**REPORT ON CREW REGIONAL CONSULTATIVE WORKSHOPS**

**12TH NOVEMBER – 6TH DECEMBER, 2013**

**BY**

**CREW PROJECT MANAGEMENT UNIT**

**DEC, 2013**

**Content**

[List of Tables v](#_Toc377110761)

[List of Figures vi](#_Toc377110762)

[1.0 Background 1](#_Toc377110763)

[1.1 Workshop Programme 1](#_Toc377110764)

[2.0 Volta Regional Consultative Workshop Report 4](#_Toc377110766)

[2.1 Workshop Opening 4](#_Toc377110767)

[2.2 Welcome Address 4](#_Toc377110769)

[2.3 CREW Project Overview, Baseline Data, and Workshop Objectives 5](#_Toc377110770)

[2.4 Session 1: Envisioning an Effective Regional Early Warning System 5](#_Toc377110771)

[2.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 6](#_Toc377110773)

[2.6 Session 3: Pilot Sites Selection 7](#_Toc377110774)

[3.0 Western Regional Consultative Workshop Report 8](#_Toc377110776)

[3.1 Workshop Opening 8](#_Toc377110777)

[3.2 Welcome Address 8](#_Toc377110779)

[3.3 CREW Project Overview, Baseline Data, and Workshop Objectives 9](#_Toc377110780)

[3.4 Session 1: Envisioning an Effective Regional Early Warning System 9](#_Toc377110781)

[3.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 9](#_Toc377110783)

[3.6 Session 3: Pilot Sites Selection 10](#_Toc377110784)

[4.0 Central Regional Consultative Workshop Report 12](#_Toc377110786)

[4.1 Workshop Opening 12](#_Toc377110787)

[4.2 Welcome Address 12](#_Toc377110789)

[4.3 CREW Project Overview, Baseline Data, and Workshop Objectives 13](#_Toc377110790)

[4.4 Session 1: Envisioning an Effective Regional Early Warning System 13](#_Toc377110791)

[4.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 13](#_Toc377110793)

[4.6 Session 3: Pilot Sites Selection 14](#_Toc377110794)

[5.0 Eastern Regional Consultative Workshop Report 15](#_Toc377110796)

[5.1 Workshop Opening 15](#_Toc377110797)

[5.2 Welcome Address 15](#_Toc377110799)

[5.3 CREW Project Overview, Baseline Data, and Workshop Objectives 15](#_Toc377110800)

[5.4 Session 1: Envisioning an Effective Regional Early Warning System 16](#_Toc377110801)

[5.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 16](#_Toc377110803)

[5.6 Session 3: Pilot Sites Selection 17](#_Toc377110804)

[6.0 Greater Accra Regional Consultative Workshop Report 18](#_Toc377110806)

[6.1 Workshop Opening 18](#_Toc377110807)

[6.2 Welcome Address 18](#_Toc377110809)

[6.3 CREW Project Overview, Baseline Data, and Workshop Objectives 19](#_Toc377110810)

[6.4 Session 1: Envisioning an Effective Regional Early Warning System 19](#_Toc377110811)

[6.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 20](#_Toc377110813)

[6.6 Session 3: Pilot Sites Selection 20](#_Toc377110814)

[7.0 Ashanti Regional Consultative Workshop Report 22](#_Toc377110816)

[7.1 Workshop Opening 22](#_Toc377110817)

[7.2 Welcome Address 22](#_Toc377110819)

[7.3 CREW Project Overview, Baseline Data, and Workshop Objectives 22](#_Toc377110820)

[7.4 Session 1: Envisioning an Effective Regional Early Warning System 23](#_Toc377110821)

[7.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 23](#_Toc377110823)

[7.6 Session 3: Pilot Sites Selection 24](#_Toc377110824)

[8.0 Brong Ahafo Regional Consultative Workshop Report 25](#_Toc377110826)

[8.1 Workshop Opening 25](#_Toc377110827)

[8.2 Welcome Address 25](#_Toc377110829)

[8.3 CREW Project Overview, Baseline Data, and Workshop Objectives 26](#_Toc377110830)

[8.4 Session 1: Envisioning an Effective Regional Early Warning System 26](#_Toc377110831)

[8.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 27](#_Toc377110833)

[8.6 Session 3: Pilot Sites Selection 27](#_Toc377110834)

[9.0 Upper West Regional Consultative Workshop Report 29](#_Toc377110836)

[9.1 Workshop Opening 29](#_Toc377110837)

[9.2 Welcome Address 29](#_Toc377110839)

[9.3 CREW Project Overview, Baseline Data, and Workshop Objectives 30](#_Toc377110840)

[9.4 Session 1: Envisioning an Effective Regional Early Warning System 30](#_Toc377110841)

[9.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 31](#_Toc377110843)

[9.6 Session 3: Pilot Sites Selection 31](#_Toc377110844)

[10.0 Northern Regional Consultative Workshop Report 33](#_Toc377110846)

[10.1 Workshop Opening 33](#_Toc377110847)

[10.2 Welcome Address 33](#_Toc377110849)

[10.3 CREW Project Overview, Baseline Data, and Workshop Objectives 34](#_Toc377110850)

[10.4 Session 1: Envisioning an Effective Regional Early Warning System 34](#_Toc377110852)

[10.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 35](#_Toc377110854)

[10.6 Session 3: Pilot Sites Selection 36](#_Toc377110856)

[11.0 Upper East Regional Consultative Workshop Report 37](#_Toc377110858)

[11.1 Workshop Opening 37](#_Toc377110859)

[11.2 Welcome Address 37](#_Toc377110861)

[11.3 CREW Project Overview, Baseline Data, and Workshop Objectives 37](#_Toc377110862)

[11.4 Session 1: Envisioning an Effective Regional Early Warning System 38](#_Toc377110863)

[11.5 Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region 38](#_Toc377110865)

[11.6 Session 3: Pilot Sites Selection 39](#_Toc377110866)

[Appendix I: CREW Inception Workshop Programme 40](#_Toc377110868)

[Appendix II: Word Game 41](#_Toc377110870)

[Appendix III: Site Selection Matrix APPENDIX IV: POST WORKSHOP PARTICIPANT SURVEY 42](#_Toc377110871)

[APPENDIX IV: POST WORKSHOP PARTICIPANT SURVEY 43](#_Toc377110872)

[Appendix V: TERMS OF REFERENCE 44](#_Toc377110875)

[Appendix VI: Participant Lists for CREW Regional Consultative Workshops 48](#_Toc377110889)

**List of Tables**

Table 1: CREW Regional Consultative Workshop Schedule 2

Table 2: Synonyms of key words given by participants in Ho 6

Table 3: Top 5 Flood and Drought Prone Districts in the Volta Region 7

Table 4: Synonyms of key words given by participants in Takoradi 9

Table 5: Top 5 Flood Prone Districts in the Western Region 10

Table 6: Synonyms of key words given by participants in Cape Coast 13

Table 7: Top 5 Flood and Drought Prone Districts in the Central Region 14

Table 8: Synonyms of key words given by participants in Cape Coast 16

Table 9: Top 5 Flood and Drought Prone Districts in the Eastern Region 17

Table 10: Synonyms of key words given by participants in Accra 19

Table 11: Top 5 Flood and Drought Prone Districts in the Greater Accra Region 21

Table 12: Synonyms of key words given by participants in Kumasi 23

Table 13: Top 5 Flood and Drought Prone Districts in the Ashanti Region 24

Table 14: Synonyms of key words given by participants in Sunyani 26

Table 15: Top 5 Flood and Drought Prone Districts in the Brong Ahafo Region 28

Table 16: Synonyms of key words given by participants in Wa 30

Table 17: Top 5 Flood and Drought Prone Districts in the Upper West Region 32

Table 18: Synonyms of key words given by participants in Tamale 35

Table 19: Top 5 Flood and Drought Prone Districts in the Northern Region 36

Table 20: Synonyms of key words given by participants in Bolgatanga 38

Table 21: Top 5 Flood and Drought Prone Districts in the Upper East Region 39

**List of Figures**

Figure 1: Ho Participants 4

Figure 2: Takoradi Participants 8

Figure 3: Cape Coast Participants 12

Figure 4: Koforidua Participants 15

Figure 5: Accra Participants 18

Figure 6: Kumasi Participants 22

Figure 7: Sunyani Participants 25

Figure 8: Wa Participants 29

Figure 9: Tamale Participants 33

Figure 10: Bolgatanga Participants 37

# Background

Disaster Risk Reduction (DRR) is an urgent and significant development issue in Ghana. Recognizing the importance of strengthening DRR capacities in achieving sustainable development and poverty reduction in Ghana, the National Disaster Management Organization (NADMO) with funding from the Government of Norway, and in partnership with the United Nations Development Programme (UNDP), has initiated the **“*Community Resilience through Early Warning (CREW) Project*.”** Over the three-year (2013 to 2015) implementation period, the CREW Project aims to build capacities within the country to reduce disaster risk by putting in place an integrated early warning system that is both scientific and people-centred.

The project is designed in a way that aligns it with the Hyogo Framework of Action and the Ghana Plan of Action for DRR and CCA, and leads to tangible results at both national and community levels. Through the implementation of hazard mapping, early warning, and vulnerability assessment and reduction, the CREW Project aims to achieve 1) reduction of economic and human losses and damages from priority disasters, and 2) establishment of effective early warning and communication for priority hazards to reduce disaster risks in 10 pilot sites by 2015.

Following the official launch of the CREW project at the national level in Accra there was the need to hold Regional consultative workshops to formally inform and launch the project for key stakeholders in the ten (10) beneficiary Regions of the country, build partnership among key regional stakeholders and choose tentative pilot sites for DRR and EWS activities. The one-day workshop involved key regional actors related to the management of climate induced disasters as well as those germane to the establishment of Early Warning System (EWS) This report details the activities and outputs from the regional consultative workshops held in each of the 10 regional capitals of Ghana.

## Workshop Programme

The CREW regional consultative workshops were held from 13th November 2013 to 4th October 2013 in all the 10 regional capitals of Ghana (see Table 1 for the workshop schedule).

Table 1: CREW Regional Consultative Workshop Schedule

|  |  |  |
| --- | --- | --- |
| **Day** | **Date** | **Task** |
| Wed | 13-11-13 | Volta Region Workshop |
| Fri | 15-11-13 | Western Region Workshop |
| Mon | 18-11-13 | Central Region Workshop |
| Wed | 20-11-13 | Eastern Region Workshop |
| Fri | 22-11-13 | Greater Accra Workshop |
| Mon | 25-11-13 | Ashanti Regional Workshop |
| Wed | 27-11-13 | Brong-Ahafo Regional Workshop |
| Fri | 29-11-13 | Upper West Regional Workshop |
| Mon | 02-12-13 | Northern Regional Workshop |
| Wed | 04-12-13 | Upper East Regional Workshop |

The programme for all ten regional consultative workshops followed the same schedule (see annex I for workshop programme). This involved a formal opening and introduction of participants followed by a welcome address by the regional NADMO host. The keynote address is subsequently delivered by either the Regional Minister or an RCC representative. The next activity is a presentation by the CREW project manager who provides an overview of the CREW Project, baseline data on disasters in Ghana as well as the objectives of the workshop.

The first session of the workshops focused on two group activities. The first activity is a word game that focuses on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants are split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. The second activity of the session is also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. The CREW Technical Advisor, Mr. Philip Mantey, presented the approach, methodology and results of the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region. The second presentation on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention.

The third and final session of the workshops involved a group activity on the selection of pilot sites for flood and drought risk mapping and early warning system development using a scoring matrix developed by the CREW Research Technical Working Group. All the districts in each of regions are scored on the different criteria relating to flood and drought hazards, vulnerability and capacity. The top five districts per region in terms of flood and drought disasters are then shortlisted as input into the final site selection. The workshops ended with a survey of participants and a closing prayer.

# Volta Regional Consultative Workshop Report

## Workshop Opening

The Volta Regional consultative workshop was held on the 13th of November 2013 at the SkyPlus Hotel in Ho. The workshop was opened with a prayer from one of the participants. This was followed by the introduction of participants of the workshop (Fig. 1). The list of all the participants of the Volta Regional Consultative Workshop is provided in Annex V.

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Figure 1: Ho Participants

## Welcome Address

The welcome address was delivered by Mr. Mintah who represented the Volta Regional Minister. In his address, Mr. Mintah lamented the difficult start to the year in terms of disaster occurrences in the country. He indicated that he was glad that NADMO had been able to prevail in the face of the challenges. He said that the workshop affords a good opportunity for knowledge sharing in disasters in the country. He welcomed participants to the Volta Region which he said represented a microcosm of the larger Ghanaian territory in as evidence in its ethnic and ecological characteristics.

The chairperson for the occasion, Mr. Nat King Tackie was also the platform chairman for disasters in the Volta Region. In his address, he stressed that dealing with disasters is not a preserve for the government alone but must also involve the larger society. He observed that Disaster risk reduction was an urgent imperative in Ghana and believed that the CREW project was very timely. He called on participants to bring their minds to bear on the issues to be discussed during the various sessions of the workshop.

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 1 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 2: Synonyms of key words given by participants in Ho

|  |  |
| --- | --- |
| Community | Village, Town, Cottage, Settlement, Suburb, Neighbourhood, Zone, Enclave, Habitat, Hamlet. |
| Disaster | Catastrophy, Calamity, Accident, Mishap, Plague, Distress, Conflict, Destruction. |
| Resilience | Endurance, Cope, Stability, Preventive, Withstand, Protective, Recover, Healthy, Regain, Fence, Overcome, Robust. |
| Early Warning | Alert, Sensitize, Alarm, Awareness, Forecast, Foreknowledge, Information, Prediction, Readiness, Preparedness. |

Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region are presented in Tables 3.

Table 3: Top 5 Flood and Drought Prone Districts in the Volta Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| Akatsi South | Adaklu |
| Keta | Afadjato |
| Adaklu | Agortime Ziope |
| Afadjato | Akatsi North |
| Nkwanta South | Akatsi South |

# Western Regional Consultative Workshop Report

## Workshop Opening

The Western Regional consultative workshop was held on the 15th of November 2012 in Takoradi at the Hillcrest Hotel. The workshop was opened with a prayer by Reverend Ernest Kofi of the regional platform. Introduction of workshop participants (Fig. 2) followed the opening prayer. The list of the participants of the Western Regional Consultative workshop is provided in Annex V.



Figure 2: Takoradi Participants

## Welcome Address

A short welcome address was given by the Regional NADMO Coordinator, Mr. Japheth Baidoo. He stressed the importance that disasters all over the world have attracted, thus necessitating the development of the Hyogo Framework for Action. He indicated that Ghana had already achieved Priority 1 of the framework which is to ensure that disaster risk reduction is made a national and a local priority with a strong institutional basis for implementation. He encouraged participants to give the workshop their necessary attention during the deliberations.

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 4 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 4: Synonyms of key words given by participants in Takoradi

|  |  |
| --- | --- |
| Community | Area, Settlement, Suburb, Vicinity, Society, Town, Village, Location, Place, Habitat |
| Disaster | Danger, Havoc, Calamity, Misfortune, Calamity, Catastrophe, Destruction, Devastation, Mayhem, Mishap |
| Resilience | Withstand, Resistance, Endurance, Resistance, Perseverance, Durability, Tough, Strength, Recovery, Coping |
| Early Warning | Information, Prediction, Alert, Forecast, Signal, Foretell, Prompting, Foresee, Communication, Caution, Alarm, Signs |

## Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

## Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region as selected by participants are presented in Table 5.

Table 5: Top 5 Flood Prone Districts in the Western Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| Sekondi Takoradi | Elembele |
| Tarkwa Nsuaem | Jomoro |
| Prestea Huni Valley | Bia West |
| Shama | Bia East |
| Bibiani | Suaman |

# Central Regional Consultative Workshop Report

## Workshop Opening

The Central Regional consultative workshop was held on the 18th November 2012 in Cape Coast at the Sanaa Lodge. The workshop was opened with a prayer by a participant. This was followed by the introduction of participants (Fig 3). The list of the participants of the Central Regional Consultative Workshop is provided in Annex V.



Figure 3: Cape Coast Participants

## Welcome Address

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 6 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 6: Synonyms of key words given by participants in Cape Coast

|  |  |
| --- | --- |
| Community | Township, Settlement, Village, Dwelling, Estate |
| Disaster | Threats, Events, Hazard, Calamity, Catastrophe, Accident, Crisis |
| Resilience | Capacity, Withstand, Bounce back, Endurance, Prevention |
| Early Warning | Alert, Alarm, Sign, Symptom, Fore Knowledge, Indication, Detection, Caution. |

## Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

## Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region as selected by participants are presented in Table 7.

Table 7: Top 5 Flood and Drought Prone Districts in the Central Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| Komenda Edina Ebirem | Ekumfi |
| Cape Coast | Gomoa East |
| Agona West | Cape Coast |
| Efutu | Agona West |
| Gomoa West | Awutu Senya |

# Eastern Regional Consultative Workshop Report

## Workshop Opening

The Eastern Regional consultative workshop was held on the 20th November 2012 in Koforidua at the Mac Dic Royal Plaza Hotel. The workshop was opened with a prayer by a participant. This was followed by the introduction of participants (Fig 4). The list of the participants of the Eastern Regional Consultative Workshop is provided in Annex V.



Figure 4: Koforidua Participants

## Welcome Address

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 8 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 8: Synonyms of key words given by participants in Cape Coast

|  |  |
| --- | --- |
| Community | Township, Settlement, Village, Dwelling, Estate, Vicinity, Catchment, |
| Disaster | Threats, Events, Hazard, Calamity, Catastrophe, Accident, Crisis, Destruction, incident |
| Resilience | Capacity, Withstand, Bounce back, Endurance, Prevention, Fortified, Strengthened |
| Early Warning | Alert, Alarm, Sign, Symptom, Fore Knowledge, Indication, Detection, Caution. |

## Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

## Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region as selected by participants are presented in Table 9.

Table 9: Top 5 Flood and Drought Prone Districts in the Eastern Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| New Juaben | New Juaben |
| Suhum Kraboa Coaltar | Lower Manya Krobo |
| Yilo Krobo | Afram Plains North |
| West Akim | Kwahu |
| Fanteakwa | Birim Central |

# Greater Accra Regional Consultative Workshop Report

## Workshop Opening

The Greater Accra Regional consultative workshop was held on the 22nd November 2012 in Accra at the M-Plaza Hotel. The workshop was opened with a prayer by a participant. This was followed by the introduction of participants (Fig 5). The list of the participants of the Central Regional Consultative Workshop is provided in Annex V.



Figure 5: Accra Participants

## Welcome Address

Mr. Ebenezer Dosoo, the Deputy National Coordinator of NADMO (Technical) delivered the keynote address on behalf of Mr. Portuphy. He spoke of the help from the Norwegian Embassy through the instrumentation of the late President JEA Mills. He delved into the import of the CREW project particularly on the fusion of the scientific and indigenous knowledge.

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 10 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 10: Synonyms of key words given by participants in Accra

|  |  |
| --- | --- |
| Community | Surroundings, Town, Hamlet, Chalet, Habitat, Vicinity, Location Neighbourhood, Cottage, Settlement, Village, Dwelling, Estate , Township, Environment |
| Disaster | Calamity, Destruction, Epidemic, Pandemic, Devastation, Accident, Fire Outbreak, Flood, Earthquake, Emergency, Catastrophe, Hazard, Tragedy, Loss, Damages, Mishap, Misfortune, Distress |
| Resilience | Resistance, Defence, Protection, Capacity, Withstand, Bounce back, Endurance, Prevention, Reinforcement, Strong, Fortified, Well Prepared, Toughness, Impregnable, Secured. |
| Early Warning | Education, Information, Caution, Signals, Alarm, Alert, Preparedness, Awareness, Sign, Symptom, Fore Knowledge, Fore warned, Pre Notice, Pre-informed, Caution. |

## Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

## Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region as selected by participants are presented in Table 11.

Table 11: Top 5 Flood and Drought Prone Districts in the Greater Accra Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| Adentan | La Madina Nkwantanan |
| Accra | La Dadekotopon |
| Ashaiman | Accra |
| La Dadekotopon | Ga Central |
| Tema | Ashaiman |

# Ashanti Regional Consultative Workshop Report

## Workshop Opening

The Ashanti Regional consultative workshop was held on the 25th November 2012 in Kumasi at the Golden Tulip Hotel. The workshop was opened with a prayer by a participant. This was followed by the introduction of participants (Fig 6). The list of the participants of the Ashanti Regional Consultative Workshop is provided in Annex V.



Figure 6: Kumasi Participants

## Welcome Address

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 12 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 12: Synonyms of key words given by participants in Kumasi

|  |  |
| --- | --- |
| Community | Habitat, Settlement, Village, Society, Locality, Residential Area, Town |
| Disaster | Accident, Calamity, Catastrophe, Misfortune, Mishap, Tragedy, |
| Resilience | Resistance, Endurance, Adaptive Capacity, Recovery, Coping, Withstand, Prevention, Buffer, |
| Early Warning | Alertness, Forecast, Precaution, Prevention, Indicator, Alarm System, Signal, |

## Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

## Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region as selected by participants are presented in Table 13.

Table 13: Top 5 Flood and Drought Prone Districts in the Ashanti Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| Obuasi | Asante Akim South |
| Kumasi | Asante North |
| Manpong | Offinso North |
| Bosumtwi | Asante Akim Central |
| Ejisu Juaben | Ejura Sekyedumase |

# Brong Ahafo Regional Consultative Workshop Report

## Workshop Opening

The Brong Ahafo Regional consultative workshop was held on the 27th November 2012 in Sunyani at the Eusbett Hotel. The workshop was opened with a prayer by a participant. This was followed by the introduction of participants (Fig 7). The list of the participants of the Brong Ahafo Regional Consultative Workshop is provided in Annex V.

Figure 7: Sunyani Participants

## Welcome Address

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 14 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 14: Synonyms of key words given by participants in Sunyani

|  |  |
| --- | --- |
| Community | Settlement, Dwelling, Society, Village, Area, Society, Town, Hamlet, Cottage. |
| Disaster | Destruction, Hazard, Accident, Disruption, Catastrophe, Calamity, Flooding |
| Resilience | Preparedness, Coping Strategy, Robust, Strength, Resistance, Stability, Resistance, Capacity, Sustainability |
| Early Warning | Signal, Education, Caution, Indicators, Education, Announcement, Awareness, Alarm, Prior Information |

## Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

## Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region as selected by participants are presented in Table 15.

Table 15: Top 5 Flood and Drought Prone Districts in the Brong Ahafo Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| Techiman | Atebubu Amantim |
| Asutifi South | Sene West |
| Sunyani | Sene |
| Asutifi North | Wenchi |
| Techiman North | Techiman |

# Upper West Regional Consultative Workshop Report

## Workshop Opening

The Upper West Regional consultative workshop was held on the 29th November 2012 in Wa at the Blue Hill Hotel. The workshop was opened with a prayer by a participant. This was followed by the introduction of participants (Fig 8). The list of the participants of the Upper West Regional Consultative Workshop is provided in Annex V.

Figure 8: Wa Participants

## Welcome Address

The regional NADMO Coordinator, Alhaji Seidu Bawa, delivered an address welcoming participants to the workshop. He indicated that the project aims to develop a new horizon of in-depth risk assessment in disaster hotspots, assess early warning gaps and needs in these hotspots and subsequently design a science-based and people centred disaster early warning system for the affected areas. He sees the CREW project as promoting a multi-sectoral approach to dealing with disasters in the country. He bemoaned the rising incidence of disasters from 2007 which have affected thousands of individuals and farmlands. He believed that the implementation of the CREW project will enrich the capacity of the populace as well as reduce their vulnerability and risks.

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 16 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 16: Synonyms of key words given by participants in Wa

|  |  |
| --- | --- |
| Community | Town, Settlement, Village, Dwelling, Suburb, Habitat, Neighbourhood, Society |
| Disaster | Hazard, Misfortune, Mishap, Havoc, Calamity, Catastrophe, Accident, Destruction, Displacement, Dislodging |
| Resilience | Resistance, Toughness, Robust, Withstand, Adaptation, |
| Early Warning | Alertness, Readiness Signals, Prior Information |

## Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

## Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region as selected by participants are presented in Table 17.

Table 17: Top 5 Flood and Drought Prone Districts in the Upper West Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| Wa | Sissala East |
| Lawra | Lawra |
| Nandom | Wa |
| Sissala East | Jirapa |
| Jirapa | Nadowli |

# Northern Regional Consultative Workshop Report

## Workshop Opening

The Northern Regional consultative workshop was held on the 2nd December 2013 in Tamale at the Gariba Lodge. The workshop was opened with a prayer by a participant. This was followed by the introduction of participants (Fig 9). The list of the participants of the Northern Regional Consultative Workshop is provided in Annex V.

Figure 9: Tamale Participants

## Welcome Address

The welcome address was delivered by a member of the Council of State and Chairman of the Regional Platform for Disasters, Vo-Naa Bawah.

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

***Questions and Comments***

1. Since the CREW Project is focusing on floods and droughts, what about human conflicts and bush fires?

Response: I understand the scope of the CREW project is in droughts and floods but there could be cross cutting issues e.g. the WEBEOC.

1. Since NADMO as the Implementing Partner already has financial problems how would the project fare with regard to finances?

Response: The Norwegian government is providing funding for the CREW project with support from the UNDP.

1. Can we know which district has been selected for the Northern Region?

Response: This workshop is partly to enable stakeholders contribute to the site selection.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 18 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 18: Synonyms of key words given by participants in Tamale

|  |  |
| --- | --- |
| Community | Village, Town, Hamlet, Suburb, Locality, Neighbourhood |
| Disaster | Danger, Havoc, Trouble, Mishap, Destruction, Inferno, Calamity |
| Resilience | Bridges, Embankment, Tree Planting, Desilting, Reconstruction, Withstand, Resistance, Robust, Endurance |
| Early Warning | Awareness, Education, Sensitization, Signals Prior Information, Town Crier, Drumming, Alarm, Proactiveness. |

## Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

## Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region as selected by participants are presented in Table 19.

Table 19: Top 5 Flood and Drought Prone Districts in the Northern Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| Savelugu Nanton | North Gonja |
| Saboba | Bunprugu Yunyoo |
| West Mamprusi | Manprugo Maoduri |
| North Gonja | Tamale |
| Karaga | Bole |

# Upper East Regional Consultative Workshop Report

## Workshop Opening

The Upper East Regional consultative workshop was held on the 4th December 2013 in Bolgatanga at the Blue Sky Hotel. The workshop was opened with a prayer by a participant. This was followed by the introduction of participants (Fig 10). The list of the participants of the Upper East Regional Consultative Workshop is provided in Annex V.

Figure 10: Bolgatanga Participants

## Welcome Address

## CREW Project Overview, Baseline Data, and Workshop Objectives

Dr. Kingsford Asamoah, the CREW project manager presented an overview of the CREW project, the objectives of the regional consultative workshop as well as baseline data on disasters in the country that was culled from the Daily Graphic for the period spanning 1987 to present.

## Session 1: Envisioning an Effective Regional Early Warning System

The first session of the workshop focused on two group activities. The first activity was a word game that focused on stimulating creative and “out-of-the-box” thinking in envisioning an effective early warning system. Participants were split into groups and asked to come out with synonyms to words such as community, disaster, resilience and early warning and to ultimately provide their own understanding and definition of what CREW stands for. Table 20 presents the collated outputs from the various groups from this exercise. The second activity of session 1 was also a group exercise on designing a flood/drought resilient community and the presentation of the corresponding output by group leaders in the plenary session.

Table 20: Synonyms of key words given by participants in Bolgatanga

|  |  |
| --- | --- |
| Community | Township, Habitat, Neighbourhood, Hamlet, People, Settlement, Dwelling, Habitation, Cottage, Hamlet, Society |
| Disaster | Destruction, Damage, Hazard, Loss, Havoc, Ruin, Catastrophe, Misfortune, Accident |
| Resilience | Coping, Adaptation, Remedies, Withstand, Resistance, Strength, Solutions, Endurance, Withstand, Firm, Capability, Management, Strategies |
| Early Warning | Awareness, Advance Notice, Information, Preparedness, Signals, Sings, Prompting, Pre-emption, Clues. |

## Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region

The second session of the workshops comprised two presentations that dwelt on recent efforts related to flood and drought risk mapping through AAP and indigenous knowledge on flood and drought early warning respectively. Mr. Philip Mantey, the CREW Technical Advisor delivered a presentation on the flood and drought risk mapping assignment undertaken in 5 pilot districts under the African Adaptation Project. The beneficiary districts were Aowin Suaman in the Western Region, Fanteakwa in the Eastern Region, Keta in the Volta Region, West Mamprusi in the Northern Region and Sissala East in the Upper West Region.The presentation focused on a GIS based approach to modelling flood and drought risk in the pilot districts using meteorological and topographical data in a multicriteria framework. The output maps were symbolised using a traffic light code of red-yellow-green denoting high risk-medium risk-low risk areas to drought or flood. The presentation showed the importance of knowing the spatial risk levels for different areas within the districts to enable the proper citing of safe havens and evacuation routes in case of flood disasters in particular.

The second presentation focused on indigenous knowledge on flood and drought early warning was presented by Dr. Kingsford Asamoah, the CREW Project Manager. This focused on district specific indigenous early warning knowledge on droughts and floods also from the five AAP pilot districts already mention. The indigenous knowledge on flood and drought early warning are based on the observation of natural occurrences such as the movement of animals, weather signs that have over time been associated with the flood and drought events as experienced by the indigenous populations in these districts.

## Session 3: Pilot Sites Selection

The pilot site selection exercise by participants was based on a scoring matrix developed by the CREW Research Technical Working Group (See Annex III). The five top districts for flood and drought disasters in the region as selected by participants are presented in Table 21.

Table 21: Top 5 Flood and Drought Prone Districts in the Upper East Region

|  |  |
| --- | --- |
| **Flood** | **Drought** |
| Bolgatanga | Kasena Nankana East |
| Kasena Nankana East | Kasena Nankana West |
| Bawku West | Bawku |
| Pusiga | Bawku West |
| Garu Tempane | Builsa South |

# Appendix I: CREW Inception Workshop Programme

**Inception Work Shop | Weekdays in Nov/Dec 2013**

**9.00 am Workshop Opening:**

**9:15 Introduction of Participants: Self Introduction**

**9:30 Welcome Address:** – Mr Kofi Portuphy (NADMO-National Coordinator)

**9:40 CREW Project Overview, Baseline Data, and Workshop Objectives:** – CREW Project Manager

**10.00 am Session 1: Envisioning an Effective Regional Early Warning System: -** *Dr. Asamoah (CREW/PMU-PM)*

Visioning Group Work: (Detailed Group Work exercise on designing a flood resilient community)

Presentation of Group Work: Group Leaders

**11:15 Short Break**

**11.30 am Session 2: Recent Efforts Related to Early Warning System in Ghana and the Region** Flood and Drought Hazard Mapping through AAP – *Phil Mantey (CREW/PMU-TA)*

Flood Mapping along the White Volta – *Dr. Asamoah (CREW/PMU-PM)*

Efforts to Transition from Manual to Automated Weather Information Gathering, Forecasting and Archiving – *Dr. Asamoah (CREW/PMU-PM)*

Indigenous Knowledge on flood and drought Early Warning - *Dr. Asamoah (CREW/PMU-PM)*

**12.30 pm Lunch**

**1.30 pm Session 3: Contextualizing the CREW Project to the Regional Level**

Group Work or Survey by Themes:

*Partnership, Communication and Coordination* – How can regional stakeholders effectively work with national and district stakeholders for effective EW information communication?

*Baseline Data Validation* – Participants to share and examine existing baseline info on disasters, identify gaps and provide supplementary information and sources if any.

*Pilot Sites Selection based on developed criteria -* select pilot sites using scoring matrix

Group Presentations

**4.00 pm Session 5: Reflection and Way Forward** (Moderator)

**Post workshop survey**

# Appendix II: Word Game

Play Word Game (Synonyms)

Key Words to be Explored (20 minutes)

|  |  |
| --- | --- |
| **GROUP #/**  **MEMBERS** |  |
|  |
| Community |  |
|  |
| Disaster |  |
|  |
| Resilience |  |
|  |
| Early Warning |  |
|  |

# Appendix III: Site Selection Matrix APPENDIX IV: POST WORKSHOP PARTICIPANT SURVEY

|  |  |  |
| --- | --- | --- |
|  |  | **2013 | CREW REGIONAL STAKEHOLDERS WORKSHOP** |

***Background Information***

Name (optional): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gender: 🞎 Male 🞎 Female

Age Group: 🞎 Below 19 🞎 20 – 29 🞎 30 – 39 🞎 40 – 49

🞎 50 – 59 🞎 60 – 69 🞎 70 and above

Organization Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sector: 🞎 National Government 🞎 Local Government 🞎Academic

🞎 Private Sector (which sector?) 🞎 Civil Society Organization

🞎 Bilateral Aid Agency 🞎 International Development Agency

🞎 Banks 🞎 Other (please elaborate: \_\_\_\_)

***Q1. What key knowledge/information have you gathered throughout the workshop?***

|  |  |
| --- | --- |
|  | Level of Understanding  High Med Low None |
| Existing and future work on disaster risk reduction (DRR) in Ghana | 🞎 🞎 🞎 🞎 |
| Existing and future work on early warning (EW) in Ghana | 🞎 🞎 🞎 🞎 |
| Objectives, activities, and plans of Crew Project | 🞎 🞎 🞎 🞎 |
| Effective communication methods related to DRR and EW | 🞎 🞎 🞎 🞎 |
| I was able to share my ideas in regard to Crew Project Site Selection | 🞎 🞎 🞎 🞎 |
| Other: *please write below* | 🞎 🞎 🞎 🞎 |

*Q2. Are you interested in participating in future CREW project activities? If so, how?*

|  |  |
| --- | --- |
| Are you interested in participating in future CREW project activities? | Yes No  🞎 🞎 |
| If Yes, in what way are you interested in participating?  🞎 Be part of the Regional Disaster Management Committee  🞎 Participate in future information sharing sessions  🞎 Other: *please elaborate below* | Please indicate your preferred contact details.  Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| If No, is there a particular reason? *Please elaborate below* |  |

# Appendix V: TERMS OF REFERENCE

**Community Resilience through Early Warning (CREW) Project**

**Regional Inception Workshops**

**Tuesday 12th November - Friday 7th December, 2013**

**1. Background**

Disaster Risk Reduction (DRR) is an urgent and significant development issue in Ghana. Recognizing the importance of strengthening DRR capacities in achieving sustainable development and poverty reduction in Ghana, the National Disaster Management Organization (NADMO) with funding from the Government of Norway, and in partnership with the United Nations Development Programme (UNDP), has initiated the “*Community Resilience through Early Warning (CREW) Project*.” Over the three-year (2013 to 2015) implementation period, the CREW Project aims to build capacities within the country to reduce disaster risk by putting in place an integrated early warning system that is both scientific and people-centred.

The project is designed in a way that aligns it with the Hyogo Framework of Action and the Ghana Plan of Action for DRR and CCA, and leads to tangible results at both national and community levels. Through the implementation of hazard mapping, early warning, and vulnerability assessment and reduction, the CREW Project aims to achieve 1) reduction of economic and human losses and damages from priority disasters, and 2) establishment of effective early warning and communication for priority hazards to reduce disaster risks in 10 pilot sites by 2015.

Following the official launch of the CREW project at the national level in Accra, there is the need to hold Regional workshops to formally inform and launch the Project for key stakeholders in the ten (10) beneficiary Regions of the country and also gather preliminary baseline information as part of the activities towards the successful implementation of the project. The one-day technical workshop would involve key regional actors related to the management of climate induced disasters as well as those germane to the establishment of Early Warning System (EWS) in the 10 regions of Ghana.

**2. Objectives**

The objectives of the Technical Workshop are to:

* Formally introduce and inform regional stakeholders regarding the CREW Project
* Build partnership amongst key regional stakeholders to enhance the implementation of the CREW Project
* Validate baseline data on disasters in the region for M&E purposes
* **Choose tentative pilot sites for DRR and EWS activities using scoring matrix**

**3. Proposed Programme & Participants**

Please see Annex 1 and 2.

**4. Estimated Budget Summary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item description** | **Qty** | **Unit Cost** **GH¢** | **Frequency** | **Total cost** **GH¢** |
| **DSA** |  |  |  |  |
| 88% PMU (Coordinator+PM+TA) | 3 | 233.2 | 4 | 2,798 |
| 100% PMU (Coordinator+PM+TA) | 3 | 265 | 5 | 3,975 |
| 100% PMU (Driver) | 1 | 132 | 9 | 1,188 |
| 88% UNDP Staff (NTS) | 1 | 233.2 | 4 | 933 |
| 100% UNDP Staff (NTS) | 1 | 265 | 5 | 1,325 |
| 88% UNDP Staff (PO) | 1 | 233.2 | 2 | 466 |
| 100% UNDP Staff (PO) | 1 | 265 | 2 | 530 |
| 100% UNDP Staff (Driver) | 1 | 265 | 4 | 1,060 |
| **Sub Total** |  |  |  | **12,276** |
|  |  |  |  |  |
| **T & T For Participants** |  |  |  |  |
| Takoradi & Accra | 31 | 25 | 2 | 1,550 |
| Ho and Koforidua | 31 | 20 | 2 | 1,240 |
| **Sub-Total** |  |  |  | **2,790** |
|  |  |  |  |  |
| **Conference Cost** |  |  |  |  |
| Cost of conference package for 35 Persons | 35 | 80 | 4 | 11,200 |
| **Sub-Total** |  |  |  | **11,200** |
|  |  |  |  |  |
| **Total Budget** |  |  |  | **26,266** |

**5. Expected Outputs and Deliverables**

The CREW regional Inception Workshops will result in the following outputs and deliverables:

* *Regional Inception Workshop Report* – that includes information and discussion related to the validation of available data and their sources (i.e. reports, study) (By 31 Dec, 2013)
* *Pilot Site Selection Report* - Using site selection scoring Matrix from RTWG workshop (By 31 Dec, 2013)

**6. M&E Plan**

A survey instrument will be developed and filled by participants exploring the effectiveness of the workshop achieving the intended outcome. Gender and age disaggregated data will be collected and analysed.

Furthermore, as indicated in the above section, pre-workshop and post workshop surveys and/or information gathering will be conducted in order to verify and update M&E Framework as well as gather appropriate baseline information.

**7. Communication Plan**

CREW Team to ensure that the CREW Project is effectively communicated to key stakeholders to foster interest and support to the project, as well as raise general awareness regarding the importance of making communities in the region more resilient to disasters through the establishment of an effective EWS.

*Pre-Event*

CREW Team will print programmes for the workshops.

CREW Team will identify information gaps which we need to request the specific regional stakeholders to provide/share at the workshop

*During the Event*

CREW Team will gather participants’ perceptions on how to make communities in Ghana disaster resilient through enhancing their access to information.

*Post-Event*

CREW Team will upload communication materials on CREW Project website.

**8.0 Travel and Workshop Itinerary**

|  |  |  |
| --- | --- | --- |
| **Day** | **Date** | **Task** |
| Wed | 13-11-13 | Volta Region Workshop |
| Fri | 15-11-13 | Western Region Workshop |
| Mon | 18-11-13 | Central Region Workshop |
| Wed | 20-11-13 | Eastern Region Workshop |
| Fri | 22-11-13 | Greater Accra Workshop |
| Mon | 25-11-13 | Ashanti Regional Workshop |
| Wed | 27-11-13 | Brong Ahafo Regional Workshop |
| Fri | 29-11-13 | Upper West Regional Workshop |
| Mon | 02-12-13 | Northern Regional Workshop |
| Wed | 04-12-13 | Upper East Regional Workshop |

# Appendix VI: Participant Lists for CREW Regional Consultative Workshops

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