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SUSTAINABLE FISHERIES MANAGEMENT PROJECT (SFMP)

Report on the Second Training of
Central Region Town and Country
Planning Department officers



JANUARY 10TH -11TH, 2017

THE
UNIVERSITY
OF RHODE ISLAND
GRADUATE SCHOOL
OF OCEANOGRAPHY



**SPATIAL
SOLUTIONS**

Hen Mpoano

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Cover photo: Group photograph of participants. (Credit: Spatial Solutions)

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ACRONYMS

CEDECOM	Central Regional Development Commission
CEWEFIA	Central and Western Fishmongers Improvement Association
FoN	Friends of the Nation
GIS	Geographic Information System
GPS	Global Positioning System
LUPMIS	Land Use Planning and Management Information System
QGIS	Quantum Geographic Information System
SFMP	Sustainable Fisheries Management Program
TCPD	Town and Country Planning Department
USAID	United States Agency for International Development

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INTRODUCTION

The USAID-Ghana Sustainable Fisheries Management Project (SFMP) continues to provide support to the Town and Country Department in different capacities, though fisheries focused. The project recognizes the important role the department plays in the planning of coastal resources including the limited coastal land and beach fronts.

Under this USAID funded project, the SFMP has established a GIS Data Hub at the Central Regional Office of the TCPD to build the capacity of Planners and Technical officers to incorporate coastal resource management in the preparation of Spatial Plans. The newly refurbished data hub is stocked with state-of-the-art facilities to serve two main purposes:

1. To serve as the central point for storing, retrieving, managing and sharing data across coastal districts
2. To provide regular trainings for regional and district staff.

The GIS trainings are aimed at activating the newly established GIS Data Hub to function as the model training center, not only for TCPD staff, but other sister land sector agencies and departments. The first series of trainings were organized in September, 2016 to build the capacity of 20 officers (8 Planners and 12 Technical officers) in basic GIS/GPS applications relevant to spatial planning.

Prior to the trainings a need assessment had been conducted to ascertain the background of prospective participants in GIS and general computing. This second training involved the second set of officers who were shortlisted based on the results of the assessment.

Objectives

The main objective of the training was to provide participants with fundamental skills in GIS, Remote Sensing and GPS data collection strategies for the effective planning and decision making relative to the management of coastal resources. The specific objectives for the training were:

- To activate the GIS Data Hub as the data clearinghouse and training center for the region.
- To have a basic, practical understanding of GIS concepts, techniques and real world applications.
- To introduce the use of Quantum GIS for basic data collection and mapping purposes.

Venue and Date

The training was organized in the Central Region GIS Data Hub at the Regional Town and Country Planning Department in Cape Coast from January 10 to 12, 2017.

Format of Training

The training adopted the class room training format with some presentations and practical hands-on exercises. Activities were designed to address issues practitioners need on their day-to-day basis.

Participants

The 3-day GIS training built the capacity of 23 participants from TCPD, CEDECOM and other SFMP partners (CEWEFIA and FoN) in basic GIS applications. The selection of TCPD officers for the training was informed by the results of the training need assessment that was conducted prior to the training. 2 Planners and 17 Technical officers from the Nine (9) coastal districts of the Central region were selected for the training.



Figure 1: A cross-section of participants at the training

WELCOME ADDRESS AND BACKGROUND TO THE SFMP

The Director of Spatial Solutions Ltd, Mr. Peter Owusu- Donkor welcomed participants to the training workshop and explained the purpose and objectives of the training. In his welcome statement he indicated the commitment of SFMP to build the capacity of TCPD on the use of GIS in planning and the development of spatial plans within the coastal districts. Mr. Peter Owusu-Donkor assured participants of a series of trainings that has been planned for the region aimed at building the capacity of the region in advanced spatial planning tools and technologies.

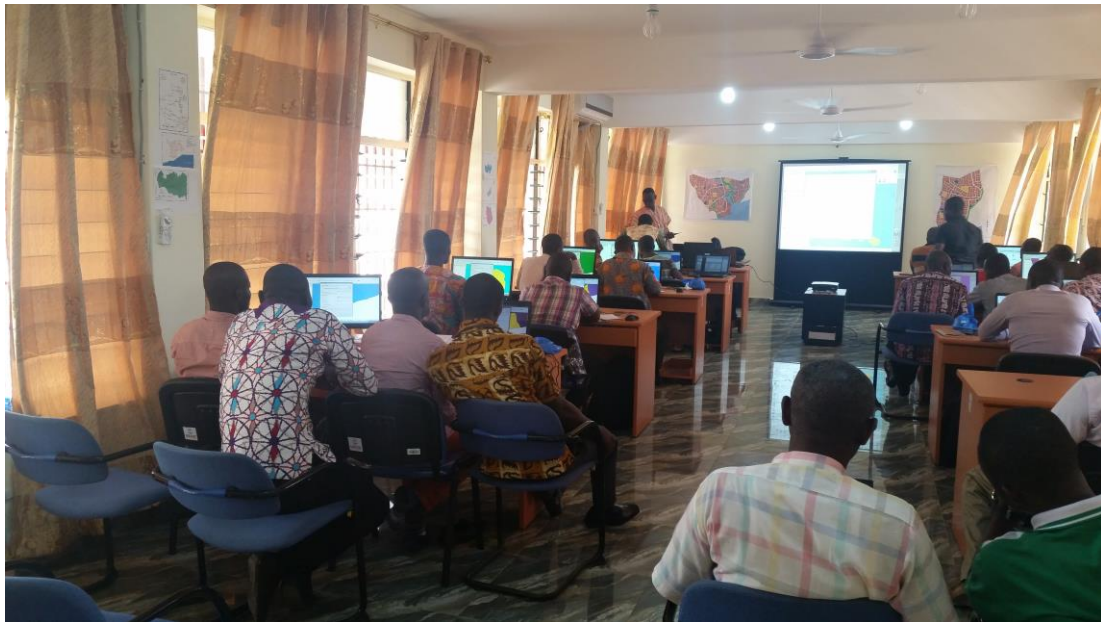


Figure 2: A view of participants at the training

OPENING REMARKS

Mr. Martey Korley, the Director of the Central region Town and Country Planning Department, welcomed participants to the training workshop and encouraged participants to demonstrate diligence in order to take full advantage of the opportunity offered them. He commended USAID-SFMP project for the enormous support the region has received through the Data Hub and the series of trainings. He encouraged participants to judiciously make use of the knowledge acquired and continually practice the lessons to add value to their work.

TRAINING FACILITATION AND MODULES

The training workshop was facilitated by Mr. Richard John-Jones, the Hub Instructor of the Western Region GIS Data Hub and an Assistant Town Planning Officer; Mr. Justice Camillus Mensah, the GIS officer of SFMP and Hen Mpoano; Mr. Obed Agyapong, the Central region GIS Data Hub Coordinator and Munzamil Mohammed of Spatial Solutions. The modules for the training were inspired by the results of the Training needs assessment. The modules were however modified slightly to address some of the issues from the first training. Quantum GIS and the LUPMIS tools (built on Map Maker) were the main GIS software used for the trainings. Participants were also provided with tutorial videos relevant to the modules treated.

Modules taught during the training are listed as follows;

Day 1

1. Introduction to basic computing.
2. Introduction to basic GIS and Remote sensing.
3. Installation of QGIS software.
4. How to extract district based datasets from national databases such as road networks, towns, vegetation, towns etc.

Day 2

1. Georeferencing scanned maps (planning schemes).
2. How to digitize from raster Data.
3. How to add attributes in a new & existing shapefiles.
4. Symbology and styling in QGIS.

Day 3

1. Summary of previous lessons.
2. Introduction to GPS .
3. Data collection with the use of GPS (point, lines and polygon features).
4. How to import GIS data from GPS to QGIS using DNRGPS Software.
5. How to edit and clean data.

The material used for the event is found in the Manual for GIS Training of Central Regional TCPD Officers, which is online at

http://www.crc.uri.edu/download/GH2014_SCI060_SpS_FIN508.pdf



Figure 3: Training in session

EVALUATION OF PARTICIPANTS

The knowledge gain of participants was assessed in a number of ways. Hands-on exercises, demonstration (by participants) and question and answer sessions were some of the ways the participants were evaluated. The map products from participants are shown in the Annex

GENERAL ASSESSMENT OF TRAINING WORKSHOP

Participants expressed their expectations for the next training and made some recommendations for the subsequent trainings.

Some of the expectations of the participants were as follows

- to learn how to edit a polygon parcels (expansion /enlargement) and how to prepare a site plan with QGIS software.
- to learn how to apply digitizing in editing district datasets and to produce professional maps for planning and other purposes
- to learn how to use LUPMIS and GPS systems to plot site plans that would be accepted at the regional level
- To learn how map maker file formats could be imported into QGIS, learn how to geo-reference in QGIS, and how to manually enter coordinates of points from printed or hand-written data

- to know how to import and use spatial data in excel formats
- to know how to use GPS receivers and how data from the device could be imported into the QGIS software.

The participants also made the following recommendations

- More information on the fundamentals of computing should be provided as part of the introduction to enable easy understanding of the course.
- The facilitators should slow down in their explanation of some of the concepts and processes.
- Handouts on the use of QGIS software could be given to facilitate the learning processes.
- Practical exercises should be done more frequently to help participants grasp the concepts well.
- Stable internet should be provided to enable some of the internet based steps to be learnt.
- The period for the training should be extended.
- This training should be extended to the other TCPD officers.
- Revisit the use of GPS for collecting waypoints and transferring into the computer.
- Provide more videos that are relevant to our work.

ANNEX

Annex 1: Training Agenda

Ghana Sustainable Fisheries Management Project (SFMP)

Second Training of Central Region Town and Country Planning Department Officers

10th-12th January, 2017

Central Regional GIS Data Hub, Cape Coast

AGENDA

Training Session	
Days (1, 2 and 3)	
8:30-9:00am	Registration of participants
9:00-12pm	Session begins with
12:00pm-12:30	Snack Break
12:30-1:30pm	Training continues
1:30-2:30pm	Launch break
2:30-5:30pm	Training continues

Annex 2: Attendance

**GHANA SUSTAINABLE FISHERIES PROJECT-HM
PARTICIPANTS ROSTER INFORMATION**

Required in English

Please Print

Title of Course: ___ TRAINING OF CENTRAL REGION TOWN AND COUNTRY PLANNING DEPARTMENT OFFICERS

Activity:
_____ TRAINING _____

Date: _____ 10TH-12TH JANUARY, 2017 _____

Length of Course: Less than three days Three days or longer

First Name	Surname	Organization	Email if available	Phone number	Sex			
					M	F	Y	N
RANSFORD	ROCKSON	TCPD GOMOA WEST			X			
FRIMPONG	AMEYAW	TCPD AWUTU SENYA			X			
EBENEZER	ACKOM	TCPD EKUMFI			X			
ERIC KWESI	ODURO	TCPD AWUTU SENYA			X			
SELORM	GBORGBOR	TCPD KEEA			X			
First Name	Surname	Organization			M	F	Y	N
First Name	Surname	Organization			M	F	Y	N
HARUNA	SAALU	EFFUTU			X			

First Name	Surname	Organization	Email if available	Phone number	Sex		Do you wish to receive messages on SFMP?	
					M	F	Y	N
EBENEZER	AFUTU	EFFUTU			X			
RICHARD	ANDZIE QUAINOO	MFANTSEMAN			X			
HARUNA	APPIAH	MFANTSEMAN			X			
OBED	AGYAPONG	GOMOA EAST			X			
ISAAC	ASARE	REG. TCPD			X			
SAMUEL	OSEI-BAAFI	KEEA			X			
RICHMOND	BOTCHWAY	ABURA ASEBU			X			
ALEX	ASARE ADU	EKUMFI			X			
ERNEST	BOATENG	CCMA			X			
MICHAEL	LARBI	ABURA ASEBU			X			
TETTEH	DOKU	GOMOA WEST			X			
First Name	Surname	Organization			M	F	Y	N
MICHAEL	TAKYI	CEWEFIA			X		X	
KONADU	BOAKYE	CEDECOM			X		X	
DAVID	MINTAH	CEDECOM			X		X	

First Name	Surname	Organization	Email if available	Phone number	Sex		Do you wish to receive messages on SFMP ?	
					M	F	Y	N
PHILIP	PRAH	FON			X		X	
FRANCIS	OSEI	GOMOA EAST			X			
DESMOND	TUTU	REGIONAL OFFICE			X			

Annex 3: Map products

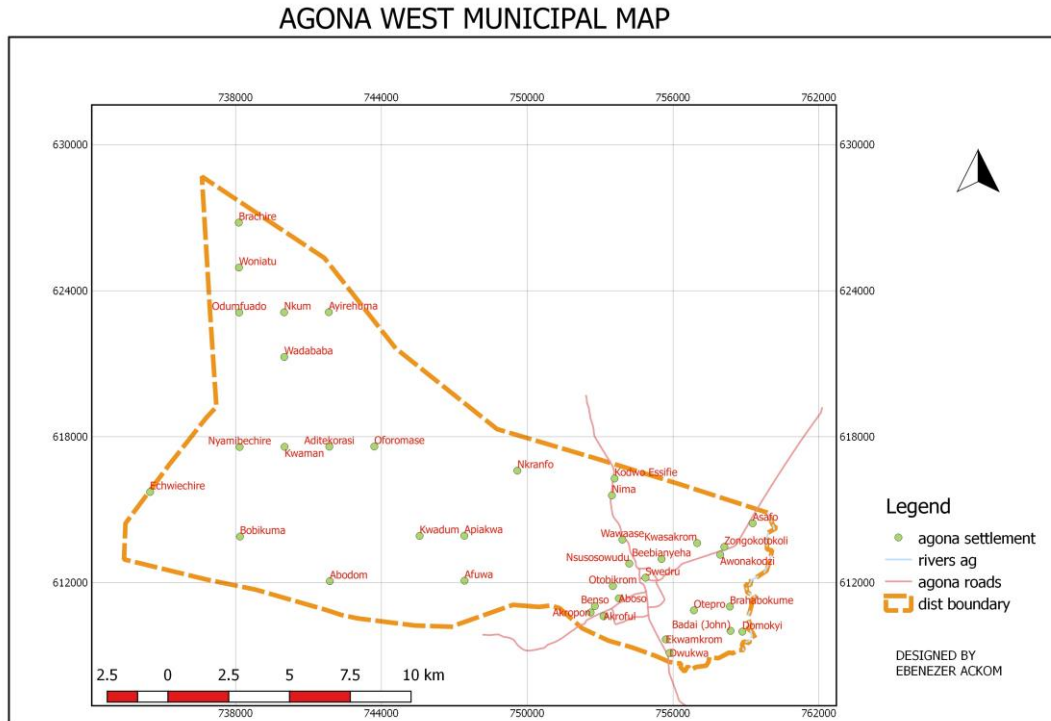


Figure 4 Agona West Municipal Map

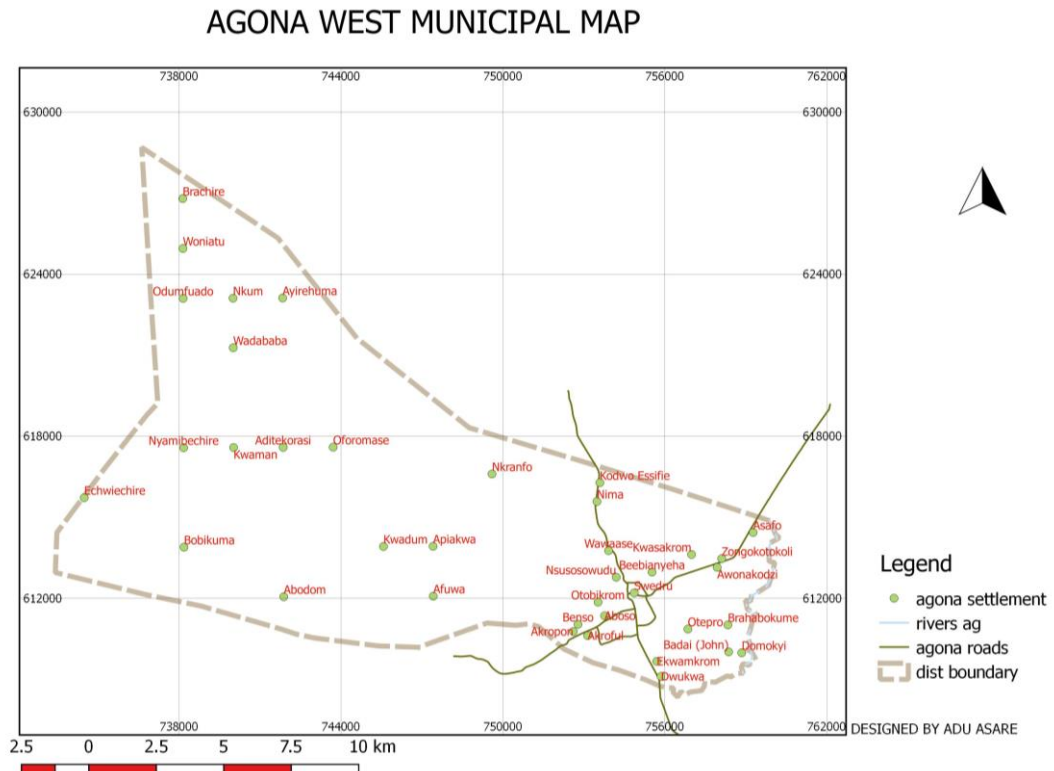


Figure 5 Agona West Municipal Map

AGONA EAST DISTRICT MAP

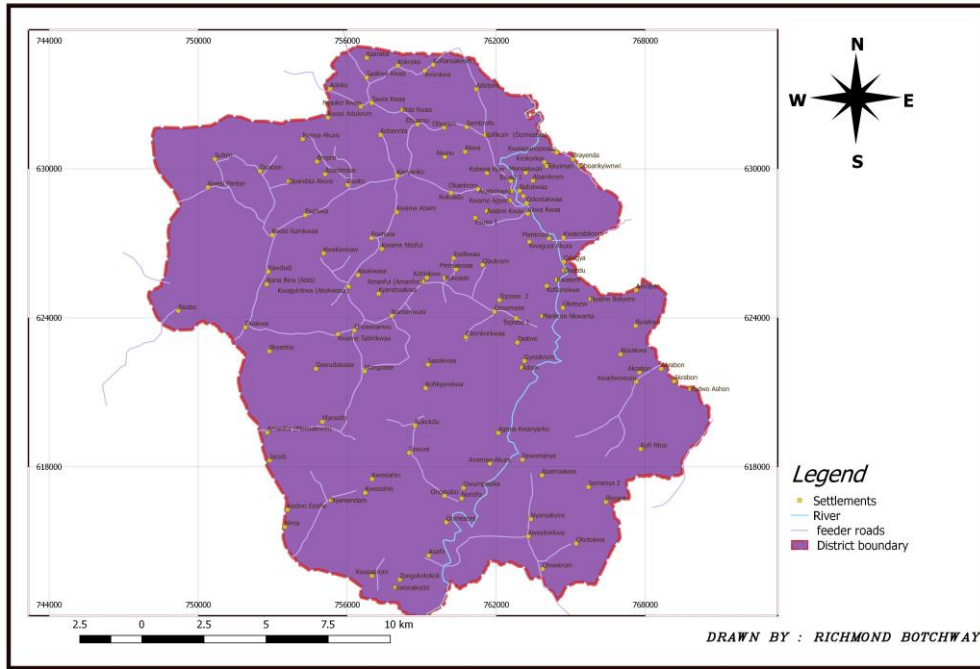


Figure 6 Agona East District Map

AGONA EAST DISTRICT MAP

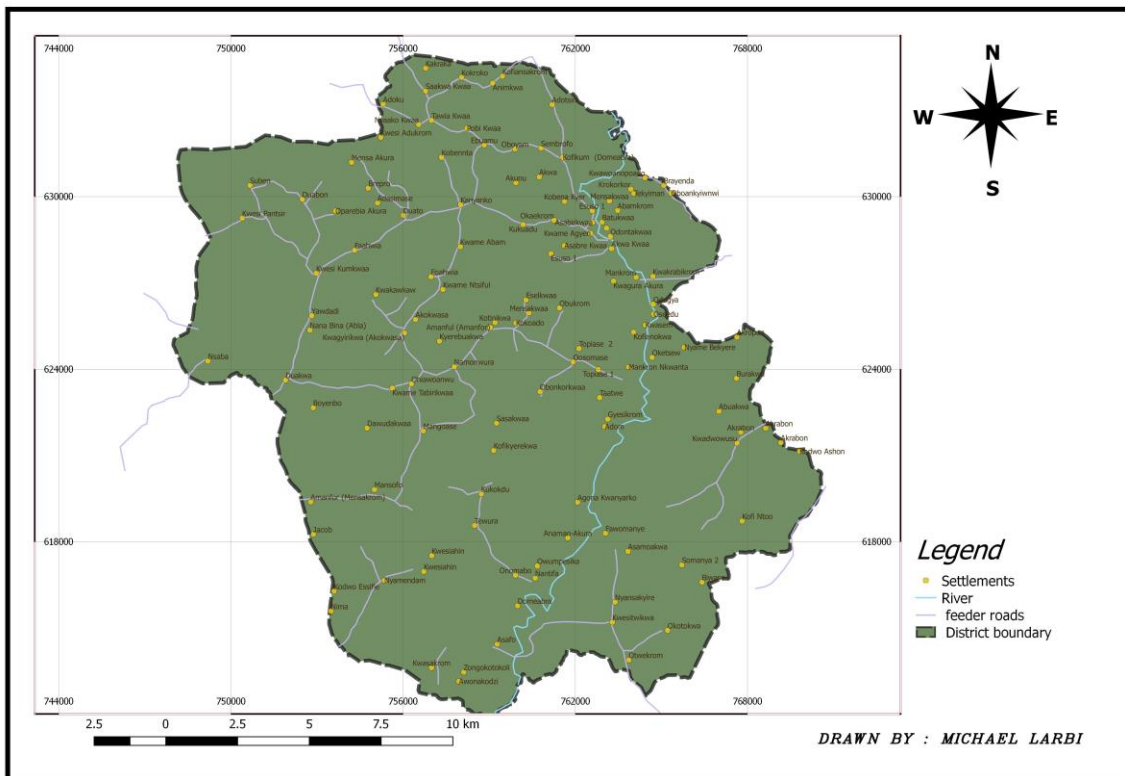


Figure 7 Agona East District

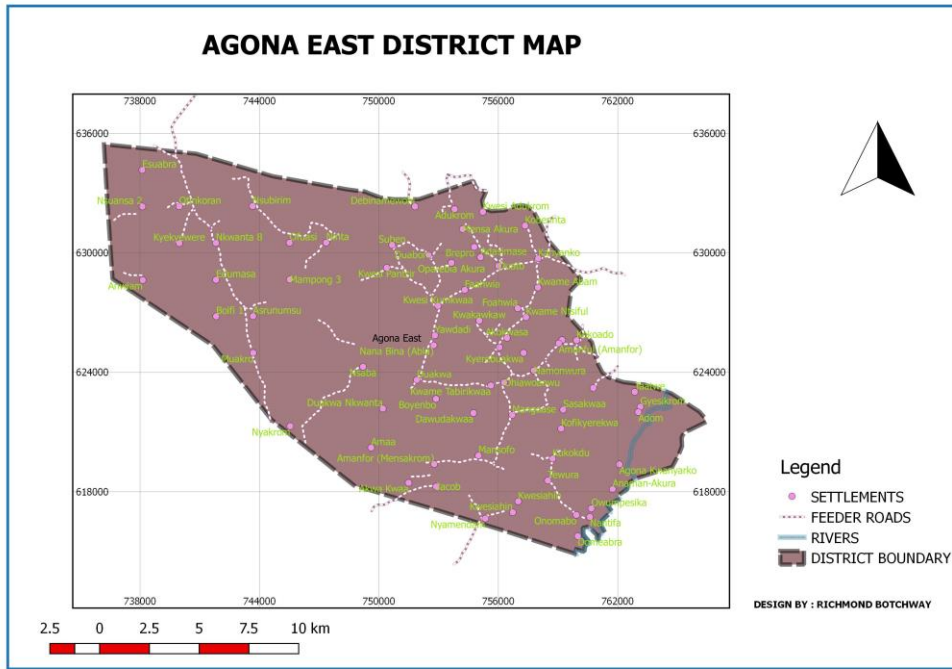


Figure 8 Agona East District Map

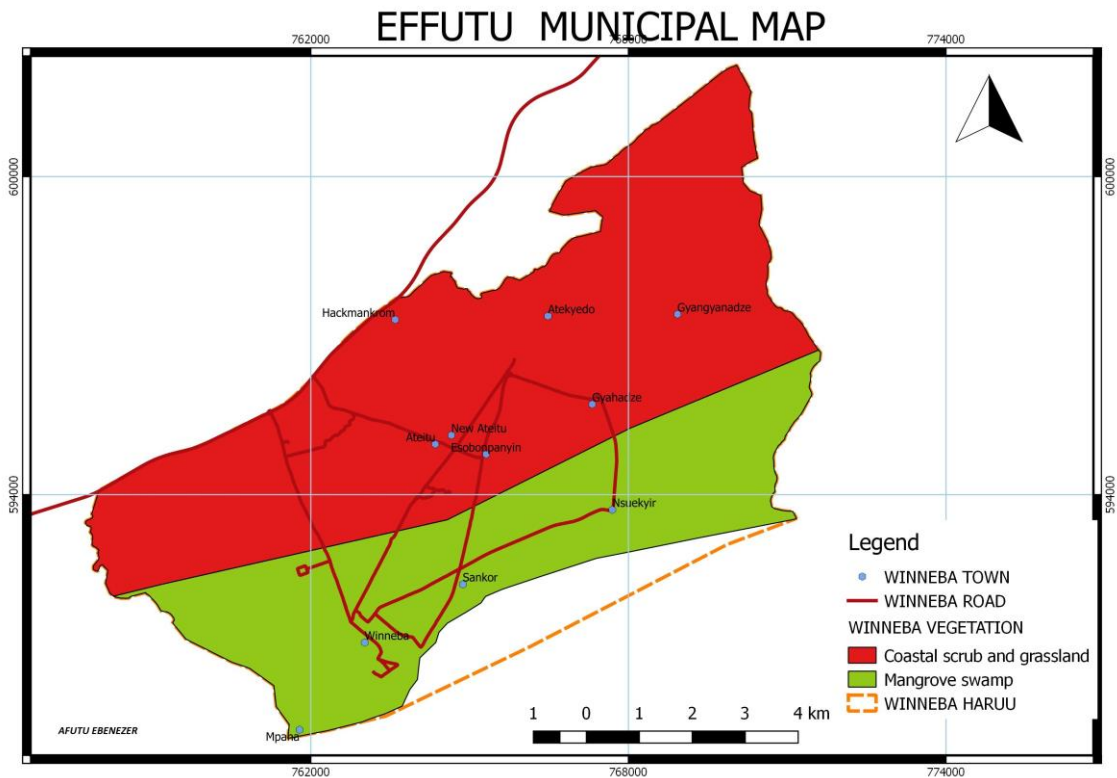


Figure 9 Effutu Municipal Map

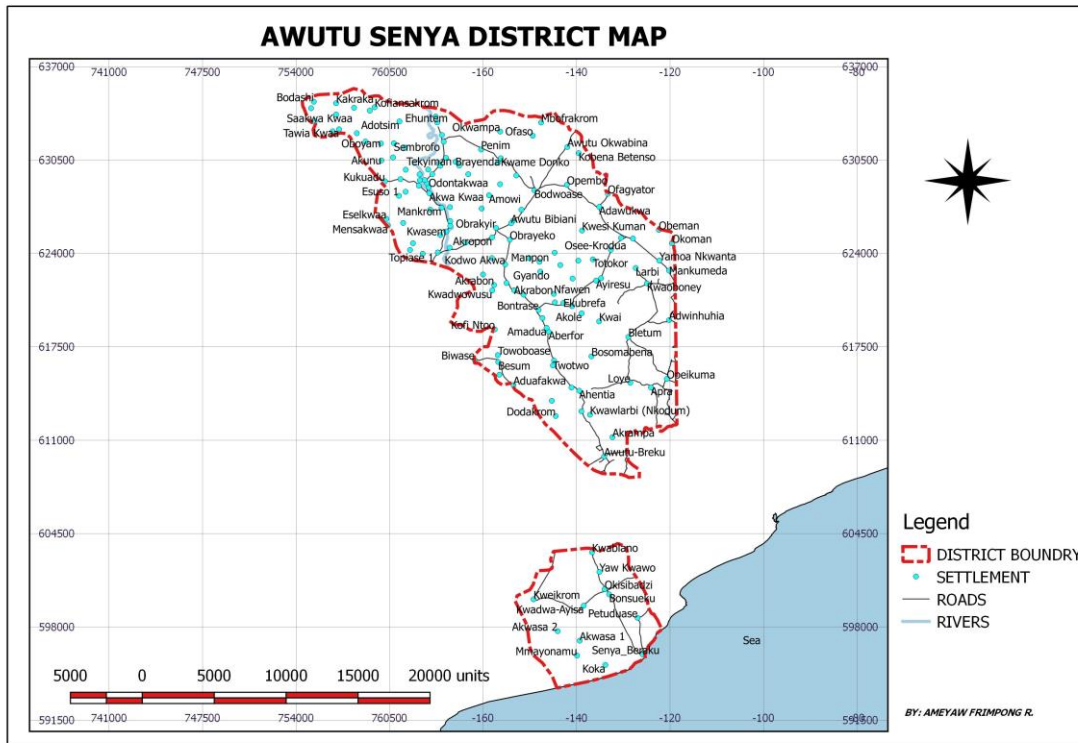


Figure 10 Awutu Senya District Map

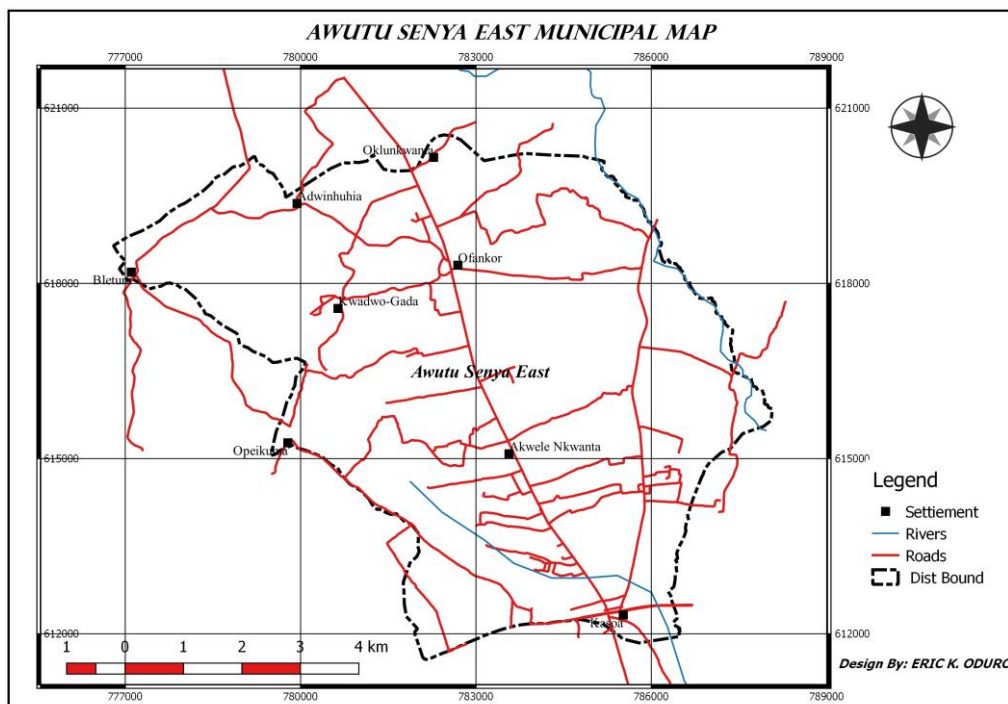


Figure 11 Awutu Senya East Municipal Map

CAPE COAST METROPOLITAN MAP

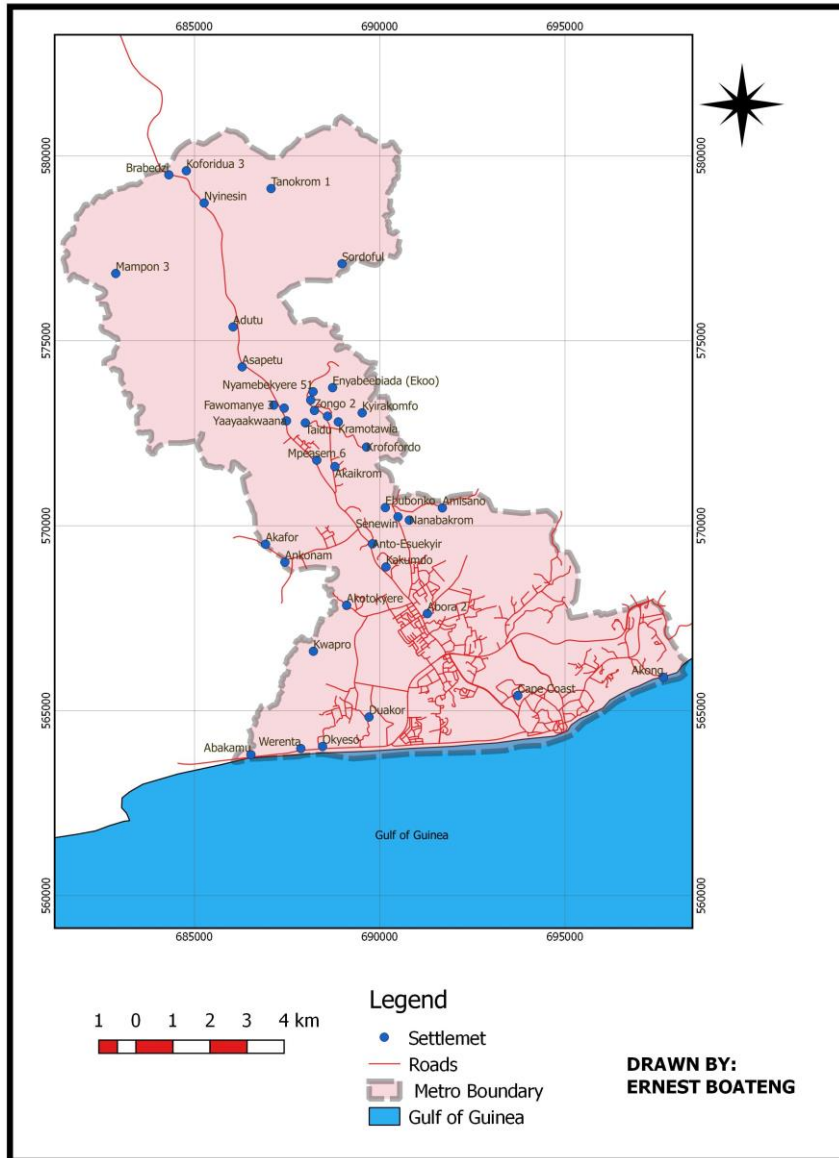


Figure 12 Cape Coast Metropolitan Map

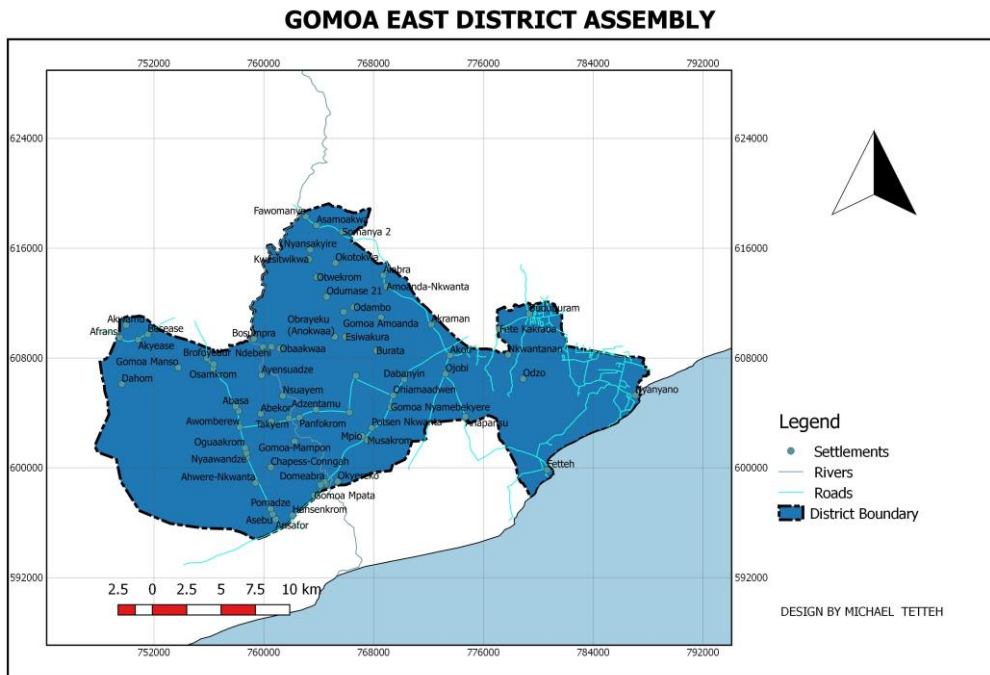


Figure 13 Gomoa East District Assembly

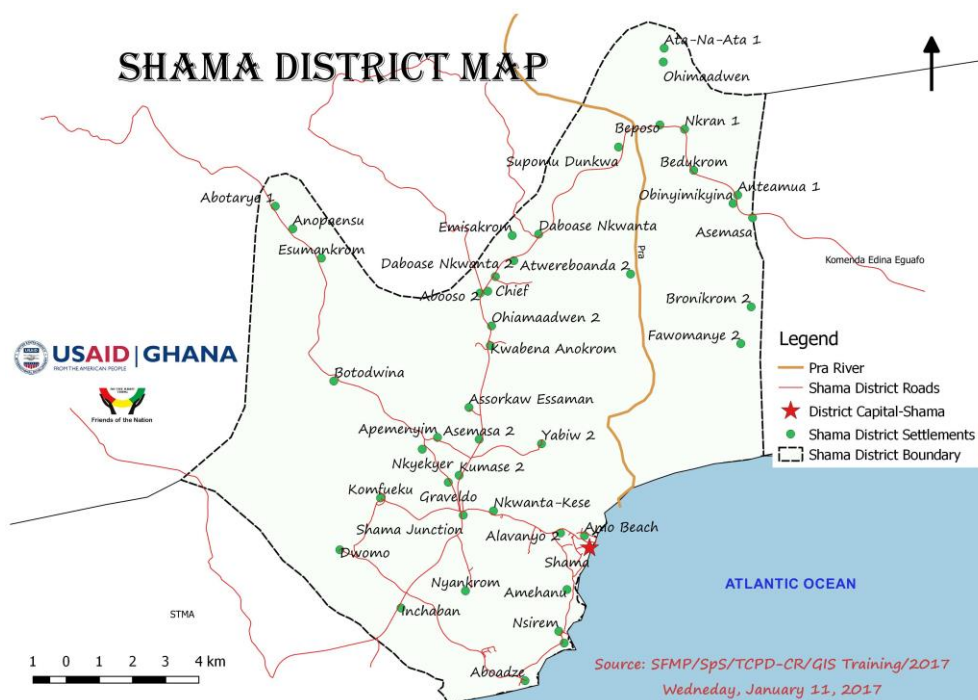


Figure 14 Shama District Map