

Operations and Maintenance Strategy of Weather Stations in Uganda

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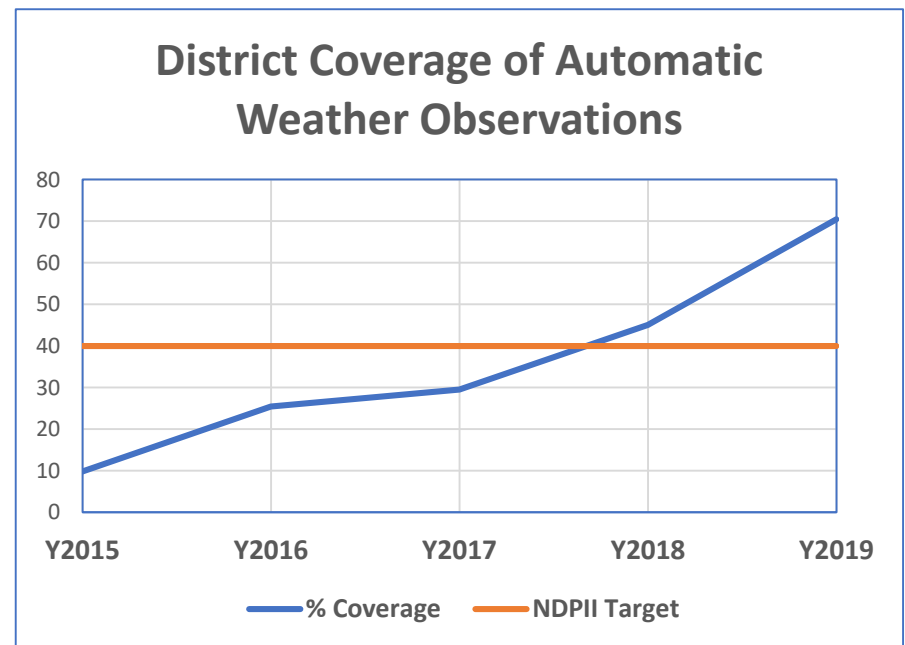
Uganda National Meteorological Authority

Joint Sector Review, Water and Environment Sector 18-20 Sep 2018

Status of District Coverage of AWS



	Y2015	Y2016	Y2017	Y2018	Y2019
UNMA	1				
GIZ-SMEPS	11	11	16	16	16
UNDP-SCIEWS		20	20	20	20
MoLG-PRELNOR				9	15
MAAIF-ACDP				10	10
UNDP-Wetlands					25
TOTAL	12	31	36	55	86
Districts	122	122	122	122	122
% Coverage	10	25	29	45	70



Maintenance Demands

- Equipping Stations with IT facilities
- Routine Cleaning of the Weather Stations
 Instruments and Weather Enclosure
- Servicing the Instruments
- Calibrating the Instruments
- Restocking the Spare instruments
- Replacing worn out instruments
- Upgrading the technologies

Maintenance Demands: Cleaning



Community Weather Observers are key to maintain the Weather Station, clean and for the instruments to function professionally



Calibrating Instruments

Weather Instruments require routine calibration.

The Uganda National Bureau of Standard (UNBS) has the mandate to calibrate all measuring instruments. However it is limited in terms of technologies

Exporting the instruments to the manufacturer to calibrate. This has its complications of time and costs

Alternative choice is to refurbish UNMA's calibration Laboratory

Stocking of Spare weather instruments

- Each weather instrument has a useful life span
- Calibration helps to lengthen to a useful life but to a limited extent
- Therefore UNMA will ensure stocking spare weather instruments to replace old ones

Workplan and Budget for Maintenance

3-year plan

Budget Line		2018/19	2019/20	2020/21	Total
Cleaning		439	439	439	1,318
Travel in Land		610	610	610	1,830
Spares Weather Instruments		813	813	813	2,440
Transport		600	600	-	1,200
Calibration Lab		250	250	-	500
Instrument Officers		144	144	144	432
Information Technology		98	98	98	293
Capacity Building		100	100	100	300
TOTAL		3,054	3,054	2,204	8,312
Source of Funds	Current	2018/19	2019/20	2020/21	Total
UNMA GoU	14,910				
Maintenance(7.9% of UNMA)	1,171				
Maintenance(10% of UNMA)	1,491	1,491	1,491	1,491	4,473
AIA	200	200	200	200	600
Sub Total		1,691	1,691	1,691	5,073
Deficit(Partners+GoU)		1,363	1,363	513	3,239

THE END