NAM/CAR/SAM
Air Traffic Services (ATS) Data Link Implementation Workshop

**Philipsburg, Sint Maarten,
18-21 April 2016**

P30: AMHS Interconnection and Automation Status

**Federal Aviation
Administration**

Agenda

- Status of Ground-Ground AIDC implementation
- AMHS migration
- Implementation over the MEVA network

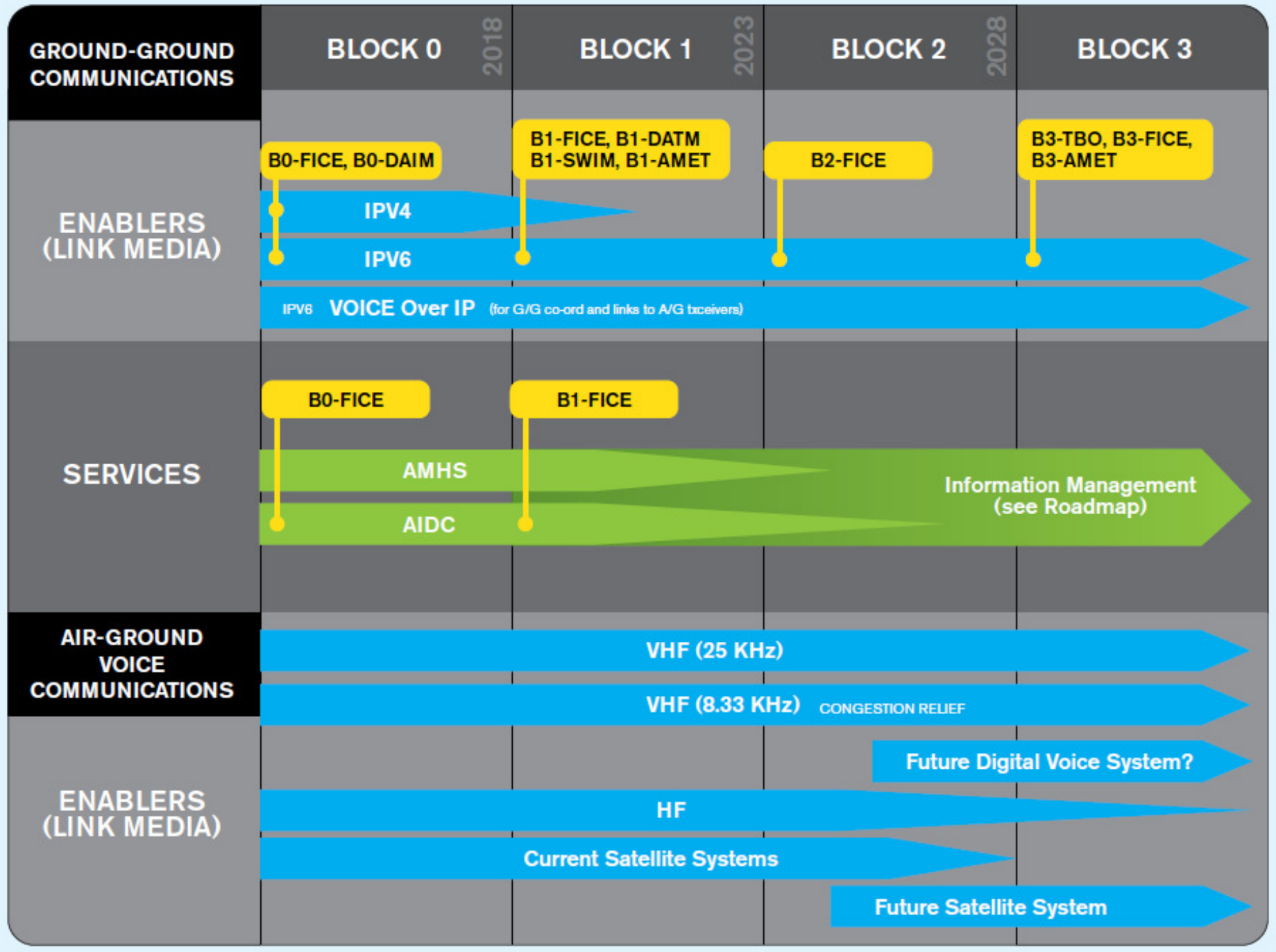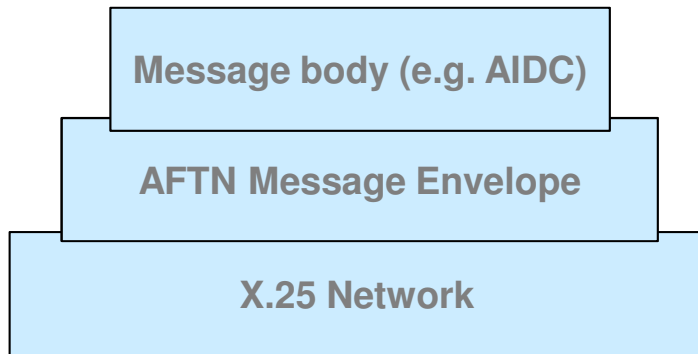**Federal Aviation
Administration**

FAA AIDC Status

Air Traffic Services Inter-facility Data Communications (AIDC)
currently implemented using the X.25 ground-ground AFTN
messaging with the exception of Japan and Fiji which use AMHS

- **NAM**
  - Canada, Cuba, Mexico
- **NAT**
  - Canada Oceanic
  - Portugal Santa Maria
- **APAC**
  - Australia.
  - Japan (over AMHS – mid.2013)
  - Mexico Oceanic
  - Nadi, Fiji (over AMHS – mid 2012)
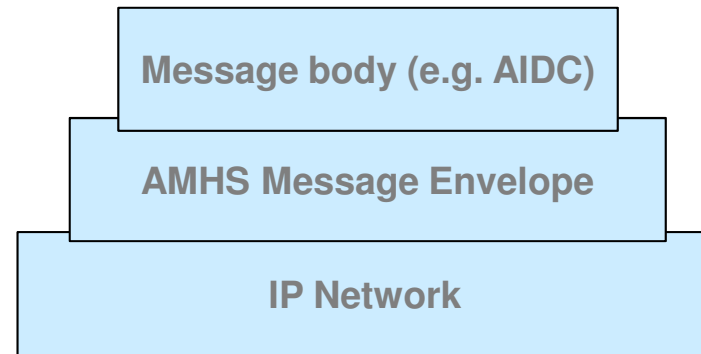 - New Zealand
  - Tahiti

GROUND-GROUND COMMUNICATIONS	BLOCK 0	2018	BLOCK 1	2023	BLOCK 2	2028	BLOCK 3

ENABLERS (LINK MEDIA)

B0-FICE, B0-DAIM

B1-FICE, B1-DATM B1-SWIM, B1-AMET

B2-FICE

B3-TBO, B3-FICE, B3-AMET

IPV4

IPV6

IPV6 **VOICE Over IP** (for G/G co-ord and links to A/G txceivers)

SERVICES

B0-FICE

B1-FICE

AMHS

AIDC

Information Management (see Roadmap)

AIR-GROUND VOICE COMMUNICATIONS

VHF (25 KHz)

VHF (8.33 KHz) CONGESTION RELIEF

ENABLERS (LINK MEDIA)

Future Digital Voice System?

HF

Current Satellite Systems

Future Satellite System

AFTN – AMHS Comparison

Message body (e.g. AIDC)	**Message body (e.g. AIDC)**
AFTN Message Envelope	**AMHS Message Envelope**
X.25 Network	**IP Network**
AFTN Stack	**AMHS Stack**

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International AFTN-AMHS Status

Mid-2016

Legend:
- —— AFTN Data (X.25)
- ▬▬ AMHS Data (IP)
- ▬ ▬ AMHS Testing (IP)

COCESNA net:
Honduras, Belize, Guatemala, El Salvador, Nicaragua, Costa Rica

MEVA-III satellite network

ATL Ground Station supports MEVA connections

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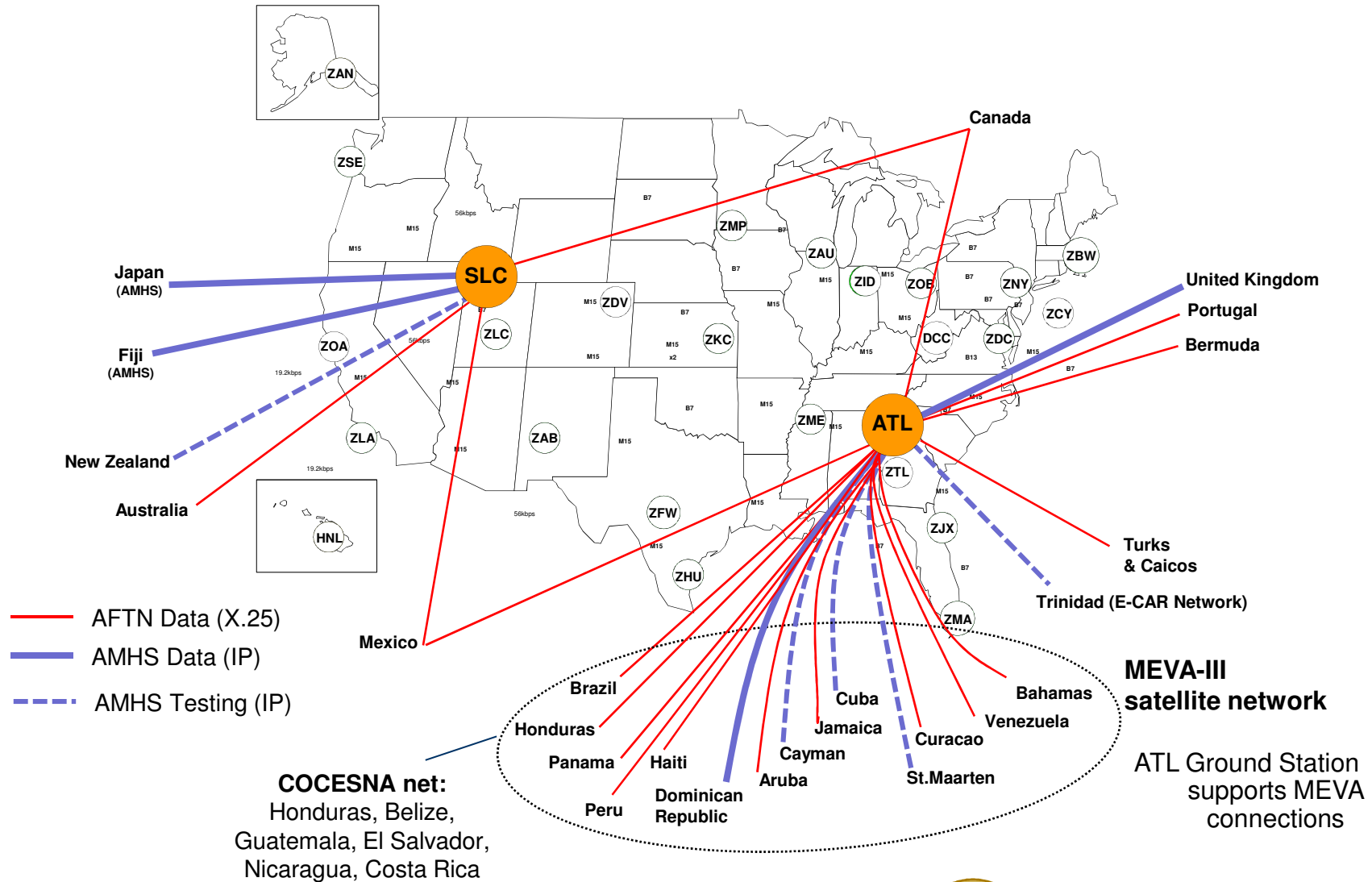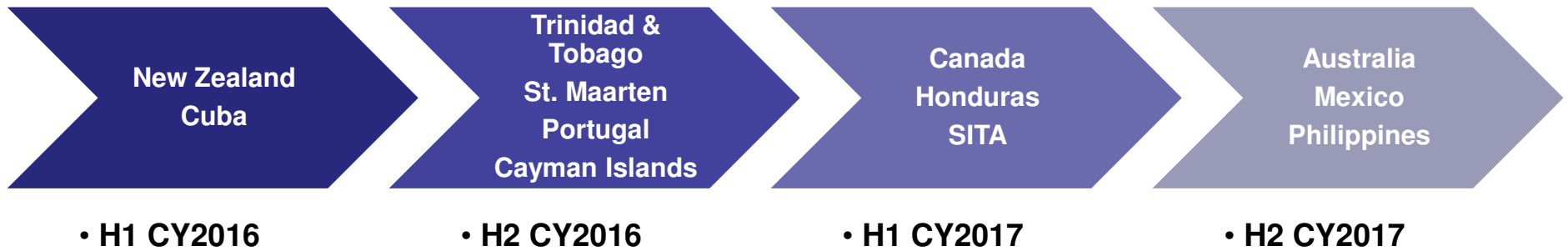
MEVA III Satellite Network
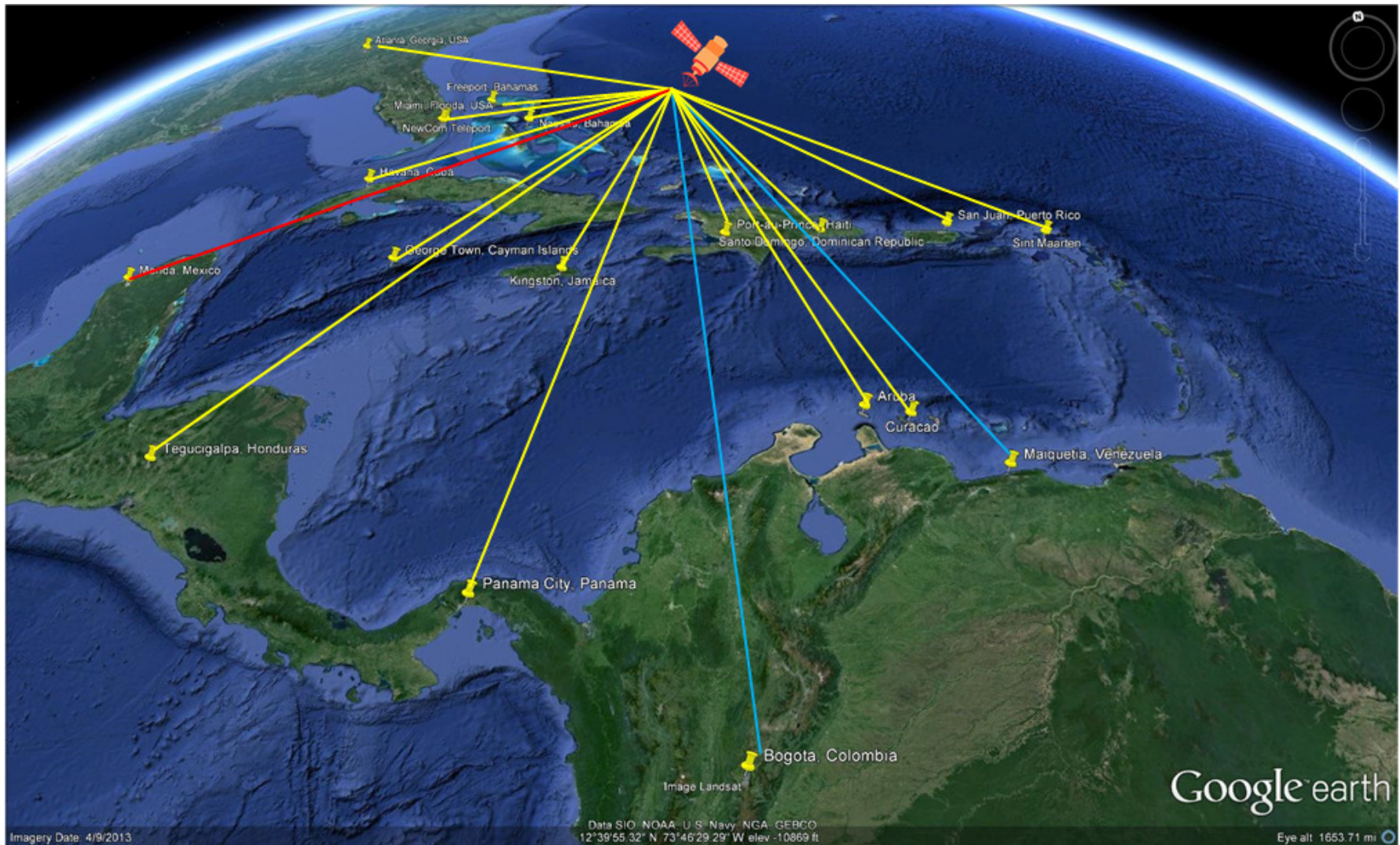
FAA AMHS Implementation Status

- **Operational AMHS**
  - Japan (AIDC)
  - UK
  - Fiji (AIDC)
  - Dominican Republic (Testing AIDC)
- **Testing AMHS**
  - Cayman
  - Cuba (Verifying AIDC over AMHS
  - New Zealand (Verifying AIDC over AMHS)
  - Sint Maarten
  - Trinidad & Tobago (Testing AIDC)
- **In-Queue**
  - Brazil
  - Canada
  - COCESNA / Honduras
  - Curacao
  - Portugal
  - SITA*

Projected Deployment of AMHS

New Zealand Cuba	Trinidad & Tobago St. Maarten Portugal Cayman Islands	Canada Honduras SITA	Australia Mexico Philippines
• H1 CY2016	• H2 CY2016	• H1 CY2017	• H2 CY2017

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THANK YOU