



International Civil Aviation Organization
North American, Central American and Caribbean Office (NACC)
Seventh Central Caribbean Working Group Meeting
(C/CAR WG/7)
Mexico City, Mexico, 13 to 16 July 2009

C/CAR WG/7 - IP/09
15/06/09

Agenda Item 2: Review of air navigation matters
2.1 Global air navigation and CAR/SAM developments

Proposal for Amendment of the ICAO CAR/SAM ANP (Doc 8733), Volume I, (Serial No. NACC 08/03 – ATM)

(Presented by the Secretariat)

SUMMARY	
This Information Paper contains the approved proposal for amendment NACC 08/03-ATM.	
<i>Strategic Objectives</i>	<i>This working paper is related to Strategic Objectives D.</i>

1. Introduction

1.1 The President, on behalf of the Council, approved on 11 May 2009 the proposal for amendment of the ICAO CAR/SAM Air Navigation Plan included in the **Appendix** to this Information Paper. The approved amendment will be incorporated to the next consolidated amendment to be issued to the CAR/SAM Air Navigation Plan (Doc 8733).



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Международная
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гражданской
авиации

منظمة الطيران
المدني الدولي

国际民用
航空组织

Ref.: NT 4/1.1, NACC 08/03-ATM — **EMX0500**

15 May 2009

To: Permanent Secretary, Antigua and Barbuda
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Anthony Archer, Barbados
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Subject: **Approval of Proposal for Amendment of the ICAO CAR/SAM ANP (Doc 8733),
Volume I, (Serial No. NACC 08/03 – ATM)**

Dear Sir/Madam:

I have the honour to inform you that the President, on behalf of the Council, approved the attached proposal for amendment of the ICAO CAR/SAM Air Navigation Plan on 11 May 2009.

The approved amendment will be incorporated to the next consolidated amendment to be issued to the CAR/SAM Air Navigation Plan (Doc 8733).

Accept, Sir/Madam, the assurances of my highest consideration.

A handwritten signature in black ink is written over a blue circular digital signature stamp. The stamp contains the text "Firma Digital" and "Digital Signature" around a central emblem.

Loretta Martin
Regional Director
ICAO NACC Office

Enclosure:
As indicated

**PROPOSAL FOR AMENDMENT OF THE BAISC AIR NAVIGATION PLAN – CARIBBEAN
AND SOUTH AMERICAN REGIONS (CAR/SAM ANP – DOC 8733)
(Serial No. NACC 08/03 - ATM)**

- a) **Plan: CAR/SAM ANP (Doc 8733), Vol. I, Basic, Part V– Air Traffic Management (ATM)**
Charts: ATS 1 – Flight Information Service-Lower airspace; ATS 2 – Flight Information Service-Upper airspace; ATS 3 – Area Control Service-Lower airspace; ATS 4 – Area Control Service-Upper airspace; ATS 6A – Area Control Service-Lower airspace; ATS 7A – Area Control Service-Upper airspace.

b) **Proposed amendment:**

- 1 **Add** the ATS routes as depicted in the **Appendix A**.
- 2 **Amend** ATS Routes as depicted in the **Appendix B**.
- 3 **Delete** ATS Routes as depicted in the **Appendix C**.
- 4 **Amend** the common lateral boundaries of the Miami Oceanic, New York Oceanic and San Juan FIRs, as follows:

Miami CTA FIR

Current:	New:	Boundary:
25°00'00"N 69°07'00"W	-----	No change
23°30'00"N 68°41'00"W	<u>25°00'00"N 68°29'32.7"W</u>	Change: ZMA/ZNY
22°45'00"N 68°28'00"W	<u>22°57'00.1"N 68°01'39"W</u>	Change: ZMA/ZNY/ZSU
21°08'00"N 67°45'00"W	<u>21°14'20.8"N 67°39'01.5"W</u>	Change: ZMA/ZSU
19°39'00"N 69°09'00"W	-----	No change

New York Oceanic CTA FIR

Current:	New:	Boundary:
25°00'00"N 69°07'00"W	-----	No change
23°30'00"N 68°41'00"W	<u>25°00'00"N 68°29'32.7"W</u>	Change: ZMA/ZNY
-----	<u>22°57'00.1"N 68°01'39"W</u>	Change: ZMA/ZNY/ZSU
-----	<u>23°30'00"N 67°14'40"W</u>	Change: ZNY/ZSU
23°30'00"N 60°00'00"W	-----	No change

San Juan CTA FIR

Current:	New:	Boundary:
19°39'00"N 69°09'00"W	-----	No change
21°08'00"N 67°45'00"W	<u>21°14'20.8"N 67°39'01.5"W</u>	Change: ZMA/ZSU
22°45'00"N 68°28'00"W	<u>22°57'00.1"N 68°01'39"W</u>	Change: ZMA/ZNY/ZSU
23°30'00"N 68°41'00"W	<u>23°30'00"N 67°14'40"W</u>	Change: ZNY/ZSU
23°30'00"N 60°00'00"W	-----	No change

c) Originated by:

The United States of America, in coordination with States, ATS providers and International Organizations of the Caribbean (CAR) and North Atlantic (NAT) Regions.

d) Reasons for the proposal:

1) The WATRS PLUS Project, referring to the redesign route structure in conjunction with a reduction of lateral separation within the Miami Oceanic, New York Oceanic and San Juan FIRs, was created to extend benefits of Required Navigation Performance 10 (RNP10) implementation beyond the current West Atlantic Route System (WATRS) airspace into the San Juan FIR and Miami airspace.

2) The implementation of the WATRS Project will allow 93 km (50 NM) lateral separation between RNP10 or RNP4 approved aircraft by the State of Registry or State of Operator, as appropriate, operating within the Miami Oceanic, New York Oceanic and San Juan FIRs.

3) Analysis of aircraft types operating in the oceanic areas affected by this initiative indicates that approximately 90% of the flights conducted in the airspace are now flown by aircraft meeting RNP10 or RNP4 standards without modification.

4) Aircraft that are not authorized RNP10 or RNP4 (non-RNP10 aircraft) will be allowed to continue to file any route at any flight level in the areas listed above. They will be cleared to operate on their preferred route and flight level as traffic permits and will be separated from other aircraft by the existing 167 km (90 NM) standard.

5) The FAA enhanced air traffic control automation system, Ocean21, will aid the controller in applying the applicable separation standard between aircraft authorized RNP10 or RNP4 and non-RNP10 aircraft.

6) The FAA Separation Standards Analysis Group developed the "Safety Assessment to Support the Use of 50 NM Lateral Separation Standards in the WATRS Plus Control Areas." The Safety Assessment concluded that the estimate of lateral collision risk meets ICAO endorsed target level of safety of 5×10^{-9} fatal accidents per flight hour due to the loss of planned lateral separation. Information and a summary of the Safety Assessment are posted on the U.S. FAA WATRS Plus Webpage in Section 2. The WATRS Plus Webpage address is:

http://www.faa.gov/about/office_org/headquarters_offices/ato/service_units/enroute/oceanic/WATRS_Plus/

7) Monitoring arrangements for pre and post RNP10 implementation have been established through the U.S. FAA Oceanic Separation Reduction Work Group (OSRWG).

e) Date of implementation:

As soon as it is approved.

f) Proposal circulated to the following States/Territories and organizations:

Anguilla	France	Saint Lucia
Antigua and Barbuda	French Antilles	Saint Vincent and the Grenadines
Argentina	French Guyana	Spain
Aruba	Grenada	Suriname
Bahamas	Guatemala	Trinidad and Tobago
Barbados	Guyana	Turks and Caicos Islands
Belize	Haiti	United Kingdom
Bermuda	Honduras	United States *
Bolivia	Iceland	Uruguay
Brazil	Jamaica	Venezuela
British Virgin Islands	Mexico	Virgin Islands (USA)*
Canada	Montserrat	
Cayman Islands	Netherlands	COCESNA
Chile	Netherlands Antilles	IATA*
Colombia	Nicaragua	IFALPA*
Costa Rica	Panama	IFATCA*
Cuba	Paraguay	
Dominica*	Peru	
Dominican Republic	Portugal	* For information
Ecuador	Puerto Rico (USA)*	purposes only
El Salvador	Saint Kitts and Nevis	

g) Secretariat's comments:

- 1) Restructuring ATS routes contained in the Air Navigation Plan – Caribbean and South American Regions is within the framework of the ATM evolution process in the CAR and SAM Regions. Recommendations 5/14, 5/15 and 5/16 of the CAR/SAM/3 RAN Meeting refer.
- 2) The North Atlantic Systems Planning Group (NATSPG), North American, Central American and Caribbean Working Group (NACC/WG), Directors of Civil Aviation of the Central Caribbean (C/CAR DCA), Directors of Civil Aviation of the Eastern Caribbean (E/CAR DCA) and the States/Territories of the Caribbean Region have supported the redesign of the West Atlantic Route System (WATRS) based on the implementation of RNP10 specification for use of 50 NM lateral separation.
- 3) To maximize the benefits of this implementation, additional changes were agreed to for the airspace of the Port Au Prince and Santo Domingo FIRs to harmonize transition routing to/from adjacent FIRs of the CAR Region.

4) Implementation of RNP10 in WATRS Plus airspace will allow 50 NM lateral separation to be applied and increase the number of routes and associated flight levels by approximately 40%. Increased availability of routes and flight levels will enable more aircraft to operate on time and new direct and efficient routes and flight levels will reduce route lengths, fuel burn and CO2 emissions. In addition, en route capacity and Air Traffic Management (ATM) flexibility will be enhanced.

5) Preliminary performance measurements based on the analysis of two scenarios related to cost benefit and gas emissions are:

First scenario: completed; assumes that all authorized RNP10 or RNP4 approved flights project 15 year fuel savings of U.S.\$741 million and annual CO2 fuel emissions reduction of 161,800 metric tons.

Second scenario: in progress; will examine the impact of 10% of flights conducted by non-RNP 10 aircraft.

6) The proposed amendment to the boundaries of the Miami Oceanic, New York Oceanic and San Juan FIRs will allow for improvements to traffic flows in WATRS Plus airspace and facilitate ATS coordination among the corresponding ACCs.

(Serial No. NACC 08/03 - ATM)

Appendix A - Add new ATS routes

L450	Lat	Long
LETON	25° 00' 00" N	071° 59' 39" W
IORIO	24° 04' 17" N	071° 49' 57" W
COWAR	23° 16' 27" N	071° 37' 05" W
JEFFO	22° 07' 23" N	071° 18' 46" W
GTK	21° 26' 26" N	071° 08' 04" W
SEKAR	20° 25' 07" N	070° 47' 44" W
ROLSU	19° 40' 55" N	070° 40' 17" W
KEBAL	18° 32' 32" N	070° 28' 53" W
MOGAM	18° 02' 13" N	070° 23' 53" W
SUTEM	17° 46' 49" N	070° 21' 21" W
VITOB	16° 29' 39" N	070° 08' 47" W
BEROX	16° 00' 00" N	070° 04' 00" W

L451	Lat	Long
OLDEY	32° 15' 44" N	077° 51' 14" W
JAINS	31° 21' 20" N	077° 00' 00" W
ILIDO	28° 14' 41" N	074° 07' 26" W
LETON	25° 00' 00" N	071° 59' 39" W
IORIO	24° 04' 17" N	071° 49' 57" W
SKYLE	23° 29' 17" N	070° 58' 28" W
CERDA	22° 44' 43" N	069° 54' 09" W
DUNED	22° 25' 39" N	069° 36' 11" W
LERUG	22° 07' 19" N	069° 19' 00" W
MYSTR	21° 18' 42" N	068° 33' 57" W
ELMUC	20° 47' 02" N	068° 05' 00" W
FRATT	19° 26' 04" N	065° 48' 20" W
SLUGO	18° 23' 22" N	063° 40' 00" W
PJM	18° 02' 16" N	063° 07' 06" W
ELOPO	17° 39' 00" N	062° 33' 16" W
ANU	17° 07' 33" N	061° 48' 01" W

L452	Lat	Long
OXANA	34° 21' 45" N	073° 45' 33" W
OMALA	33° 14' 32" N	073° 23' 49" W
WILYY	32° 18' 42" N	073° 06' 13" W
KANUX	30° 33' 36" N	072° 34' 03" W
ELURO	30° 09' 32" N	072° 26' 51" W
KASAR	28° 19' 18" N	071° 55' 10" W
LNHOM	25° 00' 00" N	071° 00' 36" W
SLUKA	24° 07' 36" N	070° 55' 25" W
SKYLE	23° 29' 17" N	070° 58' 28" W
WLBRN	22° 51' 18" N	071° 01' 28" W
GTK	21° 26' 26" N	071° 08' 04" W
RNTRY	20° 49' 14" N	070° 15' 22" W
MACKI	20° 26' 37" N	069° 43' 42" W
HARBG	19° 52' 02" N	068° 56' 51" W
BQN	18° 29' 53" N	067° 06' 30" W
ETEEE	16° 34' 50" N	065° 28' 00" W
RAFEE	16° 06' 33" N	065° 04' 12" W
ANADA	15° 00' 00" N	064° 08' 46" W

<u>L453</u>	Lat	Long
AZEZU	37° 52' 28" N	072° 22' 43" W
<u>LEXAD</u>	<u>36° 45' 20" N</u>	<u>072° 23' 38" W</u>
PAEPR	35° 02' 31" N	072° 25' 00" W
<u>ONGOT</u>	<u>33° 58' 54" N</u>	<u>072° 18' 06" W</u>
<u>OVEBA</u>	<u>33° 01' 41" N</u>	<u>072° 02' 30" W</u>
<u>ALOB</u>	<u>32° 02' 44" N</u>	<u>071° 46' 48" W</u>
<u>BOREX</u>	<u>28° 51' 05" N</u>	<u>070° 58' 00" W</u>
<u>LAMER</u>	<u>25° 00' 00" N</u>	<u>070° 03' 05" W</u>
<u>RODRK</u>	<u>24° 10' 36" N</u>	<u>070° 00' 49" W</u>
<u>CERDA</u>	<u>22° 44' 43" N</u>	<u>069° 54' 08" W</u>
<u>FARMN</u>	<u>22° 01' 33" N</u>	<u>069° 50' 51" W</u>
<u>ANTOX</u>	<u>20° 56' 31" N</u>	<u>069° 45' 56" W</u>
<u>KARRN</u>	<u>20° 35' 16" N</u>	<u>069° 44' 20" W</u>
<u>MACKI</u>	<u>20° 26' 37" N</u>	<u>069° 43' 42" W</u>
ASIVO	19° 57' 36" N	069° 41' 33" W
<u>BOSAK</u>	<u>18° 33' 45" N</u>	<u>069° 29' 08" W</u>
<u>VODEL</u>	<u>18° 06' 57" N</u>	<u>069° 25' 13" W</u>
<u>MISAT</u>	<u>17° 11' 28" N</u>	<u>069° 17' 10" W</u>
TEKOL	16° 00' 00" N	069° 06' 54" W

<u>L454</u>	Lat	Long
JFK	40° 37' 58" N	073° 46' 17" W
OWENZ	39° 49' 24" N	072° 49' 50" W
BERGH	39° 07' 57" N	072° 03' 06" W
<u>WEBBB</u>	<u>37° 40' 18" N</u>	<u>071° 58' 55" W</u>
<u>OKONU</u>	<u>37° 18' 21" N</u>	<u>071° 57' 54" W</u>
<u>ATUGI</u>	<u>35° 38' 18" N</u>	<u>071° 31' 36" W</u>
<u>IKUTA</u>	<u>34° 40' 11" N</u>	<u>071° 16' 50" W</u>
<u>PERDO</u>	<u>33° 41' 14" N</u>	<u>071° 02' 13" W</u>
<u>SAVON</u>	<u>31° 26' 37" N</u>	<u>070° 30' 04" W</u>
GRAMN	30° 22' 09" N	070° 15' 14" W
<u>SEBIS</u>	<u>27° 45' 30" N</u>	<u>069° 40' 31" W</u>
<u>RABAL</u>	<u>26° 43' 28" N</u>	<u>069° 27' 14" W</u>
<u>LUCTI</u>	<u>25° 00' 00" N</u>	<u>069° 05' 37" W</u>
<u>SINGL</u>	<u>24° 23' 48" N</u>	<u>068° 56' 47" W</u>
<u>MNDEZ</u>	<u>23° 34' 52" N</u>	<u>068° 44' 47" W</u>
<u>ALERI</u>	<u>23° 00' 35" N</u>	<u>068° 36' 31" W</u>
<u>WOODZ</u>	<u>22° 06' 46" N</u>	<u>068° 23' 44" W</u>
<u>KNDLL</u>	<u>21° 32' 38" N</u>	<u>068° 15' 38" W</u>
ELMUC	20° 47' 02" N	068° 05' 00" W
<u>PANMO</u>	<u>19° 10' 10" N</u>	<u>066° 17' 01" W</u>
<u>LEEEO</u>	<u>17° 34' 39" N</u>	<u>064° 26' 26" W</u>
ILURI	16° 18' 04" N	063° 00' 00" W

<u>L455</u>	Lat	Long
JFK	40° 37' 58" N	073° 46' 17" W
OWENZ	39° 49' 24" N	072° 49' 50" W
BERGH	39° 07' 57" N	072° 03' 06" W
<u>SAVIK</u>	<u>37° 42' 42" N</u>	<u>070° 59' 02" W</u>
<u>UMEDA</u>	<u>35° 45' 33" N</u>	<u>070° 26' 56" W</u>
<u>BEXUM</u>	<u>33° 18' 08" N</u>	<u>069° 48' 45" W</u>
<u>TASNI</u>	<u>30° 54' 01" N</u>	<u>069° 13' 30" W</u>
<u>DUNIG</u>	<u>28° 49' 24" N</u>	<u>068° 44' 27" W</u>
<u>DUPOX</u>	<u>27° 56' 27" N</u>	<u>068° 32' 28" W</u>
<u>VESRA</u>	<u>25° 28' 29" N</u>	<u>068° 00' 00" W</u>
<u>ULEMO</u>	<u>24° 16' 15" N</u>	<u>067° 44' 39" W</u>
<u>AVODA</u>	<u>23° 17' 36" N</u>	<u>067° 32' 24" W</u>
<u>MACOR</u>	<u>22° 13' 48" N</u>	<u>067° 19' 17" W</u>
LENNT	21° 15' 56" N	067° 07' 34" W
<u>JANMA</u>	<u>20° 32' 22" N</u>	<u>067° 10' 39" W</u>
<u>VACHI</u>	<u>18° 35' 29" N</u>	<u>067° 18' 46" W</u>
SCAPA	15° 50' 03" N	067° 29' 58" W

<u>L456</u>	Lat	Long
JFK	40° 37' 58" N	073° 46' 17" W
LEOES	39° 58' 30" N	072° 38' 45" W
LINND	39° 24' 35" N	071° 42' 38" W
<u>MARIG</u>	<u>38° 19' 42" N</u>	<u>070° 03' 34" W</u>
<u>DARUX</u>	<u>36° 09' 36" N</u>	<u>069° 27' 18" W</u>
<u>NOSID</u>	<u>34° 06' 36" N</u>	<u>068° 54' 52" W</u>
<u>EMAKO</u>	<u>31° 23' 47" N</u>	<u>068° 14' 19" W</u>
<u>MEGGG</u>	<u>28° 21' 40" N</u>	<u>067° 31' 43" W</u>
<u>VINSO</u>	<u>27° 04' 59" N</u>	<u>067° 14' 31" W</u>
<u>BOXAR</u>	<u>23° 30' 00" N</u>	<u>066° 28' 21" W</u>
<u>PRCHA</u>	<u>22° 55' 28" N</u>	<u>066° 21' 10" W</u>
THANK	21° 27' 37" N	066° 03' 13" W
<u>FRATT</u>	<u>19° 26' 04" N</u>	<u>065° 48' 20" W</u>
<u>ETEEE</u>	<u>16° 34' 50" N</u>	<u>065° 28' 00" W</u>
KIKER	15° 05' 54" N	065° 17' 41" W

<u>L457</u>	Lat	Long
JFK	40° 37' 58" N	073° 46' 17" W
BERGH	39° 07' 57" N	072° 03' 06" W
<u>WEBBB</u>	<u>37° 40' 18" N</u>	<u>071° 58' 55" W</u>
<u>OKONU</u>	<u>37° 18' 21" N</u>	<u>071° 57' 54" W</u>
<u>UMEDA</u>	<u>35° 45' 33" N</u>	<u>070° 26' 56" W</u>
<u>NOSID</u>	<u>34° 06' 36" N</u>	<u>068° 54' 52" W</u>
<u>ENAPI</u>	<u>33° 12' 22" N</u>	<u>068° 06' 22" W</u>

<u>L458</u>	Lat	Long
<u>GEAL</u>	<u>29° 25' 28" N</u>	<u>065° 25' 17" N</u>
<u>TALSU</u>	<u>24° 56' 08" N</u>	<u>065° 47' 16" N</u>
<u>MAXAS</u>	<u>23° 30' 00" N</u>	<u>065° 53' 57" N</u>
THANK	21° 27' 37" N	066° 03' 13" N
<u>PANMO</u>	<u>19° 10' 10" N</u>	<u>066° 17' 01" N</u>
ARMUR	15° 32' 36" N	066° 38' 06" N

<u>L459</u>	Lat	Long
JFK	40° 37' 58" N	073° 46' 17" W
OWENZ	39° 49' 24" N	072° 49' 50" W
BERGH	39° 07' 57" N	072° 03' 06" W
<u>SAVIK</u>	<u>37° 42' 42" N</u>	<u>070° 59' 02" W</u>
<u>DARUX</u>	<u>36° 09' 36" N</u>	<u>069° 27' 18" W</u>
<u>DASER</u>	<u>34° 08' 19" N</u>	<u>067° 34' 39" W</u>
<u>SHEIL</u>	<u>29° 54' 35" N</u>	<u>066° 42' 32" W</u>
<u>TALSU</u>	<u>24° 56' 08" N</u>	<u>065° 47' 16" W</u>
<u>NUBUS</u>	<u>23° 30' 00" N</u>	<u>065° 32' 12" W</u>
<u>NECKS</u>	<u>22° 05' 49" N</u>	<u>065° 08' 05" W</u>
<u>ODUCA</u>	<u>21° 07' 01" N</u>	<u>064° 51' 32" W</u>
<u>CAFFE</u>	<u>20° 05' 24" N</u>	<u>064° 44' 08" W</u>
<u>LEEEO</u>	<u>17° 34' 39" N</u>	<u>064° 26' 26" W</u>
ANADA	15° 00' 00" N	064° 08' 46" W

<u>L460</u>	Lat	Long
<u>ODUCA</u>	<u>21° 07' 01" N</u>	<u>064° 51' 32" W</u>
STT	18° 21' 21" N	065° 01' 28" W

<u>L461</u>	Lat	Long
JFK	40° 37' 58" N	073° 46' 17" W
LEOES	39° 58' 30" N	072° 38' 45" W
LINND	39° 24' 35" N	071° 42' 38" W
<u>MARIG</u>	<u>38° 19' 42" N</u>	<u>070° 03' 34" W</u>
<u>TILED</u>	<u>37° 15' 58" N</u>	<u>068° 58' 24" W</u>
<u>KINER</u>	<u>36° 34' 27" N</u>	<u>068° 17' 15" W</u>
<u>BOVIC</u>	<u>34° 52' 25" N</u>	<u>066° 40' 03" W</u>
<u>GECAL</u>	<u>29° 25' 28" N</u>	<u>065° 25' 17" W</u>
ARUVO	27° 19' 14" N	064° 57' 44" W
<u>DUPAN</u>	<u>25° 30' 45" N</u>	<u>064° 34' 55" W</u>
<u>RODNU</u>	<u>23° 30' 00" N</u>	<u>064° 10' 19" W</u>
<u>QNEPA</u>	<u>22° 50' 29" N</u>	<u>064° 02' 26" W</u>
<u>YIYYO</u>	<u>20° 45' 13" N</u>	<u>063° 37' 57" W</u>
<u>TRNKY</u>	<u>18° 25' 13" N</u>	<u>063° 11' 23" W</u>
PJM	18° 02' 16" N	063° 07' 06" W

<u>L462</u>	Lat	Long
<u>KAYYT</u>	<u>38° 52' 38" N</u>	<u>067° 34' 22" W</u>
<u>OVAPI</u>	<u>37° 27' 17" N</u>	<u>066° 48' 34" W</u>
<u>ANVER</u>	<u>35° 15' 07" N</u>	<u>065° 41' 16" W</u>
<u>PIREX</u>	<u>29° 22' 28" N</u>	<u>064° 19' 16" W</u>
<u>ILOGA</u>	<u>26° 48' 27" N</u>	<u>063° 45' 02" W</u>
<u>TARMO</u>	<u>23° 30' 00" N</u>	<u>063° 03' 09" W</u>
<u>ZABOR</u>	<u>21° 23' 27" N</u>	<u>062° 37' 34" W</u>
<u>NEYDU</u>	<u>18° 58' 21" N</u>	<u>062° 09' 09" W</u>
<u>LAMKN</u>	<u>18° 00' 00" N</u>	<u>061° 57' 58" W</u>
ANU	17° 07' 33" N	061° 48' 01" W

<u>L463</u>	Lat	Long
NUCAR	28° 07' 34" N	077° 37' 59" W
<u>BAAGR</u>	<u>26° 49' 03" N</u>	<u>076° 31' 19" W</u>
<u>DAAST</u>	<u>26° 00' 31" N</u>	<u>075° 51' 06" W</u>
<u>KRTIS</u>	<u>25° 03' 03" N</u>	<u>075° 04' 22" W</u>
<u>STAAL</u>	<u>24° 36' 50" N</u>	<u>074° 43' 06" W</u>
<u>BRRGO</u>	<u>24° 25' 00" N</u>	<u>074° 33' 56" W</u>
<u>SMTTY</u>	<u>23° 47' 21" N</u>	<u>074° 00' 31" W</u>
<u>RNDLY</u>	<u>22° 30' 54" N</u>	<u>072° 54' 00" W</u>
BTLER	22° 14' 21" N	072° 40' 07" W
PVN	21° 46' 20" N	072° 15' 58" W
<u>TOMAZ</u>	<u>21° 18' 32" N</u>	<u>071° 50' 50" W</u>
<u>GOVET</u>	<u>21° 00' 15" N</u>	<u>071° 36' 44" W</u>
<u>JUELE</u>	<u>20° 25' 04" N</u>	<u>071° 07' 07" W</u>
PTA	19° 45' 33" N	070° 34' 14" W

<u>L464</u>	Lat	Long
LAMER	25° 00' 00" N	070° 03' 06" W
<u>RODRK</u>	<u>24° 10' 36" N</u>	<u>070° 00' 49" W</u>
<u>CERDA</u>	<u>22° 44' 43" N</u>	<u>069° 54' 09" W</u>
<u>MANII</u>	<u>22° 09' 43" N</u>	<u>070° 00' 38" W</u>
<u>LENUS</u>	<u>21° 06' 04" N</u>	<u>070° 12' 18" W</u>
<u>SEBUG</u>	<u>20° 53' 52" N</u>	<u>070° 14' 32" W</u>
<u>RNTRY</u>	<u>20° 49' 14" N</u>	<u>070° 15' 22" W</u>
BESAS	20° 20' 13" N	070° 20' 36" W
PTA	19° 45' 33" N	070° 34' 14" W

<u>M201</u>	Lat	Long
BAHAA	30° 25' 23" N	078° 59' 41" W
JENKS	30° 38' 07" N	078° 41' 44" W
EMCEE	30° 47' 34" N	078° 27' 33" W
LANIE	30° 56' 30" N	078° 14' 08" W
PERIE	31° 13' 43" N	077° 47' 49" W
HANRI	31° 45' 53" N	077° 00' 00" W
EMQUE	31° 59' 57" N	076° 41' 12" W
GALWY	33° 35' 00" N	074° 29' 12" W
PAEPR	35° 02' 31" N	072° 25' 00" W
<u>ATUGI</u>	<u>35° 38' 18" N</u>	<u>071° 31' 36" W</u>
<u>TILED</u>	<u>37° 15' 58" N</u>	<u>068° 58' 24" W</u>
<u>DRYED</u>	<u>39° 37' 56" N</u>	<u>066° 40' 03" W</u>
<u>NOVOK</u>	<u>42° 22' 54" N</u>	<u>061° 12' 06" W</u>
CARAC	43° 00' 00" N	060° 00' 00" W

<u>M202</u>	Lat	Long
ADOOR	29° 24' 00" N	078° 33' 21" W
<u>CARPX</u>	<u>30° 24' 29" N</u>	<u>077° 45' 00" W</u>
<u>UKOKA</u>	<u>30° 38' 54" N</u>	<u>077° 00' 00" W</u>
<u>OMALA</u>	<u>33° 14' 32" N</u>	<u>073° 23' 49" W</u>
<u>ONGOT</u>	<u>33° 58' 55" N</u>	<u>072° 18' 06" W</u>
<u>IKUTA</u>	<u>34° 40' 11" N</u>	<u>071° 16' 50" W</u>
<u>KINER</u>	<u>36° 34' 27" N</u>	<u>068° 17' 15" W</u>
<u>OVAPI</u>	<u>37° 27' 17" N</u>	<u>066° 48' 34" W</u>
<u>MUNEY</u>	<u>38° 30' 00" N</u>	<u>064° 57' 52" W</u>
JEBBY	43° 04' 20" N	057° 52' 05" W
LOMPI	44° 00' 00" N	057° 00' 00" W

<u>M203</u>	Lat	Long
ADOOR	29° 24' 00" N	078° 33' 21" W
<u>CASPR</u>	<u>29° 30' 26" N</u>	<u>077° 42' 11" W</u>
<u>SNAGY</u>	<u>29° 36' 26" N</u>	<u>076° 51' 51" W</u>
<u>LEXIM</u>	<u>31° 47' 57" N</u>	<u>073° 50' 42" W</u>
<u>WILYY</u>	<u>32° 18' 42" N</u>	<u>073° 06' 13" W</u>
<u>OVEBA</u>	<u>33° 01' 41" N</u>	<u>072° 02' 30" W</u>
<u>PERDO</u>	<u>33° 41' 14" N</u>	<u>071° 02' 13" W</u>
<u>SELIM</u>	<u>38° 30' 00" N</u>	<u>062° 40' 08" W</u>
BOBTU	44° 07' 02" N	052° 49' 20" W

<u>M204</u>	Lat	Long
SUMRS	28° 42' 42" N	076° 33' 31" W
<u>ELEBA</u>	<u>30° 34' 36" N</u>	<u>073° 57' 24" W</u>
<u>ALOB</u>	<u>32° 02' 44" N</u>	<u>071° 46' 48" W</u>
<u>BEXUM</u>	<u>33° 18' 08" N</u>	<u>069° 48' 45" W</u>
<u>SOORY</u>	<u>38° 30' 00" N</u>	<u>060° 16' 03" W</u>

<u>M325</u>	Lat	Long
<u>OXANA</u>	<u>34° 21' 45" N</u>	<u>073° 45' 33" W</u>
<u>ONGOT</u>	<u>33° 58' 55" N</u>	<u>072° 18' 06" W</u>
<u>PERDO</u>	<u>33° 41' 14" N</u>	<u>071° 02' 13" W</u>
<u>ENAPI</u>	<u>33° 12' 22" N</u>	<u>068° 06' 22" W</u>

<u>M326</u>	Lat	Long
JAINS	31° 21' 20" N	077° 00' 00" W
<u>LEXIM</u>	<u>31° 47' 57" N</u>	<u>073° 50' 42" W</u>
<u>ALOB</u>	<u>32° 02' 44" N</u>	<u>071° 46' 48" W</u>
<u>JIMAC</u>	<u>32° 21' 27" N</u>	<u>068° 13' 54" W</u>

<u>M327</u>	Lat	Long
SUMRS	28° 42' 42" N	076° 33' 31" W
<u>KANUX</u>	<u>30° 33' 36" N</u>	<u>072° 34' 03" W</u>
<u>SAVON</u>	<u>31° 26' 37" N</u>	<u>070° 30' 04" W</u>
<u>JIMAC</u>	<u>32° 21' 27" N</u>	<u>068° 13' 54" W</u>

<u>M328</u>	Lat	Long
TANIA	24° 01' 48" N	079° 31' 39" W
JERRE	24° 58' 45" N	078° 31' 45" W
RAJAY	25° 18' 03" N	078° 11' 10" W
BARTS	25° 59' 01" N	077° 30' 20" W
<u>NATHY</u>	<u>26° 35' 04" N</u>	<u>076° 48' 43" W</u>
<u>BAAGR</u>	<u>26° 49' 03" N</u>	<u>076° 31' 19" W</u>
<u>SLEMA</u>	<u>26° 57' 53" N</u>	<u>076° 16' 52" W</u>
<u>DURAN</u>	<u>27° 33' 30" N</u>	<u>075° 18' 16" W</u>
<u>CNNOR</u>	<u>27° 50' 00" N</u>	<u>074° 50' 00" W</u>
<u>ILIDO</u>	<u>28° 14' 41" N</u>	<u>074° 07' 26" W</u>
GRAMN	30° 22' 09" N	070° 15' 14" W
<u>TASNI</u>	<u>30° 54' 01" N</u>	<u>069° 13' 30" W</u>
<u>EMAKO</u>	<u>31° 23' 47" N</u>	<u>068° 14' 19" W</u>
<u>ANTIG</u>	<u>31° 29' 05" N</u>	<u>068° 03' 38" W</u>

<u>M329</u>	Lat	Long
<u>DYNAH</u>	<u>23° 56' 58" N</u>	<u>077° 58' 49" W</u>
ZQA	25° 01' 32" N	077° 26' 47" W
OHBE	25° 26' 10" N	076° 47' 46" W
<u>MAMML</u>	<u>25° 32' 12" N</u>	<u>076° 38' 52" W</u>
EXTER	25° 46' 07" N	076° 15' 30" W
<u>DAAST</u>	<u>26° 00' 31" N</u>	<u>075° 51' 06" W</u>
LASEE	26° 14' 21" N	075° 27' 28" W
<u>CLETT</u>	<u>26° 38' 22" N</u>	<u>074° 45' 58" W</u>
GRATX	26° 54' 41" N	074° 17' 31" W
<u>KASAR</u>	<u>28° 19' 18" N</u>	<u>071° 55' 10" W</u>
<u>BOREX</u>	<u>28° 51' 05" N</u>	<u>070° 58' 4400" W</u>
<u>ALUDA</u>	<u>30° 41' 25" N</u>	<u>067° 36' 20" W</u>

<u>M330</u>	Lat	Long
ENAMO	23° 33' 44" N	077° 21' 35" W
<u>ZWICK</u>	<u>23° 39' 39" N</u>	<u>077° 12' 34" W</u>
<u>KFFER</u>	<u>23° 46' 11" N</u>	<u>077° 02' 35" W</u>
<u>DONEZ</u>	<u>24° 15' 47" N</u>	<u>076° 16' 57" W</u>
MUVOD	24° 39' 24" N	075° 40' 01" W
<u>DIAZZ</u>	<u>24° 51' 18" N</u>	<u>075° 22' 08" W</u>
<u>KRTIS</u>	<u>25° 03' 03" N</u>	<u>075° 04' 22" W</u>
<u>WITOB</u>	<u>25° 17' 32" N</u>	<u>074° 42' 20" W</u>
ALUTE	25° 24' 21" N	074° 31' 53" W
MLSAP	25° 38' 12" N	074° 10' 33" W
MILLE	25° 55' 38" N	073° 43' 28" W
<u>RUDLI</u>	<u>27° 31' 25" N</u>	<u>071° 02' 53" W</u>
<u>DUNIG</u>	<u>28° 49' 24" N</u>	<u>068° 44' 27" W</u>
<u>SHEIL</u>	<u>29° 54' 35" N</u>	<u>066° 42' 32" W</u>

<u>M331</u>	Lat	Long
<u>GHANN</u>	<u>22° 00' 00" N</u>	<u>075° 10' 00" W</u>
<u>FORST</u>	<u>22° 06' 35" N</u>	<u>075° 03' 19" W</u>
ROSEA	22° 39' 24" N	074° 41' 48" W
<u>PAARR</u>	<u>23° 14' 42" N</u>	<u>074° 18' 25" W</u>
<u>SMTTY</u>	<u>23° 47' 21" N</u>	<u>074° 00' 31" W</u>
AVNEY	23° 53' 43" N	073° 57' 00" W
<u>RENAH</u>	<u>24° 34' 00" N</u>	<u>073° 33' 08" W</u>
<u>CANEE</u>	<u>25° 04' 47" N</u>	<u>073° 14' 41" W</u>
<u>OLEDU</u>	<u>26° 26' 02" N</u>	<u>071° 05' 54" W</u>
<u>MEGGG</u>	<u>28° 21' 40" N</u>	<u>067° 31' 43" W</u>
<u>GECAL</u>	<u>29° 25' 28" N</u>	<u>065° 25' 17" W</u>

<u>M525</u>	Lat	Long
MELLA	18° 12' 00" N	068° 00' 00" W
<u>LEILA</u>	<u>18° 29' 26" N</u>	<u>067° 29' 26" W</u>
<u>VACHI</u>	<u>18° 35' 29" N</u>	<u>067° 18' 46" W</u>
<u>PANMO</u>	<u>19° 10' 10" N</u>	<u>066° 17' 01" W</u>
<u>FRATT</u>	<u>19° 26' 04" N</u>	<u>065° 48' 20" W</u>
<u>CAFFE</u>	<u>20° 05' 24" N</u>	<u>064° 44' 08" W</u>
<u>YIYYO</u>	<u>20° 45' 13" N</u>	<u>063° 37' 57" W</u>
<u>ZABOR</u>	<u>21° 23' 27" N</u>	<u>062° 37' 34" W</u>
<u>KAVAX</u>	<u>23° 00' 00" N</u>	<u>060° 00' 00" W</u>

<u>M593</u>	Lat	Long
GRATX	26° 54' 41" N	074° 17' 30" W
<u>RUDLI</u>	<u>27° 31' 25" N</u>	<u>071° 02' 53" W</u>
<u>SEBIS</u>	<u>27° 45' 30" N</u>	<u>069° 40' 31" W</u>
<u>DUPOX</u>	<u>27° 56' 28" N</u>	<u>068° 32' 28" W</u>
<u>AMENO</u>	<u>29° 00' 00" N</u>	<u>060° 00' 00" W</u>

<u>M594</u>	Lat	Long
BENET	18° 15' 00" N	074° 40' 00" W
MEDON	19° 46' 18" N	073° 00' 36" W
<u>ALBBE</u>	<u>20° 25' 00" N</u>	<u>072° 14' 56" W</u>
<u>GOVET</u>	<u>21° 00' 15" N</u>	<u>071° 36' 44" W</u>
GTK	21° 26' 26" N	071° 08' 04" W
<u>NETTA</u>	<u>21° 49' 23" N</u>	<u>070° 48' 11" W</u>
<u>EYSEL</u>	<u>22° 20' 21" N</u>	<u>070° 17' 22" W</u>
<u>CERDA</u>	<u>22° 44' 43" N</u>	<u>069° 54' 09" W</u>
<u>MNDEZ</u>	<u>23° 34' 52" N</u>	<u>068° 44' 47" W</u>
<u>MLLER</u>	<u>23° 56' 05" N</u>	<u>068° 14' 56" W</u>
<u>ULEMO</u>	<u>24° 16' 15" N</u>	<u>067° 44' 39" W</u>
<u>ILOGA</u>	<u>26° 48' 27" N</u>	<u>063° 45' 02" W</u>
<u>AMENO</u>	<u>29° 00' 00" N</u>	<u>060° 00' 00" W</u>

<u>M595</u>	Lat	Long
<u>ERRCA</u>	<u>22° 42' 17" N</u>	<u>076° 08' 14" W</u>
<u>WSSKY</u>	<u>22° 53' 26" N</u>	<u>075° 58' 48" W</u>
<u>EVETS</u>	<u>23° 40' 42" N</u>	<u>075° 24' 30" W</u>
<u>CHHAZ</u>	<u>24° 32' 00" N</u>	<u>074° 46' 41" W</u>
<u>STAAL</u>	<u>24° 36' 50" N</u>	<u>074° 43' 06" W</u>
<u>ISOLE</u>	<u>25° 05' 31" N</u>	<u>074° 21' 39" W</u>
<u>MUSSH</u>	<u>25° 12' 29" N</u>	<u>074° 16' 24" W</u>
MILLE	25° 55' 38" N	073° 43' 28" W
<u>OLEDU</u>	<u>26° 26' 02" N</u>	<u>071° 05' 54" W</u>
<u>RABAL</u>	<u>26° 43' 28" N</u>	<u>069° 27' 14" W</u>
<u>VINSO</u>	<u>27° 04' 59" N</u>	<u>067° 14' 31" W</u>
AYTTE	28° 00' 00" N	060° 00' 00" W

<u>M596</u>	Lat	Long
OBN	18° 26' 18" N	072° 16' 30" W
NABEN	18° 51' 48" N	071° 43' 49" W
ROLSU	19° 40' 55" N	070° 40' 17" W
PTA	19° 45' 33" N	070° 34' 14" W
POKEG	20° 10' 31" N	070° 03' 36" W
<u>MACKI</u>	<u>20° 26' 37" N</u>	<u>069° 43' 42" W</u>
GRADI	20° 31' 16" N	069° 37' 55" W
<u>NOPIT</u>	<u>20° 46' 15" N</u>	<u>069° 17' 51" W</u>
<u>FDLEE</u>	<u>21° 13' 04" N</u>	<u>068° 41' 36" W</u>
<u>MYSTR</u>	<u>21° 18' 42" N</u>	<u>068° 33' 57" W</u>
<u>KNDLL</u>	<u>21° 32' 38" N</u>	<u>068° 15' 38" W</u>
WATRS	21° 53' 15" N	067° 47' 32" W
<u>MACOR</u>	<u>22° 13' 48" N</u>	<u>067° 19' 17" W</u>
<u>PRCHA</u>	<u>22° 55' 28" N</u>	<u>066° 21' 10" W</u>
<u>NUBUS</u>	<u>23° 30' 00" N</u>	<u>065° 32' 12" W</u>
SIFEN	27° 00' 00" N	060° 00' 00" W

<u>M597</u>	Lat	Long
PALAS	16° 34' 00" N	071° 41' 00" W
SUTEM	17° 46' 49" N	070° 21' 21" W
CDO	18° 25' 59" N	069° 40' 02" W
BOSAK	18° 33' 45" N	069° 29' 08" W
BETIR	19° 20' 35" N	068° 36' 16" W
<u>JANMA</u>	<u>20° 32' 22" N</u>	<u>067° 10' 39" W</u>
THANK	21° 27' 37" N	066° 03' 13" W
<u>NECKS</u>	<u>22° 05' 49" N</u>	<u>065° 08' 05" W</u>
<u>QNEPA</u>	<u>22° 50' 29" N</u>	<u>064° 02' 26" W</u>
<u>TARMO</u>	<u>23° 30' 00" N</u>	<u>063° 03' 09" W</u>
FIVZE	25° 00' 00" N	060° 00' 00" W

PROPOSAL FOR AMENDMENT OF THE ICAO CAR/SAM ANP – DOC 8733

(Serial No. NACC 08/03 - ATM)

Appendix B - Amend ATS Routes

ESPACIO AÉREO INFERIOR / LOWER AIRSPACE
ESPACIO AÉREO SUPERIOR / UPPER AIRSPACE

A300	UA300	Lat	Long
DORADO	DORADO	18° 28' 06" N	066° 24' 42" W
LENNT	LENNT	21° 15' 54" N	067° 07' 36" W
KRAFT	KRAFT		
(KENNEDY)	(KENNEDY)		

A312	UA312	Lat	Long
POINTE-A-PITRE	POINTE-A-PITRE	16° 15' 54" N	061° 32' 24" W
V.C.BIRD	V.C.BIRD	17° 07' 36" N	061° 48' 00" W
ODKAM	ODKAM		
GRANN	GRANN		

A319	UA319	Lat	Long
THANK	THANK		
BETIR	BETIR	19° 20' 36" N	068° 05' 06" W
APGET	APGET	19° 05' 06" N	068° 42' 42" W

A516	UA516	Lat	Long
RKDIA		<u>21° 00' 00" N</u>	<u>060° 00' 00" W</u>
NEYDU		<u>18° 58' 21" N</u>	<u>062° 09' 09" W</u>
MNOLO		<u>18° 20' 44" N</u>	<u>062° 48' 08" W</u>
ST. MAARTEN	ST. MAARTEN	18° 02' 12" N	063° 07' 06" W

A523		Lat	Long
GRANN			
THANK		21° 27' 36" N	066° 03' 12" W
VERMO		20° 07' 36" N	066° 12' 54" W

A554	UA554	Lat	Long
LAMER	LAMER	25° 00' 00" N	070° 03' 06" W
TOOMS	TOOMS		
CERDA	CERDA	<u>22° 44' 43" N</u>	<u>069° 54' 09" W</u>
GRAND TURK	GRAND TURK	21° 26' 24" N	071° 08' 06" W

A632	UA632	Lat	Long
(BERMUDA)	(BERMUDA)		
LOPPS			
PISAX			
TOTEM	TOTEM		
V.C. BIRD	V.C. BIRD	17° 07' 36" N	061° 48' 00" W
TASAR	TASAR	15° 40' 06" N	060° 57' 18" W

B-2

A699	UA699	Lat	Long
FT. LAUDERDALE	FT. LAUDERDALE	26° 04' 30''N	080° 09' 06''W
LOUIZ	LOUIZ	28° 28' 24''N	077° 00' 00''W
SUMRS	SUMRS	28° 42' 42''N	076° 33' 30''W
JESEE	JESEE		
(SABLE IS.)	(SABLE IS.)		

B646	UB646	Lat	Long
(BERMUDA)	(BERMUDA)		
GRATX	GRATX	26° 54' 42''N	074° 17' 30''W
NASSAU	NASSAU	25° 01' 30''N	077° 26' 48''W

B891	UB891	Lat	Long
PUERTO PLATA	PUERTO PLATA	19° 45' 36''N	070° 34' 12''W
POKEG	POKEG	20° 10' 30''N	070° 03' 18''W
WATRS	WATRS	21° 47' 12''N	068° 02' 18''W
GRANN	GRANN		

G432	UBG432	Lat	Long
VERMO	VERMO	20° 07' 36'' N	066° 12' 54'' W
DORADO	DORADO	18° 28' 06'' N	066° 24' 42'' W
THANK	THANK	21° 27' 36'' N	066° 03' 12'' W
GRANN	GRANN		
(BERMUDA)	(BERMUDA)		

R763	UR763	Lat	Long
(BACUS)	(BACUS)		
LETON	LETON	25° 00' 00'' N	071° 49' 12'' W
GRAND TURK	GRAND TURK	21° 26' 24'' N	071° 08' 06'' W

UL375		
FIVZE	25° 00' 00'' N	060° 00' 00'' W
(BIKOK)	20° 40' 00'' N	055° 00' 00'' W
DABAK	18° 00' 00'' N	051° 19' 30'' W

L375/435UL435		
OLDEY	32° 15' 44'' N	077° 51' 14'' W
JAINS	31° 21' 20'' N	077° 00' 00'' W
ELEBA	30° 34' 36'' N	073° 57' 24'' W
ELURO	30° 09' 32'' N	072° 26' 51'' W
DUNIG	28° 49' 24'' N	068° 44' 26'' W
MEGGG	28° 21' 40'' N	067° 31' 42'' W
ARUVO	27° 19' 14'' N	064° 57' 44'' W
ILOGA	26° 48' 27'' N	063° 45' 02'' W
FIVZE	25° 00' 00'' N	060° 00' 00'' W
DIBOUX	20° 27' 00'' N	050° 08' 00'' W
BUTUX	18° 00' 00'' N	045° 22' 48'' W

PROPOSAL FOR AMENDMENT OF THE ICAO CAR/SAM ANP – DOC 8733

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Appendix C - Delete ATS Routes

B24
ZIN
BDA
GABES

A637	UA637
(BERMUDA)	(BERMUDA)
PRUIT	PRUIT
MILLE	MILLE
COBBL	COBBL

A700	UA700
HOBEE	HOBEE
JAINS	JAINS
(DOWNT)	(DOWNT)
(HALIFAX)	(HALIFAX)

R512	UR512
BACUS	BACUS
PRISS	PRISS
BERMUDA	BERMUDA

R513	UR513
JAINS	JAINS
PRISS	PRISS
BERMUDA	BERMUDA

R514	UR514
LOUIZ	LOUIZ
PRISS	PRISS
BERMUDA	BERMUDA

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