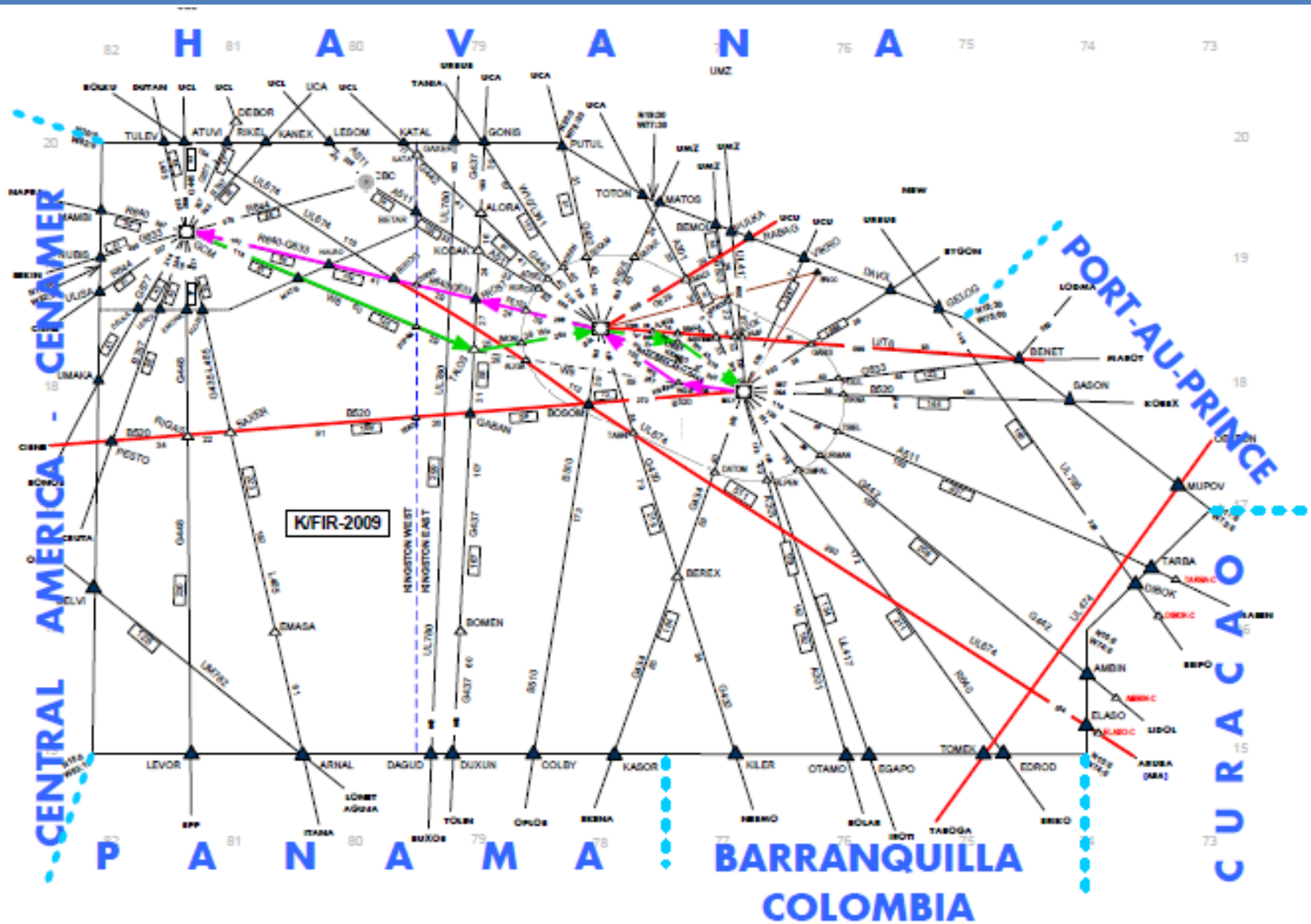




# JAMAICA ATS DATA LINK IMPLEMENTATION PLANS

**Presenter:**  
**Mr. Derrick Grant**  
**(CNS Engineer, JCAA)**  
**April 2016**

# Kingston FIR



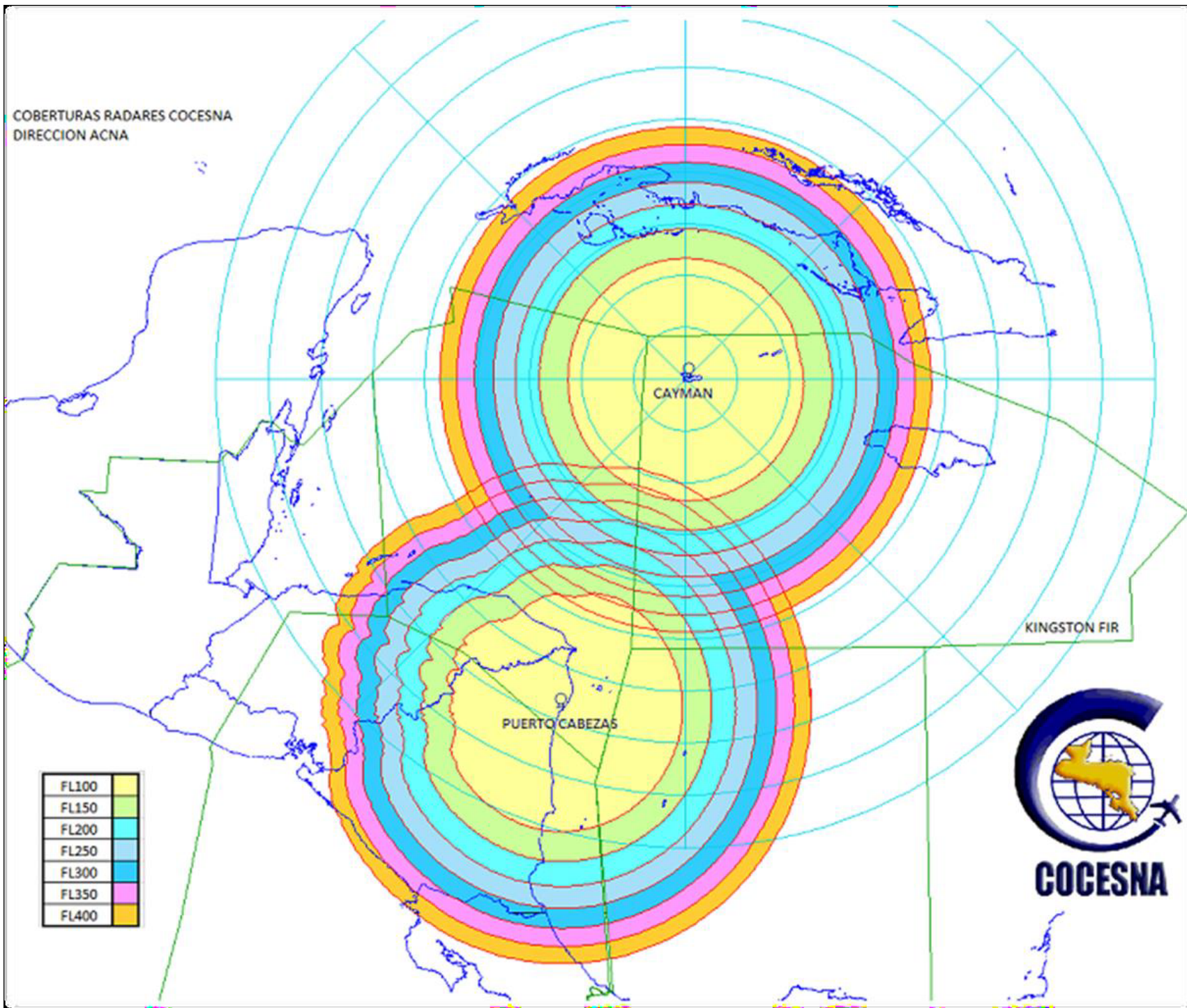
# ATS Challenges

- A-G Radio coverage challenges
- Limited Surveillance Coverage in section of KIN FIR
- Coordination challenges (Curacao, Barranquilla, Panama)
- Human resource (Experience & Availability)
- Transition (Operation Training)

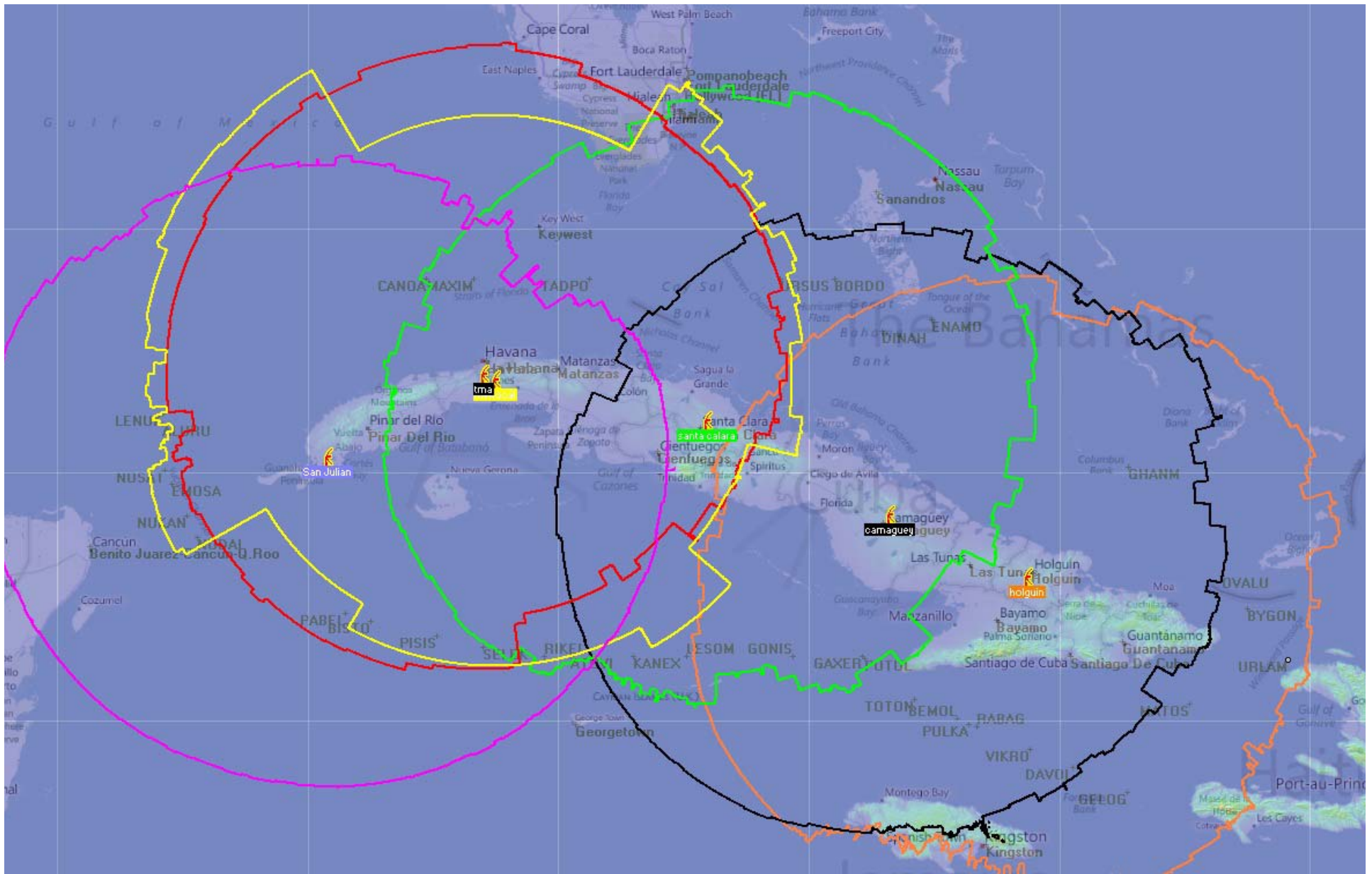
# Solutions to the deficiency

- RADAR Data Sharing
  - CUBA
  - COCESNA
- Remote A-G Radio
  - Tegucigalpa
- AIDC
- CPDLC
- AIM implementation

COBERTURAS RADARES COCESNA  
DIRECCION ACNA



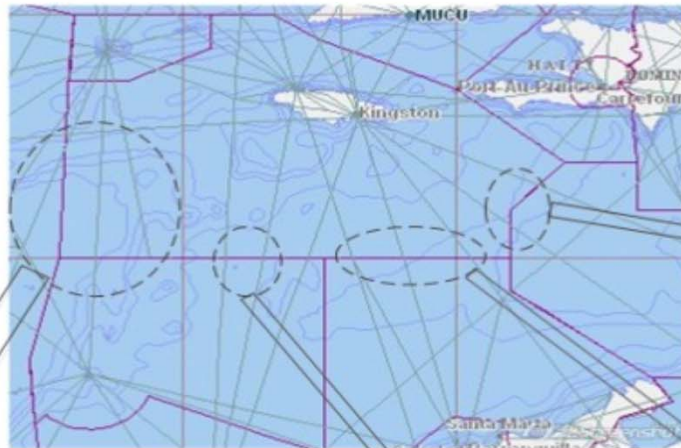
# INADJAN OPERATIONS (Cocesna)



# RADAR Sharing (Cuba)

# A-G Radio Coverage Deficiency

## LACK OF AMS VF COMMUNICATIONS IN CENTRAL CARIBBEAN



Curacao working on improving VHF Communications for these ATS routes: Ad-hoc group: Rep Dom/Curacao/Haiti/Jamaica

Lack or poor quality communications in ATS Routes boundary between Barranquilla FIR and Kingston FIR

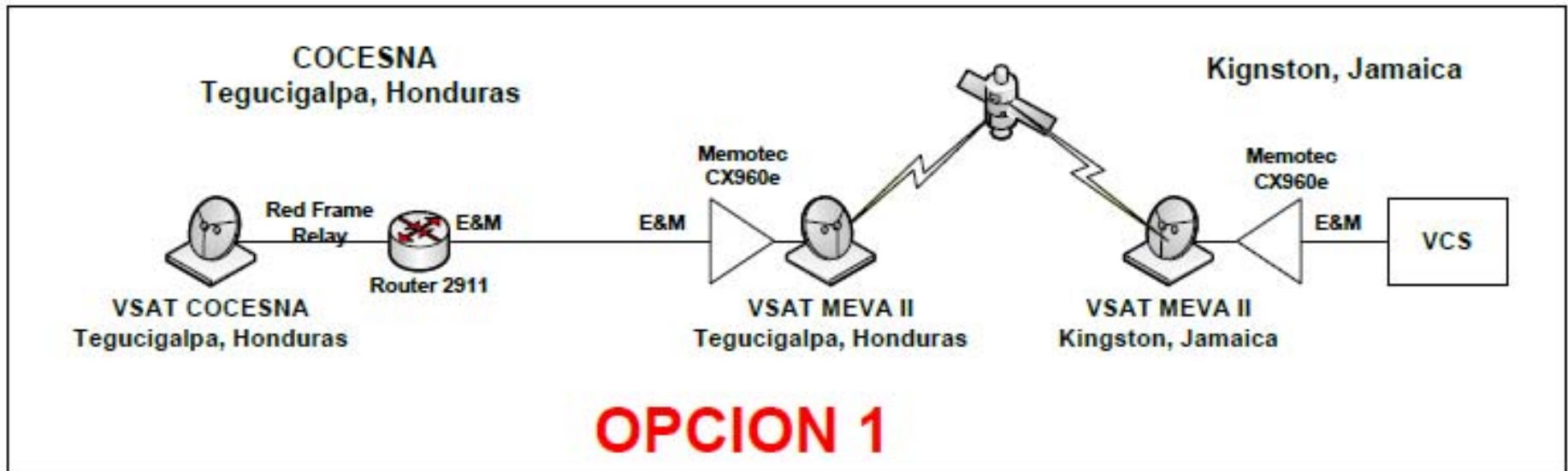


ATS Routes bordering Central American FIR – SW part of Kingston FIR



ATS Routes bordering Southern part of Kingston FIR – Panama FIR: DUXUN FL 350

# Remote A-G Radio

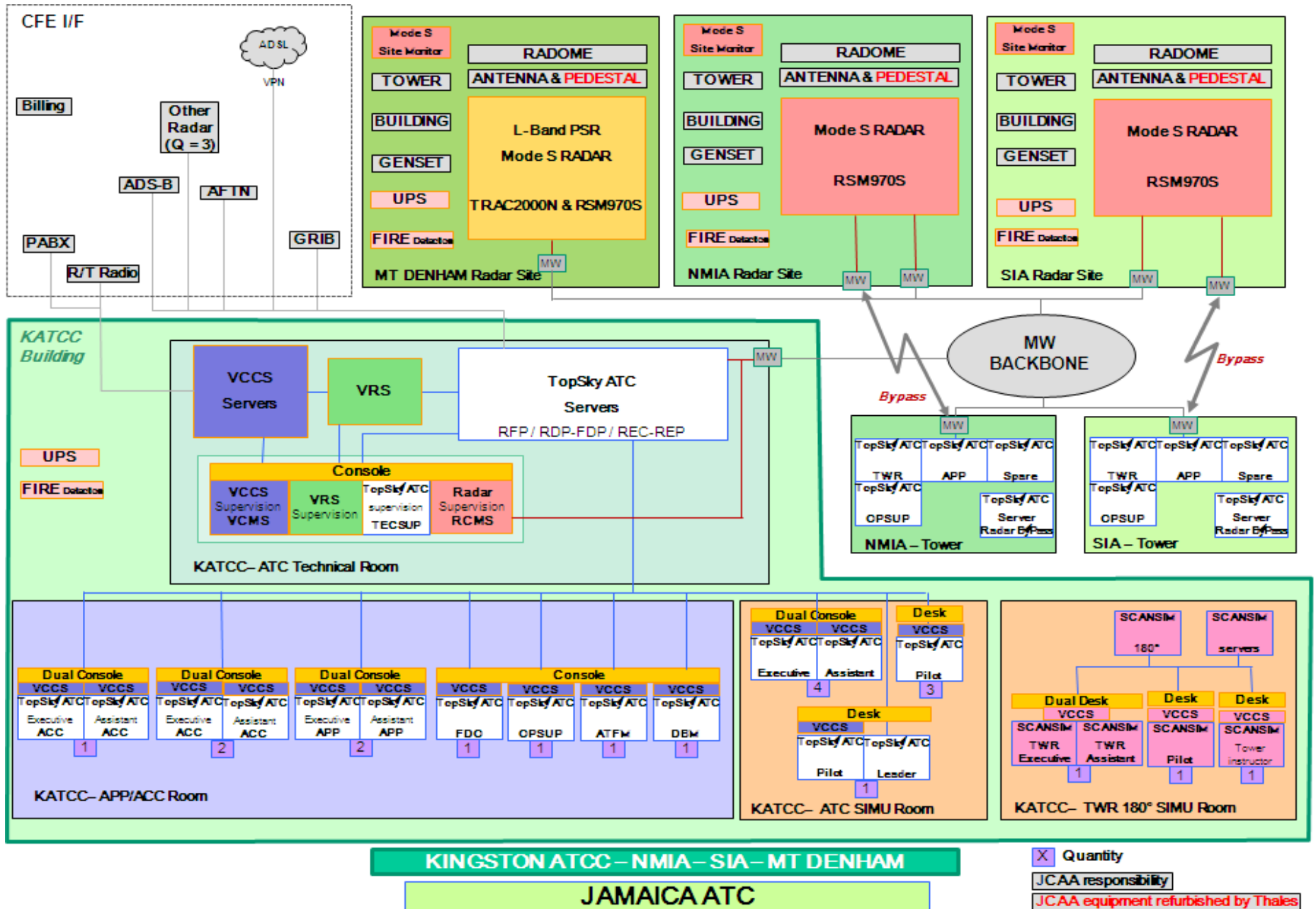




# AIDC Implementation

- HAVANA FIR (NAM ICD)
- PANAMA (NAM ICD)
- CENAMER FIR (NAM ICD)
- BARRANQUILLA (?)
- CURACAO (?)
- PORT-AU-PRINCE (??)

New ATM system capable for NAM ICD & OLDI  
(Columbia)



# ATC Architecture

# NEW Automation System

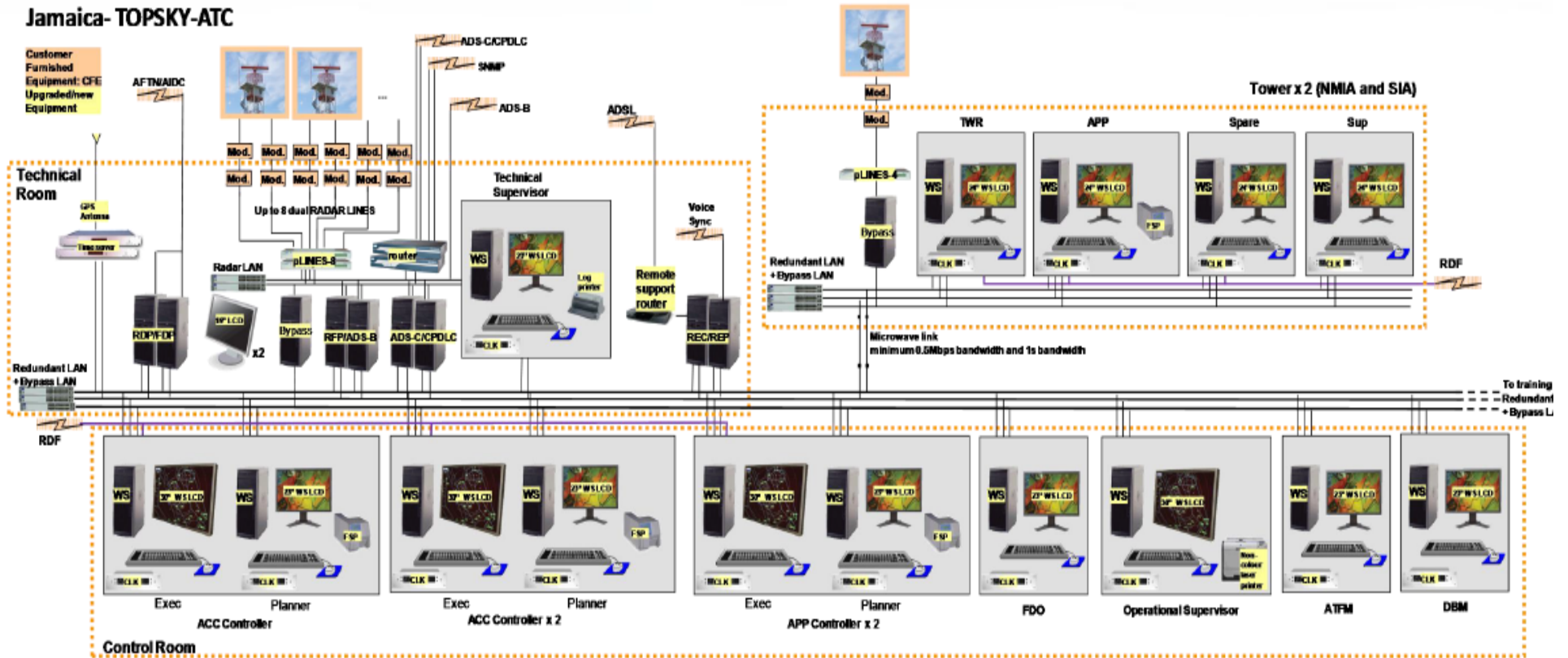


Figure 15 - TopSky-ATC for KATCC (Main System)

# Automation System

## *Deliverables (Data Links)*

- ***AIDC (NAM ICD and OLDI) – LOA & TOR***
- ***Radar Data Sharing***
  - Cuba (Holguin) - **Testing**
  - Cocesna (Cayman Islands) – **Evaluating Proposal**
  - Cocesna (Puerto Cabeza) – **Evaluating Proposal**
- ***ADS-B Implementation (ver. 2)***
- ***CPDLC/ADS-C***

# Project Timelines

<u>Steps</u>	<u>Description</u>	<u>End (Months)</u>
1	Launch meeting	Jan 2016
2	System Design Review	Mar 2016
3	Factory Acceptance of 2 MSSR	Jun 2016
4	Factory Acceptance of KATCC Equipment (including ATC Simulator)	Jul 2016
5	Factory Acceptance of 3-D Simulator	Jul 2016
6	Refurbishment of Kingston MSSR site	Nov 2016
7	Site Acceptance of 3-D Simulator	Feb 2017
8	Site Acceptance of Kingston MSSR	Feb 2017
9	1st step Installation of the new KATCC system	Mar 2017
10	Installation of NMIA Tower positions	Mar 2017
11	Site Acceptance of ATC Simulator	Mar 2017
12	Refurbishment of Montego Bay MSSR site	Mar 2017
13	Installation of SIA Tower positions	Mar 2017
14	Site Acceptance of Montego Bay MSSR	Jun 2017
15	Refurbishment of Mount Denham P+S site	Jun 2017
16	Provisional Site Acceptance of SIM/KATCC (end of 2nd step Installation)	Jul 2017
17	Site Acceptance of Mount Denham P+S site	Sep 2017
18	Final Setting up of KATCC with Mount Denham radar	Oct 2017

# AMHS Implementation

