



ICAO

International Civil Aviation Organization
North American, Central American and Caribbean Office

WORKING PAPER

AIM/TF/5 — WP/04
28/11/22

**Fifth North American, Central American and Caribbean Working Group (NACC/WG) Aeronautical Information Management Implementation Task Force Meeting
(AIM/TF/5)**

Mexico City, Mexico, 26 – 28 October 2022

Agenda Item 6: AIM Implementation Roadmap in the CAR Region and AIM Collaborative Plan

**AIM IMPLEMENTATION ROADMAP IN THE CAR REGION AND AIM COLLABORATIVE PLAN
STATES STATUS: AIS TO AIM TRANSITION STEPS**

(Presented by the AIM/TF Rapporteur)

EXECUTIVE SUMMARY	
This Working Paper presents follow up to the data and graphs indicating the advances per State within the Transition from AIS to AIM, throughout the 3 transition Phases and the 21 Interrelated Steps, expressed in percentages in a very objective way.	
Action:	Described in Section 4
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency• Economic Development of Air Transport• Environmental Protection
<i>References:</i>	<ul style="list-style-type: none">• Annex 15• Doc 10066 – PANS-AIM• Doc 8126

1. Introduction

1.1 During the AIM/TF/4 Meeting (2021) the follow-up on States progress within the NAMCCAR Region was carried out, show the progress of each State, regarding this transition. States are progressing slowly. Nevertheless, the pandemic's financial impact should not be excluded.

1.2 During the AIM/TF/3 Meeting (2020) the NAMCCAR State - AIM Transition Implementation Status was presented. Majority of the member States provided both phase-progression data/information for each phase-related step, as well as a total and current to date status of the implemented steps from the Roadmap AIS to AIM Transition.

1.3 A draft version of the Plan was considered as part of a suite of NAM/CAR AIM tasks supporting the three phases for the transition from AIS to AIM, thus, it should not be considered in isolation and it was presented to the ANI/WG/05 Meeting for discussion and review.

2. Discussion

2.1 According to the ICAO Roadmap for the transition to AIM the Plan contents should be updated and transferred into the Plan in accordance to Annex 15 and PANS AIM, in particular the consolidated ICAO guidance material presented during the AIM/TF/03 and AIM/TF/04.

2.2 The created excel file by the AIM TF Rapporteur, guides the State members to (actively) update the required information regarding the status of the transition from AIS to AIM, so that a proper reflection of each member State is represented.

2.3 All TF members are to retrieve the required information and submit this timely, yearly or whenever a step has been implemented, and accurately to the AIM TF Rapporteur via nleonora-belefanti@icaonacc.org.

2.4 This file serves as a support to the Regional implementation of AIM and to accelerate and monitor the development for all transition phases. No Country Left Behind.

2.5 As soon as the AIM Tracking Website is activated, States are expected to upload information via their dashboard, in accordance with set dates by the ICAO NACC AIM TF.

2.6 Upon a complete view of the total progress of the region for the transition to AIM, will the implementation of SWIM become more clear, with regards to implementation deadlines and activation of the platform.

2.7 Standardisation is needed for information-sharing to be useful at all levels – local, regional and global, in order for this digitalisation to work. Data quality and accuracy must also be assured when provided. Given the large number of Data Originators and the information end users, assuring quality throughout the entire data chain remains a challenge. States are to use AIM to exchange digital information with other parties over the SWIM, in order to make it possible to use that information in real-time for a much more efficient management of local air traffic.

2.8 The transition from AIS to AIM's mainly focuses on ensuring the quality of data with emphasis on QMS. This is key for the integrated information exchange and support to ATM, using the AIXM via SWIM.

3. Progress in the AIS to AIM Transition Steps, System Wide Information Management Implementation (AIM 2.0)

3.1 Further progress in the AIS to AIM Transition Steps and System Wide Information Management (SWIM) Implementation (AIM 2.0) has been minor, due to no feedback from the States and the COVID-19 pandemic affecting continuation for many States. Contributing factors have been the decrease in flight movements, and therefore the limited financial resources.

3.2 Priority is still given to the major important service continuity for safe Air Navigation Service Provision, until the AIM area can be picked up again. This maintains postponement in- or complete cancelation for certain steps to be implemented.

3.3 Given the effort to maintain compliance to Annex 15, Doc 10066 - PANS-AIM and the updated Doc 8126 – Aeronautical Information Services (AIS) Manual in four volumes, it is important for ICAO NACC to reconsider regionally (and probably globally too), the set requested ASBU implementation dates.

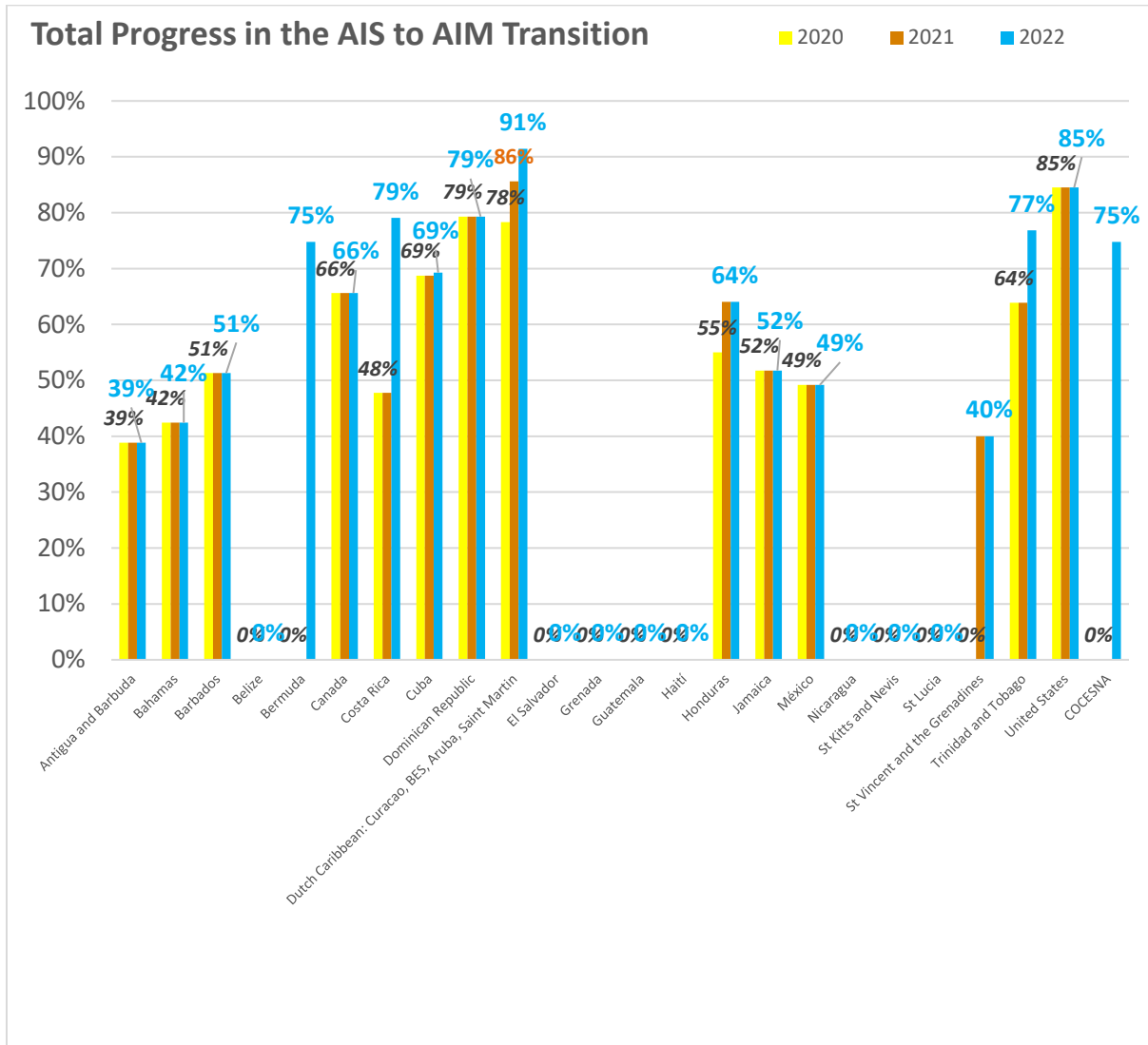
3.4 The NAMCCAR State - AIM Transition Implementation Status Template file has been sent to all AIM TF members to update / fill out, in order to support 3.3 above.

3.5 A comparison for progress report is presented in this AIM/TF/5 meeting.

4. NAMCCAR State - AIM Transition Implementation Status - NOV 2022

The following table and chart illustrate the progression of each State within the AIS to AIM Transition, measured from the year 2020, 2021 and 2022

Total Progress in the AIS to AIM Transition			
States	2020	2021	2022
Antigua and Barbuda	39%	39%	39%
Bahamas	42%	42%	42%
Barbados	51%	51%	51%
Belize	0%	0%	0%
Bermuda	0%	0%	75%
Canada	66%	66%	66%
Costa Rica	48%	48%	79%
Cuba	69%	69%	69%
Dominican Republic	79%	79%	79%
Dutch Caribbean: Curacao, BES, Aruba, Saint Martin	78%	86%	91%
El Salvador	0%	0%	0%
Grenada	0%	0%	0%
Guatemala	0%	0%	0%
Haití	0%	0%	0%
Honduras	55%	64%	64%
Jamaica	52%	52%	52%
México	49%	49%	49%
Nicaragua	0%	0%	0%
St Kitts and Nevis	0%	0%	0%
St Lucia	0%	0%	0%
St Vincent and the Grenadines	0%	40%	40%
Trinidad and Tobago	64%	64%	77%
United States	85%	85%	85%
COCESNA	0%	0%	75%



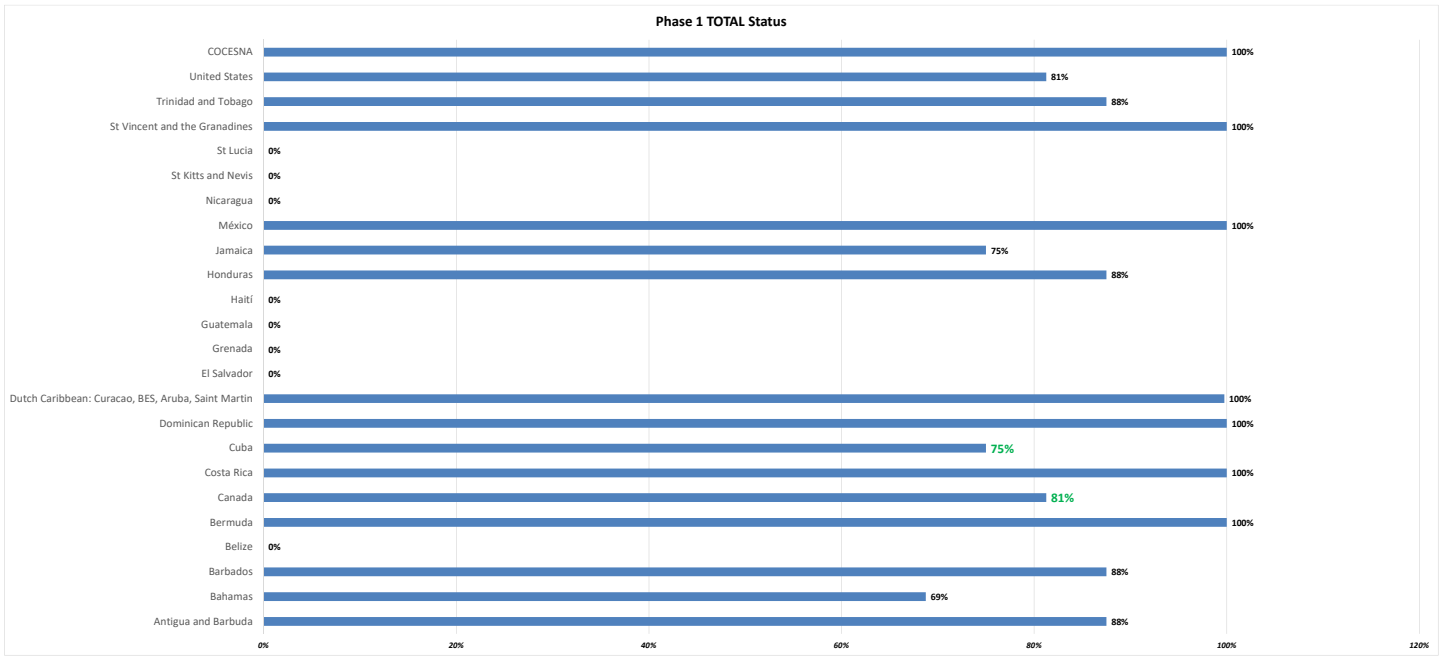
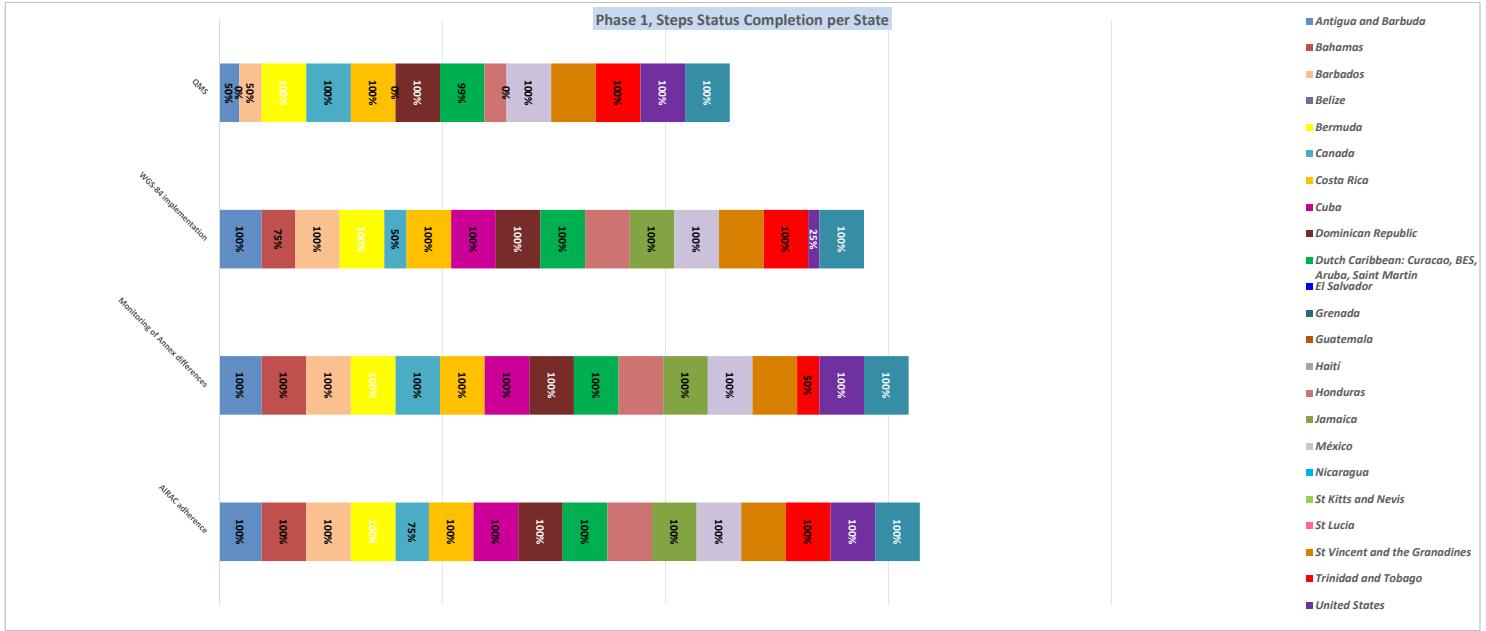
Phase 1	Antigua and Barbuda	Bahamas	Barbados	Belize	Bermuda	Canada	Costa Rica	Cuba	Dominican Republic	Dutch Caribbean: Curacao, BES, Aruba, Saint Martin	El Salvador	Grenada	Guatemala	Haiti	Honduras	Jamaica	México	Nicaragua	St Kitts and Nevis	St Lucia	St Vincent and the Grenadines	Trinidad and Tobago	United States	COCESNA	
AIRAC adherence	100%	100%	100%	NO INPUT	100%	75%	100%	100%	100%	100%					100%	100%	100%				100%	100%	100%	100%	
Monitoring of Annex differences	100%	100%	100%	NO INPUT	100%	100%	100%	100%	100%	100%					100%	100%	100%				100%	50%	100%	100%	
WGS-84 implementation	100%	75%	100%	NO INPUT	100%	50%	100%	100%	100%	100%					100%	100%	100%				100%	100%	25%	100%	
QMS	50%	0%	50%	NO INPUT	100%	100%	100%	SCHED	100%	99%					50%	0%	100%				100%	100%	100%	100%	
TOTAL Status	88%	69%	88%	0%	100%	81%	100%	70%	100%	100%	0%	0%	0%	0%	88%	75%	100%	0%	0%	0%	100%	88%	81%	100%	
	FINAL	ADV	FINAL	NO START	COMPL	FINAL	COMPL	ADV	COMPL	PART. COMPL	NO START	NO START	NO START	NO START	FINAL	ADV	COMPL	NO START	NO START	NO START	COMPL	FINAL	FINAL	COMPL	
Phase 2																									
Data Quality Monitoring	100%	50%	25%	NO INPUT	100%	99%	100%	100%	100%	99%					NO INPUT	0%	50%					100%	100%	100%	100%
Data Integrity Monitoring	100%	50%	25%	NO INPUT	100%	75%	100%	100%	50%	99%					NO INPUT	0%	50%					100%	100%	100%	100%
AIXM	NO INPUT	0%	25%	NO INPUT	100%	100%	100%	100%	50%	100%					100%	0%	100%					100%	100%	100%	100%
Unique identifiers	NO INPUT	50%	0%	NO INPUT	100%	25%	99%	100%	50%	100%					100%	0%	100%					NO INPUT	100%	25%	100%
Aeronautical information conceptual model	NO INPUT	0%	0%	NO INPUT	100%	99%	100%	100%	50%	100%					100%	0%	50%					NO INPUT	NO INPUT	100%	100%
eAIP	NO INPUT	0%	75%	NO INPUT	SCHED	75%	99%	100%	50%	100%					100%	0%	75%					100%	100%	50%	SCHED
Terrain A-1	0%	50%	50%	NO INPUT	N/A	100%	100%	100%	50%	100%					75%	99%	0%					NO INPUT	100%	100%	N/A
Obstacle A-1	0%	50%	50%	NO INPUT	N/A	100%	99%	100%	50%	100%					75%	99%	0%					NO INPUT	99%	100%	N/A
Terrain A-4	0%	50%	50%	NO INPUT	N/A	100%	N/A	NO INPUT	50%	100%					75%	N/A	0%					NO INPUT	100%	100%	N/A
Obstacle A-4	0%	50%	50%	NO INPUT	N/A	100%	N/A	NO INPUT	50%	100%					75%	N/A	0%					NO INPUT	100%	50%	N/A
Terrain A-2[1]	0%	50%	50%	NO INPUT	N/A	75%	100%	99%	50%	100%					75%	99%	0%					NO INPUT	100%	100%	N/A
Obstacle A-2[2]	0%	50%	50%	NO INPUT	N/A	75%	50%	100%	50%	100%					75%	99%	0%					NO INPUT	99%	50%	N/A
Terrain A-3	0%	50%	50%	NO INPUT	N/A	75%	99%	99%	50%	100%					75%	99%	0%					NO INPUT	100%	100%	N/A
Obstacle A-3	0%	50%	50%	NO INPUT	N/A	75%	50%	100%	50%	100%					75%	99%	0%					NO INPUT	100%	50%	N/A
Aerodrome Mapping	0%	0%	25%	NO INPUT	100%	0%	25%	0%	100%	99%					100%	99%	50%					NO INPUT	100%	100%	100%
TOTAL Status	13%	37%	38%	0%	40%	78%	73%	80%	57%	100%	0%	0%	0%	0%	73%	46%	35%	0%	0%	0%	20%	93%	82%	40%	
	INITIAL	DEVL	DEVL	NO START	DEVL	FINAL	ADV	FINAL	ADV	PART. COMPL	NO START	NO START	NO START	NO START	ADV	DEVL	DEVL	NO START	NO START	NO START	INITIAL	FINAL	FINAL	DEVL	
Phase 3																									
Aeronautical data exchange	NO INPUT	0%	0%	NO INPUT	100%	50%	100%	25%	100%	39%					NO INPUT	99%	50%					NO INPUT	100%	100%	100%
Communication networks	NO INPUT	50%	0%	NO INPUT	100%	100%	100%	99%	100%	100%					NO INPUT	99%	0%					NO INPUT	100%	100%	100%
Aeronautical information briefing	NO INPUT	50%	50%	NO INPUT	100%	100%	100%	100%	100%	SCHED					NO INPUT	25%	0%					NO INPUT	NO INPUT	100%	100%
Training	75%	25%	75%	NO INPUT	100%	100%	100%	100%	100%	100%					100%	50%	50%					NO INPUT	100%	100%	100%
Agreement with data originators	50%	50%	50%	NO INPUT	100%	50%	100%	100%	100%	100%					SCHED	0%	0%					NO INPUT	50%	100%	100%
Interoperability with meteorological products	NO INPUT	0%	25%	NO INPUT	75%	0%	N/A	0%	100%	75%					100%	0%	0%					NO INPUT	NO INPUT	25%	75%
Electronic aeronautical charts	0%	0%	25%	NO INPUT	75%	0%	0%	0%	25%	99%					25%	0%	0%					NO INPUT	75%	100%	75%
Digital NOTAM	NO INPUT	0%	0%	NO INPUT	25%	0%	0%	0%	25%	99%					25%	0%	0%					NO INPUT	NO INPUT	100%	25%
TOTAL Status	39%	25%	28%	0%	84%	38%	63%	33%	83%	75%	0%	0%	0%	0%	31%	34%	3%	0%	0%	0%	0%	50%	91%	86%	
	INITIAL	INITIAL	DEVL	NO START	FINAL	DEVL	ADV	ADV	FINAL	ADV	NO START	NO START	NO START	NO START	DEVL	DEVL	INITIAL	NO START	NO START	NO START	NO START	DEVL	FINAL	FINAL	

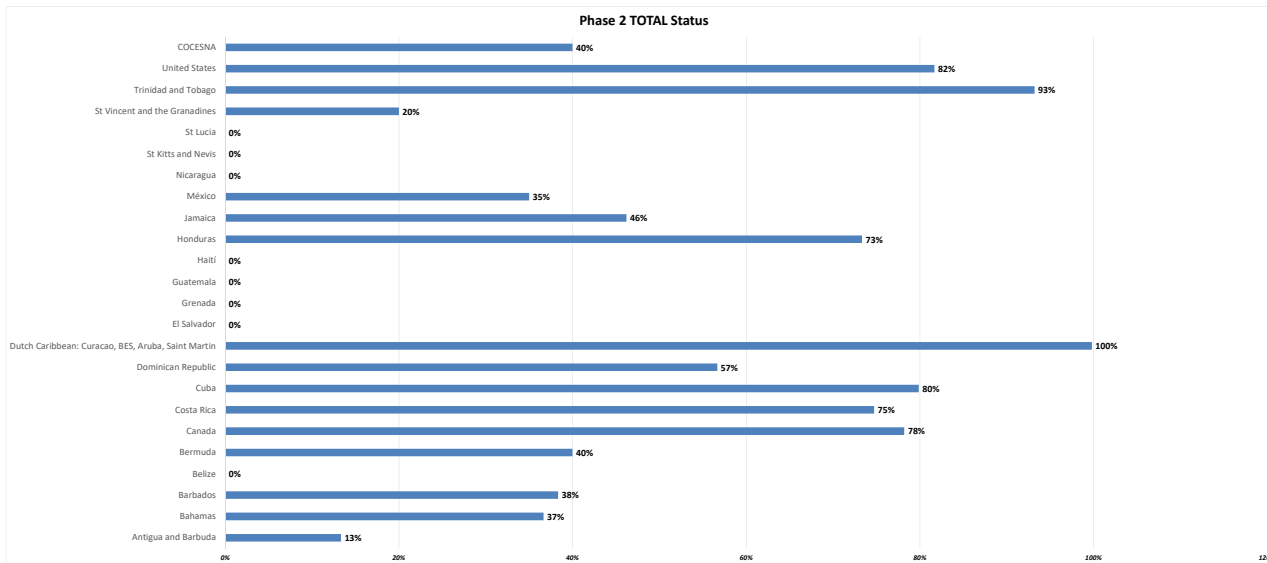
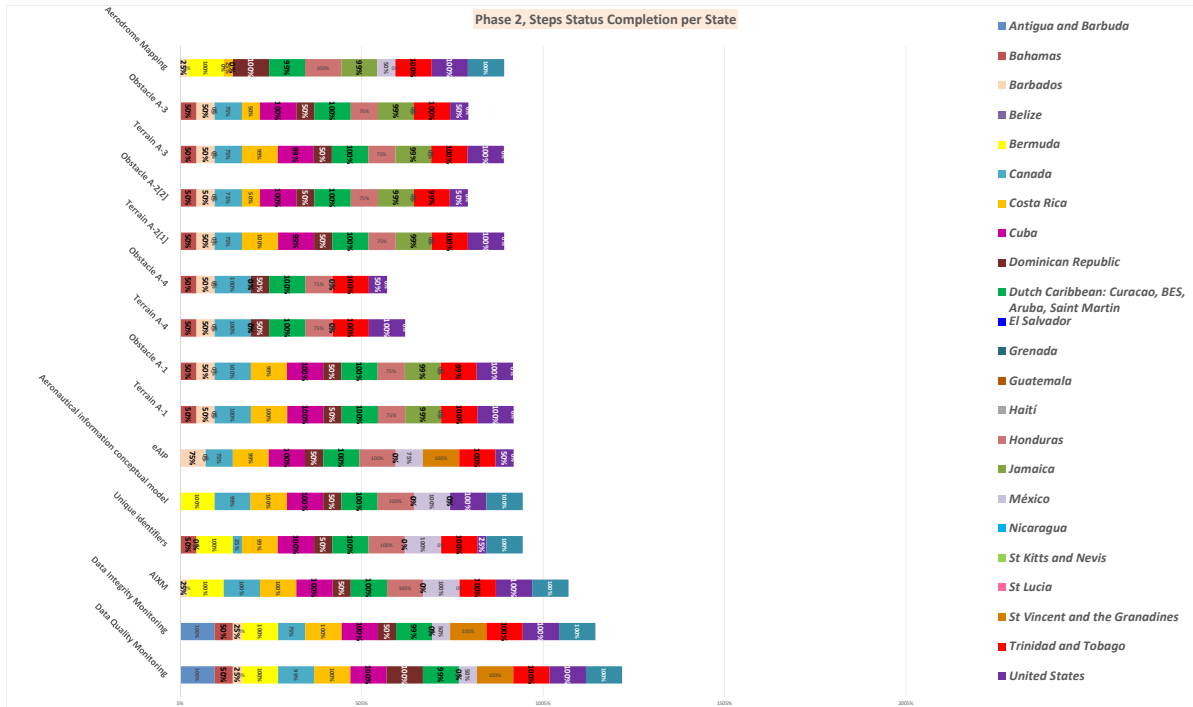
TOTAL Status Complete Transition per State	39%	42%	51%	0%	75%	66%	79%	60%	79%	91%	0%	0%	0%	0%	64%	52%	49%	0%	0%	0%	40%	77%	85%	75%
	DEVL	DEVL	ADV	NO START/NO INFO PROVIDED	ADV	ADV	FINAL	ADV	FINAL	FINAL	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	ADV	ADV	DEVL	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	DEVL	FINAL	FINAL	ADV

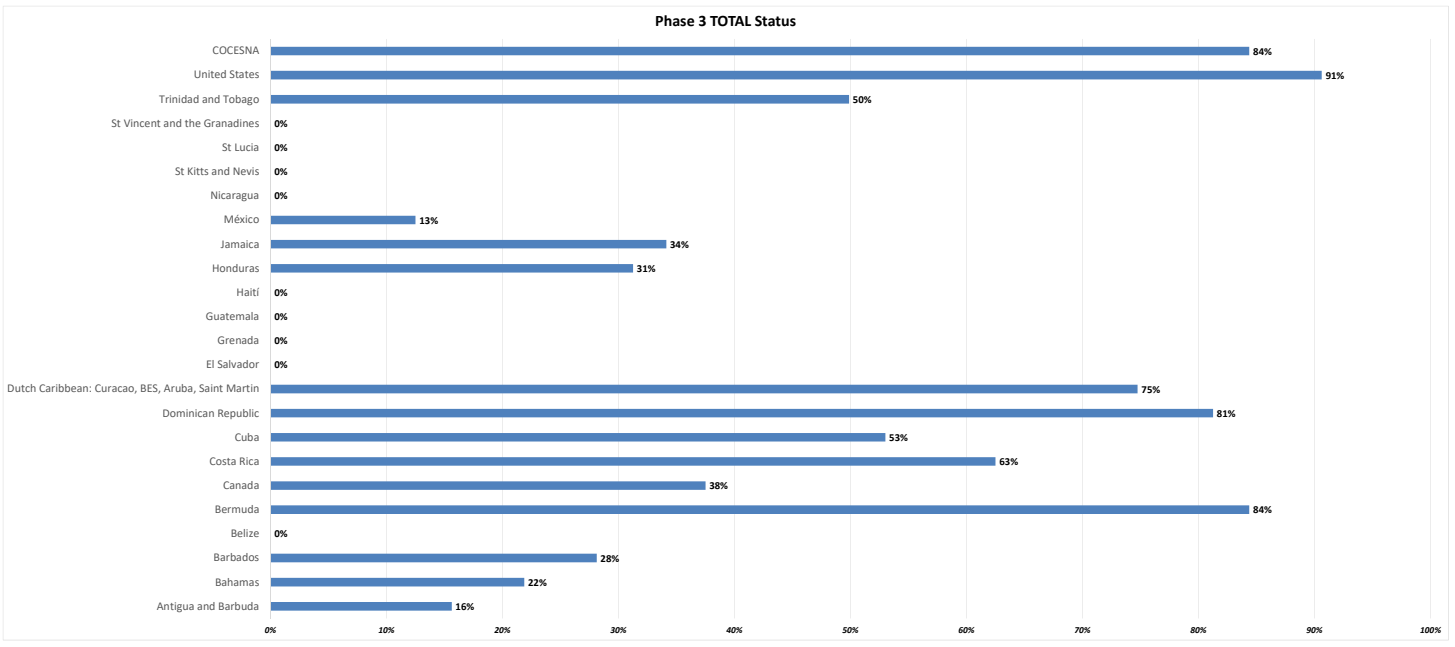
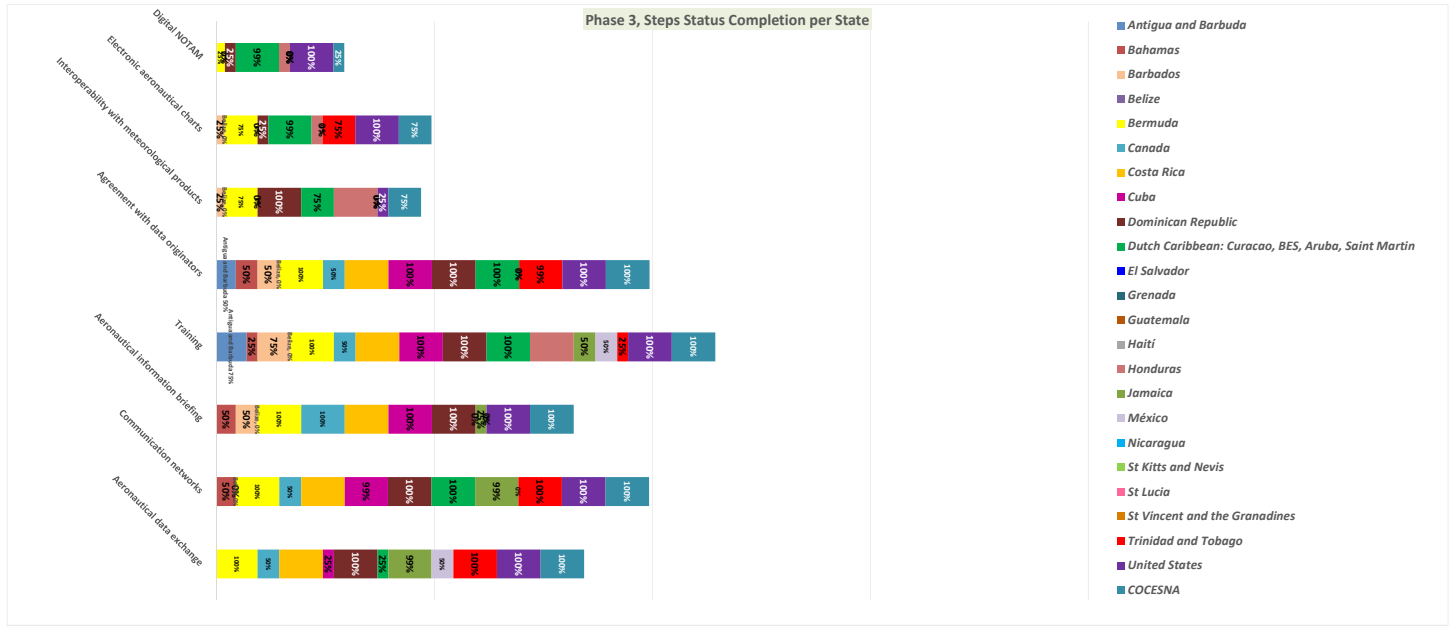
1	Not Started (leave empty)	0%
2	Initial Stage	1 - 25%
3	Developing Stage	26 - 50%
4	Advanced Stage	51 - 75%
5	Finalizing Stage	76 - 99%
6	Fully implemented	100%
7	Implemented through a third party	100%
8	Scheduled to be completed and/or fully implemented by this date / period	Provide more information
9	Will not implement this step (Fill all years grey)	Provide reason

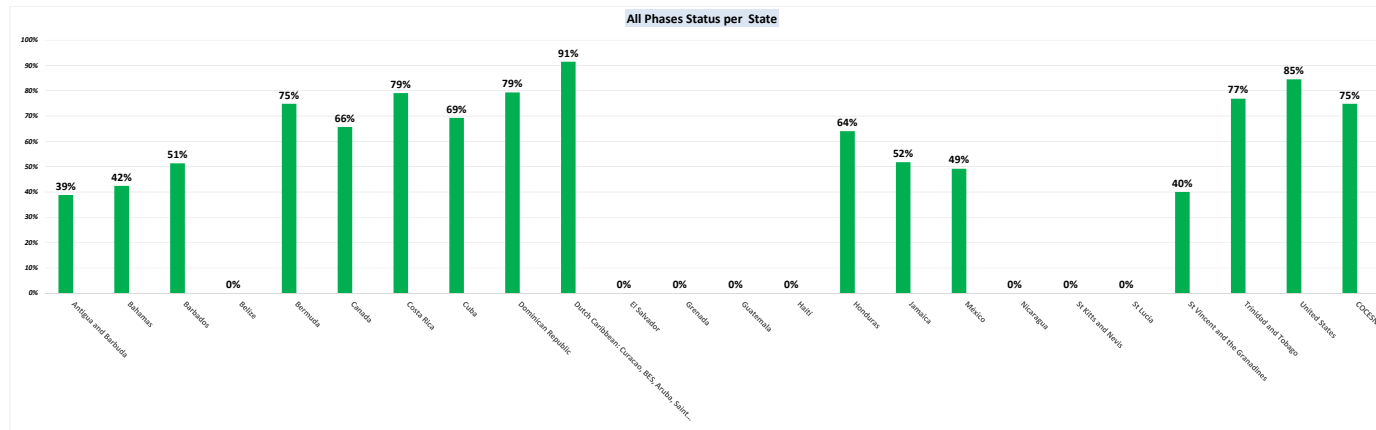
	FOR OFFICIAL USE BY ICAO NACC AIM RAPPORTEUR ONLY!										FOR OFFICIAL USE BY ICAO NACC AIM RAPPORTEUR ONLY!													
Country / Countries	Antigua and Barbuda	Bahamas	Barbados	Belize	Bermuda	Canada	Costa Rica	Cuba	Dominican Republic	Dutch Caribbean: Curacao, BES, Aruba, Saint Martin	El Salvador	Grenada	Guatemala	Haiti	Honduras	Jamaica	México	Nicaragua	St Kitts and Nevis	St Lucia	St Vincent and the Grenadines	Trinidad and Tobago	United States	COCESNA
Date form received		15-Apr-19	15-Apr-19			30-May-19	7wak email	8-May-19	28-May-19	12-Apr-19						7wak email							16-Apr-19	3-May-19
Updated form received (only if applicable)			13-May-19																					

Antigua and Barbuda	Bahamas	Barbados	Belize	Canada	Costa Rica	Cuba	Dominican Republic	Dutch Caribbean: Curacao, BES, Aruba, Saint Martin	El Salvador	Grenada	Guatemala	Haiti	Honduras	Jamaica	México	Nicaragua	St Kitts and Nevis	St Lucia	St Vincent and the Grenadines	Trinidad and Tobago	United States	COCESNA
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Conclusion: 8 out of the 24 (33.3%) member States have not provided information on (or did not start yet with the) transition of AIS to AIM. This is 47.8% - 33.3% = 15.4% increase. Of the 66.7% which have provided information, it can be concluded that: 25% are in a development stage, 43.8% are in Advanced stage, and 31.3% are in Final stage of completing the whole transition. From the detailed information provided, most are still stuck at phase two and three of this transition (not excluding QMS implementation).

All Phases	Antigua and Barbuda	Bahamas	Barbados	Belize	Bermuda	Canada	Costa Rica	Cuba	Dominican Republic	Direct Caribbean Customs (BES, Aruba, Saint Martin)	El Salvador	Grenada	Guatemala	Haiti	Honduras	Jamaica	Mexico	Nicaragua	St. Kitts and Nevis	St. Lucia	St. Vincent and the Grenadines	Trinidad and Tobago	United States	COCESNA
TOTAL Status Complete Transition per State	39%	42%	51%	0%	75%	66%	79%	69%	79%	91%	0%	0%	0%	0%	64%	52%	49%	0%	0%	0%	40%	77%	85%	75%
	DEVL	DEVL	ADV	NO START/NO INFO PROVIDED	ADV	ADV	FINAL	ADV	FINAL	FINAL	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	ADV	ADV	DEVL	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	NO START/NO INFO PROVIDED	DEVL	FINAL	FINAL	ADV

1	Not Started (leave empty)	0%
2	Initial Stage	1 - 25%
3	Developing Stage	26 - 50%
4	Advanced Stage	51 - 75%
5	Finalizing Stage	76 - 99%
6	Fully implemented	100%
7	Implemented through a third party	100%
8	Scheduled to be completed and/or fully implemented by this date / period	Provide more information
9	Will not implement this step (fill all years grey)	Provide more info

Total Progress in the AIS to AIM Transition

States	2020	2021	2022
Antigua and Barbuda	39%	39%	39%
Bahamas	42%	42%	42%
Barbados	51%	51%	51%
Belize	0%	0%	0%
Bermuda	0%	0%	75%
Canada	66%	66%	66%
Costa Rica	48%	48%	79%
Cuba	69%	69%	69%
Dominican Republic	79%	79%	79%
Dutch Caribbean: Curacao, BES, Aruba, Saint Martin	78%	86%	91%
El Salvador	0%	0%	0%
Grenada	0%	0%	0%
Guatemala	0%	0%	0%
Haiti	0%	0%	0%
Honduras	55%	64%	64%
Jamaica	52%	52%	52%
México	49%	49%	49%
Nicaragua	0%	0%	0%
St Kitts and Nevis	0%	0%	0%
St Lucia	0%	0%	0%
St Vincent and the Grenadines	0%	40%	40%
Trinidad and Tobago	64%	64%	77%
United States	85%	85%	85%
COCESNA	0%	0%	75%

