

2015 SIM TFWG Workshop & Planning Meeting, Panama City, Panama, January 27 - 29

### ANTIGUA & BARBUDA LAB REPORT

by

Alan Michael Standardization Officer Antigua and Barbuda Bureau of Standards



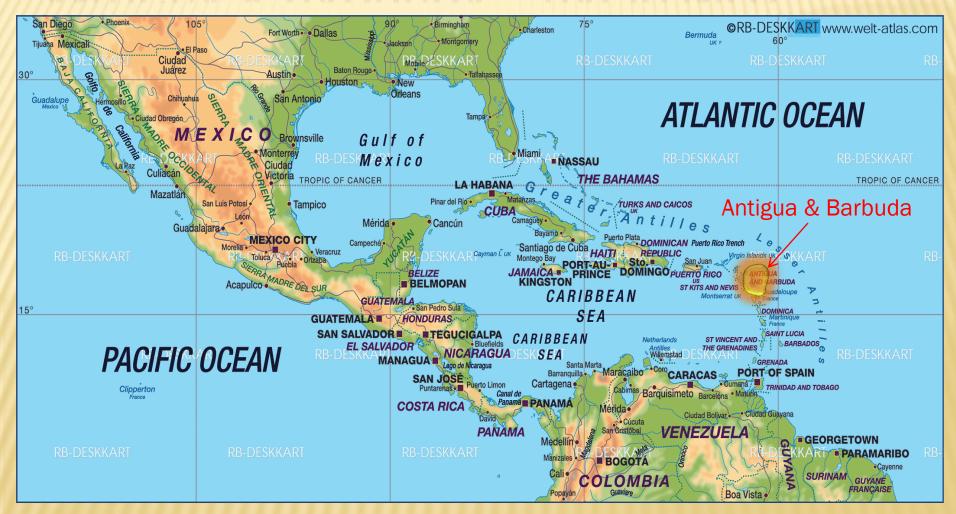
#### × Antigua & Barbuda – Basic Info

#### × Antigua & Barbuda Bureau of Standards

### × A & B Time & Frequency Metrology Status

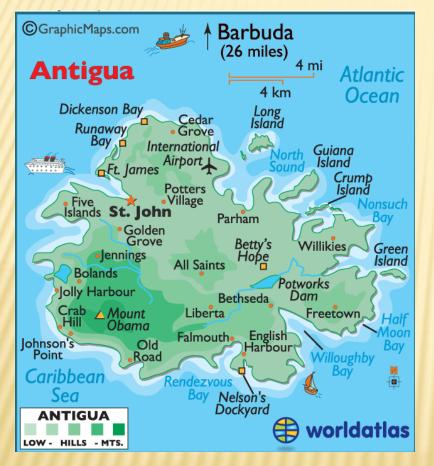


### ANTIGUA & BARBUDA – BASIC INFO





## ANTIGUA & BARBUDA – BASIC INFO



279.72 sq km (108 sq miles)





160.58 sq km (62 sq miles)

## ANTIGUA & BARBUDA – BASIC INFO

- × Population 90,000 approx. (2011 census)
- × Official Language English
- Exports petroleum products, bedding, handicrafts, electronic components, transport equipment, food & live animals
- Industries tourism, construction, light manufacturing (clothing, alcohol, household appliances
- × GDP EC\$ 3.34 Billion (US\$ 1.23 Billion)



- Antigua and Barbuda Bureau of Standards (ABBS) :
  - + Established Standards Act (1987) Cap. 411
  - + Purpose -
    - × To prepare and promulgate standards in relation to goods, services, processes and practices.
    - Provide a broad base of technical, advisory and monitoring services for retailers, manufactures and service providers.
    - × National Metrology Institute



#### + Membership in -

- Caribbean Regional Organisation for Standards and Quality (<u>CROSQ</u>)
- × Codex Alimentarius (WHO/FAO)Commission
- × Inter-American Metrology System (<u>SIM</u>)
- Subscriber Member of the International Organization for Standardization (<u>ISO</u>)
- Affiliate Member of the International Electrotechnical Commission (<u>IEC</u>).



- × 10 staff (2 x Metrology)
- Office/Lab relocated to Old Parham Road Apr 2013
- Approximately 200 M<sup>2</sup> of open space for offices
  & labs each
- Layout drawings completed by PWD 4<sup>th</sup> Qtr
  2014 consulting with PTB on lab layout/eqpt.
- Construction to be put to tender



#### + Metrology

- × Metrology Act 2007 (passed 2008)
- × NMI & Legal Metrology Institute (regulations pending)
- × Services:
  - \* Verification in Mass & NAWI (airlines, hotels, small businesses)
  - Calibration in Mass (F2 & below) & NAWI (hospital, airline catering, airline/helicopter, small business)
  - ★ EE Testing : refrigerators & lifetime testing of CFLs (2 labs)-to be launched shortly
  - Calibration & verification of temperature devices (thermometers)- receiving equipment donated by PTB
- × Metrication Programme re-launched October 2011



### ANTIGUA & BARBUDA - T & F METROLOGY STATUS

- × Equipment donated by SIM September, 2011
- × Installed January, 2012
  - Antigua Computer Technologies Internet Co-location Centre (due pending re-location of ABBS) – Computer/Telecomms/Internet Provider
- × Administered remotely via Microsoft Remote Desktop & Teamviewer Software
- × No Services offered currently



### ANTIGUA & BARBUDA - T & F METROLOGY STATUS

× Issues/Problems: No Measurement uploads to SIM Servers

- × Due to tropical storm Gonzalo power related (2014/08/18)
- × ISP mistakenly re-assigning IP address (2014/11/17)

#### × Milestones

- + Installation of Software to steer Rubidium Standard to SIMT automatically by NIST (July 13, 2012)
- + Manual steering no longer required & working well



### ANTIGUA & BARBUDA - T & F METROLOGY STATUS

#### × Challenges-

- × Auto restart of measurements after a power failure (?)
- + Awareness Business / Industry / Government / Public
- + Finance to develop services
- + Human Resource availability and competence

#### × Future Plans -

+ Training, Develop Awareness Programmes, Establish and Distribute National Time, Develop & Offer T & F Calibration & other services.



# Thank you for your attention!

