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Review of the 2021 Version of Proposal for Amendment (PfA) NACC 21/03 – ATM

Eddian Méndez

ICAO NACC ATM/SAR Regional Officer

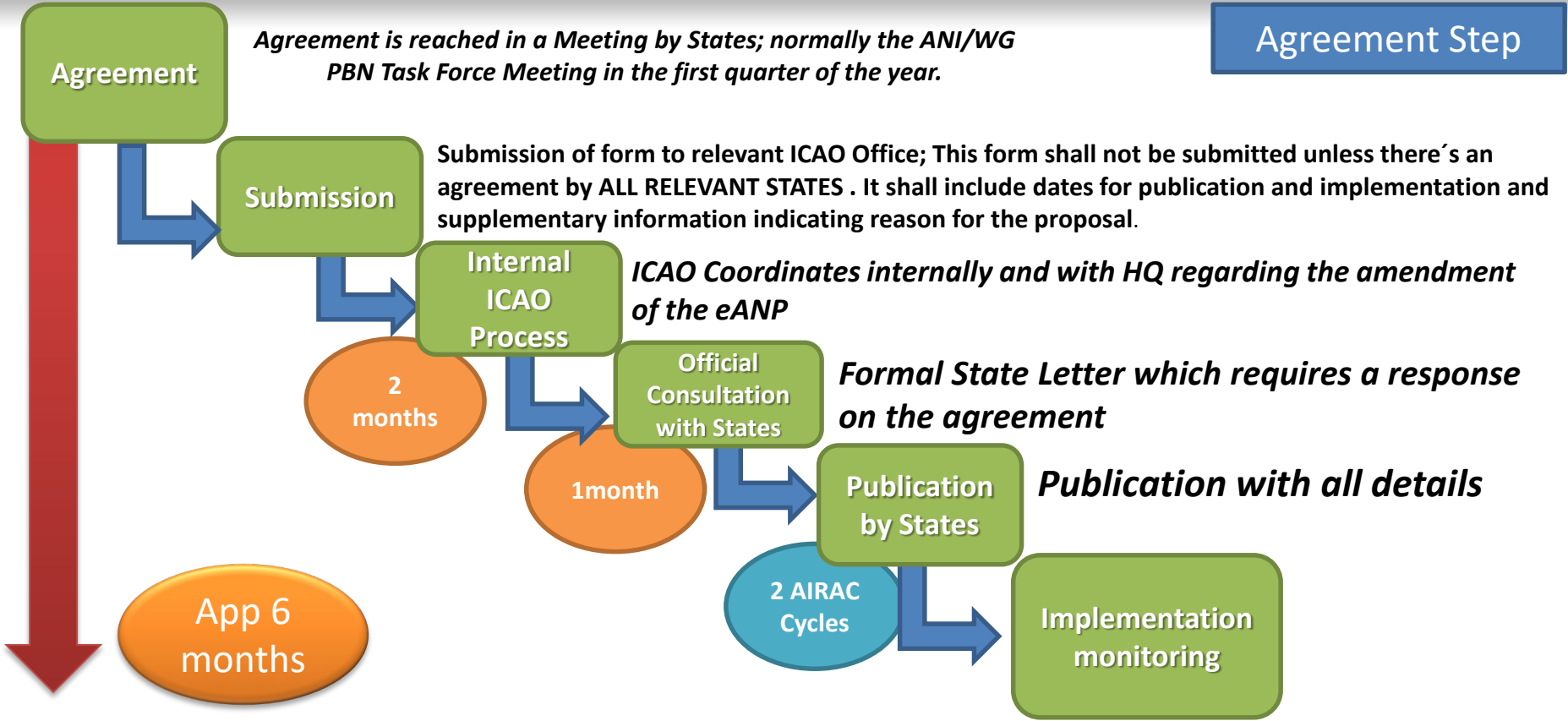
NAM/CAR ANI/WG PBN Implementation Task Force Secretary.



ANI/WG/PBN/TF/02, 10 to 12 August 2021



Agreement Step





Process for PfA NACC 21/03 – ATM

1. Follow up pending proposals from SAM ATSRO/10
 - ✈ Bogotá, Colombia, 17 to 21 June 2019
2. ANI/WG PBN Task Force Teleconference
 - ✈ 29 May 2020
 - ✈ Developed a template to gather information regarding the proposals
 - ✈ Shared the template with States/ANSPs with initial inputs.
3. Follow up teleconferences
 - ✈ Initial review of individual proposals during June, July and August
4. Summary of discussions for proposals
 - ✈ Completed 12 August 2020, compiled information for pre-agreements
5. Pre-agreement with the SAM Office (SAM Region)
 - ✈ Timeframe agreement (publication-effective date)
 - ✈ Methodology to review and agree proposals
6. ANI/WG/PBN/TF/OPT online meeting 20 – 23 October 2020



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ANI/WG/PBN/TF/OPT Meeting

20 – 23 October 2020 (online)

- ✈ Optimization of Longitudinal Separation
- ✈ Implementation of Performance-Based Navigation (PBN) Routes
- ✈ Harmonization of the CAR Region Upper and Lower Level Limits.
- Attended by 62 participants, representatives of 22 States, ANSPs and International Organizations of the CAR/SAM Regions
- Agreed 23 optimization proposals
 - Key implementation for connection of new areas
 - Enhanced collaboration with the SAM Region
 - 2 set of implementation dates



Agreed Publication and Effective Dates

Publication Date	Effective Date	States / FIRs Involved
22-Apr	17-Jun	
Proposal 1		Cuba – Haiti – United States/Miami
Proposal 2		Cuba- United States/Houston
Proposal 3		Cuba- United States/Houston
Proposal 4		Cuba- United States/Houston
Proposal 13		Only FAA segment
Proposal 16		Cuba - United States/Miami – Haiti – Dominican Republic - United States/San Juan
Proposal 23		United States / San Juan
Proposal 24		United States / San Juan
Proposal 25		United States / San Juan - Dominican Republic
Publication Date	Effective Date	States / FIRs Involved
25-Mar	20-May	
Proposal 5		Cuba - United States/Miami
Proposal 6		Curaçao - Venezuela (SAM) – Dominican Republic
Proposal 7		Curaçao - Venezuela (SAM) - Trinidad and Tobago
Proposal 8		Curaçao - Venezuela – Colombia (SAM)
Proposal 9		Curaçao - Venezuela (SAM) - United States/San Juan
Proposal 11		Curaçao - United States/San Juan – Venezuela (SAM)
Proposal 12		Cuba – Jamaica – Curaçao -Venezuela (SAM)
Proposal 13		Dominican Republic – Curaçao – United States/Miami
Proposal 15		Dominican Republic – Curaçao – Venezuela (SAM)
Proposal 18		United States/Miami – Cuba – Jamaica - Colombia/Barranquilla
Proposal 19		Cuba – Jamaica - Colombia/Barranquilla
Proposal 20		Cuba – Jamaica - Colombia/Barranquilla
Proposal 21		CENAMER –Jamaica - Colombia/Barranquilla –Venezuela- Brazil (SAM)
Proposal 22		Jamaica - Colombia/Barranquilla



After PBN/TF/OPT Meeting Process

Internal review by States/ANSPs

- Initial awareness
- Planning and coordination for implementation

Additional Coordination

- Some proposals require adjustments
- Additional clarification
- Possible setbacks

Draft/Update of LOAs

- Enhance operational procedures
- Review LOAs
- Draft new LOAs where required

Preliminary draft publication

- Allocation of 5LNCs
- Draft charts and prepare AIP amendment
- For ICAO: Allocation of ATS routes



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

Optimization of the CAR Region Airspace Meeting

NAM/CAR Air Navigation Implementation Working Group (ANI/WG)

Performance-Based Navigation (PBN) Airspace Concept Task Force

(ANI/WG/PBN/TF/OPT)

Final Report

20 – 23 October 2020

Prepared by the Secretariat November 2020



International Civil Aviation Organization Organización de Aviación Civil Internacional 國際民用航空組織

Plan meeting please refer: Ref: NT-N74-1.1.NACC2103 – E.OSG - NACC8903 26 March 2021

To: States, Territories

Subject: Proposal for Amendment to the ICAO Air Navigation Plan – Caribbean and South American Regions, Volume II (CAR/SAM ANP - Doc 8733) - Part IV ATM Table ATM II-CAR/SAM-1-CAR/SAM Region ATS Routes (Serial No. NACC 2103 – ATM)

Action Required: Send your comments or approval by 26 April 2021

Dear Sir/Madam,

I wish to draw your attention the attached Proposal for Amendment to the ICAO Air Navigation Plan – Caribbean and South American Regions, Volume II (Doc 8733), Serial No. NACC 2103 – ATM, which has been originated by the CAR/SAM States, as result of the agreement achieved in the following meetings:

- Third ICAO/LATA/CANSO Performance-Based Navigation (PBN) Harmonization, Modernization and Implementation Meeting for the North American, Caribbean and South American Regions (ICAO/LATA/CANSO/PBN/3), Mexico City, Mexico, 2 to 6 July 2018
- Tenth SAM Workshop Meeting on ATS routes network optimisation (SAM ATSO/10), Bogotá, Colombia, 17 to 21 June 2019
- Optimization of the CAR Region Airspace Meeting NAM/CAR Air Navigation Implementation Working Group (ANI/WG) PBN Airspace Concept Task Force (ANI/WG/PBN/TF/OPT), Online, 20 to 23 October 2020

2. This amendment has been made in support of Strategic Objectives' Safety and Efficiency.

Appendix C – Delete ATS routes described as follows:

UG131		
SIGNIFICANT POINT PUNTO SIGNIFICATIVO	LATITUDE LATITUD	LONGITUDE LONGITUD
LADOGA	08 47 15 N	076 33 43 W
MANOK	15 00 00 N	077 41 43 W
SAPULEY		

UG140		
SIGNIFICANT POINT PUNTO SIGNIFICATIVO	LATITUDE LATITUD	LONGITUDE LONGITUD
MANOK		
LA OYEA	15 00 00 N	076 21 50 W
MANOGA	08 47 15 N	076 33 43 W

UG101		
SIGNIFICANT POINT PUNTO SIGNIFICATIVO	LATITUDE LATITUD	LONGITUDE LONGITUD
MANOGA		
MANAMA	22 24 14 N	077 23 14 W
MANOBI	10 00 00 N	076 28 00 W
MANOBA	15 00 00 N	075 13 48 W
MANOBI	08 14 02 N	077 20 03 W

UG110		
SIGNIFICANT POINT PUNTO SIGNIFICATIVO	LATITUDE LATITUD	LONGITUDE LONGITUD
MANOBI		
JANGEL		
PUNTA CAUCEDO		
MANOK		
MANOBI	15 05 40 N	77 12 00 W
MANOBI	14 18 43 N	074 00 00 W
JAGUA	10 50 21 N	077 28 00 W
MANOGA	08 14 02 N	077 20 03 W

UG100		
SIGNIFICANT POINT PUNTO SIGNIFICATIVO	LATITUDE LATITUD	LONGITUDE LONGITUD
PUNTO MONTE	41 35 43 S	73 05 31 W
SAL MACHUCA	45 54 47 S	71 43 45 W
BOCA	53 00 00 S	70 50 43 W
MANA AMARILLO	53 00 13 S	70 51 13 W
LITON	54 00 05 S	68 26 28 W
URUGUAY	54 50 17 S	68 17 03 W
MANA MILETAN	54 55 47 S	67 27 16 W



REPÚBLICA DOMINICANA INSTITUTO DOMINICANO DE AVIACIÓN CIVIL GESTIÓN DE LA INFORMACIÓN AERONÁUTICA (AIM)

Aviation Portal 1100, Edificio Sede Interamericana del Aeropuerto Internacional P.R. 200222-0222 tel. 2200 170 5492/2202



AMDT AIRAC 4-2021
06 MAY 2021

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ENMIENDA AIRAC A LA AIP DE LA REPUBLICA DOMINICANA / AIRAC AMENDMENT TO AIP OF THE DOMINICAN REPUBLIC

Efectiva / Effective 17 JUN 2021

ESTA ENMIENDA NO DEBE INTRODUCIRSE EN LA AIP HASTA EL 17 JUN 2021, SIN EMBARGO; NO OLVIDE ESTUDIAR SU CONTENIDO ANTES DE SU FECHA DE ENTRADA EN VIGOR / THIS AMENDMENT SHOULD NOT BE INSERTED INTO THE AIP UNTIL 17 JUN 2021, HOWEVER; DON'T FORGET TO STUDY ITS CONTENT BEFORE ITS EFFECTIVE DATE

1.- CONTENIDO:

1.- CONTENTS:

Esta Enmienda Incluye información de carácter duradero contenida en la AIP / REPUBLICA DOMINICANA.

This amendment includes information of lasting character contained in the DOMINICAN REPUBLIC AIP.

• Actualización de la elevación del aeródromo en el Aeropuerto Internacional Dr. Joaquín Balaguer (MJBH).

• Update of the aerodrome elevation in the Dr. Joaquín Balaguer International Airport (MDJB).

• Inclusión de nuevas rutas de navegación aérea (RNAV) en espacio aéreo inferior y superior: UMM-348 (Segmento desde RETAK a KATOK).

• Inclusion of new air navigation routes (RNAV) in both lower and upper airspace: UMM-348 (Segment from RETAK to KATOK).

• Eliminación de rutas ATS en espacio aéreo inferior y superior: UA/A-636 (Segmento desde RETAK a KATOK).

• Withdrawal of ATS routes in both lower and upper airspace: UA/A-636 (Segment from RETAK to KATOK).

• Actualización en los valores mínimos de visibilidad y techo de nubes de las Cartas de Aproximación por Instrumento (IAC) en los Aeropuertos Internacionales: José Francisco Peña Gómez (MDSI), Punta Cana (MDPC), Puerto Plata (MDPP), Casa de Campo (MDLR), Cibao (MDST), Dr. Joaquín Balaguer (MDJB) y María Montez (MDBH).

• Update of ceiling and visibility minimum values of the Instrument Approach Chart (IAC) in the International Airports: José Francisco Peña Gómez (MDSI), Punta Cana (MDPC), Puerto Plata (MDPP), Casa de Campo (MDLR), Cibao (MDST), Dr. Joaquín Balaguer (MDJB) and María Montez (MDBH).

AIP AMENDMENT COVER PAGE JAMAICA CIVIL AVIATION AUTHORITY AERONAUTICAL INFORMATION MANAGEMENT 4 WINCHESTER ROAD, KINGSTON 10 JAMAICA WI.

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AIRAC
AIP Amendment 01/21
25 March 2021

EFFECTIVE DATE: 20 MAY 2021

1. Contents:

GEN:

3-3-3 List of Aeronautical Charts Table updated

ENR:

2-1-4A Jamaica TMA Chart updated
3-1-2 Lower ATS Route A311 updated
3-1-14 Lower ATS Route B644 updated
3-2-1 Upper ATS Route UA301 updated
3-2-2 Upper ATS Route UA311 updated
3-2-4 Upper ATS Route UG430 deleted
3-2-5 Upper ATS Route UG442 deleted & Upper ATS Route UG446 relocated
3-2-13 Upper ATS Route UR640 updated
3-2-14 Upper ATS Route UR644 updated
3-3-3 Lower RNAV Route L417 updated
3-3-8A New Upper RNAV Route UL352 added
3-3-10 Upper RNAV Route UL347 updated
3-3-11 Upper RNAV Route UL349 updated
3-3-12 Upper RNAV Route UL417 updated
3-3-17 Upper RNAV Route UL674 updated
3-3-24A New Upper RNAV Route UM409 added
3-3-26 Upper RNAV Route UM504 updated
3-3-26A New Upper RNAV Route UM779 added
3-3-26A New Upper RNAV Route UM706 added
3-3-26B New Upper RNAV Route UP225 added
4-1-1 Name-Code Designators for Significant Point Table updated
4-4-2 Name-Code Designators for Significant Point Table updated
4-4-3 Name-Code Designators for Significant Point Table updated

Cover Page 1 of 4
AIRAC AIP AMEND 01/21
20 MAY 2021 (effective)

REPUBLICA DE CUBA



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AIP CUBA
AIRAC AMDT 4 - 21
PUB Date: 22 APR 21
EFF Date: 17 JUN 21
0400 UTC

ENMIENDA A LA AIP-CUBA / AMENDMENT AIP-CUBA

1.- CONTENIDO:

Esta enmienda incluye las siguientes modificaciones a la AIP/Cuba:

- Nuevas rutas UL218, UM451, UM463.
- Rutas modificadas y eliminadas debido a la realineación de la red de rutas en la FIR.
- Inclusión, cambio y eliminación de puntos significativos.
- Nuevos puntos de notificación ATS (AIREP).
- Modificaciones relativas al formato eAIP.

1.- CONTENT:

This amendment includes the following AIP/Cuba changes:

- New routes UL218, UM451, UM463.
- Modified and withdrawn routes due to the realignment of the network routes in the FIR.
- Inclusion, change and withdraw of significant points.
- New (AIREP) ATS notification points.
- Modifications related to the eAIP format.

2.- DESTRUIR / DESTROY

GEN

GEN 0-2-2 20 MAY 2021
GEN 0-4-1 20 MAY 2021
GEN 0-4-2 20 MAY 2021
GEN 0-4-3 20 MAY 2021
GEN 0-4-4 20 MAY 2021
GEN 0-4-5 20 MAY 2021
GEN 0-4-6 20 MAY 2021
GEN 3-2-5 20 MAY 2021
GEN 3-2-8 20 MAY 2021
GEN 3-5-5 20 MAY 2021
ENR
ENR 1-4-3 20 MAY 2021
ENR 3.1.4.301-1 20 MAY 2021

3.- INSERTAR / INSERT

GEN

GEN 0-2-2 17 JUN 2021
GEN 0-4-1 17 JUN 2021
GEN 0-4-2 17 JUN 2021
GEN 0-4-3 17 JUN 2021
GEN 0-4-4 17 JUN 2021
GEN 0-4-5 17 JUN 2021
GEN 0-4-6 17 JUN 2021
GEN 3-2-5 17 JUN 2021
GEN 3-2-8 17 JUN 2021
GEN 3-5-5 17 JUN 2021
ENR
ENR 1-4-3 17 JUN 2021
ENR 3.1.4.301-1 17 JUN 2021



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Page IV-8

ATS routes — Lower airspace	ATS routes — Upper airspace
Routes ATS — Espace aérien inférieur	Routes ATS — Espace aérien supérieur
Rutas ATS — Espacio aéreo inferior	Rutas ATS — Espacio aéreo superior

A314

- CANDAS (OAS) 29 56.68S 051 08.24W
- BAGE 31 23.44S 054 06.58W
- ISALA 314034S 0542647W
- DURAZNO 332122.5S 0562945.8W
- PAPIX 342458S 0580002W
- EZEIZA 344927S 0583207W

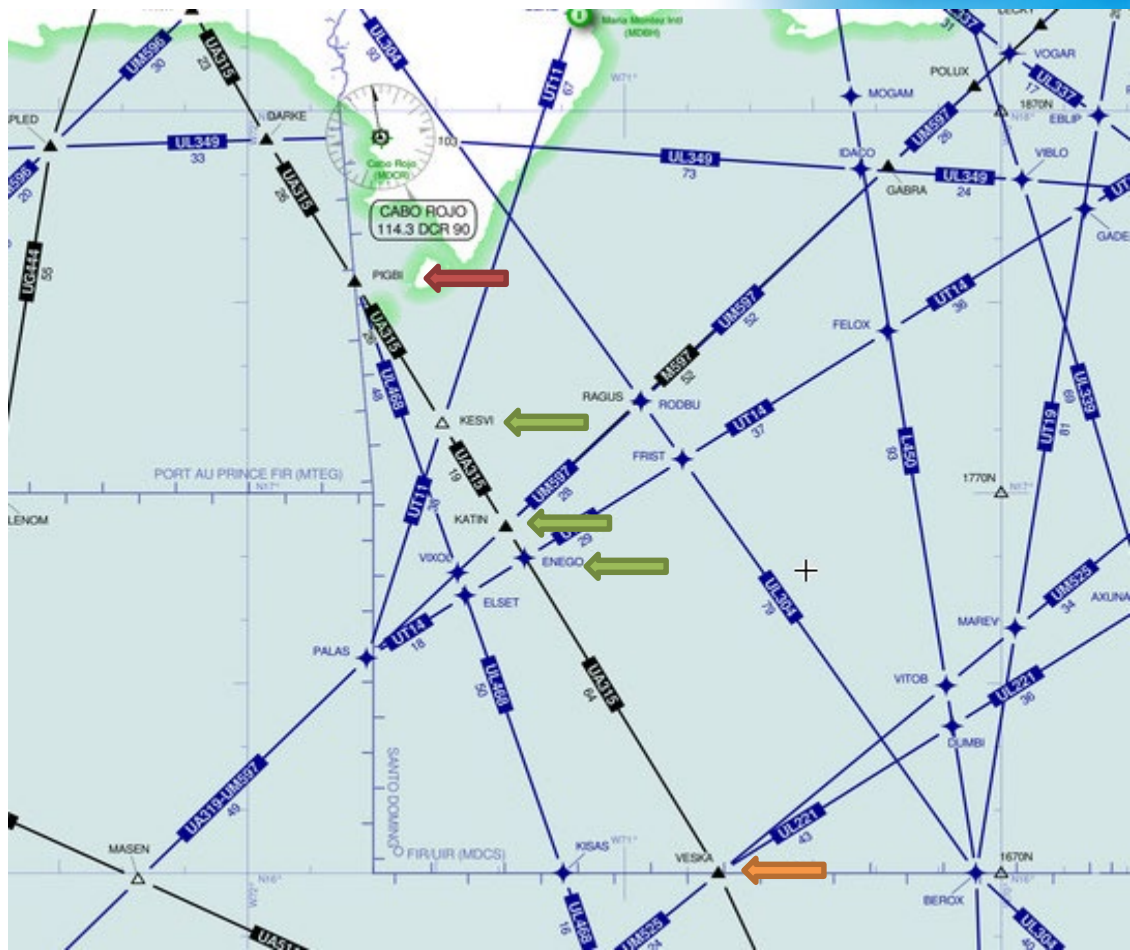
A315

- MAIQUETIA 103634.10N 0665922.80W
- AVELO 112505.00N 0680037.00W
- CURAÇAO
- VESKA ←
- PIGBI ←
- OBLEON
- JOSES
- GREAT INAGUA
- BIMINI

UA315 See Note/Voir Note/Véase Nota 1*

- MAIQUETIA 103634.10N 0665922.80W
- AVELO 112505.00N 0680037.00W
- CURAÇAO
- VESKA ←
- PIGBI ←
- OBLEON
- JOSES
- GREAT INAGUA
- BIMINI

*Between/Entre JOSES/BIMINI





Challenges/Opportunities for Improvement

- ✈ Difficulties to gather initial proposals.
 - ✈ Replacement of conventional ATS routes with no real optimization benefit
- ✈ Coordination with the SAM Region
 - ✈ Proper integration mechanisms/ Implementation dates agreement
- ✈ Follow up additional coordination
 - ✈ Internal and external required changes
 - ✈ Required updates to operational procedures
- ✈ Follow up for implementation
 - ✈ Internal ICAO process for PFA drafting
 - ✈ Additional States comments
 - ✈ Review of publication documents
- ✈ Measuring implementation benefits
 - ✈ Required overall assessment for implementation benefits (see IP/02 Cuba)
- ✈ Link to follow up process
 - ✈ Address pending/discarded proposals
 - ✈ Address previous barriers
 - ✈ Identify new opportunities



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Suggested Actions

- ✈ Work to agree a series of future PBN/TF/OPT Meetings
- ✈ Work to agree a harmonized publication and implementation timeframe
- ✈ Get involved in the PFA development
- ✈ Make recommendations to improve the PFA development and the State publication process



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THANK YOU!