Strengthening Climate Information and Early Warning Systems for Climate Resilient Development and Adaptation to Climate Change

Country Report for Malawi to the Workshop:

Creating Value Added Weather and Climate Services through Innovative Public Private Partnerships- Kampala, Uganda 2 – 6 MARCH 2015

The Presentation:

- Introduction
- Achievements
- 2015 Planned activities
- Challenges in implementation
- Sustainability: Cases involving PPPs

<u>IPs</u>

- Dept. of Disaster Management Affairs (DODMA, Leading IP),
- Dept. of Climate Change and Met Services (DCCMS),
- Dept. of Water Resources (DWR)

Expected Projects' Outcomes

- Enhanced capacity of the Department of Climate Change and Meteorological Services (DoCCMS) and Department of Water Resources (DWR) to monitor and forecast extreme weather, hydrology and climate change.
- 1. Efficient and effective use of hydro-meteorological and environmental information for making early warnings and long-term development plans.

Achievements in 2014

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	PLANNED ACTIVITY	ACHIEVEMENT
1	Stations' maintenance, rehabilitation and installation of 20 new AWSs and 5 AHSs to improve observation network	 Various conventional instruments, digital barometers and AWS spare parts procured 10 AWS procured Procurement of others underway
2	Capacity for operating and maintaining observation networks and related infrastructure developed – (trainings and courses)	 Courses in telecommunications, Network and system administration, and electrical engineering
3	Weather early warning awareness campaign for local communities and the media 4-Mar-15	 For 5 lake-shore districts: Awareness campaigns, Consultative meetings on early warning information accessibility and utilization, Instilling the sense of ownership of hydro-meteorological equipment to reduce vandalism, and Linked community radios to the NMC and PWS as sources of weather information

Achievements in 2014

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	PLANNED ACTIVITY		ACHIEVEMENT
4	Weather and climate information	-	An assessment of existing EWSs conducted
	and alerts made accessible to	-	Weather and climate early warning information
	decision makers in Govt., private		disseminated through district climate information
	sector, civil society, development		centres and CSOs (Red-cross, Christian Aid)
	partners and communities	-	CSOs and other Govt. agencies involved in awareness
			campaigns and FFGS training workshop
		_	
5	Human capacity building in	-	Flash-flood guidance training workshop
	weather observation and	-	NWP training (COSMO)
	forecasting	-	Severe weather Now-casting training
		-	Human capacity building in CLIMSOFT
		-	Data rescue exercise conducted
		_	Procurement of NWP computer initiated
6	Governmental and non-gov.	-	Consultations made to incorporate weather and
	communication channels and		climate early warning in the national DRM
	procedures for early warnings		communication strategy
	information dissemination are		
	reviewed and strengthened		5
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	PLANNED ACTIVITY		OUTPUTS TARGETS
1	Stations' maintenance, rehabilitation	-	Completion of conventional instruments procurement – 30
	and installation of 20 new AWSs and		Evap. pans
	5 AHSs to improve observation	-	Completion of AWSs procurement - 10 AWS
	network	-	Rehabilitation of old met stations (at least 3 targeted)
		-	Construction of DCP houses for AHSs
		-	21 met stations interconnected through WAN
		-	Operationalize CLIMSOFT in 21 Met stations
2	Capacity for operating and	-	2 Courses in telecommunications, Network and system
	maintaining observation networks		administration, and electrical engineering – on going
	and related infrastructure developed	-	Factory training for 4 technicians during AWSs installation
	(trainings and courses)	_	Procurement of Calibration equipment
3	Weather early warning awareness	-	Produce information, communication and education
	campaign for local communities and		materials on weather related disasters such as leaflets,
	the media		posters, pamphlets and documentaries targeting the
			general public and schools
		-	Conduct 1 training of all ACPC/DCPC / VCPC and District
			media staff and community radio stations on interpretation
			and utilization of weather forecasts and warnings
	4-Mar-15		6

	PLANNED ACTIVITY		ACHIEVEMENT
4	PLANNED ACTIVITY Weather and climate information and alerts made accessible to decision makers in Govt., private sector, civil society, development partners and communities		ACHIEVEMENT Report on the assessment of existing EWSs Undertake study on indigenous weather and climate early warning indicators Develop and publish a Hydrological Year Book for the 7 Flood Prone Districts
		-	Develop and promote a general early warning system information platform and database and alert dissemination system.
5	Human capacity building in weather observation and forecasting		Data QC and digitization Operationalize COSMO model for NWP, Trainings in forecast verification; NWP interpretation; GIS and hazard mapping, etc
6	Governmental and non-gov. communication channels and procedures for early warnings information dissemination are reviewed and strengthened	-	Conduct user need assessments for supporting production and dissemination of weather and climate information and warnings. Develop and implement coordination protocols and agreements among DCCMS, DWR, DoDMA and other related institutions as well as EW alert dissemination System
	4-Mar-15		7

- Late inception
- Direct payment mode of implementation resulted into high transaction costs incurred; and
- Lengthy procurement process being followed.
- Delay in getting feedback on requests for implementation of project activities that led to some activities done outside the scheduled time.
- Lack of clarity on the scope of undertakings by IPs

- 1. Agreement with Globe Internet Ltd (ISP) to allocate DCCMS space in their server to host the ftp link for receiving data from DWD
- Access Malawi (MSP) hosting AWSs and lightning detection system (demo with Earth Networks)
- FFGS training and subsequent activities jointly conducted with Hydrologic Research Centre (HRC), California
- 4. Hosting of AWSs by Lilongwe Water Board, incl. support staff
- Weather EW messages dissemination by NGOs and private radio stations
- 6. MOU with the Physics Dept, UNIMA, for creation of a microwave link between Weather Studio and MBC studio, and possible similar linkage between NMC and all Met stations in the future

etc?



END