocks in Ghana. The stock assessment was based on the catch and effort data for four key species selected as indicators of the demersal fish complex. Preliminary results showed that the demersal fish stocks are overfished and overfishing is continuing as a result of increased fishing effort and efficiency (bigger boats, bigger engines, more extensive and unsustainable net usage, etc.). Among the fish being caught, average fish size is dropping as result of overfishing and lack

of selective gear. With SFMP support, a trawler closed season was implemented in 2016 and anecdotal information from fishers indicated a significant increase in catch afterwards.

The SFMP team is strongly recommending to MOFAD/Fisheries Commission for the institutionalization of a seasonal closure by the trawl fleet as well as for all fleets by. Given greater access and closer working arrangements under the new minister, the SFMP team is optimistic that progress will be made on an institutionalized closure in Year 4. In Quarter 3, the STWG updated its recommendations for a closed season to rebuild all small pelagic fish stocks. The resulting recommendations were submitted to the Fisheries Commission and discussed with stakeholders during SFMP’s Fisher-to-Fisher (F2F) dialogues.

The STWG was convened initially with the objective of formalizing its structure and operation under the Fisheries Commission. With the new minister and senior management, efforts to formally recognize the STWG will be renewed in Quarter 4.

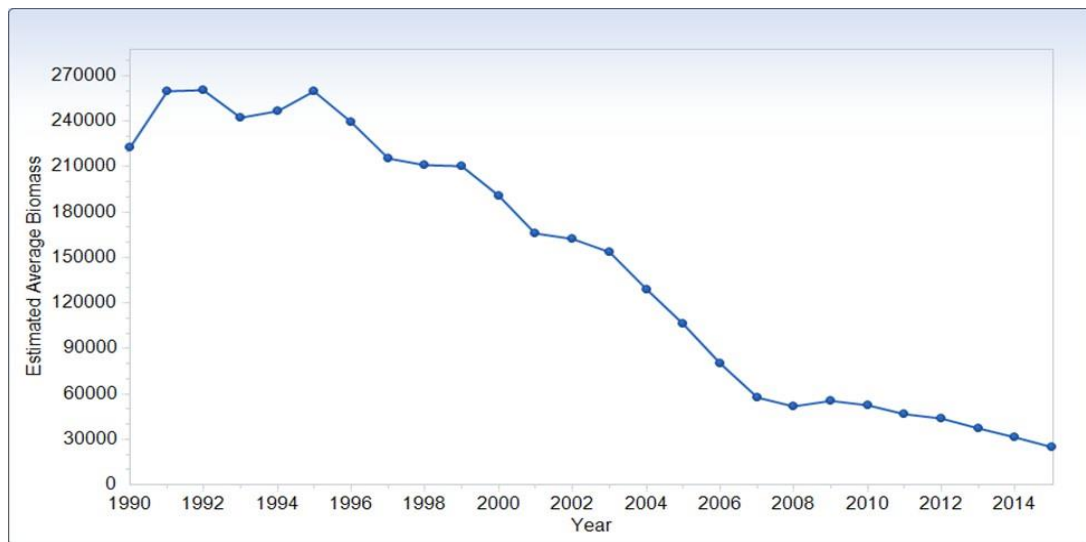


Figure 3: Biomass trends of small pelagic fish stocks (Sardinella, Anchovies and Mackerel) in metric tons from 1990 to 2015 in Ghana.

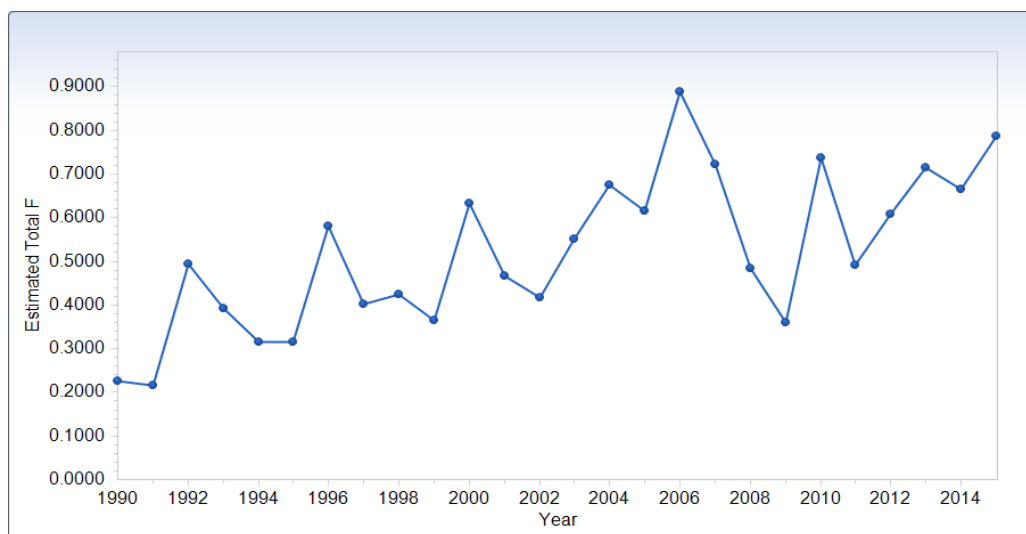


Figure 4: Trends of Fishing Mortality of small pelagic stocks (Sardinella, Anchovies and Mackerel)

ICT Innovations for Fisheries Management

In Quarter 3, SFMP received a proposal from the USAID Global Development Lab, outlining potential avenues for the Lab to support SFMP in reaching key objectives related to harnessing information and communications technology (ICT) for sustainable fisheries management. The proposal builds on the work of the USAID ICT consultant that was embedded with SFMP in September – October, 2016. The SFMP team reviewed the proposal in cooperation with USAID and met with the Lab via Skype to discuss possible ways forward. SFMP is currently working with the Lab to develop a detailed scope of work that furthers SFMP objectives and identifies potential innovations for Ghana with the expectation that the SOW will be in draft form in Quarter 4.

UCC/DFAS Capacity Development

Fisheries Leadership Course

SFMP supports a leadership program to support existing and emerging leaders in Ghana's fishery system. In Quarter 3, SFMP collaborated with UCC to organize a fisheries leadership training program for co-management committee members from the Pra and Ankobra co-management pilot areas. Extension officers from UCC/CCM facilitated the five (5) day program for twenty-nine (20 male and 8 female) participants, including representatives from the Fisheries Commission. Participants were taken through leadership courses, team building exercises and behavior change techniques training to equip them with the skill and knowledge to engage community members and other direct stakeholders in fisheries management. Particular emphasis was placed on co-management concepts and approaches to engage their respective communities to create, revise or otherwise update community fisheries management plans.

UCC High-level Delegation to URI

Following the signing of the MOU between URI and UCC to strengthen ties between the two institutions, a high-level delegation traveled from UCC to URI to explore a wide range of additional opportunities to collaborate in areas beyond fisheries and oceanography, including business and pharmacy. The new appointed chancellor at UCC visited URI April 26-28, 2017 along with a team of deans and faculty from various UCC departments. The visit focused on establishing guidelines for implementation of a graduate dual-degree program between CELS and DFAS in areas of fisheries, ecology and environmental sciences. The group discussed and completed plans of research and studies for five PhD students expected to attend one semester at URI during the Fall-2017 semester. SFMP will sponsor tuition, fees and logistics while UCC is sponsoring travel, housing and stipends. The deans of the UCC's business pharmacy and engineering departments met with their counterparts at URI to explore opportunities of collaborations. URI curricula from the various URI departments were shared with the UCC team. The UCC delegation was composed of the following attendees:

- Prof. Joseph Ghartey Ampiah - Vice-Chancellor
- Prof. Isaac Galyuon - Chairman, Project Management Board and also Provost, College of Distance Education
- Dr. Denis Aheto - Project Manager and also Staff of the Department of Fisheries and Aquatic Sciences
- Dr. Noble Asare - M&E Coordinator and also Head, Department of Fisheries and Aquatic Sciences
- Prof. Johnson Nyarko Boampong - Dean, School of Biological Sciences
- Prof. Ernest Okorley - Dean, School of Graduate Studies
- Prof. Edward Marfo-Yiadom - Dean, Business School
- Prof. David Essumang - Dean, School of Physical Sciences

Private Sector Partnership for Applied Cuttlefish Research

Three major species of cuttlefish have been identified in Ghana; *Sepia hierredda*, *Sepiella ornata* and *Sepia bertheloti*. As a major export product, *Sepia* is a species of interest to Ghana Industrial Trawlers' Association (GITA) and important for local and export economies. Little is known in Ghana about life cycle of the species and location of breeding grounds that can contribute to science-based management. SFMP supports cooperative research initiatives with costs shared between SFMP, the Ghana Industrial Trawlers Association (GITA) and the University of Cape Coast (UCC). This simultaneously builds UCC capacity for applied research and demonstrates the opportunity for public-private partners around issues that have domestic economic importance.

During this quarter, GITA provided the funding for the tagging of 80 cuttlefish with UCC committing to handle the actual tagging, recapture, and monitoring; An SFMP NGO implementing partner, Hen Mpoano, leads the communication and mapping activities. The Ghana Inshore Fisheries Association (GIFA) has now offered the use of vessels for additional tagging trips. In addition to the 80 cuttlefish tagged, several trips were included deployment of underwater cameras to locate cuttlefish spawning grounds and presence of eggs on the collectors, also deployed by the UCC researchers.

Collectors were built to serve as an aggregating device to attract cuttlefish to spawn. Designed after input from fishermen based on local knowledge, these were deployed in three coastal communities in the Central Region- Mumford, Cape Coast and Elmina based on preliminary surveys. Twelve collectors were deployed at each site and are being monitoring weekly. Results of this research will be reported in future quarters.



Figure 5: Cuttlefish spotted cruising on the breeding grounds

Acquisition and Operational Planning for an Advanced Unmanned Aerial Vehicle

In June, SFMP completed the purchase of a fixed-wing unmanned aerial vehicle (UAV). The manufacture of the UAV is now underway. The delivery of the aircraft and training by the vendor, C-Astral Aerospace, based in Slovenia, will take place in the Cape Coast region in Quarter 4 on September 25-29, 2017. Trainees will be from the University of Cape Coast, Center for Coastal Management, Hen Mpoano. Training will be overseen by the staff from the

University of Rhode Island. After the training, the newly trained pilots will schedule to obtain licenses from the Ghana Civil Aviation Authority. The acquisition of the UAV is a major milestone in implementing the agreement reached with the University of Cape Coast in Quarter 2 to establish the capacity to acquire, process and share digital imagery among relative authorities, and to advance the objectives of UCC itself. Once pilots are licensed, UCC will immediately share its new capacity with SFMP, the Land Use Authority, and the USAID Coastal Sustainable Landscape Project (CSLP), all of whom have pending imagery and mapping needs related to their ongoing projects. Coordination between SFMP and CLSP enables linked mapping of sensitive coastal and fisheries habitats and builds on the GIS capacity created by SFMP engagement, particularly in its implementing partner, Hen Mpoano.

Environmental Planning Data Hubs

Participatory Development of ICM Tool Kits and GIS Training

Planners from the Central Region Town and Country Planning Department (TCPD-now the Land Use Authority) were trained in field exercises on data collection, mapping and analysis as part of the development of integrated coastal management (ICM) tool kits for the Central region. They collected mapped and analyzed data from the Iture wetlands and immediate shoreline environment in the Central Region. SFMP staff introduced shoreline type mapping, mapping elements at risk to sea erosion, flood extent mapping and analysis of vulnerability. Planners developed an increased understanding of the uniqueness of coastal environments and processes and how these can be taken into account in addressing hazards and climate change issues in land use planning along the coast. Planners actively identified and mapped existing coastal erosion areas, areas of mangrove (fisheries) habitat degradation, areas of rapid physical development in wetland areas, areas of increased flooding and other issues related to shoreline geomorphology. These field exercises provided planners the opportunity to apply new GIS skills acquired during an earlier training. Particularly important were resulting discussions on how the Land Use Authority will incorporate these new skills into permitting and other responsibilities of the Authority.

An additional 3-day training of 23 technical officers and planners was conducted to introduce intermediate-level GIS capabilities using the Quantum GIS open source software. This enhanced skills and knowledge acquired during the ICM toolkit development using advanced planning tools and state-of-the-art equipment. Participants were introduced to new data acquisition and analysis techniques using Google Earth Pro.



Figure 6: Intermediate GIS Training of Using State of the Art Equipment and Tools

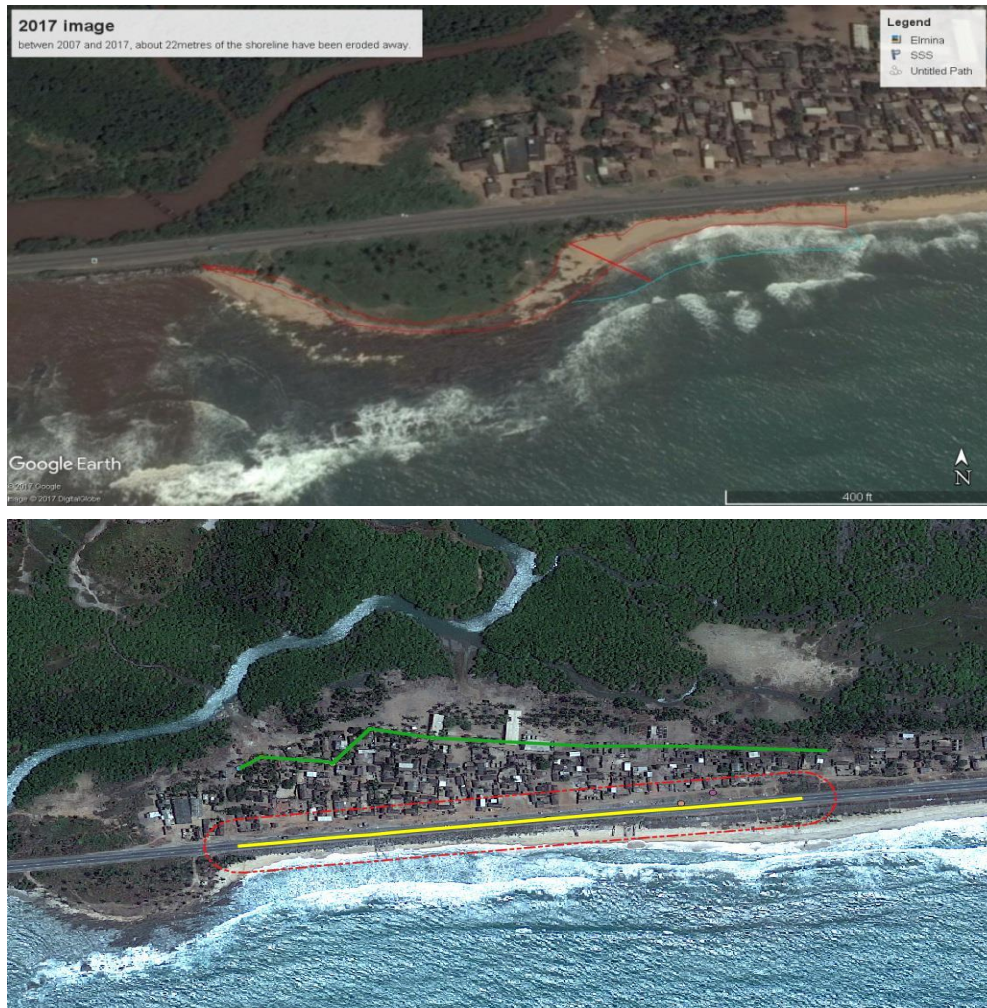


Figure 7: Maps of Shoreline Erosion & Flood Prediction Maps Produced During Training

IR 3: Creating Constituencies, Stakeholder Engagement and Political Will

During Quarter 3, SFMP supported the directly participation of 2,493 people through national resources management training, MSME education and VSLA participation, dialogues at regional, district and community levels, and direct viewing of videos and participation in Anti-CLaT activities. In addition, SFMP supported and/or participated directly in 26 radio programs, 2 full length newspaper feature stories, and supported 23 separate news items. Two-hundred copies each of factsheets, success stories, and issues briefs were produced and distributed to stakeholders highlighting key issues. One-hundred copies of the national marine fisheries management plan were produced and distributed to stakeholders. The SFMP quarterly newsletter continues to serve as another important channel of disseminating key information. Factsheets address questions and issues frequently encountered in interactions with stakeholders. An eight-page newsletter was developed and will be printed early in Quarter 4 that covers Quarters 2-3. To date, the SFMP has uploaded 141 project documents online on http://www.crc.uri.edu/projects_page/ghanasfmp/ and [Ghanalinks.org](https://ghanalinks.org) at <https://ghanalinks.org/elibrary> search term: SFMP. The newest documents will also be uploaded to USAID's DECS.

Measures of products produced and distributed and persons directly engaged do not capture those reached through mass media such as television and radio programs. Most of Ghana's coastal population and much of the non-urban population are relatively illiterate. As a result, SFMP uses an effective mix of media to broader awareness of issues and encourage political support for action related to sustainable fisheries management.

Messages have been broadcasted through the Mnotify platform to inform project stakeholders of project activities such as the World Oceans Day and international day against Child Labor and trafficking. Communication team has distributed press releases and provided media coverage to major events such as the Oceans Day celebration and official launching of Fisheries Watch Volunteer Program. Through the use of the Mnotify platform more than two hundred stakeholders were reached with regularly broadcast project messages both in SMS and voice messages delivered in both in English and local languages of the coastal fisherfolk.

SFMP's extensive activities are producing an extensive dataset of stakeholders in the fisheries sector. The CiviCRM contact management system used by SFMP is evolving to include more than 4000 individuals and 110 organizations. This includes phone contact information for 3000 of these persons along with about 400 email addresses. The CiviCRM data base is being increasingly used to obtain additional descriptive information about the fisheries sector stakeholders will be used in an expanded IEC campaign in Year 4. As SFMP increasingly integrates its IEC program with that of the Fisheries Commission, this extensive set of contacts and information will form a useful tool including for application through text messaging and broadcast emails during the remain period of SFMP and afterwards. Illustrating the extent of SFMP contacts are findings from the [Baseline/Year 2 Report](#) shown in Figures 8 and 9 below.

We expect that Year 3 data will indicate that efforts such as the F2F Dialogues and other community level engagement by SFMP's implementing partners are continuing to make progress in reaching the stakeholder network.

In addition, the analysis shows the expanding reach of SFMP's network of stakeholders and reveals that just 25 people in the network combined, have face to face relationships with 3,014 of these individuals.

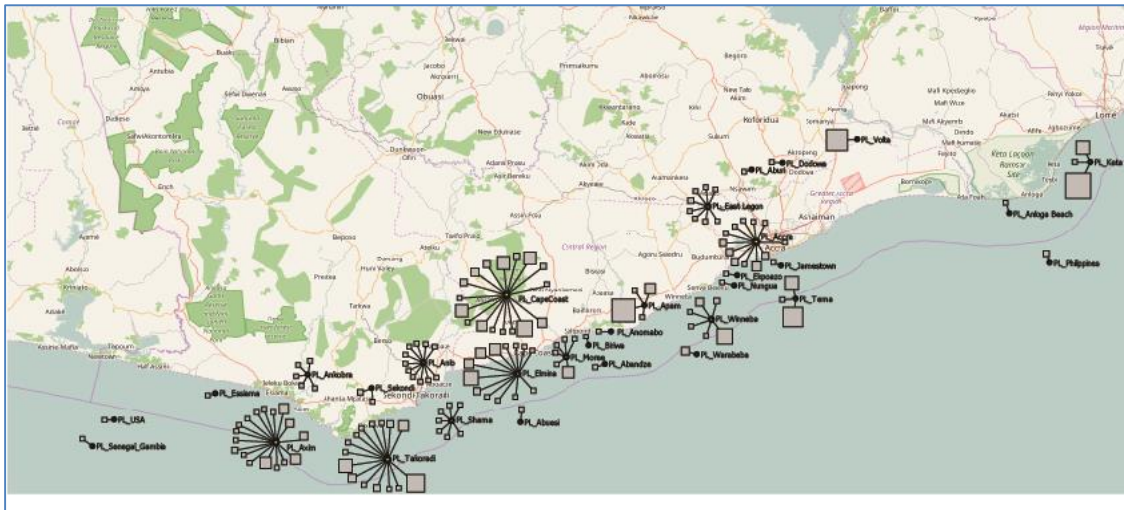


Figure 8: Relative geographic distribution and size of Year 1 and 2 SFMP events

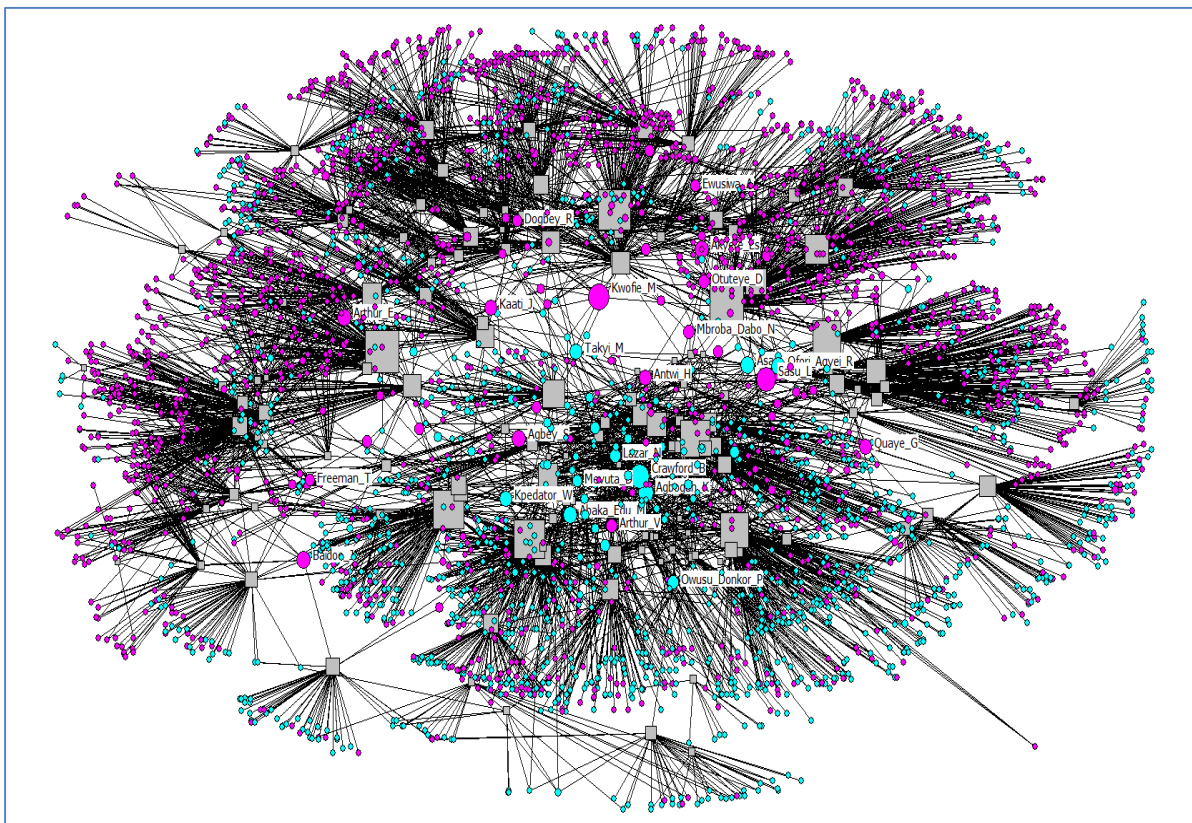


Figure 9: Complete Year 1 and Year 2 SFMP network- 3,575 event participants

(Grey boxes are events, pink dots are female, blue dots male participants. Dot size an indicator of relative importance of individual in the network. Named dots are most highly connected individuals.)

Fisherman-To-Fisherman (F2F) Dialogues – An Environment for Participation

SFMP supported numerous engagements in which dialogue among local artisanal fishers to enable them to discuss policy and management issues related to the artisanal (and others) fisheries sector. The objective of this support is to create safe environments in which fishers can discuss and share information among themselves about important issues, particularly ongoing revisions of laws and policies. Issues that featured in the resulting discussions included the

ongoing revision of the national fisheries act and representation of fisherfolk on the Fisheries Commission governing board. Fishers noted that government representatives on the Commission have crowded out direct representation of all sector actors, (offshore and inshore trawlers, canoe fishermen, fish processors and fish farmers). They called for a greater presence of direct fisherfolk representation on the board so that meaningful participation and stakeholder representation can take place. To enable more effective dialogue, SFMP made available for distribution and study by the leadership of the fishers' association fifty copies each of the Fisheries Act 625, Amendment 880, LI 1968 and LI 2217. Also emerging in discussions were requests that legal services be provided to help fishers understand and represent themselves effectively within a process that otherwise could potentially exclude them. SFMP plans to immediately increase its outreach and education related to ongoing revisions to fisheries laws, regulations and policies, and to increase its funding to the F2F dialogue process, in response to the positive results of the F2F support.

Recognizing the value of the SFMP supported dialogues; fishers in the Volta region have formed a welfare committee to support their own local dialogue meetings. Each fisher makes a monthly contribution of GhS20 to the committee and monies are drawn from the coffers to sponsor monthly executive and community meetings to deliberate matters concerning their livelihoods. Chief fishermen take turns hosting meetings with support of GHc200 drawn from the fund for each meeting with any additional costs incurred being borne by the host. This model is drawing attention chief fishermen in other regions. Notably, these dialogues are improving collaboration among the two key Associations (GNCFC and NAFPTA) whose represent directly those whose livelihoods depend on the fish stocks. New cooperation is emerging in terms of organizational cooperation to help curb illegal fishing activities and support for seasonal closures and new fishing holidays (days during the week when fishers do not fish).

Taking advantage of World Oceans Day, SFMP supported a large public event led by traditional leaders and senior government representatives in Shama Apo District, Western Region. The event attracted over 500 people including four paramount chiefs, twenty-five chief fishermen and fisher group representatives, representatives of the GNCFC from the each of the four coastal regions, 30 women representatives of NAFPTA from across all coastal regions, representatives from the Fisheries Commission and academia and many local community residents. Emerging directly from the F2F dialogues were commitments from artisanal fishermen and women pledging their support to the Ministry of Fisheries and Aquaculture Development and the Fisheries Commission in their efforts to help rebuild the declined fish stocks. Traditional leaders pledged their support for adopting Sunday as an additional non-fishing day (holiday), in addition to the existing Tuesday. They suggested that such an initiative be implemented toward the end of the year to give ample time to sensitize fishers through local traditional channels. Prominent in many of the presentations by traditional leaders were their pledges to eradicate child labor and trafficking (CLaT) through the enforcement of existing traditional laws in their respective communities. The large presence of traditional leaders and their commitments at this event reflects SFMPs plans to increase the participation of traditional leaders, especially chiefs, in Years 4-5 of the program.

The SFMP supported F2F dialogues are creating a space for dialogue among members of the entire artisanal fisher value chain, improved the relationship between the FC and the fisherfolk, and is seen as an important contribution for building the capacity of the fisherfolk while developing their sense of ownership of the fishery resource. Expanded SFMP engagement of traditional leaders is expected to provide the needed support to successfully implement the National Fisheries Management Plan and related policies such as the co-management policy being developed with support from SFMP.



Figure 10: Head of the National Fish Processors and Traders Association, a majority female organization, declaring their commitment to say no to bad fish (above) and a skit on the importance of not overfishing (below).

Fish Processors' Group Sensitization and Training on National Fisheries Management Plan

Fish processors who are predominantly women processors participate less in key decision making in their various fishing communities. These women often lack the requisite knowledge

and information on the subject being discussed. Ninety-seven (97) fish processors (of whom 3 were males) in Winneba have participated in a one-day sensitization forum on 7/6/2017 to familiarize themselves on the Ghana Fisheries Management Plan which was gazetted in 2015. The objective is to strengthen participatory decision making in fisheries through the knowledge gained from the sensitization workshop which focused on areas such as Ghana's fisheries sector, status of fish stock exploitation and key management measures addressed in the management plan. The knowledge gained by the fish processors built their capacity to reinforce responsible fishing practices and challenge fishermen on unsafe fishing practices such as light fishing in their communities. This is an ongoing activity and close monitoring would be done to access the overall acceptance of the implementation of the management plan in these communities.

Meetings with GNCFC and NAFPTA National Executives on the Implementation of the NFMP

Project team members conducted meetings with the national executives of the Ghana National Canoe Fishermen Council (GNCFC) and the National Fish Processors and Trader Association (NAFPTA) on the content of the National Fisheries Management Plan. These meetings provided the platform for thirty 30 (male) national executives of GNCFC and 40 (women) national executives of NAFPTA to discuss and understand their roles and responsibilities for implementing the plan. The meetings provided the opportunity for executives of the two associations to identify key compliance actions that they will spearhead to support the implementation of the plan. These include such actions as community communication meetings, dialogue meetings with the Fisheries Commission, local assessments for capacity reduction of canoes, additional fishing holiday consultations, and other measures. A six-month action plan was developed by both associations to monitor and support the implementation of the NFMP to rebuild marine fish stocks that will contribute to food security of 2.5 million Ghanaians.

IR 4: Applied Management

Implementing the National Marine Fisheries Management Plan

Ghana's five-year National Fisheries Management Plan sets out key management measures including; introduction of close season, introduction of fishing effort reduction measures and additional fishing holidays for artisanal fishers among others. The successful implementation of the plan will contribute to end overfishing and promote the rebuilding of the marine fish stocks especially the small pelagics. However, key stakeholders (GNCFC, NAFPTA, CSOs) have raised concerns about the fishers' lack of in-depth knowledge and understanding of the content of the NFMP. This gap in sensitization provides room for the fishers to resist management measures which could lead to the failure of the plan to achieve its objectives.

Regional Stakeholder Meetings on NFMP in Volta, Central and the Greater Accra Regions

Three regional fisheries stakeholder meetings were held in the Volta, Central, and the Greater Accra Regions on NFMP implementation. The NFMP is the main fisheries management document guiding fisheries management actions in Ghana and stakeholder support is critical for political will and implementation. The meetings provided a platform for the Regional Fisheries Commission officers to explain the content of the NFMP and also address fishers' concerns about the implementation of the plan. Participants discussed and outlined key responsibilities of stakeholders to support the successful implementation of the NFMP and expressed concerns on full implementation. Key concerns and suggestions from these meetings include:

- The need to have two uniform fishing holidays across the entire coast of Ghana to avoid potential conflict and confusion, and to promote uniform compliance among fishermen
- The need to involve traditional leaders to help change traditional fishing holidays in the respective regions to the agreed days of Tuesday and Sunday

- The need for the Fisheries Commission to complete registration of all remaining canoes before followed by a setting a date for moratorium on new entry of canoes for marine fisheries
- The need for increased communication on a moratorium on new entry of canoes in all regions (esp. Greater Accra and Central region) to promote compliance
- The need for the Fisheries Commission to provide training on appropriate permanent embossment of canoes when registered
- The need for fishermen (led by the chief fishermen) to conduct a census of all unregistered canoes in their respective communities and communicate these to the Fisheries Commission to support full canoe registration

In Quarter 4, SFMP will begin discussing the best ways to provide support to complete full canoe registration with the end of the calendar year as a target date.

Increased Voluntary Compliance by Stakeholders with NMFMP and Anti-IUU Efforts

Ensuring behavioral change and achieving high compliance with fisheries regulations requires continuous and sustained communication and advocacy. SFMP supports the adoption of responsible fishing practices in the Western, Central, Greater Accra and Volta regions of the coast. Key messages include the negative implications of IUU fishing on fish stocks, livelihood, food security and survival of fishing families. Household surveys done early in SFMP revealed that more households have televisions than have radios, while radios still are a significant mode of information delivery. In Quarter 3, national television events were held to reach a wider audience with key messages on the negative impacts of IUU fishing. Participation of the Chief fisherman of Prampram in the television discussion highlighted the role of fisherfolk leaders in the fight against illegal fishing practices.



Figure 11: SFMP Senior Fisheries Advisor, Kofi Agbogah, and Paramount Chief on GTV for panel discussion on IUU (Illegal Unregulated and Unreported) fishing

Piloting Community-Based Management Initiatives

Fisheries Co-Management Plan for the Ankobra Estuary

Mangrove habitats are important nursery and spawning grounds for estuarine fish. Over-dependence on mangroves along the Ankobra river estuary for fish smoking has resulted in degradation with associated negative impacts on estuarine fishery resources. Since October 2015 SFMP has supported capacity building for Ankobra Mangrove Committee members that has resulted in over 8,200 mangrove propagules planted and 17 hectares of previously degraded sites on the western portion of the Ankobra estuary restored (Figure 12). According to estuarine fish harvesters, mangrove restoration efforts over the period have positively impacted estuarine fish availability and catch, as evidenced by bountiful shrimp harvest recorded during 2016 and 2017 shrimp fishing seasons. The involvement of traditional chiefs and mangrove education and restoration efforts are changing local norms to prevent mangrove harvesting along the banks of the estuary. For community populations that are largely illiterate, maps are a strong visual representation of the environment and their relation to it. New maps were produced in Quarter 3 that are being shared with communities to make decisions about management of their natural resources.

Additional information on harvesting methods, fishing grounds, seasonality of fishing, historical trends in resources and users and livelihood activities of estuarine communities were collected through participatory rural appraisal techniques. This information revealed that an estimated 210 individuals and 170 canoes used to fish in the estuary 30 years ago. However, this number has declined to about 46 fishermen and 54 canoes recently. It was also revealed that although fishermen enjoy open access fishing in the estuary, they have preferred fishing grounds which are mostly tributaries within close proximity to their communities.

In addition, estuarine fishermen reported decline in harvest of the bagrid catfish over the past years, and attributed this to the ongoing degradation of the mangroves that they believe provide breeding areas for the species.

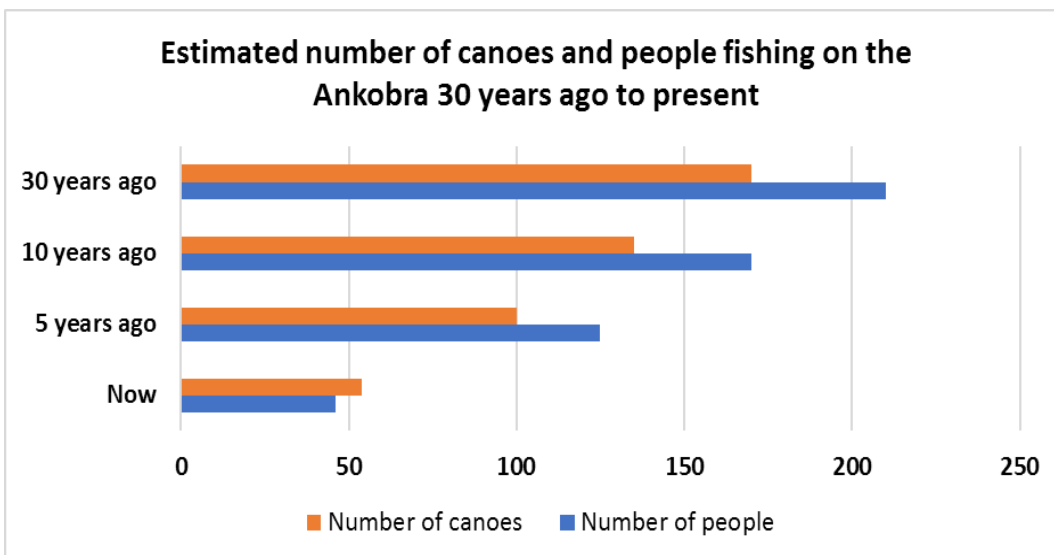
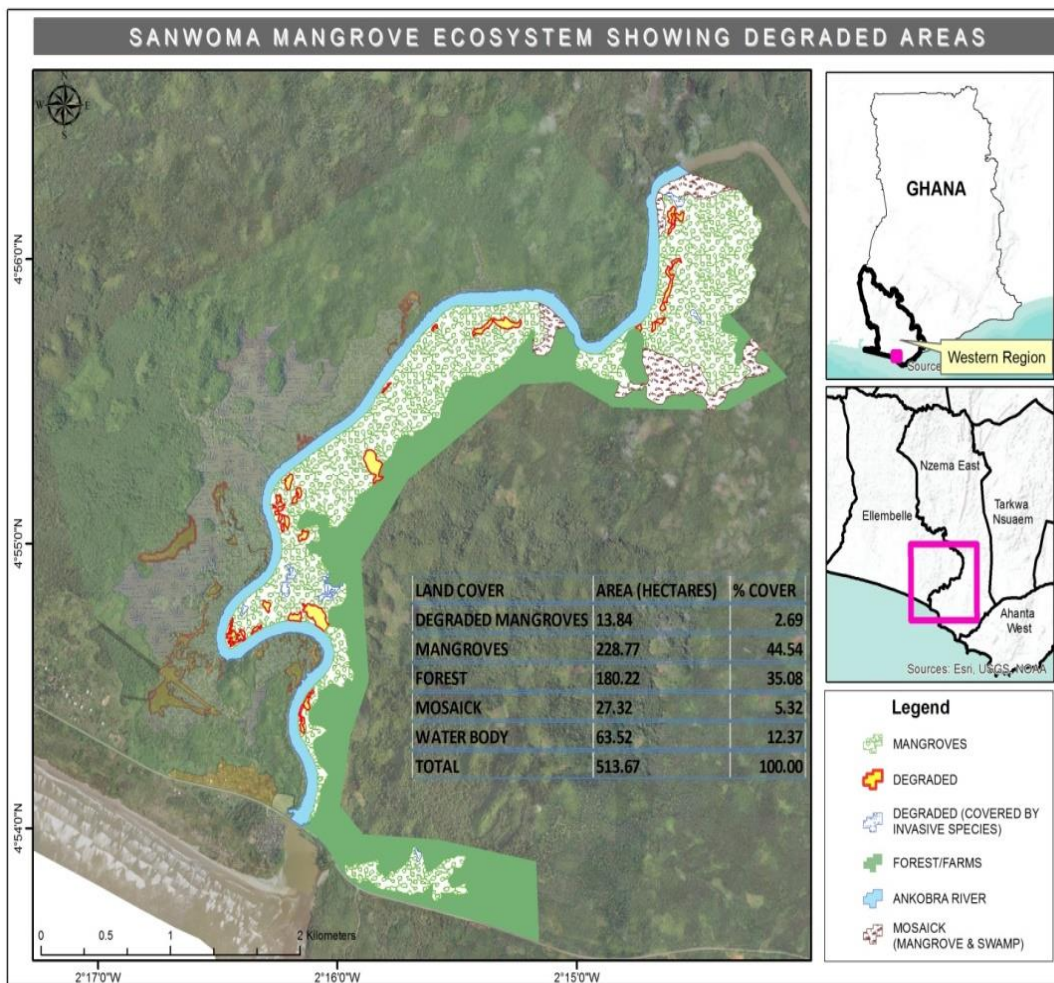


Figure 12: Degraded mangrove sites on eastern portion of Ankobra estuary (above) and change in canoe-based capacity (below)

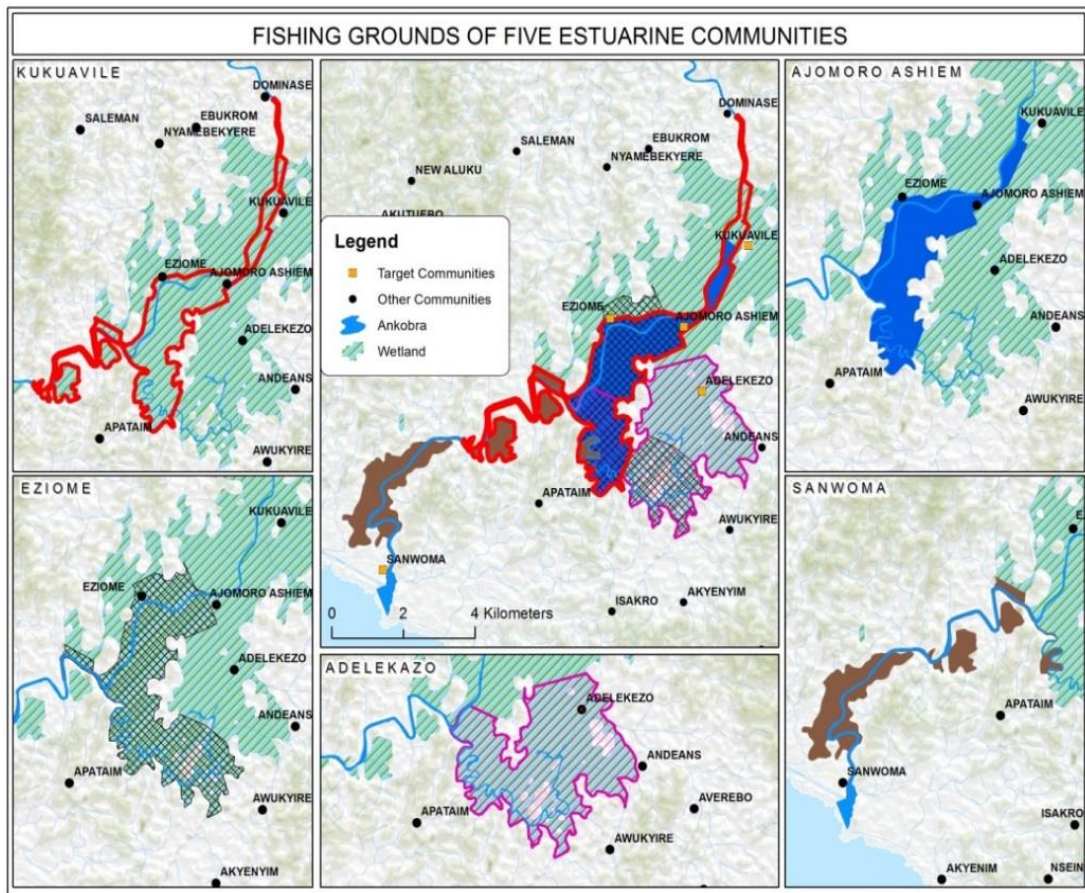


Figure 13 Fishing grounds of 5 estuarine communities in Ankobra (above) and restored mangrove area below

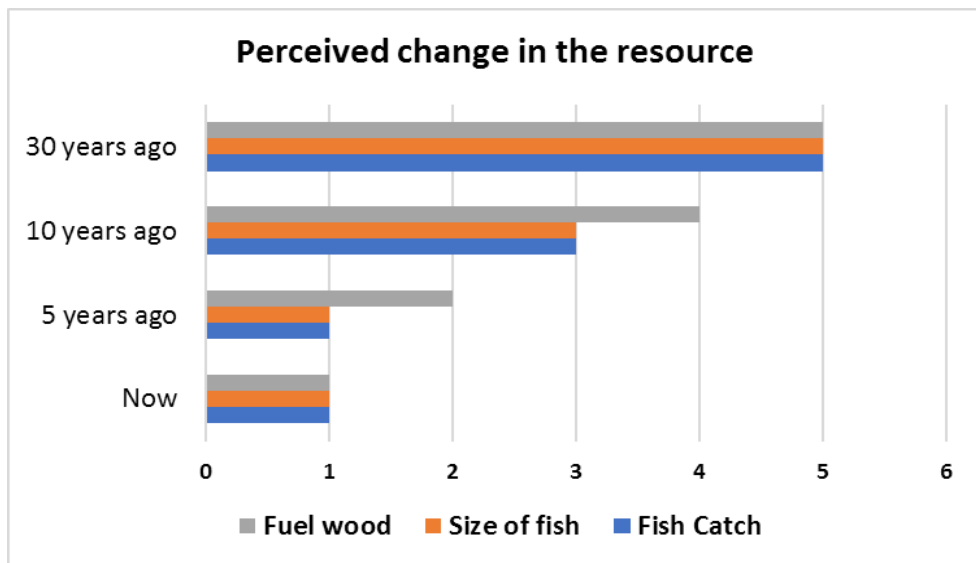


Figure 14: Survey results on change in resource status (above) and estuarine fishermen and fishmongers at management planning meeting (below)

Pra Fisheries Co-Management Plan

The Pra Estuary Fisheries Co-Management Committee was inaugurated marking a key milestone for fisheries management efforts at the community level promote the co-management of the fisheries resources within the Pra Estuary. The eleven-member (7 men and 4 women) Pra Estuary Fisheries Co-Management Committee was inaugurated by the District Chief Executive (DCE) of Shama in a grand ceremony of about 85 participants chaired by traditional leaders from Shama. The inauguration provided the platform for stakeholders to be informed about and promote collaboration with the committee.

A series of training sessions were organized for the members. The training workshop were resourced by personnel from the Fisheries Commission, Shama District Assembly, UCC, the Wildlife Department of the forestry Commission and other facilitators from Friends of the Nation.

Participatory approaches were used during the training to promote the effective transfer of knowledge to the participants. The training workshop provided information to enhance the effective implementation of the fisheries co-management plan which will contribute to improved

fisheries management in the Pra area to benefit about 5000 local fishers and additional 2000 community members along the Pra River.

Oyster management in the Densu Estuary

A draft co-management plan was produced and reviewed in June with the SFMP Project leader at URI and the Chief of Party.

Leadership training was conducted for 59 participants in the Greater Accra region (15 males and 44 females) from May 24-26, 2017 to empower leaders to institute good fishing practices and promote co-management in the Densu Estuary and other marine communities in the Greater Accra region.

Outcomes included:

- Enhanced knowledge, skills and attitudes of stakeholders/early adopters in the fishing communities
- Facilitated ability of selected community leaders to undertake advocacy activities
- Trained leaders to determine spoiled fish along the value chain
- Enhanced abilities of fish processing leaders to influence their peers in sustainable/improved post-harvest activities
- Instituted oyster fisheries co-management culture and approaches in communities in the Greater Accra region, especially in the Densu estuary

Participants included:

- Chiefs/Queen mothers/ Community elders
- Head of fishmongers (Konkonhema)
- Chief Fishermen/Fishermen
- Canoe Council
- Executives of NAFTPA (National Fish Traders and Processors Association)
- District Assemblies/Local Government
- Zonal/District officers of FC/MOFAD
- Youth leaders
- Beach volunteers

These activities were conducted mainly at Tsokomey where all leaders identified in the Greater Accra region converged for the initial training for three (3) days of 5 hours each on 24 to 26th May 2017 after an initial community entry involved meeting the Chiefs, Queen mothers, Fish processor queens (Konkohema), Fishermen, Community elders, and Youth leaders.

Post-Harvest Healthy Fish Handling Campaign and Ahotor Smoker Innovation

Much of the small pelagic fish in Ghana is processed under unhygienic conditions resulting in post-harvest losses, primarily to women processors, and health impacts. This is compounded by the use of traditional ‘Chorkor’ ovens that affects the health of women and young children that are exposed to extensive smoke while their mothers work, particularly babies and younger children who are more vulnerable.

To address this health and economic impacts resulting from traditional methods of post-harvest processing, SFMP is supporting a national ‘healthy fish campaign. This includes introduction of new ways to handle fish at landing sites (such as simple off-ground tables for fish being landed which prevents contamination from human waste and other contaminants common on beaches at landing sites, a full-length documentary on post-harvest processing that covers all aspects of hygienic processing from shore to plate to educate communities on the importance of hygienic

fish handling and preservation, and education on sanitation at individual women-owned processing stations.

In Years 1-3, SFMP supported the design, testing and adoption by the government of a new model of smoker referred to as the *Ahotor* (Comfort) smoker. This smoker produces less smoke and generates far less carcinogens in the process than traditional Chorkor smokers. Ahotor oven awareness activities were conducted in the Keta and Ketu South municipalities of the Volta region, with two massive awareness durbars were carried out on 21st and 22nd of March 2017 to demonstrate the Dzidedi (the local name for the Ahotor smoker). Three-hundred and fifty-one (351) people (254 females and 97 males) participated in activities that outlined the benefits of the Dzidedi oven's superior features and benefits over the traditional ovens. Nineteen (19) interested people signed up to have the oven installed under a local financing scheme.

To educate and expand adoption of the new smoker technology and hygienic fish processing techniques, SFMP supports community durbars (traditional gatherings), radio and television discussions, community drama performances depicting the benefits of the stove and hygienic handling fish, and the distribution of materials such as banners, stickers and posters. Fish processors have started savings plans to purchase the oven and three financing institutions have signed MOUs to set up financing programs that women can afford. Progress on institutional financing arrangements for stoves has been slow and SFMP is exploring new ways to make financing more affordable for women who wish to purchase these, particularly extending the payback periods expected from financing institutions.

In order for fish processors to acquire the improved Ahotor oven for their business growth, SFMP has is facilitating partnerships with private sector financial institutions to provide asset financing opportunities to the processors. Meetings were held with Akatakyiman Rural Bank, Microfin Rural Bank, Gomoa Community Bank – all in the Central region, Anlo Rural Bank in the Volta region, and DAASGIFT Quality Foundation and the Rural Development Fund for the Western region. A comprehensive proposal was developed and shared with these financial institutions, and is now under review. Akatakyiman Rural Bank has approved the proposal and, as a result, started opening savings accounts for fish processors under this partnership. Anlo Rural Bank has approved the proposal contingent on the government Rural Development Fund disbursement since they are part of the first group of beneficiaries of this fund.

Technical Training in Hygienic Fish Processing, Packaging/Branding and Fire Safety

An eight-week training was provided to fish processors in the western region on post-harvest value added techniques. Training was broken into three modules and included fire and safety facilitated by the Ghana Fire Service, hygienic fish handling (fish spoilage, personal hygiene, use of ice good practices), and two weeks of training in packaging, labelling and branding. Two-hundred female fish processors were trained.



Figure 15: Shama Fire Officers Justice Abban and Samuel Okyere giving lessons at Shama and practical exercises for women in handling fires.



Figure 16: Women fish processors trained and receiving ice boxes as a result of SFMP engagements

Micro-finance services

MSMEs are seen as the engine of economic growth, yet their viability are threatened by a lack of access to credit training. Their growth is often stifled by restricted access to credit which in turn affects the quality of their fish businesses. Access to financial training and microcredit to MSMEs in Shama, Axim, Asanta and Ankobra has helped bridge the gap, thus increase in their business capital resulting in maximisation of profit and prompt payment of their loans. The micro loans they received has now given the women the edge to buy quality fish, pans, net and other smoking gears leading to expansion in their businesses. There was a first cycle loan disbursement to 45 MSMEs in Asanta in the month of June in fulfilment of Provision of microfinance to 400 MSMEs. Each of the 45 client in the five (5) cells received Two Hundred Ghana Cedis (200.00) amounting to a total loan disbursement of Nine Thousand Ghana Cedis (9,000.00).



Figure 17: Share purchasing session at Miemia

Village Savings and Loans Associations

SFMP supports the formation of Village Savings and Loans Associations (VSLA) which are structured systems of saving, borrowing and lending money generated from member contributions. The SFMP-supported VSLA group at Eziome had a welfare fund of GH¢1,350, a share purchase of GH¢ 4,010 and accrued interest of GH¢ 655.00 from service charges on loans disbursed to members for a total of GH¢ 6,015. The Kukwavile VSLA had a welfare fund of GH¢1,220, a share purchase of GH¢ 2510 and accrued interest of GH¢ 305.00 from service charge on loans disbursed to members giving a total of GH¢ 4,035.00. Showing organizational health, previous members who were not willing to join through contributions left and new members were welcomed. Seed money was paid by each new and continuing member to mark the beginning of the second cycle of contributions. The Ekpoazo VSLA group is in their 11th month and has saved to a tune GH¢ 4,215. The members who collected loans made payments during their meeting sessions to make way for other people to also access some of the loan fund to trade, buy fertilizers and to support payment of their wards school fees.



Figure 18: Loan recovery session at Shama



Figure 19: Share-out session at Eziome

Two new VSLA groups during the quarter under review developed comprehensive internal regulations to cover issues of ownership and governance of the group and also received training on the rules and procedures on share purchase, loans and the welfare fund contribution. Group

one known as “Nyame Beye” and “Nyame Bekyere” groups are both in their first month and have saved GH¢ 250 and GH¢ 220, respectively. The group members are happy about the VSLA concept and this is evident in the level of participation during the training on and agreement with their respective constitutions.

Development Action Association (DAA) Fisheries Training Center

During this quarter, construction activities at the DAA and CEWEFIA training centers were monitored and compliance with USAID environmental procedures by the contractor assured. Observations at the DAA site revealed that general environmental conditions were satisfactory. The contractor was advised to follow strictly, the environmental procedures.



Figure 20: DAA Fisheries Training Center under Construction

IR 5: Gender

Development of a Gender Strategy for the Fisheries Commission

The Fisheries Commission officially adopted the gender strategy developed in collaboration with the SFMP project in Quarter 1. In Quarters 2-3, the Fisheries Commission has moved quickly to incorporate the new gender strategy into its day-to-day management. The FC has developed an action plan and budget for implementing the strategy. In Quarter 3, SFMP supported training and coaching for Fisheries Commission zonal officers in the Central, Western and Volta Regions. Assessing the impacts of the coaching, one zonal officer stated that a ‘new communications committee has been established within her zone to specifically address gender mainstreaming in day-to-day operations’, including ensuring that at least one of the committee members was a woman. Another zonal officer in the Cape Coast Region developed a protocol for organizing programs that ensure equal participation of men and women. Both officers provided additional training to their teams on the National Gender Mainstreaming Strategy.

As part of SFMP’s effort to build a team of leaders to promote gender integration in co-management of the fisheries sector, a one-day Trainer of trainers workshop on leadership and conflict management was organized for leaders of fisheries related associations (fishermen and fish processor/monger groups) and other stakeholders in the fisheries sector in the Central and Western Regions. Participants were introduced to effective leadership, advocacy skills communication and conflict management within associations.

SFMP Mainstreaming of Gender

IR 6: Public-Private Partnerships

Millennium and UT Life Insurance Partnership (Fishers Future Plan)

In early quarters, SFMP established cooperation with Millennium and UT life insurance companies to create private sector driven insurance programs for fisheries. In Quarter 3, SFMP worked with Micro-insurance partners (BIMA, Vodafone, UT Life and Millennium Insurance) to complete and test the digital payment platform that fishers will use to pay their premiums and receive their claims. The participating micro-insurance partners completed training of approximately 20 insurance sales agents in Moree and Shama communities. These sales agents will be responsible for education, sensitization and registration of fisherfolk, to participate in the micro-insurance program. Almost all sales agents have been hired from the local communities to create local jobs and ease any negative perceptions of insurance premium collection. In addition, the participating private sector partners identified and are supporting local community members in becoming mobile money merchants that at once support micro-insurance participation and the expansion of the use of mobile money platforms. Currently, partners are registering fisherfolk in James Town, Moree and Shama and as of June 20, 2017 a total of 732 fishers have registered for the Fishers Future Plan. Premium payments over the period have amounted to GHS12,997, with no claims paid as of this report period.

Tigo Fishers Network Partnership

The Tigo Fishers' Network is a mobile phone-based network that will provide a suite of mobile services tailored to fisherfolk that will increase access to information about good fisheries practices, fisheries laws and regulations, lower the costs of communication between fisherfolk, and promote household savings and mobile money services. The Fishers' Network will support the Fisheries Commission's extension efforts for sustainable fisheries management and improve local livelihoods and household incomes for fisherfolk through improved information; savings on the costs of phone credit, messages, and data; and the promotion of digital financial services.



Figure 22: The Letter of Collaboration (LOC) for the Tigo Fishers' Network partnership – a collaboration between USAID/Ghana SFMP, the Fisheries Commission, and Tigo Ghana – was officially signed on March 31, 2017.

On June 14, 2017 SFMP facilitated a work planning workshop with the Government of Ghana, SFMP implementing partners, and the national mobile phone company, Tigo Ghana. The workshop was designed to receive inputs from partners on how to develop a partnership work plan that will guide implementation of activities and targets for Year 1 of the partnership. The

work plan is currently being drafted and is expected in the following quarter. SFMP also met with Tigo to review and discuss the partnership business model that will support the Fishers' Network's long-term sustainability, including means of revenue generation, target customers, and expected costs, targets and results.

At the end of Quarter 3, SFMP and Tigo engaged in a field scoping exercise in Axim, Sekondi-Takoradi, Elmina and Apam to test Tigo's network connections that will support the network, to introduce the Tigo Fishers' Network meet and discuss with community leaders and stakeholders the elements that will maximize the system's utility for fishers and identify sites for establishing mobile money point-of-sales that will support the network.

IR 7: Improved Capacity

Capacity Development of Targeted Government of Ghana Fisheries and Coastal Management Institutions

SFMP seeks to improve fisheries management processes by increasing the capacity to conduct, collect the results and apply the results of applied research in the Fisheries Commission and in non-governmental institutions, including the University of Cape Coast.

In Quarter 3, the planned mid-term organizational capacity assessment (OCA) of Government of Ghana and University units receiving SFMP support found that compared to the 2015 OCA baseline, nine units originally targeted plus one additional unit, the Monitoring and Evaluation Unit (MEU) of the Fisheries Commission, demonstrate improved capacity under SFMP IR 7.

These units are:

1. Monitoring, Control and Surveillance Unit of the Fisheries Commission (MCS/FC)
2. Fisheries Scientific Survey Division of the Fisheries Commission (FSSD/FC)
3. Post-Harvest Unit of the Fisheries Commission (PHU/FC)
4. Marine Fisheries Management Division of the Fisheries Commission (MFMD/FC)
5. University of Cape Coast/Center for Coastal Management (UCC/CCM)
6. University of Cape Coast/Department of Fisheries and Aquatic Science (UCC/DFAS)
7. Western Region Land Use and Spatial Planning Authority (LUSPA/WR) (formerly Town and Country Planning Department (TCPD))
8. Central Region Land Use and Spatial Planning Authority (LUSPA/CR)
9. Fisheries Enforcement Unit (FEU), an interagency body.
10. Monitoring and Evaluation Unit (MEU)

Conducted from May 23-31, 2017, a total of 57 respondents (24.5% female), 28 directly representing their organization and 29 from third party organizations (clients of and service providers to the FC), the OCA revealed two examples of important outcomes of Fisheries Commission capacity development directly attributable to SFMP that are transforming the way business is conducted relative to the artisanal fisheries sector in Ghana. These include:

- Fisheries Commission relationships with civil society organizations and actors have increased and are more highly appreciated by FC than in 2015.

Fisheries Commission respondents expressed the realization that due to the overwhelming size and complexity of the artisanal sector the same approaches that FC has traditionally used to reach the industrial and semi-industrial fishermen are not directly applicable to the artisanal sector, and that SFMP has introduced new ways that work more effectively. According to respondents, SFMP fisheries leadership training, study tours, and participation in various SFMP initiatives, including national dialogues, stakeholder meetings, improved stove development and outreach activities, among others, over the last 3 years have driven this shift in attitude.

- Increasing women’s empowerment in the fisheries sector since 2015 is one of the most significant changes.

Respondents also reported that women’s voices are getting heard more, especially those involved in post-harvest activities such as fishmongers and processors. This is reportedly happening in general but especially noted was that women’s voices were more noticeable in meetings and communications with chief fishermen where previously they would never have thought to tell them what they want and demand.

SFMP Master and PhD Students Attain Research Approvals

All five master’s degree students and Ph.D. candidate received approval for the final research projects from URI. Four of the group began conducting field research in Ghana at the end of Quarter 3. The master’s degree candidates already carrying out their field work include Ivy Gyimah and two Fisheries Commission staff---Rosina Cobbina and Vida Osei. Due to

“I now get better results because of this information from my SFMP partners’ network.”
Regional Fisheries Officer.

“Now the women know the Regional Fisheries Commission people. We call them and they come easily and we have easy communications. The Fisheries Commission never noticed oyster pickers until SFMP.” DAA woman

challenges in transporting fish samples of *sardinella* taken from 10 West African countries for DNA analysis, Evelyn Takyi is now also scheduled to return to Ghana in July to process the samples for future transport. Evans Arizi attained approvals for his PhD research and began gathering data in early June.

Developing the Capacity of Targeted Civil Society Organizations

Capacity development remains an integral part of the Sustainable Fisheries Management Project. During the current reporting period, the SFMP capacity building team supported the Ghana Industrial Trawlers Association (GITA) to revise its constitution to reflect the issues derived from its SFMP-supported organizational capacity assessment. In addition, GITA was supported and developed their standard operating procedures (SOPs) and started a strategic planning process with its board and membership.

SFMP supported an organizational capacity assessment for the Ghana National Canoe Fishermen Council working with its leadership from the all coastal regions. Mid-term review of action plans from their OCAs were organized for SFMP implementing partners CEWEFIA, DAA, and DAASGIFT, and training and coaching was carried out to strengthen the board of directors of GITA and NAFPTA. Standard operating procedures were developed for all organizations correcting major organizational defects such as working without following the requirements of SOPs and alignment and clarity of staff roles and responsibilities. Findings from the mid-term review indicated that all partners have improved capacity in writing effective proposals for funding and are thus moving toward diversifying their funding sources.

There is the promotion of transparency and membership ownership within Ghana Industrial Trawlers Association as a result of fostering member’s participation in review of their constitution and strategic plan preparation process. These processes have enabled the leadership of GITA to plan to organize their Annual General Meeting this year to adopt the draft constitution and also update members on their operations.

3. PROJECT MANAGEMENT

Monitoring and Evaluation (M&E) Update

MSME Formative Assessment Survey

The MSME/VSLA formative assessment launched during second quarter is near completion. During this quarter, SFMP and CSLP jointly conducted training of 8 enumerators (five males and three females) and were completed within 17 days of data collection in 28 communities of Central and Western regions. A total of 375 respondents were interviewed. The purpose of this survey is to evaluate the effectiveness and outcomes of the project's support in enhancing coastal livelihoods and improved fisheries post-harvest processing through MSMEs and VSLAs. The final report will be available in Quarter 4.

Data Quality Assessment

The SFMP M&E unit conducted data quality assessment reviews with each implementing partner to ensure that partner data collected and reported on project indicators meet USAID and SFMP standard including tracked and verified attendance sheets for all training meeting and workshops, verified transcription of data from attendance sheets to TraiNet and standard indicator forms, comparing data to the 5 data quality standards checklist and checking of data storage/filing systems.

Performance Review Team

As part of the processes to enhance SFMP's effectiveness and efficiency in implementing all planned activities, a performance review team was formed comprised of SFMP core and partner M&E officers, program officers and finance officers. The mandate of the team is to conduct joint monitoring visits to review and assess planned versus completed activities, compile information on overall project implementation status and catalogue under or over performance related to project performance for chief of party review. Once collected, the team will then compare to under/over spending against planned budgets. The information will be used to guide Year 4 planning and budgeting to inform appropriate planning and budgeting for Year 4. Initial findings reveal that the main reason for underspending in past and current years is delays in implementation of planned activities across all partners. Year 4 planning and budgeting will take place in Quarter 4 and specific findings will be inform better planning and budgeting for the coming implementing year.

Environmental Compliance

SFMP continues to monitoring all activities to ensure environmental compliance of all activities. Particular attention was given to ensuring adherence to mitigation measures by Mikadu Constructions Ltd., the construction firm engaged in building the DAA Women's Training Center. Regular visits were conducted and staff were reacquainted with relevant regulations on health and safety issues during each visit. There were no signs of direct degradation to the environment around the site and sources of the materials being used for the construction were acquired from certified suppliers.

4. MANAGEMENT AND ADMINISTRATIVE ISSUES

Staff Changes

This reporting period saw a number of staffing transitions at the SFMP office in Accra. As planned, the previous chief of party, Brian Crawford returned to the US after serving more than two years in this leadership role. He was replaced by Maurice Knight who will serve as the CoP for the remaining 2.5 years of the project. New staff were brought in to fill newly vacated positions of communications specialist (Nii Abbey), fisheries specialist (Socrates Apetorgbor)

and post-harvest advisor (Margaret Ottah Atikpo). Staff changes had no impact on project implementation and will contribute to effective implementation in Years 4-5.

Implementation Challenges

Delays in implementing planned activities continue to result in underspending for the project. An SFMP performance team has been formed that is looking into and documenting reasons for these delays. The CoP and finance manager are helping SFMP teams move forward into Quarter 4 some activities planned in Year 4 in ways that use resources wisely and help reduce the amount of unspent funds at the end of Year 3.

The official launch of the Fisheries Watch Volunteers was conducted amid riots and protests at the event. SFMP is evaluating the causes for these disturbances which could include insufficient education about the program, insufficient training of watch volunteers resulting in overstep of authorities, possible emergence of new constituencies previously unidentified and adjustments in related outreach programs. A lessons-learned internal workshop is planned and a review of the FWV operating manual is underway. The government is planning to move forward, albeit more cautiously, with the launching of FWV teams in additional locations.

Successful scale-up of the AHOTOR stove continues to present challenges. Women processors are showing interest but the price of GHc 2,500/stove remains an obstacle. Progress with financing institutions continues to drag as they are reticent to risk capital in an unproven market. At the end of Quarter 3, SFMP brought in additional expertise in private sector engagement and financing and is also exploring training of local artisans (instead of commercial builders) to build the Ahotor stoves thereby reducing the cost of the stoves to women processors. A main question is how to maintain the quality of the design and materials, and therefore health and quality benefits, when building is transferred to local artisans who may independently opt for changes.

Lessons Learned

As part of an internal mid-term stock-taking and transition of chiefs of party, a retrospective review was conducted at CRC and in Ghana. The program leader, Brian Crawford led the retrospective at CRC and along with two other members of the CRC core team brought the results to Ghana to share with the SFMP core team. The new CoP conducted a series of mini-retreats with the SFMP core team. The outputs of these efforts will be collated and shared in Quarter 4 to inform work planning and budgeting for Year 4.

One issue that emerged was the need for parallel rather than sequential planning of activities. This requires considerably higher leverage of SFMP core and implementing partner staff time, and the use of ‘activity multipliers’, persons outside of directly employed SFMP staff, to move activities forward. Related to this is the need for teams to take into consideration known events when planning activities. For example: the Ankobra Estuary floods regularly at high tide so events should not be planned at that time; comprehensive schedules are needed in order to avoid having to delay events because of SFMP and partner staff being double booked; etc. These are basic parts of capacity development for most of SFMP’s implementing partners and coaching has already started to address related needs.

The SFMP team needs to immediately increase direct contact, increase levels of involvement in planning project activities, and begin joint planning of communications and implementation with the Fisheries Commission and appropriate MOFAD staff. Empowered by the new administration in these organizations, SFMP increased the intensity of engagements in Quarter 3. One SFMP staff person estimated that his contact had gone up “at least 300%” toward the end of Quarter 3. This trend will continue and pick up momentum as SFMP enters Year 4.

External Audit Findings

In Quarter 3 URI/CRC received the preliminary findings on the external audit of local implementing partners. The report was not completed but URI is working with USAID and Ernst and Young to complete and deliver the findings as soon as possible. Some implementing partners continued to have financial accountability and management issues into Year 3 and URI/CRC is reviewing for appropriate actions that need to be taken in Quarter 4.

5. NEXT QUARTER PLANNED ACTIVITIES AND EVENTS

Selected Highlights of Upcoming Activities July-September 2017

IR-1

- Final Year 3 Competency-Based Training for Marine Police – July.
- Completed small pelagics sample processing in Ghana and shipment to the U.S. for DNA analysis in the August for stock structure assessment – August.
- Joint Year 4 work planning and budgeting retreat with the Ghana Fisheries Commission – August.
- Final round of public consultations and revisions on the national fisheries co-management policy – August.
- Final revisions and submittal to the Ministry of Gender, Children and Social Protection of the National Anti-CLaT policy – September.

IR-2

- Scientific and Technical Working Group (STWG) quarterly meeting – early August.
- Leadership Course for National Marine Fisheries Management Plan – July.
- Mobile technology for fisheries management review - August.
- Review of FSSD stock assessment coordination and work – August.
- Technology and training exchange to URI on small pelagic stock assessments – August.
- High level Fisheries Commission travel to U.S. on learning exchange – August.

IR-3

- National Meeting to Draft F2F Compact – August.

IR-4

- Complete construction of 100 improved stoves in Volta and Greater Accra region – July/September.

IR-5

- Joint Planning for Gender Strategy Implementation with Fisheries Commission – August.

IR-6

- Finalize public-private partnership work plan for micro insurance and Tigo Fishers' Network programs – September.
- Joint launch with Tigo, Fisheries Commission, GNCFC and NAFPTA to launch field-based pilots of the Tigo Fishers' Network initiative in Shama, Moree and James Town – July.
- SFMP-Global Development Lab joint cooperation work plan completed – September.

IR-7

- Mid-Term review of CSO action plans, August.

IR-8

- Organize quarterly M&E capacity building workshop, August, 2017.
- Conduct routine monitoring visit to implementing partners, August – September 2017.
- Organize year four work planning session – July – August, 2017.
- Conduct joint monitoring visit to partners – September 2017.
- Results chain framework workshop at USAID, Washington DC, September, led by Heidi Schuttenberg.

6. FINANCIAL INFORMATION

Table 3 Financial information

Budget Item	Total Funds Obligated to Date June 30, 2017 (US\$)	Total Funds Expended to Date, through June 30, 2017 (US\$)	Pipeline as of June 30, 2017 (US\$)	Estimated Expenditures and Encumbrances (US\$) July 1 - Sept 30, 2017	Pipeline as of Sept 30, 2017 (US\$)
Direct Costs	7,034,045	6,045,332	988,713	854,106	134,607
Subgrantees and grants	6,323,966	5,622,278	701,688	504,700	196,988
Construction	329,650	45,000	284,650	150,000	134,650
Training	213,696	80,016	133,680	59,905	73,775
<i>Total Direct</i>	<i>13,901,357</i>	<i>11,792,626</i>	<i>2,108,731</i>	<i>1,568,711</i>	<i>540,020</i>
Indirect	1,781,687	1,382,826	398,861	126,033	272,828
Total	15,683,044	13,175,452	2,507,592	1,694,744	812,848

Revision of PMP Results

Note: The table below has been revised to capture results according to each quarter. Some indicator data were revised to reflect indicator definition at the end of the year as part of internal review process. Also some of the results delayed and were reported in the next quarters as an update of the previous quarter result thereby creating inconsistencies in the way the previous quarter result as reported. The revision of this result table is as a result of project internal review and the adoptive management process. This revision did not change the annual figures reported.

ANNEX A: PROGRESS SUMMARY

The summary table below includes all standard USAID indicators as shown in Section 1.2 as well as SFMP custom indicators. It measures planned versus achieved during the reporting quarter and gives a cumulative performance in each quarter.

Table 4 PMP Indicator progress - USAID Standard Indicators and Project Custom Indicators

Indicator	Data Source	Baseline data		FY 2017		Quarterly Status – FY 2017				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
Project Goal: Rebuild targeted fish stocks via adoption of sustainable practices and exploitation levels											
Project Goal Indicators											
Number of hectares in areas of biological significance and/or natural resource showing improved biophysical conditions as a result of USG assistance (EG 4.8.1-1)	Biophysical assessments, landing data, maps	2015	0	10 hectares	0	0	0	0A	N/ A	0	This indicator will be tracked in 2019
a. Biomass to produce MSY (B_{msy}) (Project indicator)		Baseline established		Stable /decreasing (Assumes major management measures put in place)	2015 Biomass is low at B= 30,000MT. Biomass target for MSY set at 310,000 MT	0	0	2015 Biomass is low at B= 30,000MT . Biomass target for MSY set at 310,000 MT	N/ A		No, without management measures being implemented over the next year, unlikely that biomass declining trend will change
b. Fishing Mortality at MSY (F_{msy}) (Project indicator)		Baseline established		Stable/increasing (Assumes major management measures put in place (e.g. 2nd fishing holiday etc.)	2015 fishing mortality is $F=0.8$ which is very high. Rebuilding target for F_{msy} set at $F=0.3$	0	0	2015 fishing mortality is $F=0.8$ which is very high. Rebuilding target for F_{msy} set at $F=0.3$	N/ A		A Trawler seasonal closure was put in place for Oct 2016 and Feb- March 2017 which should show some reduced effort in 2016- 17 data. If additional measures such as closed season and/or second fishing holiday are adopted, F will decrease

Indicator	Data Source	Baseline data		FY 2017		Quarterly Status – FY 2017				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
Number of indirect project beneficiaries (number), the percentage of which are female (percent) (Project Indicator)	Project record and surveys	2015	0	Counting 130,000 if the close season or second fishing holidays is adopted	N/A	N/A	N/A	N/A	N/A	N/A	This will be tracked at the end of FY 2017
Intermediate Result (IR): POLICY: Strengthened enabling environment for marine resources governance											
Number of agricultural and nutritional enabling environment policies completing the following processes/steps of development as a result of USG assistance in each case: (FTF 4.5.1(24)) 1. Analysis 2. Stakeholder consultation/public debate 3. Drafting or revision 4. Approval (legislative or regulatory) 5. Full and effective implementation	Copies of laws, policies, strategies, plan or regulation	2015	0	7 Step 3-Ankobra (CBMP) Step 3-Densu (Oyster Plan) CLaT strategy – Step 4 Fish Act –Step 2 NMFMP-Step 5 Co-mgt. policy –Step 4 Step 3 Pra (CBMP)	CBMP Oyster Ongoing Ongoing N/A Ongoing CBMP	N/A	N/A	CBMP Oyster Ongoing Ongoing N/A Ongoing CBMP	N/A	CBMP Oyster Ongoing Ongoing N/A Ongoing CBMP	Indicator on track.
Intermediate Result (IR): SCIENCE & RESEARCH: Increased use of science and applied research to inform decision-making, law enforcement and the implementation of management plans											
Number of institutions with improved capacity to develop and implement managed access fisheries management plans	Project records, capacity assessment reports	2015	0	16 Ongoing, NAFTA replaces FA	15	0	0	15	N/A	94%	Indicator on target
Intermediate Result (IR): CONSTITUENCIES: Constituencies and political will for policy reform & implementation built											
Number of days of USG funded technical assistance in NRM and/or biodiversity provided to counterparts or stakeholders (EG 4.8.1-28)	Trip reports, project records	2015		704	409	130	177	102	N/A	58%	May not achieve indicator target. Some of the external TA are cancelled
Number of information products disseminated in local media reports, radio	Sample of reports	2015	0	36	96	28	14	54	N/A	266%	Achieved

Indicator	Data Source	Baseline data		FY 2017		Quarterly Status – FY 2017				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
shows, conference papers, and research studies (Project indicator).											
Intermediate Result (IR): APPLIED MANAGEMENT: Improved management of marine resources											
Number of hectares of biological significance and/or natural resources under improved natural resource management as a result of USG assistance (EG 4.8.1)	GIS Maps, policy documents	2015	0	619,473 hectares	0	0	0	0	N/A	0	This indicator will be tracked from FY 17 to FY 19
Number of DAs supported with USG Assistance (Ghana CDCS, IR 2.3 indicator)	Project records, mgt.t plans	2015	0	4 (Ongoing)	5 Ongoing	4	5 (1 new, 4 ongoing)	5 ongoing	N/A	125 %	Ongoing assistance to DAs.
Improvement in fisheries enforcement and prosecutorial chain to counter IUU fishing (increase/decrease in prosecutions and percent that lead to conviction) (Project Indicator)	Project, police, district attorney, and FEU records	2015	0	Increasing	N/A	N/A	N/A	N/A	N/A	N/A	Data acquired for western command, will be reported next quarter
Number of climate vulnerability assessments conducted as a result of USG Assistance (EG 4.5.1)	Assessment reports	2015	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No target for the quarter
Number farmers and others who have applied new technologies or management practices as a result of USG assistance (FtF 4.5.2)	Project records	2015	0	100,000 (assumes national closed season or other measure for canoes/small pelagics adopted)	N/A	N/A	N/A	N/A	N/A	N/A	This indicator will be tracked at the end of FY17, FY 18 and FY 19
Number of micro, small and medium enterprises (MSMEs), including farmers, receiving business development services from USG assisted sources (FtF 4.5.2)	training participant records, lists of micro-enterprises supported	2015	0	896	1348 M-129 F-1219	251 M-49 F-202	339 M-19 F-320	758 M-61 F-697	N/A	150% M-10% F-90%	Target over achieved

Indicator	Data Source	Baseline data		FY 2017		Quarterly Status – FY 2017				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
Value of new private sector investments in select value chains (FTF 4.5.2-38)	Private sector financial records, program data	2015	0	Tracked, no target	\$ 35,931	\$0	\$ 19,237	\$16,694	N/A	100%	FY17Q3 results will be reported in next quarter
Number of food security private enterprises (for profit), producers organizations, water users associations, women's groups, trade and business associations, and community-based organizations(CBOs) receiving USG assistance (RiA) (WOG) (FTF 4.5.2(11))	Project document	2015	0	4 (1 new-NAFTA)	4 ongoing	4	4 ongoing	4 ongoing	N/A	100%	Target achieved
Number of members of producer organizations and community based organizations receiving USG assistance (S)(FTF 4.5.2(27))	Project documents	2015	0	TBD – as an additional org was added this year – NAFPTA	1246 M232 F-1014	228 M-43 F-185	390 M98 F-292	628 M-91 F-537	N/A	100%	Target to be revised after discussions with NAFPTA
Cross Cutting Indicators											
Number of public-private partnerships formed as a result of Feed the Future assistance (S) (FTF 4.5.2(12))	Project documents	2015	0	1	1	0	1	0	N/A	100%	Target achieved
Number of people receiving USG supported training in natural resources management and/or biodiversity conservation, and climate change, disaggregated by gender (EG 4.8.1- 27/ 4.8.2-6)	Project training reports and participant lists	2015	0	1492	1529 M-658 F-871	156 M-85 F-71	364 M-254 F-110	1009 M-319 F-690	N/A	105% M-43% F-57%	Target over achieved
Number of person hours of training in natural resources management and/or biodiversity conservation supported by USG assistance (FtF 4.8.1-29)	Project training report.	2015	0	19,959	20,746	2,794	7,280	10,672	N/A	104%	Target over achieved
Number of individuals who have received USG-supported short-term agricultural sector productivity or food security training (RAA) (WOG) EG.3.2- 1	Project training reports and participant lists	2015	0	1,987	2470 M-653 F-1817	0	703 M-273 F-430	1767 M-380 F-1387	N/A	124% M-26% F-74%	Target over achieved

Indicator	Data Source	Baseline data		FY 2017		Quarterly Status – FY 2017				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
Number of individuals who have received USG-supported degree-granting agricultural sector productivity or food security training (RAA) EG.3.2-2	Project training reports and participant lists	2015	0	5 Continuing	5 continuing M-1 F-4	0	5 M-1 F-4	5 continuing M-1 F-4	N/ A	100 M-20% F-80%	New indicator. Introduced in Q2. Target achieved
Value of agricultural and rural loans as a result of USG assistance (RAA) (WOG) EG.3.2-6	lists of micro-enterprises supported	2015	0	\$30,497	\$10,514.86 M-\$0 F-\$10,514.86	0	\$8,372 (27%)	\$2,142.86 M-\$0 F-\$2142.86	N/ A	34% M-0) F-100%	New indicator. Below target and will be achieved by the end of Q4.
Number of micro, small, and medium enterprises (MSMEs), including farmers, receiving agricultural-related credit as a result of USG assistance (RAA) EG.3.2-3	Lists of micro-enterprises supported	2015	0	TBD	110 M-0 F-110	0	65 M-0 F-65	45 M-0 F-45	N/ A	100% M-0% F-100%	New indicator. Target yet to be determined

*Indicator 5 results for second quarters was revised to add SSG staff resident in Ghana (Nii Otoo)

* Value of new private sector investments in select value chains which was sent by insurance partners after submission of second quarter reports was updated

*Number of members of producer organizations and community based organizations receiving USG assistance (S) (FTF 4.5.2(27)) data was revised to capture results after internal review was conducted at the end of the year

ANNEX B: TRAINET REPORT

This report includes trainings that count towards two indicators: (1) numbers of people receiving business development services from USG assisted sources, including farmers (FtF 4.5.2-37), and Number of people receiving USG supported training in natural resources management and/or biodiversity conservation, and climate change, disaggregated by gender (EG 4.8.1-27/ 4.8.2-6). For indicator reporting they are included in one or the other of these result areas based on the type of training provided, but not double counted in any cases for both indicators. The trainings reported in the following Table are for the current reporting period: April 1 – June, 2017.

Table 5 TriaNet Reporting

Program Name	Start Date	End Date	USAID Budget (USD)	USAID Actual (USD)	Total Male Participants	Total Female Participants	Total Participants	Budget Per Participant
Traditional Leaders Training on Anti-CLaT, Apam - DAA Y3Q3	5/26/2017	5/26/2017	550	550	22	15	37	15
Fisheries Gender and Advocacy Training, Elmina, Moree, Anlo, Sekondi- CEWEFIA Y3Q3	5/17/2017	5/18/2017	7600	7600	32	90	122	62
Training of enumerators for MSMEs mid-term formative assessment -CRC Y3Q3	4/3/2017	4/6/2017	24190	24190	5	3	8	3024
Fisheries Leadership training course, Shama-CRC Y3Q3	6/19/2017	6/23/2017	11058	11058	20	8	28	395
Training on Leadership and conflict management- Hownam dialogue, Apam-SNV Y3Q3	4/25/2017	4/26/2017	2258	2258	7	13	20	113
MSME's in Fish Processing Business Development in Volta Region- SNV Y3Q3	5/2/2017	5/10/2017	3851	3851	6	206	212	18
Fisheries Leadership training, Tsokomey-CRC Y3Q3	5/24/2017	5/26/2017	1966	1966	15	44	59	33
Refresher Training for Advocate and CCPCs, Moree, Elmina- CEWEFIA Y3Q3	5/10/2017	5/10/2017	6769	6769	46	24	70	97
Business Development Training (Continuation for different beneficiaries in different communities),Moree, Anlo, Elmina CEWEFIA- Y3Q3	3/20/2017	3/24/2017	74060	74060	39	167	206	360

Program Name	Start Date	End Date	USAID Budget (USD)	USAID Actual (USD)	Total Male Participants	Total Female Participants	Total Participants	Budget Per Participant
Business Skills Training, Winneba -DAA Y3Q3	3/23/2017	3/24/2017	2127	2127	13	87	100	21
Leadership and Conflict Management Training, Takoradi- HM Y3Q3	5/30/2017	5/30/2017	2040	2040	14	36	50	41
Governance and Leadership Training for GITA and NAFPTA Board of Directors, Tema - SNV Y3Q3	5/10/2017	5/11/2017	6963	6963	8	13	21	332
Gender Advocacy/ Mainstreaming workshop, Takoradi- DAASGIFT Y3Q3	3/13/2017	3/13/2017	1510	1510	27	24	51	30
Training for District Child Protection Committee, Cape Coast- FoN Y3Q3	6/14/2017	6/16/2017	3835	3835	43	30	73	53
Training on woodlot management benefits and sustainable harvesting, Anlo- CEWEFIA Y3Q3	5/11/2017	5/11/2017	6769	6769	20	36	56	121
Oyster Biology and Ecology, Tsokomey-DAA Y3Q3(TEN DAYS)	4/4/2017	5/3/2017	2342	2342	24	116	140	17
Business Development Training, Axim, Ankobra, Shama - DQF Y3Q3	4/6/2017	4/8/2017	19997	19997	0	200	200	100
Knowledge and skills building on the inclusion of women in community groups, Takoradi - HM Y3Q3	4/18/2017	4/18/2017	1191	1191	17	15	32	37
First Training session of the Pra Estuary Fisheries	5/16/2017	5/18/2017	1645	1645	21	4	25	66
Training on Fisheries Management Plan with Fish Processors, Apam & Winneba- DAA Y3Q3	4/4/2017	6/8/2017	1380	1380	44	243	287	5

ANNEX C: TABLE OF FISHERIES STORIES REPORTED IN THE LOCAL MEDIA

Table 6 List of Fisheries Stories Reported in the print Media and Radio for this reporting period (April-June, 2017)

No.	Platform/ Media House	Segment Type	Topic/ Issue	Date
1	Ahomka FM	Radio Discussion	Closed Season	April 4, 2017
2	Ahomka FM	Radio Discussion	The Role of Chief Fisherman To Combat IUU	April 11, 2017
3	Radio Windy Bay	Radio Discussion	Radio Sensitization and Education Programme on Fisheries Management Plan in Apam & Winneba (IUU Fishing)	April 18, 2017
4	Ahomka FM	Radio Discussion	The Role of The Market Queens (Konkohen) In Fisheries Value Chain	April 25, 2017
5	Radio Windy Bay	Radio Discussion	Radio Campaign on Child labour and trafficking	May 3, 2017
6	Radio Windy Bay	Radio Discussion	Radio Campaign on Child labour and trafficking	May 5, 2017
7	Radio Windy Bay	Radio Discussion	Radio Campaign on Child labour and trafficking	May 24, 2017
8	Radio Windy Bay	Radio Discussion	Radio Campaign on Child labour and trafficking	May 25, 2017
9	Ahomka FM	Radio Discussion	The Benefits of Ahotor Stove I	May 16, 2017
10	Ahomka FM	Radio Discussion	The Benefits of Ahotor Stove II	May 23, 2017
11	Ahomka FM	Radio Discussion	Research on PAH in Smoked Fish	May 30, 2017
12	Daily Graphic	Feature Story	SFMP Community Durbar to create awareness on AHOTOR oven (Pg 13)	May 22, 2017
13	GNA	News Item	Fishmongers asked to adopt hygienic fish smoking methods	May 23, 2017
14	modernghana.com	News Item	Fishmongers in Western Region asked to patronize smokeless oven for fish processing	May 23, 2017
15	Ghanaweb.com	News Item	Chief fishermen growl for powers to fight illegal fishing http://www.ghanaweb.com/GhanaHomePage/business/Chief-fishermen-growl-for-powers-to-fight-illegal-fishing-544716	May 31, 2017
16	GNA	News Item	EPA holds debate to commemorate World Oceans Day http://www.ghananewsagency.org/social/epa-holds-debate-to-commemorate-world-oceans-day-117989	June 2, 2017
17	Ankobra FM	Radio Announcement	Announcement of the World Oceans Day Events	June 6, 2017
18	Radio Shama	Radio Announcement	Announcement of the World Oceans Day Events	June 6, 2017

No.	Platform/ Media House	Segment Type	Topic/ Issue	Date
19	GBC Radio	Radio Announcement	Announcement of the World Oceans Day Events	June 6, 2017
20	Obonu FM	Radio Announcement	Announcement of the World Oceans Day Events	June 6, 2017
21	Ahomka FM	Radio Announcement	Announcement of the World Oceans Day Events	June 6, 2017
22	Jubilee Radio	Radio Announcement	Announcement of the World Oceans Day Events	June 6, 2017
23	GTV	Radio Discussions	Media Airtime World Oceans Day Events	June 6, 2017
24	Radio Windy Bay	Radio Discussions	Radio Campaign on Child labour	June 6, 2017
25	Ghanabusinessnews.com	News Item	Fishers to enforce fisheries laws https://www.ghanabusinessnews.com/2017/05/25/fishers-to-enforce-fisheries-laws/	June 7, 2017
26	Ghananewsagency.org	News Item	Fishmongers asked to adopt hygienic fish smoking methods http://www.ghananewsagency.org/economics/fishmongers-asked-to-adopt-hygienic-fish-smoking-methods-117208	June 7, 2017
27	Ghanabusinessnews.com	News Item	Fishermen vow to continue light fishing https://www.ghanabusinessnews.com/2017/05/22/fishermen-vow-to-continue-light-fishing/	June 7, 2017
28	Graphic.com.gh	News Item	Irate fishermen disrupt meeting on illegal fishing in Accra http://www.graphic.com.gh/news/general-news/irate-fishermen-disrupt-meeting-on-illegal-fishing-in-accra.html	June 7, 2017
29	Newsghana.com.gh	News Item	Fishmongers advised to employ hygienic fish smoking methods https://www.newsghana.com.gh/fishmongers-advised-to-employ-hygienic-fish-smoking-methods/	June 8, 2017
30	GNA	News Item	Bortianor Fisher-folks want collective action against illegal fishing http://www.ghananewsagency.org/social/bortianor-fisher-folks-want-collective-action-against-illegal-fishing-117997	June 8, 2017
31	Newsghana.com.	News Item	Elmina initiates steps to ensure that child labour and trafficking end https://www.newsghana.com.gh/elmina-initiates-steps-to-ensure-that-child-labour-and-trafficking-end/	June 10, 2017
32	Ghanabusinessnews.com	News Item	Opinion leaders in Elmina initiate steps to end child labour and trafficking	June 10, 2017

No.	Platform/ Media House	Segment Type	Topic/ Issue	Date
			http://www.businessghana.com/site/news/general/146590/Opinion-leaders-to-end-child-labour-	
33	Citifmonline.com	News Item	Action plan against child abuse in fishing launched https://citifmonline.com/2017/05/30/action-plan-against-child-abuse-in-fishing-launched/	June 11, 2017
34	Newsghana.com.gh	News Item	Omanhen of Elmina to crusade against illegal fishing https://www.newsghana.com.gh/omanhen-of-elmina-to-crusade-against-illegal-fishing/	June 11, 2017
35	Peacefmonline.com	News Item	Report Child Trafficking Incidents to Police - USAID Chief http://peacefmonline.com/pages/local/news/201706/317558.php	June 11, 2017
36	Citifmonline.com	News Item	US threatens to cut aid to Ghana over child labor menace http://citifmonline.com/2017/06/15/us-threatens-to-cut-aid-to-ghana-over-child-labour-menace/	June 12, 2017
37	GNA	News Item	SFMP starts with World Day against Child Labor http://www.ghananewsagency.org/social/sfmp-starts-with-world-day-against-child-labour--118105	June 12, 2017
38	Ghanabusinessnews.com	News Item	Ghana risks losing donor support from US to fight child labour – USAID https://www.ghanabusinessnews.com/2017/06/15/ghana-risks-losing-donor-support-from-us-to-fight-child-labour-usaid/	June 12, 2017
39	Allafrica.com	News Item	Ghana: World Oceans Day 2017 Commemorated in Ghana http://allafrica.com/stories/201706120918.html	June 13, 2017
40	Radio Peace	Radio Discussions	Radio Campaign on Child labour and trafficking	June 13, 2017
41	Daily Guide	News Item	Campaign on Child labour and trafficking	June 13, 2017
42	Ghananewsagency.org	News Item	Institutional weaknesses must be addressed - FoN http://www.ghananewsagency.org/social/institutional-weaknesses-must-be-addressed-fon-118197	June 13, 2017
43	Radio Silva	Radio Discussions	Current state of the fish stocks	June 15, 2017
44	Radio Sharma	Radio Discussions	Current state of the fish stocks	June 15, 2017

No.	Platform/ Media House	Segment Type	Topic/ Issue	Date
45	Ahomka FM	Radio Discussions	Radio Campaign on Child labor and trafficking	June 16, 2017
46	Radio Silva	Radio Discussions	Steps to rebuilding targeted fish stocks	June 18, 2017
47	Radio Sharma	Radio Discussions	Steps to rebuilding targeted fish stocks	June 18, 2017
48	Graphic.com.gh	News Item	Ghana records 2.7 million child labourers http://www.graphic.com.gh/news/general-news/ghana-records-2-7-million-child-labourers.html	June 27, 2017
49	Ahomka FM	Radio Discussion	Community Action Plan for Moree And Elmina	June 19, 2017
50	Ghanabusinessnews.com	News Item	Armed fishermen attack taskforce on sea https://www.ghanabusinessnews.com/2017/06/27/armed-fishermen-attack-taskforce-on-sea/	June 27, 2017
51	Daily Graphic	Feature Story	USAID Promotes Healthy Fish Processing in Ghana	June 29, 2017

ANNEX D: ONLINE SFMP BIBLIOGRAPHY, OCTOBER 14, 2014 TO JUNE 30, 2017

As of the end of the third quarter of Year 3, the SFMP's Accra and URI CRC based teams have now completed and posted online to CRC's SFMP project page 141 technical documents, event reports and program management documents.

http://www.crc.uri.edu/projects_page/sfmp/?section=publications This represents substantial progress and improved efficiency over previous quarters. The SFMP is currently working to review, revise and finalize 70 items, including some older documents from Year 2 that required major revision, as well as reports now being received as a result of Year 3 activities. A complete list of reports now online is provided as Annex D. URI CRC has also now fully updated Ghanalinks <https://ghanalinks.org/e-library> with the entire document collection, and produced a separate version of bibliography with links. Use keywords such as "SFMP", "URI" or "fisheries" to get a listing of most of the documents, or search for any phrase or keyword, since Ghanalinks searches the full text of the uploaded documents.

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