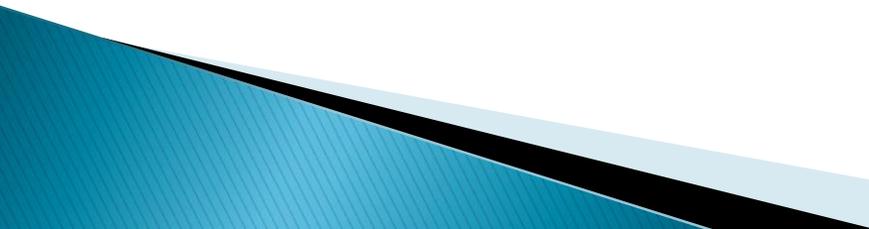


CIMO/WIGOS Exploratory Workshop, Langen

Caribbean Institute for Meteorology &
Hydrology
Regional Instrument Center
RA IV

Presented by:
Damien Prescod MSc.
Operational Metrology Expert

CIMH's as RIC

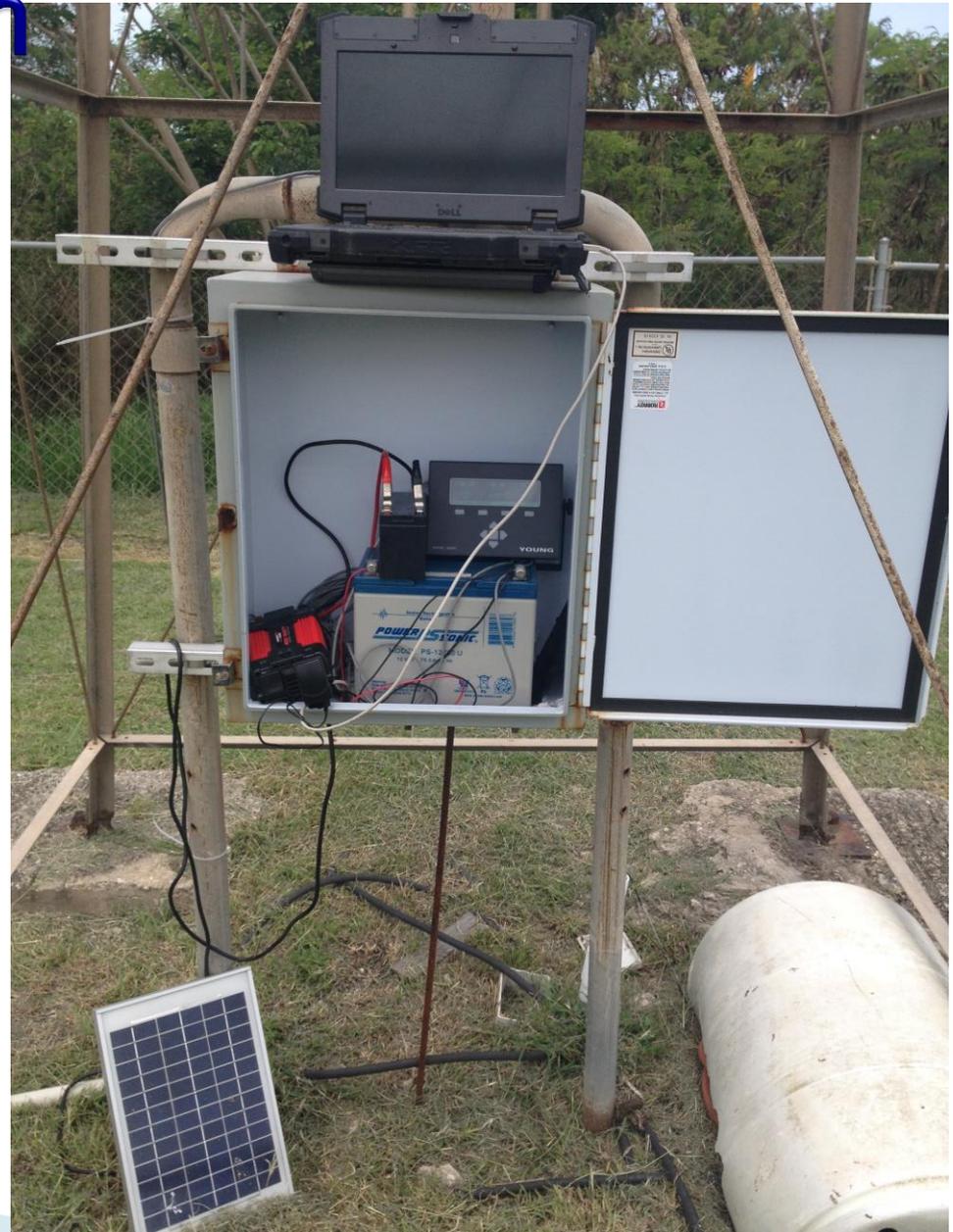
- ▶ Calibration lab improvements 2010–2011
 - ▶ SIDS Project donations
 - ▶ Create Standard Operating Procedures for observations at CIMH, with scope to be embraced by CMO territories
 - ▶ Finalize QMS procedures and SOP's
 - ▶ Prepare calibration lab for ISO certification (Accredited)
- 

What do we Calibrate ?? (Non Accredited)

- ▶ Rain Gauges (Tipping Bucket)
 - ▶ Pressure Sensors (Digital)
 - ▶ Temperature and Relative Humidity (Rotronics, Vaisala)

 - ▶ Wind (Verification)
- 

Wind Validation



Rain Gauge Calibration



Pressure Calibrations



Liquid Bath



Humid Chamber



Humidity & Temperature Calibration



MI 70



HMK 15



RIC Issues

- ▶ Current weakness relates to age of some of the laboratory equipment.
- ▶ Many of the territories (CMO) can not afford new sensors due to budgetary constraints. (AT/RH, Mercury Bulb Thermometers).
- ▶ Territories do not have spares available. Through various projects CIMH has been attempting to alleviate this problem via capacity building.
- ▶ Training of regional personnel on QMS, Laboratory Procedures and Observational best practices. (Budgetary)

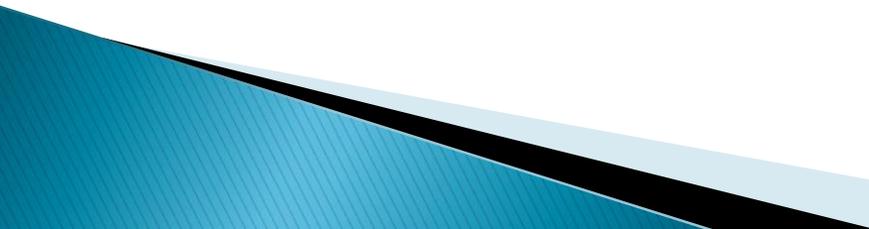
RIC Issues

- ▶ Difficulty recommending alternative cost effective sensors for CMO territories, aiming to phase out older analog sensors, mercury, those sensors no longer supplied by manufacturers.
 - ▶ Some difficulty in acquiring ISO certification from regional accreditation agencies.
- 

RIC Strengths

- ▶ Through CIMH's relationship with CMO territories, it can act as a focal point of the regional needs.
 - ▶ As recent as June and September 2014 we hosted two calibration courses at CIMH for our regional peers.
 - ▶ CIMH continues support regional peers, offering guidance on data quality, QMS, calibration.
- 

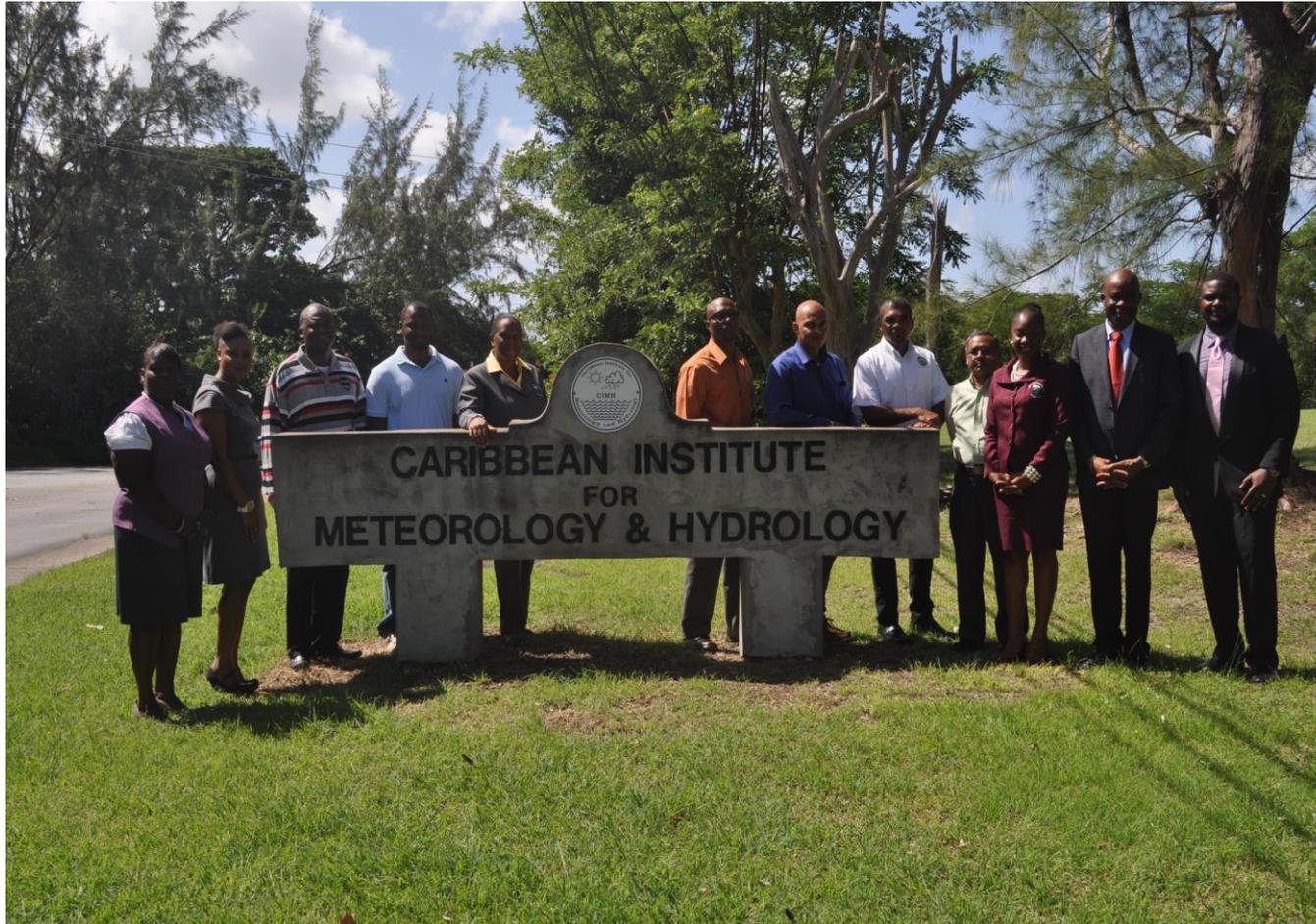
Interest ???

- ▶ Interested in forming relationships with other organizations from different regions in calibration, to improve our procedures and operational methods within the lab.
 - ▶ Interest in alternative sensors in meteorological sensing.
 - ▶ Inter-lab comparisons.
 - ▶ Acting as a test bed for new meteorological sensors and automatic weather systems.
 - ▶ Academic tools and materials for training
- 



Instrument Maintenance Calibration & Laboratory Practices in Meteorology INSTLP 1500

WMO INSTLP 1500



WMO INSTLP 1500



Thank You

- ▶ Questions & Comments