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International Civil Aviation Organization
South American Regional Office
Third Meeting on GREPECAS MET Programme Projects for the SAM Region (SAM/MP/3)
(Lima, Peru, 17 to 20 June 2019)

Agenda Item 7: Review of MET national plans and the MET part of the CAR/SAM e-ANP

Review of the CAR/SAM e-ANP, Part V-MET of Vol. I, Vol. II

(Presented by the Secretariat)

SUMMARY

This working paper presents the OPMET data requirements included in the e-ANP.

References:

- Doc 8733, CAR/SAM e-ANP

ICAO strategic objectives:	*A - Safety* *B – Air navigation capacity and efficiency* *E – Environmental protection*

1. Introduction

1.1 Vol. I of the CAR/SAM e-ANP contains the agreed regional requirements considered as the minimum necessary for effective planning and implementation of aeronautical meteorology (MET) facilities in the Caribbean and South American Regions, and supplements the provisions contained in the ICAO SARPs and PANS related to MET.

1.2 The CAR/SAM e-ANP, in Vol. II, Part VI, through Tables MET II-1 and MET II-2, established the meteorological watch offices and the aeronautical meteorology offices. Likewise, Table AOP I-1 contains the list of international airports of the CAR/SAM Regions.

1.3 The main objective of the CAR/SAM OPMET Guide is to provide guidelines for the standardisation and harmonisation of procedures related to the production and transmission of meteorological information for aircraft operations (OPMET) in CAR/SAM States.

2. Discussion

2.1 The Meeting will recall that the Twelfth Air Navigation Conference (AN-Conf/12) formulated Recommendation 6/1 – *Regional performance framework – Planning methodologies and tools related to the alignment of regional ANPs with the fourth edition of the Global Air Navigation Plan (GANP) (Doc 9750)*. Pursuant to this recommendation, ICAO established a working group (e-ANP WG), made up by representatives of the Regional Offices and ICAO Headquarters, to propose changes to regional ANPs, including the development of a new structure, format and content for the ANP.

2.2 On 18 June 2014, the ICAO Council decided that the regional air navigation plans (ANPs) should be published in three volumes.

2.3 According to the new structure approved by the ICAO Council, it should be available in electronic format and be presented in three volumes, as described below:

- Volume I, containing the stable elements of the plan, whose amendment requires the approval of the Council;

- Volume II, containing the dynamic elements of the plan, whose amendment does not require the approval of the Council (approval is by regional agreement of the relevant PIRGs);

- Volume III, containing the dynamic/flexible elements of the plan, providing guidance for the implementation and upgrading of air navigation systems, taking into account emerging programmes, such as ASBU, and the roadmap of the associated technologies described in the GANP.

2.4 The new e-ANP format was submitted to the consideration of the CAR/SAM Regions. The GREPECAS/17 meeting gave its general approval to the new formats. Vol. I was approved by the ICAO Council in April 2016, and Vol. II was approved that same year. The implementation of Vol. III was postponed through decision PPRC/4-3, awaiting approval of the sixth edition of the GANP. It is also important to highlight that, with the approval of e-ANP Volumes I and II, which replace Doc. 8733, the reference field of air navigation deficiencies must be revised and updated.

2.5 The Meeting could review Vol. I and II, Part MET, of the CAR/SAM e-ANP, shown in **Appendices A** and **B**, respectively, to this working paper, and update them as necessary.

3. Suggested action

3.1. The Meeting is invited to:

a) take note of the information provided in this working paper;

b) review and update, as needed, Appendices A and B; and

c) consider any other action it may deem appropriate.

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CAR/SAM AIR NAVIGATION PLAN

VOLUME I

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CAR/SAM ANP, VOLUME I

PART 0 – INTRODUCTION

1. GENERAL

1.1 On ***18 June 2014***, the ICAO Council decided that the regional air navigation plans (ANPs) should be published in three volumes.

1.2 ANP Volume I contains stable plan elements whose amendment necessitates approval by the Council such as the assignment of responsibilities to States for the provision of aerodrome and air navigation facilities and services in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and the current to medium term mandatory regional requirements related to aerodrome and air navigation facilities and services to be implemented by States in accordance with regional air navigation agreements and requirements specific to the region which are not covered in the ICAO Standards and Recommended Practices (SARPs) and Procedures for Air Navigation Services (PANS). The material to be included in Volume I should minimise the requirement for frequent amendment. The following is a non-exhaustive list of such elements:

- Flight Information Regions (FIR) boundaries (Table and Charts);
- Search and Rescue Regions (SRR) boundaries (Table and Charts);
- Volcanic Ash Advisory Centres (VAAC);
- Tropical Cyclone Advisory Centres (TCAC); and
- Volcano Observatories (VO).

1.3 ANP Volume II contains dynamic plan elements material related to the assignment of responsibilities to States for the provision of aerodrome and air navigation facilities and services and the current to medium term mandatory regional requirements related to aerodrome and air navigation facilities and services to be implemented by States in accordance with regional air navigation agreements involving the relevant PIRG. The amendment of these elements does not require approval by the Council. The following is a non-exhaustive list of such elements:

- Major traffic flows;
- ATS route network;
- Meteorological Watch Offices (MWO);
- Secondary Surveillance Radar (SSR) codes;
- Five-letter name-codes; and
- VOLMET Broadcasts.

1.4 ANP Volume III contains dynamic/flexible plan elements providing implementation planning guidance for air navigation systems and their modernization taking into consideration emerging programmes such as the ICAO Aviation System Block Upgrades (ASBUs) and associated technology roadmaps described in the *Global Air Navigation Plan* (GANP) (Doc 9750). The ANP Volume III would also include appropriate additional guidance, particularly with regard to implementation, to complement the material contained in the ANP Volumes I and II. The amendment of Volume III would not require approval by the Council (approval of Part II is under the responsibility of the relevant PIRG).

Note 1: The ANP does not list all facilities in the region(s) but only those required for international civil aviation operations. Documents from the Integrated Aeronautical Information Package and other States publications should be consulted for information on additional facilities and for operational information in general.

Note 2: The general structure of the regional plans for the parts which concern an air navigation field in Volumes I and II consists of an "Introduction", "General Regional Requirements" and "Specific Regional Requirements". Only Tables shown under "General Regional Requirements" are harmonized for all Regions. Should a Region require a Table for a specific field, this should be reflected under "Specific Regional Requirements" of the subject concerned. The naming convention for such tables consists

of the technical field concerned (AOP, CNS, ATM, MET, SAR and AIM), the ANP Volume number (I or II), the Region (APAC, AFI, CAR/SAM, EUR, MID, NAM and NAT) and the consecutive number of the table. Examples are as follows: Table ATM I-EUR-1, Table CNS II-MID-1 or Table MET I-AFI-2.

1.5 Guidance material on the detail of programmes or concepts should be contained in supplementary material referenced appropriately or adopted as CAR/SAM Documents.

2. RELATIONSHIP BETWEEN THE GLOBAL AND REGIONAL AIR NAVIGATION PLANS

2.1 The ANPs represent the bridge between, on one side, the global provisions in the ICAO SARPs and the GANP, and on the other side, the States' air navigation plans and implementation status.

2.2 The GANP represents a rolling, 15-year strategic methodology which leverages existing technologies and anticipates future developments based on State/industry-agreed operational objectives. The GANP is an overarching framework that includes key aviation policy principles to assist ICAO Regions, sub-regions and States with the preparation of their regional and State air navigation plans and to support the establishment of air navigation priorities.

3. OBJECTIVE AND PURPOSE OF REGIONAL AIR NAVIGATION PLANS

3.1 The ANPs provide for the planning and implementation of air navigation systems within a specified area, in accordance with the agreed global and regional planning framework. They are developed to meet those needs of specific areas not covered in the worldwide provisions. The development and maintenance of the ANPs is undertaken by ICAO PIRGs with the assistance of the ICAO Secretariat.

3.2 The ANPs are used as a repository Document for the assignment of responsibilities to States for the provision of air navigation facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300).

3.3 The ANPs contain requirements related to the facilities and services to be implemented by States in accordance with regional air navigation agreements. The procedural parts of ANPs are published in the *ICAO Regional Supplementary Procedures* (SUPPs) (Doc 7030).

3.4 The ANPs contain provisions that States can follow in the planning of aerodrome and air navigation facilities and services activities, with the assurance that facilities and services furnished in accordance with the plan will form with those of other States an integrated system adequate for the foreseeable future.

3.5 The ANPs may serve as a legal basis for air navigation services charges which are levied for services provided or made available to users, in accordance with ICAO's *Policies on Charges for Airports and Air Navigation Services* (Doc 9082) and *ICAO Manual on Air Navigation Services Economics* (Doc 9161).

3.6 The ANPs support the performance-based approach to planning adopted by ICAO to measure the efforts made by States in implementing the agreed requirements.

4. MANAGEMENT AND AMENDMENT OF REGIONAL AIR NAVIGATION PLANS

4.1 The elements of the existing planning system and the planning principles, operational requirements and planning criteria as developed for the Caribbean and South American Regions are kept under constant review by the GREPECAS in accordance with its schedule of meetings, in consultation with provider and user States and with the assistance of the ICAO Regional Offices concerned.

4.2 The detailed amendment procedure of the three ANP Volumes is described in paragraph 5 below.

5. PROCEDURE FOR THE AMENDMENT OF REGIONAL AIR NAVIGATION PLANS

5.1 The procedure for the amendment of regional air navigation plans in three Volumes as approved by the Council is shown in **Appendix A**.

6. ABBREVIATIONS

6.1 The abbreviations used in this document are contained in the *Procedures for Air Navigation Services — ICAO Abbreviations and Codes (PANS-ABC)* (Doc 8400), with the exception of those used in the explanations of any tables appearing herein, which also give their meaning.

7. ESTABLISHMENT AND PROVISION OF A MULTINATIONAL ICAO AIR NAVIGATION FACILITY/SERVICE

7.1 The operation of multinational air navigation services is well established within the Caribbean and South American Regions. The ICAO *Manual on Air Navigation Services Economics* (Doc 9161) details the ICAO policies on charges for air navigation services and provides additional information on the various models adopted globally. The introduction of multinational air navigation services does not dilute the principle that a State has the responsibility of overseeing the provision of air navigation services and that it shall maintain that responsibility within its sovereign airspace as well as within the airspace over the high seas for which it has accepted the responsibility for the provision of services. Where there is no intention to change or modify the FIR boundaries nor the facilities and services currently listed in the ANP there is not a requirement to amend the ANP. However, should changes to the FIR boundaries or to the facilities and services provided be required, such changes are likely to be subject to the ANP amendment procedure and should therefore be examined on a case-by-case basis. Advice on this issue can be obtained from the ICAO Regional Office(s). Any multinational arrangements for the provision of air navigation services should be registered with ICAO (Article 83 of the Convention (Doc 7300) and *Rules for Registration with ICAO of Aeronautical Agreements and Arrangements* (Doc 6685)).

APPENDIX A - PROCEDURE FOR THE AMENDMENT OF REGIONAL AIR NAVIGATION PLANS

*(Approved by Council on **18 June 2014**)*

1. Introduction

1.1. The procedure outlined below has been evolved to provide a means of maintaining the regional air navigation plans using an ANP web based platform.

2. General criteria

2.1. The Assembly has resolved that regional plans should be revised when it becomes apparent that they are no longer consistent with current and foreseen requirements of international civil aviation and that, when the nature of a required change permits, the associated amendment of the regional plan should be undertaken by correspondence between the Organization and the States and international organizations concerned.

2.2. When a State cannot immediately implement a particular part or a specific detail of a regional plan although it intends to do so, when practicable, this in itself should not lead to the State proposing an amendment to the plan.

2.3. The general structure of the regional plans for the parts which concern an air navigation field in Volumes I and II consists of an “Introduction”, “General Regional Requirements” and “Specific Regional Requirements”. As the section “General Regional Requirements” is harmonized for all regions, an amendment of the provisions (text) in “General Regional Requirements” will lead to amendment of Volumes I and II of the regional plans of all regions.

2.4. The amendment process of Volume III is under the responsibility of the relevant Planning and Implementation Regional Group (PIRG). The Parts 0 (Introduction) and I (General Planning Aspects) of Volume III are harmonized for all regions and the amendment of these parts should be made following inter-regional coordination.

3. User rights

3.1. Access to the ANP web based platform to develop and submit amendment proposals to the regional plan and to comment on an officially issued amendment proposal should be provided through controlled access by the State’s or international organization’s designated Focal Points. The State or international organization should officially inform their respective Regional Office of the registration of their designated Focal Points.

4. States and international organizations to be consulted

4.1. The Secretary General, through the relevant Regional Office, will determine the States and international organizations to be consulted on the amendment proposal. These will generally only include the provider and user States and international organizations that have a direct and obvious interest in the amendment in question.

PART A — AIR NAVIGATION PLANS, VOLUME I

5. Procedure for amendment of Volume I

5.1. If, in the light of the above general criteria, any State (or group of States) of a region wishes to effect a change in the approved air navigation plan for that region, it should propose to the Secretary General, through the Regional Office accredited to that State, an appropriate amendment to the plan, adequately documented; the proposal should include the facts that lead the State (or group of States) to the conclusion that the amendment is necessary. Such amendments may include additions, modifications or deletions. (This procedure does not preclude a State having previous consultation with other States before submitting an amendment proposal to the Regional Office.) This proposed amendment should be submitted via the web based tool and/or by correspondence to the Regional Office.

5.2. Upon studying the proposal, if the Secretary General considers that the proposed amendment requires further coordination through the relevant Planning and Implementation Regional Group (PIRG), the proposal will be presented, adequately documented, to the PIRG. The views of the PIRG will be coordinated with the originating State and the proposed amendment will be uploaded via the ANP web based platform for processing proposals for amendment for approval by the Council.

5.3. If the proposal concerns an amendment of the provisions (text) in "General Regional Requirements", the Secretary General will coordinate and circulate, through all Regional Offices, an amendment of all the regional plans.

5.4. If the Secretary General considers that the proposed amendment conflicts with established ICAO policy, or that it raises questions which the Secretary General considers should be brought to the attention of the Air Navigation Commission, the proposal will be presented, adequately documented, to the Commission. In such cases, the Commission will decide the action to be taken on the proposal.

5.5. The Secretary General, through the Regional Office, will circulate the proposal, adequately documented, with a request for comments to all provider and user States of the region considered affected as well as to user States outside the region and international organizations which may be invited to attend suitable ICAO meetings and which may be concerned with the proposal. The States and international organizations concerned should either send their comments/agreement/objection via the ANP web based platform and/or by correspondence to the Regional Office. Any comment or objection should be adequately supported by reasons for the comment or objection.

5.6. If, in reply to the Secretary General's inquiry, no objection is raised to the proposal by a specified date, the proposal should be submitted to the President of the Council, who is authorized to approve the amendment on behalf of the Council. The approved amendment should be incorporated into Volume I of the regional plan.

5.7. If, in reply to the Secretary General's inquiry, any objection is raised, and if objection remains after further consultation, the matter will be documented for discussion by the respective planning and implementation regional group (PIRG) and, ultimately for formal consideration by the Air Navigation Commission, if it remains unresolved. If the Commission concludes that the amendment is acceptable in its original or other form, it will present appropriate recommendations to the Council.

5.8. Proposals for the amendment of Volume I of the regional plan submitted by international organizations directly concerned with the operation of aircraft, which may be invited to attend suitable ICAO meetings and which attended the meeting(s) where the relevant regional plan is managed, will be dealt with in the same manner as those received from States, except that, before circulating a proposal to States and selected international organizations, the Secretary General will ascertain whether it has adequate support from the State or States whose facilities will be affected. If such support is not forthcoming, the proposal will be presented to the Commission, and the Commission will decide on the action to be taken on the proposal.

5.9. Proposals for the amendment of Volume I of the regional plan may also be initiated by the Secretary General, through the Regional Office accredited to that State, provided that the State or States whose facilities will be affected have expressed their concurrence with the proposal.

5.10. Amendments to Volume I of the regional plan which have been approved in accordance with the above procedure will be published in the ANP web based platform at convenient intervals.

PART B — AIR NAVIGATION PLANS, VOLUME II

6. Procedure for amendment of Volume II

6.1. Amendments of Volume II of the regional plan should be effected on the basis of an adequately documented proposal submitted by a State (or a group of States) or the relevant PIRG to the Secretary General, through the Regional Office accredited to that State. The proposal should include the facts that lead to the conclusion that the amendment is necessary. Such amendments may include additions, modifications or deletions to Volume II of the regional plan. (This procedure does not preclude a State having previous consultation with other States before submitting an amendment proposal to the Regional Office.) This proposed amendment should be submitted via the ANP web based platform and/or by correspondence to the Regional Office.

6.2. If the proposal concerns an amendment of the provisions (text) in "General Regional Requirements", the Secretary General will coordinate and circulate, through all Regional Offices, an amendment of all the regional plans.

6.3. The ICAO Regional Office will circulate the proposal, adequately documented, with a request for comments to all provider and user States of the region considered affected as well as to user States outside the region and international organizations which may be invited to attend suitable ICAO meetings and which may be concerned with the proposal. The States and international organizations concerned should either send their comments/agreement/objection via the ANP web based platform and/or by correspondence to the Regional Office. Any comment or objection should be adequately supported by reasons for the comment or objection.

6.4. If, in reply to the ICAO Regional Office's inquiry, no objection is raised to the proposal by a specified date, it will be deemed that a regional agreement (involving the relevant PIRG) on the subject has been reached and the proposed amendment should be incorporated into Volume II of the regional plan.

6.5. If, in reply to the ICAO Regional Office's inquiry, any objection is raised, and if objection remains after further consultation, the matter will be documented for discussion by the respective planning and implementation regional group (PIRG) and, ultimately for formal consideration by the Air Navigation Commission, if it remains unresolved. If the Commission concludes that the amendment is acceptable in its original or other form, it will present appropriate recommendations to the Council.

6.6. Proposals for the amendment of Volume II of the regional plan submitted by international organizations directly concerned with the operation of aircraft, which may be invited to attend suitable ICAO meetings, where the relevant regional plan is managed, will be dealt with in the same manner as those received from States, except that, before circulating a proposal to States and selected international organizations, the Secretary General will ascertain whether the proposal has adequate support from the State or States whose facilities or services will be affected. If such support is not forthcoming, the proposal will not be pursued.

6.7. Proposals for the amendment of Volume II of the regional plan may also be initiated by the Secretary General, through the Regional Office accredited to that State, provided that the State or States whose facilities or services will be affected have expressed their concurrence with the proposal.

6.8. Amendments to Volume II of the regional plan which have been approved in accordance with the above procedure will be published in the ANP web based platform at convenient intervals.

PART C — AIR NAVIGATION PLANS, VOLUME III

7. Procedure for amendment of Volume III

7.1. Amendments of Volume III of the regional plan are under the responsibility of the relevant Planning and Implementation Regional Group (PIRG) and not subject to a formal application of the procedure for amendment of the ANP described in Parts A and B above. However, the amendment of the provisions of Part 0 - "Introduction" and Part I - "General Planning Aspects" needs special coordination, as specified in 7.4 below. Since these two Parts are harmonized for all regions, an amendment of the provisions contained therein will lead to amendment of Parts 0 and I of Volume III of the regional plans of all regions.

7.2. Amendments of Volume III of the regional plan should be effected on the basis of an adequately documented proposal submitted to the ICAO Regional Office concerned by:

- a State (or a group of States); or
- the relevant Planning and Implementation Regional Group (PIRG) of the region(s); or
- the ICAO Secretariat; or
- international organisations directly concerned with the operation of aircraft, which may be invited to attend suitable ICAO meetings and/or which attended the meeting(s) where the relevant Volume III amendments were agreed.

7.3. This procedure does not preclude a State (or group of States) having previous consultation with other States before submitting an amendment proposal to the Regional Office. Such amendments may include additions, modifications or deletions to Volume III of the regional plan. In addition, the facts that led to the conclusion that the amendment should be included.

7.4. If the proposal concerns an amendment of the provisions in Part 0 - "Introduction" or Part I - "General Planning Aspects", the ICAO Regional Office concerned will submit the proposal to ICAO Headquarters (Air Navigation Bureau) for coordination with all ICAO Regional Offices. The views of the ICAO Regional Offices will be taken into consideration in the consolidation/approval of the amendment by the ANB. The approved amendment will be published in Volume III of all regional plans at convenient intervals.

7.5. The mechanism for the amendment of Part II of Volume III of the regional plan should be developed, agreed by the relevant PIRG and reflected in the corresponding PIRG Handbook.

CAR/SAM ANP, VOLUME I

PART I – GENERAL PLANNING ASPECTS (GEN)

1. GEOGRAPHICAL SCOPE

1.1 The CAR/SAM ANP is related to the ICAO Caribbean and South American air navigation regions. The ANP may call for the provision of basic facilities and services beyond the charted boundaries of a region where such facilities and services are necessary to meet the requirements of international air navigation within that region.

1.2 A number of States within the ICAO Caribbean and South American Regions are members of one or more sub-regional groupings which have development plans to improve air navigation services; such plans contribute to the regional implementation of the ICAO *Global Air Navigation Plan* (GANP) (Doc 9750). Regional subgroups include:

- *The North America, Central American and Caribbean Working Group (NACC/WG) for the NAM/CAR Regions*
- *The Air Navigation Implementation Working Group (ANI/WG) for the NAM/CAR Regions*
- *The Eastern Caribbean Civil Aviation Technical Group (E/CAR/CATG)*
- *The Technical Management Group of the Central Caribbean Regional Telecommunication Network, "Mejoras a las Comunicaciones ATS" (MEVA TMG)*
- *The Network Technical Group of the Eastern Caribbean AFS Regional Telecommunication Network (E/CAR/NTG)*
- *The South American Implementation Working Group (SAM/IG)*
- *The Technical, Operational and Management of the Regional Digital Network (REDDIG)*
- *The South Atlantic Implementation Group for the improvement of Air Traffic Services in the South Atlantic(SAT)*

2. FLIGHT INFORMATION REGIONS

2.1 **Table GEN I-1** shows the current Flight Information Regions (FIR)/Upper Information Regions (UIR) which are part of the ICAO Caribbean and South American Regions. More details of the FIRs and UIRs within the Caribbean and South American air navigation regions are contained in **Table ATM I-1** and **Charts ATM I-1** and **ATM I-2**.

3. STATES' RESPONSIBILITIES

3.1 Each Contracting State is responsible for the provision of facilities and services in its territory under Article 28 of the Convention as well as within the airspace over the high seas for which it has accepted the responsibility for the provision of services. The Council has recommended that these facilities and services include those specified in the ANPs.

3.2 The inclusion of the basic facilities and services provided by non-Contracting States and territories in regional ANPs is simply recognition that they are needed by or likely to affect international civil aircraft operations of Contracting States or the facilities and services of these States.

Note. — Non-Contracting State in the CAR region: Dominica

4. CAR/SAM REGIONAL PLANNING

4.1 The regional planning and implementation process is the principal engine of ICAO's planning framework. It is here that the top-down approach comprising global guidance and regional harmonization measures converges with the bottom-up approach constituted by national planning by States.

4.2 PERFORMANCE BASED APPROACH

4.2.1 Global Approach

4.2.1.1 In an effort to assist planners in weighing outcomes and making appropriate decisions, the *Manual on Global Performance of the Air Navigation System* (Doc 9883) has been developed. In this respect ICAO has defined 11 Key Performance Areas (KPA), one for each of the *Global ATM Operational Concept* (Doc 9854) expectations outlined below.

4.2.1.2 These general expectations are relative to the effective operation of the ATM system. The ICAO planning objective is to achieve a performance based global air traffic management (ATM) system through the implementation of air navigation systems and procedures in a safe, progressive, cost-effective and cooperative manner.

5. RELATIONSHIP BETWEEN GLOBAL, REGIONAL AND NATIONAL PLANNING

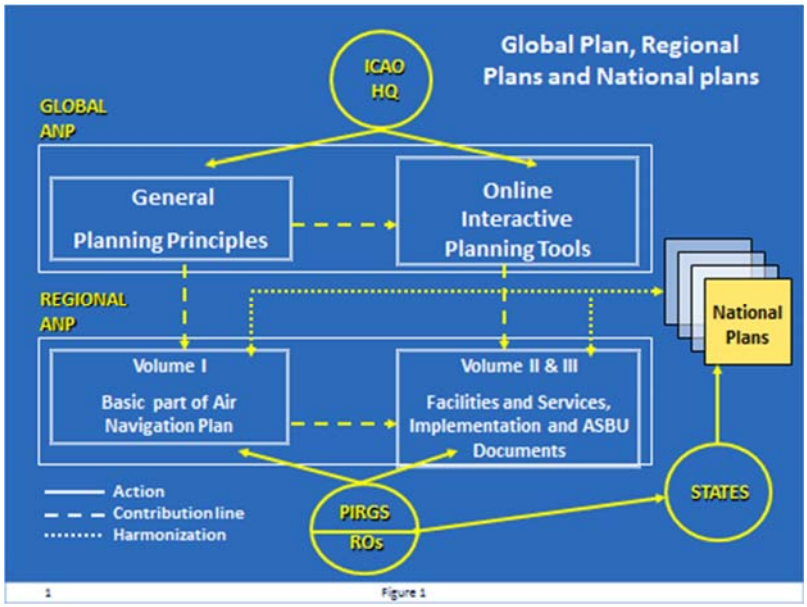

Figure 1. Relationship between global, regional and national plans.

5.1 Planning takes place at global, regional and national levels. Planning is accomplished with the help of planning tools and methodologies that are used primarily at the regional and national levels, conditioned by guidance from the global level. The basis for effective planning is the GANP (Doc 9750), which should guide the development of regional and national implementation plans that will support system architectures.

6. HUMAN RESOURCE PLANNING

6.1 Human resource planning can be considered "*the systematic and continuing process of analysing an organisation's human resource needs under changing conditions and developing personnel policies appropriate to the longer-term effectiveness of the organisation. It is an integral part of corporate planning and budgeting procedures since human resource costs and forecasts both affect and are affected by longer-term corporate plans.*"[1]

6.2 Estimating current and future requirements for civil aviation personnel and training capacity is essential for human resource planning, institutional capacity building, and related funding and policy measures. Such planning will need to take into account the interdependencies for supply and demand of qualified personnel at national, regional and global levels.

[1] Defined by the UK Institute of Personnel and Development

6.3 Human Performance

6.3.1 The high level of automation and interdependencies across aviation disciplines will only increase with evolving air navigation systems. To maximise potential safety and efficiency benefits that these offer, the development of human-driven, rather than engineering-driven interfaces is required, making it easier for the human operator to make sound decisions and take correct actions. Similarly, as part of a safety management systems approach, procedures need to be identified for the use of current and new technologies that take into account human capabilities and manage the risk associated with human limitations.

6.3.2 States should:

a) Identify a certification process that requires at the design stage:

i) recognition of the potential human performance issues that the proposed new technology attempts to address; and

ii) consideration of the potential human performance issues, including changes in roles and the effects on individual and team behaviours, that may be introduced by the proposed new technology.

b) Identify processes for the implementation of new technologies, systems and procedures that describes the means by which human performance considerations can be addressed within operational contexts.

c) Consider the management of human performance-related risks as a necessary and essential aspect of the oversight of safety management systems.

d) Ensure that their technical personnel have exposure to training in human factors.

6.4 Training

6.4.1 A major goal of CNS/ATM systems is to create a seamless air navigation system. A seamless air navigation environment will require adequately qualified personnel prepared to perform their jobs in an evolving environment. At the same time, shortcomings in human resource planning and training are frequently mentioned as one of the reasons for the lack of implementation of regional ANPs. Human resource development challenges will be compounded during the transition period to CNS/ATM systems. As the existing and emerging air navigation technologies will co-exist in parallel for a period of time, civil aviation personnel will need to learn new skills, whilst retaining those needed to operate and maintain existing systems. To meet this challenge, a cooperative approach should be used in civil aviation training within the region. This approach should:

a) ensure that the training needs for the region are identified, documented and kept up to date;

b) facilitate the access to specialized types of training needed within the region or sub-regions that individual States cannot justify based on their national training needs alone;

c) ensure that a balanced market exists to support the development and on-going implementation of high-quality training in one or more training centres within the region or sub-regions;

d) endeavour to distribute equitably regional training activities among the training centres established within the region or sub-regions.

e) take advantage of readily available training materials including those available through the TRAINAIR Plus sharing system.

6.4.2 Appropriate bodies should be established to facilitate regional and sub-regional training planning. A quantitative approach should be used to determine the training capabilities needed within a region or sub-region. Decisions concerning required training capabilities should be based on an aggregate of training needs for existing air navigation technologies, as well as emerging technologies. A State consultation process should be used to formulate a plan for the establishment of specific regional training centres.

6.5 Training of technical personnel

6.5.1 States should develop and implement comprehensive training programmes and periodic training plans for all technical staff, including initial, on-the-job, recurrent and specialized training.

7. SAFETY CONSIDERATIONS

7.1 Safety fundamentally contributes to the sustainable growth of a sound and economically viable civil aviation system that continues to foster economic prosperity and social development. With air traffic projected to double in the next 15 years, safety risks must be addressed proactively to ensure that this significant capacity expansion is carefully managed and supported through strategic regulatory and infrastructure developments. It is imperative therefore that States and regions remain focused on their safety priorities as they continue to encourage expansion of their air transport sectors.

7.2 Acceptable safety levels are related to the establishment of State safety programmes (SSPs) that are able to anticipate and effectively respond to safety-related occurrences, resulting in continual improvements to an already low global accident rate. The *Global Aviation Safety Plan* (GASP) specifically establishes targeted safety objectives and initiatives that support SSP implementation while ensuring the efficient and effective coordination of complementary safety activities between all stakeholders.

7.3 PIRGs should harmonize activities undertaken to address aviation safety issues on a regional basis with the Regional Aviation Safety Groups (RASGs). In addition, PIRGs should coordinate relevant safety matters with RASGs to ensure consistency and avoid overlap.

7.4 PIRGs should ensure that air navigation services development programmes are consistent with the GASP safety objectives and initiatives. States are responsible for the prompt elimination of their air navigation deficiencies. Detailed information on the process of identifying and managing air navigation deficiencies is contained in the GREPECAS Handbook.

7.5 Adherence to the ICAO SARPs will significantly contribute to aviation safety. States should therefore ensure that they have the necessary regulatory framework in place to reinforce the adoption of the ICAO SARPs within their national regulations. States should also ensure that any differences to the ICAO SARPs have been assessed in respect of safety and are notified in accordance with ICAO requirements.

7.6 Unsatisfactory Conditions Reporting

7.6.1 States should act on any serious problems encountered due to the lack of implementation or prolonged unavailability of air navigation facilities or services required by the ANPs as reported by users of air navigation facilities and services.

8. ENVIRONMENT CONSIDERATIONS

8.1 It is an ICAO Strategic Objective to minimize the adverse effects of global civil aviation on the environment. PIRGs should ensure that environmental factors are taken into consideration when performance based systems implementation plans are developed and may wish to coordinate their plans with the State Action Plans on CO_2 Emissions Reduction. The results of environmental analysis can be useful in providing national decision-makers within the various sub-regions with information upon which to base airspace architecture decisions and in providing information on what the aviation industry is doing now to protect the environment in the future. Tools such as the ICAO Fuel Savings Estimation Tool (IFSET) are available from the ICAO public website to help quantify the environmental benefits from operational improvements. Environmental considerations should, however, not compromise acceptable levels of safety and be balanced against operational and economic considerations.

9. AIR TRAFFIC FORECASTS

9.1 Regional traffic forecasting supports the regional air navigation system planning. All States generally prepare individual forecasts, taking account of the regional information, for national planning purposes. A uniform strategy has been adopted by ICAO for the purpose of preparing traffic forecasts and other planning parameters in support of the regional planning process. This information should be shared through at least the sub-regional groupings to enable effective regional planning development.

10. CONTINGENCY PLANNING

10.1 Contingency plans may constitute a temporary deviation from the approved ANPs; such deviations are approved, as necessary, by the President of the ICAO Council on behalf of the Council.

10.2 The effects of disruption of services in particular portions of airspace are likely to affect significantly the services in adjacent airspace. States should co-ordinate with neighbouring States in the development and implementation of contingency plans, which in some cases may be developed on a sub-regional basis.

10.3 ICAO will initiate and coordinate appropriate contingency action in the event of disruption of air traffic services and related supporting services affecting international civil aviation operations provided by a State in the event that the authorities cannot adequately discharge their responsibility for the provision of such services to ensure the safety of international civil aviation operations. In such circumstances, ICAO will work in coordination with States responsible for airspace adjacent to that affected by the disruption and in close consultation with international organizations concerned.

10.4 Regional contingency plans will be developed, approved and maintained by GREPECAS with the support of ICAO and other organizations.

10.5 States should prepare their contingency plans in advance and ensure their availability or accessibility to the ICAO Regional Office. The plans should be reviewed at regular intervals and updated as required.

TABLE GEN I-1 – LIST OF FLIGHT INFORMATION REGIONS (FIR)/UPPER INFORMATION REGIONS (UIR) OF THE ICAO CAR/SAM REGIONS

EXPLANATION OF TABLE

Column		
1	State	Name of State
2	FIR/UIR	Name of FIR/UIR

STATE	FIR/UIR
1	2
France – French Antilles (St Barthelemy)	San Juan FIR
France – French Antilles (St Martin)	
Netherlands (Saba)	
Netherlands (Sint Eustatius)	
Sint Maarten (Kingdom of the Netherlands)	
United Kingdom (Anguilla)	
United Kingdom (British Virgin Islands)	
United States (Puerto Rico)	
United States (Virgin Islands)	
Antigua and Barbuda	Piarco FIR
Barbados	
Dominica	
France – French Antilles (Guadeloupe)	
France – French Antilles (Martinique)	
Grenada	
Saint Kitts and Nevis	
Saint Lucia	
Saint Vincent and the Grenadines	
Trinidad and Tobago	
United Kingdom (British Virgin Islands)	
United Kingdom (Montserrat)	
Argentina	Ezeiza FIR
	Córdoba FIR
	Comodoro Rivadavia FIR
	Mendoza FIR
	Resistencia
Aruba (Kingdom of the Netherlands)	Curaçao FIR
Curaçao (Kingdom of the Netherlands)	
Netherlands (Bonaire)	
Bahamas	Nassau FIR
Belize	Central American FIR
Costa Rica	
El Salvador	
Guatemala	
Honduras	
Nicaragua	
United Kingdom (Bermuda)	New York Oceanic West FIR
Bolivia	La Paz FIR

STATE	FIR/UIR
1	2
Brazil	Amazonica FIR
	Atlantico FIR
	Brasilia FIR
	Curitiba FIR
	Recife FIR
United Kingdom (Cayman Islands)	Kingston FIR
Jamaica	
Chile	Antofagasta FIR
	Isla de Pascua FIR
	Puerto Montt FIR
	Punta Arenas FIR
	Santiago FIR
Colombia	Bogotá FIR
	Barranquilla FIR
Cuba	Habana FIR
Dominican Republic	Santo Domingo FIR
Ecuador	Guayaquil FIR
French Guiana	Cayenne FIR
Guyana	Georgetown FIR
Haiti	Port Au Prince FIR
Mexico	Mazatlán Oceanic FIR
	Mexico FIR
Panama	Panamá FIR
Paraguay	Asunción FIR
Peru	Lima FIR
Suriname	Paramaribo FIR
United Kingdom (Turks and Caicos Islands)	Miami Oceanic FIR
United States	
Uruguay	Montevideo FIR
United States	Houston FIR
	Houston Oceanic FIR
	Miami FIR
Venezuela	Maiquetia FIR

CAR/SAM ANP, VOLUME I

PART II – AERODROMES / AERODROME OPERATIONS (AOP)

1. INTRODUCTION

1.1 This part of the CAR/SAM ANP constitutes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of aerodromes operations (AOP) facilities and services in the Caribbean and South American Regions and complements the provisions of ICAO SARPs and PANS related to AOP. It contains stable plan elements related to the assignment of responsibilities to States for the provision of aerodrome facilities and services within the Regions in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300) and mandatory requirements related to the AOP facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.2 The dynamic plan elements related to the assignment of responsibilities to States for the provision of the aerodrome facilities and services including the mandatory requirements based on regional air navigation agreements related to the AOP are contained in the CAR/SAM ANP Volume II Part II - AOP.

1.3 The CAR/SAM ANP Volume III contains dynamic/flexible plan elements related to the implementation of air navigation systems and their modernization in line with the ICAO Aviation System Block Upgrades (ASBUs) methodology and associated technology roadmaps described in the Global Air Navigation Plan. The ASBU modules are aimed at increasing capacity and improving efficiency of the aviation system whilst maintaining or enhancing safety level, and achieving the necessary harmonization and interoperability at regional and global level. This includes the regionally agreed ASBU modules applicable to the specified ICAO region/sub-region and associated elements/enablers necessary for the monitoring of the status of implementation of these ASBU modules.

Standards and Recommended Practices and Procedures for Air Navigation Services

1.4 The SARPs and PANS and associated guidance material applicable to the provision of AOP are contained in:

a) Annex 14 — *Aerodromes*, Volumes I and II;

b) *Procedures for Air Navigation Services – Aerodromes* (PANS-Aerodromes) (Doc 9981);

c) *Airport Planning Manual* (Doc 9184);

d) *Aerodrome Design Manual* (Doc 9157);

e) *Airport Services Manual* (Doc 9137);

f) *Manual on Certification of Aerodromes* (Doc 9774);

g) *Assessment, Measurement and Reporting of Runway Surface Conditions* (Cir 329);

h) *Operation of New Larger Aeroplanes at existing aerodromes* (Cir 305);

i) *Advanced Surface Movement Guidance and Control Systems (A-SMGCS) Manual* (Doc 9830);

j) *Manual of Surface Movement Guidance and Control Systems (SMGCS)* (Doc 9476);

k) *Heliport Manual* (Doc 9261);

l) *Manual on the prevention of runway incursions* (Doc 9870);

m) *Stolport Manual* (Doc 9150);

n) *ICAO Bird Strike Information System Manual* (Doc 9332); and

o) *Manual on Civil Aviation Jet Fuel Supply* (Doc 9977).

2. GENERAL REGIONAL REQUIREMENTS

2.1 Regular aerodromes and their alternates required for international commercial air transport operations should be determined through regional agreements, based on the list of international aerodromes designated by States and the needs of the international commercial flights. Consideration should also be given to the needs of international general aviation flights as identified by user requirements. The alternate aerodromes should be planned /selected, to the greatest practicable extent, from the list of existing regular aerodromes used for international aircraft operations. However, where in specific cases the designation of another aerodrome in close proximity to a regular aerodrome would result in appreciable fuel conservation or other operational advantages, this aerodrome may be designated for use as an alternate aerodrome only. Planning of alternate aerodromes should be made on the basis of the following objectives:

a) to ensure that at least one suitable alternate is available for each international aircraft operation; and

b) to ensure that the facilities at the designated alternate aerodrome(s) are appropriate for the alternate aircraft operations.

2.2 The list of regular and alternate aerodromes (including their designations) required in the Regions to serve international civil aviation operations (international scheduled air transport, non-scheduled air transport and general aviation operations) is given in **Table AOP I-1**. Each Contracting State should ensure the provision of aerodrome facilities and services at the international aerodromes under its jurisdiction.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 None

Table AOP I-1
INTERNATIONAL AERODROMES REQUIRED IN THE CAR/SAM REGIONS

EXPLANATION OF THE TABLE

City/Aerodrome: Name of the city and aerodrome, preceded by the location indicator.
Designation: Designation of the aerodrome as:
RS — international scheduled air transport, regular use;
RNS — international non-scheduled air transport, regular use;
AS — international scheduled air transport, alternate use;
ANS — international non-scheduled air transport, alternate use.

Note 1 — when an aerodrome is needed for more than one type of use, normally only the use highest on the above list is shown.
[Example — an aerodrome required for both RS and AS use would only be shown as RS in the list.]
Note 2 — when the aerodrome is located on an island and no particular city or town is served by the aerodrome, the name of the island is included instead of the name of a city.

Location Indicator	Name of City/Aerodrome	Designation
ANGUILLA (United Kingdom)		
TQPF	THE VALLEY/ Clayton J. Lloyd Intl. Airport	RS
ANTIGUA AND BARBUDA		
TAPA	SAINT JOHNS/ V.C. Bird International Airport	RS
ARGENTINA		
SABE	BUENOS AIRES/Aeroparque J. Newbery	RS
SARI	CATARATAS DEL IGUAZÚ / My. D. C. E. Krause	RNS & AS
SAVC	COMODORO RIVADAVIA/ Gral. E. Mosconi	RS
SACO	CORDOBA/Ing. Aer. A.L.V. Taravella	RS
SAEZ	EZEIZA/Ministro Pistarini	RS
SASJ	JUJUY/Gobernador Guzmán	RS
SAZM	MAR DEL PLATA/Astor Piazolla	RG & AS
SAME	MENDOZA/El Plumerillo	RS
SAZN	NEUQUÉN/Presidente Perón	RNS & AS
SARE	RESISTENCIA	RNS & AS
SAWG	RÍO GALLEGOS/Piloto Civil N. Fernández	RS
SAAR	ROSARIO/Islas Malvinas	RS
SASA	SALTA/ General D. Martín Miguel de Güemes	RS
SAZS	SAN CARLOS DE BARILOCHE	RNS & AS
SADF	SAN FERNANDO/ Aeropuerto Internacional de San Fernando	RG
SAWH	USHUAIA/Malvinas Argentinas	RNS & AS
ARUBA		
TNCA	ORANJESTAD/Reina Beatrix International Airport	RS
BAHAMAS		
MYBS	ALICE TOWN/ Bimini International Airport	RS
MYSM	COCKBURN TOWN/San Salvador International Airport	RS

Location Indicator	Name of City/Aerodrome	Designation
MYGF	FREEPORT/ Grand Bahama International Airport	RS
MYEM	GOVERNOR'S HARBOUR/Governor's Harbour International Airport	RS
MYAM	MARSH HARBOUR/ Marsh Harbour International Airport	RS
MYNN	NASSAU/Lynden Pindling International Airport	RS
MYEH	NORTH ELEUTHERA/ North Eleuthera International Airport	RS
MYLS	STELLA MARIS/Stella Maris International Airport	RS
MYAT	TREASURE CAY/ Treasure Cay International Airport	RS
MYGW	WEST END/West End International Airport	RNS & AS
BARBADOS		
TBPB	BRIDGETOWN/Grantley Adams Intl	RS
BELIZE		
MZBZ	BELIZE/Philip S.W. Goldson Intl	RS
BERMUDA (United Kingdom)		
TXKF	BERMUDA/ L. F. Wake Intl	RS
BOLIVIA		
SLCB	COCHABAMBA/ Aeropuerto Internacional Jorge Wilstermann	AS
SLLP	LA PAZ/ Aeropuerto Internacional de El Alto	RS
SLVR	SANTA CRUZ/ Aeropuerto Internacional Viru Viru	RS
BRAZIL		
SBBE	BELEM/Val de Cans/Júlio Cezar Ribeiro, PA	RS
SBCF	BELO HORIZONTE/Tancredo Neves, MG	RS
SBBV	BOA VISTA/Atlas Brasil Cantanhede, RR	RS
SBBR	BRASILIA/Pres. Juscelino Kubitschek, DF	RS
SBCB	CABO FRIO/Cabo Frio, RJ	RS
SBKP	CAMPINAS/Viracopos, SP	RS
SBCG	CAMPO GRANDE/Campo Grande, MS	RS
SBCR	CORUMBA/Corumbá, MS	RS
SBCZ	CRUZEIRO DO SUL/Cruzeiro do Sul, AC	RS
SBCY	CUIABÁ/Marechal Rondon, MT	RS
SBCT	CURITIBA/Afonsa Pena, PR	RS
SBFL	FLORIANÓPOLIS/Hercílio Luz, SC	RS
SBFZ	FORTALEZA/Pinto Martins, CE	RS
SBFI	FOZ DO IGUAÇU/Cataratas, PR	RS
SBMQ	MACAPÁ/Alberto Alcolumbre, AP	RS
SBMO	MACEIO/Zumbi dos Palmares, AL	RS
SBEG	MANAUS/Eduardo Gomes, AM	RS
SBPL	PETROLINA/Senador Nilo Coelho, PE	RS
SBPP	PONTA PORÃ/Ponta Porã, MS	RNS
SBPA	PORTO ALEGRE/Salgado Filho, RS	RS

Location Indicator	Name of City/Aerodrome	Designation
SBRF	RECIFE/Guararapes– Gilberto Freyre, PE	RS
SBGL	RIO DE JANEIRO/Galeão-Antônio Carlos Jobim, RJ	RS
SBSV	SALVADOR/Deputado Luis Eduardo Magalhães, BA	RS
SBSN	SANTARÉM/Maestro Wilson Fonseca, PA	AS
SBSG	SÃO GONÇALO DO AMARANTE/São Gonçalo do Amarante, RN	RS
SBSL	SÃO LUÍS/Marechal Cunha Machado, MA	AS
SBGR	SÃO PAULO/Guarulhos- Governador André Franco Montoro, SP	RS
SBTT	TABATINGA/Tabatinga, AM	RS
CAYMAN ISLANDS (United Kingdom)		
MWCB	CAYMAN BRAC/Gerrard Smith Intl	RS
MWCR	GEORGETOWN/Owen Roberts Intl	RS
CHILE		
SCFA	ANTOFAGASTA/AP. Cerro Moreno	AS
SCAR	ARICA/AP. Chacalluta	RS
SCIE	CONCEPCION/AP. Altn. Carriel Sur	AS
SCDA	IQUIQUE/AP. Diego Aracena	RS
SCIP	ISLA DE PASCUA/AP Mataveri	RS
SCTE	PUERTO MONTT/AP. El Tepual	RS
SCCI	PUNTA ARENAS/AP. Pdte. Carlos Ibáñez del Campo	AS
SCEL	SANTIAGO/AP**.** Arturo Merino Benítez	RS
COLOMBIA		
SKBQ	BARRANQUILLA/Ernesto Cortissoz/Atlantico	RS
SKBO	BOGOTA /Eldorado/Distrito Capital	RS
SKBG	BUCARAMANGA/Palonegro	RS
SKCL	CALI/Alfonso Bonilla Aragón/Valle	RS
SKCG	CARTAGENA/Rafael Nuñez/Bolívar	RS
SKCC	CUCUTA/Camilo Daza/Norte de Santander	RNS & AS
SKLT	LETICIA/Alfredo Vásquez Cobo/Amazonas	RNS & AS
SKPE	PEREIRA/Matecaña	RS
SKRG	RIONEGRO/José María Córdoba/Antioquia	RS
SKSP	SAN ANDRES/Gustavo Rojas Pinilla/San Andrés	RS
SKSM	SANTA MARTA/Simón Bolívar	RS
COSTA RICA		
MROC	ALAJUELA/Juan Santamaría Intl.	RS
MRLB	LIBERIA/Daniel Oduber Quirós	RNS & AS
MRLM	LIMON/Limón Intl	RG
MRPV	PAVAS/Tobias Bolaños Intl.	RG
CUBA		
MUCM	CAMAGUEY/Ignacio Agramonte	RS

Location Indicator	Name of City/Aerodrome	Designation
MUCC	CAYO COCO/Jardines del Rey	RS
MUCF	CIENFUEGOS/Jaime González	RS
MUCL	CAYO LARGO DEL SUR/Vilo Acuña	RS
MUCU	SANTIAGO DE CUBA/ Antonio Maceo	RS
MUHA	HABANA/José Martí	RS
MUHG	HOLGUIN/Frank País	RS
MUMZ	MANZANILLO/Sierra Maestra	RS
MUSC	SANTA CLARA/Abel Santamaria	RS
MUVR	VARADERO/Juan Gualberto Gómez	RS
CURAÇAO		
TNCC	WILLEMSTAD/Hato, Curaçao I.	RS
DOMINICA		
TDPD	MARIGOT/Melville Hall International Airport	RS
TDPR	ROSEAU/Canefield Intl.	RS
DOMINICAN REPUBLIC		
MDBH	BARAHONA/Aeropuerto. Internacional María Montez	RS
MDJB	HIGUERO/Dr. Joaquín Balaguer Intl.	RS
MDLR	LA ROMANA/Casa de Campo Intl.	RS
MDPP	PUERTO PLATA/ Gregorio Luperón Intl	RS
MDPC	PUNTA CANA/Punta Cana Intl	RS
MDST	SANTIAGO/Cibao Intl	RS
MDSD	SANTO DOMINGO/Jose Francisco Peña Gomez Intl	RS
MDCY	SAMANA/El Catey Intl.	RS
ECUADOR		
SEGU	GUAYAQUIL/José Joaquín Olmedo	RS
SELT	LATACUNGA/Cotopaxi	RNS & AS
SEMT	MANTA/Eloy Alfaro	RS
SEQM	QUITO/Mariscal Sucre	RS
EL SALVADOR		
MSLP	SAN SALVADOR/ Aeropuerto Intl El Salvador	RS
MSSS	SAN SALVADOR/ Ilopango Intl	RG
FRENCH ANTILLES (France)		
TFFF	FORT-DE-FRANCE/Le Lamentin, Martinique	RS
TFFR	POINTE-À-PITRE/Le Raizet, Guadeloupe	RS
TFFJ	SAINT BARTHELEMY/ Saint Barthelemy, Guadeloupe	RS
TFFG	SAINT MARTIN/Grand Case, Guadeloupe	RS
FRENCH GUIANA (France)		
SOCA	CAYENNE/Rochambeau	RS
GRENADA		

Location Indicator	Name of City/Aerodrome	Designation
TGPZ	LAURISTON / Carriacou I.	RS
TGPY	SAINT GEORGES /Maurice Bishop Intl.	RS
GUATEMALA		
MGGT	GUATEMALA/La Aurora	RS
MGPB	PUERTO BARRIOS/ Puerto Barrios	RG & AS
MGSJ	SAN JOSE/Puerto de San Jose	RG & AS
MGMM	SANTA HELENA/Mundo Maya Intl.	RG &AS
GUYANA		
SYCJ	GEORGETOWN/Cheddi Jagan Int'l Airport	RS
SYGO	GEORGETOWN/Ogle International Airport	RS
HAITI		
MTCH	CAP HAITIEN/Cap Haitien Intl	RS
MTPP	PORT-AU-PRINCE/Port-au-Prince Intl	RS
HONDURAS		
MHLC	LA CEIBA/Goloson Intl	RS
MHRO	ROATAN/Juan Manuel Gálvez Intl.	RS
MHLM	SAN PEDRO SULA/Ramón Villeda Morales Intl.	RS
MHTG	TEGUCIGALPA/Toncontín Intl	RS
JAMAICA		
MKJP	KINGSTON/Norman Manley Intl	RS
MKJS	MONTEGO BAY/Sangster Intl	RS
MKBS	OCHO RIOS/Ian Fleming Intl.	RG
MEXICO		
MMAA	ACAPULCO/Gral. Juan N. Alvarez Intl.	RS
MMAS	AGUASCALIENTES/Aeropuerto Jesús Terán	RS
MMBT	BAHIAS DE HUATULCO/Bahías de Huatulco	RS
MMSL	CABO SAN LUCAS/Cabo San Lucas	RNS
MMCP	CAMPECHE/Ing. Alberto Acuña Ongay	RG
MMUN	CANCUN/Cancún Intl.	RS
MMCM	CHETUMAL/Chetumal Intl.	RS
MMCT	CHICHEN-ITZA/Chichen Itza	RS
MMCU	CHIHUAHUA/General de División y Piloto Aviador Roberto Fierro Villalobos	RS
MMMC	CIUDAD ACUÑA/Cuidad Acuña Intl.	RG
MMCE	CIUDAD DEL CARMEN/Ciudad del Carmen Intl	RS
MMCN	CIUDAD OBREGON/Ciudad Obregon	AS
MMCV	CIUDAD VICTORIA/General Pedro José Méndez	AS
MMCS	CIUDAD JUÁREZ/Abraham González Intl.	RS
MMCZ	COZUMEL/Cozumel Intl.	RS

Location Indicator	Name of City/Aerodrome	Designation
MMCB	CUERNAVACA/General Mariano Matamoros	RS
MMCL	CULIACAN/Culiacan	RS
MMDO	DURANGO/Durango	RS
MMGL	GUADALAJARA/Miguel Hidalgo Costilla Intl.	RS
MMGM	GUAYMAS/Gral. José María Yañez Intl.	RS
MMHO	HERMOSILLO/Aeropuerto Internacional General Ignacio Pesqueira García	RS
MMZH	IXTAPA-ZIHUATANEJO/ Ixtapa-Zihuatanejo Intl.	RS
MMLP	LA PAZ/Gral. Manuel Márquez de León Intl.	RS
MMLO	LEON/Aeropuerto Internacional de Guanajuato	RS
MMLT	LORETO/LoretoIntl.	RS
MMLM	LOS MOCHIS/Del Valle del Fuerte	RS
MMZO	MANZANILLO/Playa de Oro Intl.	RS
MMMA	MATAMOROS/Matamoros Intl.	RG & AS
MMMZ	MAZATLAN/Gral. Rafael Buelna Intl.	RS
MMMD	MERIDA/Lic. Manuel Crescencio Rejón Intl	RS
MMML	MEXICALI/Gral. Rodolfo Sánchez Taboada Intl.	RG
MMMX	MEXICO/Aeropuerto Internacional Benito Juárez, Ciudad de México	RS
MMMT	MINATITLAN/Minatitlan	RS
MMMV	MONCLOVA/Venustiano Carranza	RS
MMAN	MONTERREY/Del Norte Intl.	RG & AS
MMMY	MONTERREY/Gral. Mariano Escobedo Intl.	RS
MMMM	MORELIA/Gral. Francisco J. Mujica Intl.	RS
MMNG	NOGALES/Nogales Intl.	RG
MMNL	NUEVO LAREDO/ Aeropuerto Internacional Quetzalcóatl	RG
MMOX	OAXACA/Xoxocotlán	RS
MMPQ	PALENQUE/Palenque	RS
MMPG	PIEDRAS NEGRAS/ Piedras Negras Intl.	RG
MMPB	PUEBLA/Hermanos Serdan	RS
MMPS	PUERTO ESCONDIDO/Puerto Escondido	AS
MMPE	PUERTO PEÑASCO/Aeropuerto del Mar de Cortes	RS
MMPR	PUERTO VALLARTA/ Lic. Gustavo Diaz Ordaz Intl.	RS
MMQT	QUERETARO/Intercontinental de Querétaro	RS
MMRX	REYNOSA/Gral. Lucio Blanco Intl.	RG
MMIO	SALTILLO/Plan de Guadalupe	RS
MMSF	SAN FELIPE/San Felipe Intl.	RG
MMSD	SAN JOSE DEL CABO/ Aeropuerto Internacional Los Cabos	RS
MMSP	SAN LUIS POTOSI/Ponciano Arriaga	RS
MMTM	TAMPICO/Gral. Francisco Javier Mina Intl.	RS
MMTP	TAPACHULA/Tapachula Intl	RS

Location Indicator	Name of City/Aerodrome	Designation
MMEP	TEPIC/Tepic Intl	RS
MMTJ	TIJUANA/Gral. Abelardo L. Rodríguez Intl.	RS
MMTO	TOLUCA/Jose María Morelos y Pavón	RNS
MMTC	TORREON/Francisco Sarabia	RS
MMTG	TUXTLA GUTIERREZ/Angel Albino Corzo	RS
MMPN	URUAPAN/General Ignacio López Rayón	RS
MMVR	VERACRUZ/Gral. Heriberto Jara Intl.	RS
MMVA	VILLAHERMOSA/Capitán P.A. Carlos Rovirosa	RS
MMZC	ZACATECAS/Aeropuerto General Leobardo C. Ruiz Intl.	RS
MONTSERRAT (United Kingdom)		
TRPG	GERALD´S / John A. Osborne	RS
NETHERLANDS (Netherlands)		
TNCB	KRALENDIJK/Flamingo, Bonaire I.	RS
TNCE	ORANJESTAD/F.D. Roosevelt, Saint Eustatius I.	RS
TNCS	THE BOTTOM/Juancho E. Yrausquin Airport, Saba	RS
NICARAGUA		
MNMG	MANAGUA/Augusto César Sandino Intl	RS
PANAMA		
MPBO	BOCAS DEL TORO/Bocas del Toro	RG & AS
MPDA	DAVID/Enrique Malek	RS
MPMG	PANAMA/Marcos A. Gelabert	RG & AS
MPPA	PANAMA/Panamá Pacífico	AS
MPSM	PANAMA/Cap. Scarlett Martínez	AS
MPTO	PANAMA/Tocumen Intl	RS
PARAGUAY		
SGAS	LUQUE/Silvio Pettirossi Intl.	RS
SGES	MINGA GUAZU/Guaraní Intl.	RS
PERU		
SPQU	AREQUIPA/INTL Alfredo Rodríquez Ballón	AS
SPHI	CHICLAYO/ INTL Capitán FAP José Abelardo Quiñones Gonzalez; Gran General del Aire del Perú	AS
SPZO	CUSCO/INTL Teniente FAP Alejandro Velazco Astete	RS
SPQT	IQUITOS/INTL Coronel FAP Francisco Secada Vignetta	RS
SPJC	LIMA-CALLAO/INTL Jorge Chávez	RS
SPSO	PISCO/INTL Pisco	AS
SPTN	TACNA/INTL Coronel FAP Carlos Ciriani Santa Rosa	RG
SPRU	TRUJILLO/INTL Capitán FAP Carlos Martínez de Pinillos	AS
PUERTO RICO (United States)		
TJBQ	AGUADILLA/Rafael Hernández Intl	RS
TJFA	FAJARDO/Diego Jiménez Torres	RS

Location Indicator	Name of City/Aerodrome	Designation
TJPS	PONCE/Ponce-Mercedita	AS
TJSJ	SAN JUAN/Luis Muñoz Marín Intl	RS
TJVQ	VIEQUES/Antonio Rivera	RS
SAINT KITTS AND NEVIS		
TKPK	BASSETERRE/Robert L. Bradshaw, Saint Kitts I.	RS
TKPN	CHARLESTOWN/Newcastle Nevis I.	RS
SAINT LUCIA		
TLPC	CASTRIES/George F. L. Charles	RS
TLPL	VIEUX-FORT/Hewanorra Intl	RS
SAINT VINCENT AND THE GRENADINES		
TVSB	BEQUIA/J.F. Mitchell	RS
TVSC	CANOUAN/Canouan	RS
TVSV	KINGSTOWN/E.T. Joshua	RS
TVSM	MUSTIQUE/Mustique	RNS
TVSU	UNION ISLAND/Union Island	RS
SINT MAARTEN		
TNCM	PHILIPSBURG/Princess Juliana, St. Maarten I.	RS
SURINAME		
SMZO	PARAMARIBO/Zorg en Hoop	RG
SMJP	ZANDERY/Johan Adolf Pengel Intl	RS
TRINIDAD AND TOBAGO		
TTPP	PORT OF SPAIN/Piarco Intl, Trinidad I.	RS
TTCP	SCARBOROUGH/Crown Point, Tobago I.	RS
TURKS AND CAICOS ISLANDS (United Kingdom)		
MBGT	GRAND TURK/Grand Turk Intl	RS
MBPV	PROVIDENCIALES/ Providenciales Intl	RS
MBSC	SOUTH CAICOS/South Caicos Intl	RS
URUGUAY		
SULS	MALDONADO/Intl. C/C, Carlos A. Curbelo “Laguna del Sauce”	RS
SUMU	MONTEVIDEO/Intl. de Carrasco “Gral. Cesareo L. Berisso”	RS
VENEZUELA		
SVBC	BARCELONA/Gral. José Antonio Anzóategui Intl	RS
SVBM	BARQUISIMETO/Gral. Jacinto Lara Intl.	RS
SVCS	CARACAS/Oscar Machado Zuloaga Intl.	RG
SVJC	PARAGUANA/Josefa Camejo Intl	RS
SVMC	MARACAIBO/La Chinita Intl	RS
SVMG	MARGARITA/Intl Del Caribe Gral. Santiago Marino	RS
SVMI	MAIQUETIA/Simon Bolivar Intl	RS
SVPR	PUERTO ORDAZ/Gral. Manuel Carlos Piar Intl	RS

Location Indicator	Name of City/Aerodrome	Designation
SVSA	SAN ANTONIO DEL TACHIRA/San Antonio del Tachira Intl	RG
SVSO	SANTO DOMINGO DEL TACHIRA/May. Buenaventura Vivas Intl.	RG
SVVA	VALENCIA/Arturo Michelena Intl	RS
VIRGIN ISLANDS (United Kingdom)		
TUPJ	ROADTOWN/Beef Island	RS
TUPW	VIRGIN GORDA I./Virgin Gorda	RS
VIRGIN ISLANDS (United States)		
TISX	CHRISTIANSTED/Henry E. Rohlsen, St. Croix	RS
TIST	SAINT THOMAS/Cyril E. King	RS

CAR/SAM ANP, VOLUME I

PART III – COMMUNICATIONS, NAVIGATION AND SURVEILLANCE (CNS)

1. INTRODUCTION

1.1 This part of the CAR/SAM ANP constitutes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of Communications, Navigation and Surveillance (CNS) facilities and services in the CAR/SAM Regions and complements the provisions of ICAO SARPs and PANS related to CNS. It contains stable plan elements related to the assignment of responsibilities to States for the provision of CNS facilities and services within the ICAO Caribbean and South American regions in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300) and mandatory requirements related to the CNS facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.2 The dynamic plan elements related to the assignment of responsibilities to States for the provision of CNS facilities and services and the mandatory requirements based on regional air navigation agreements related to CNS are contained in the CAR/SAM ANP Volume II, Part III – CNS.

1.3 The CAR/SAM ANP Volume III contains dynamic/flexible plan elements related to the implementation of air navigation systems and their modernization in line with the ICAO Aviation System Block Upgrades (ASBUs) methodology and associated technology roadmaps described in the Global Air Navigation Plan. The ASBU modules are aimed at increasing capacity and improving efficiency of the aviation system whilst maintaining or enhancing safety level, and achieving the necessary harmonization and interoperability at regional and global level. This includes the regionally agreed ASBU modules applicable to the specified ICAO region/sub-region and associated elements/enablers necessary for the monitoring of the status of implementation of these ASBU modules.

1.4 In planning for these elements, economy and efficiency should be taken into account in order to ensure that the requirements for the provision of CNS facilities and services can be kept to a minimum. CNS facilities and services should fulfil multiple functions whenever this is feasible.

Standards and Recommended Practices and Procedures for Air Navigation Services

1.5 The SARPs and PANS and related guidance material applicable to the provision of CNS are contained in:

a) Annex 10 – *Aeronautical Telecommunications*, Volumes I, II, III, IV and V;

b) Annex 2 – *Rules of the Air;*

c) Annex 3 – *Meteorological Service for international air navigation;*

d) Annex 6 – *Operation of Aircraft,* Parts I (Chapter 7), II (Chapter 7) and III (Chapter 5);

e) Annex 11 – *Air Traffic Services;*

f) Annex 12 – *Search and Rescue;*

g) Annex 15 – *Aeronautical Information Services;*

h) *Procedures for Air Navigation Services – Air Traffic Management* (PANS-ATM) (Doc 4444);

i) *Regional Supplementary Procedures* (Doc 7030);

j) *GNSS Manual* (Doc 9849);

k) *Manual on Detailed Technical Specifications for the Aeronautical Telecommunication Network (ATN) using ISO/OSI Standards and Protocols* (Doc 9880);

l) *ICAO Aeronautical Telecommunication Network (ATN) Manual for the ATN using IPS Standards and Protocols* (Doc 9896);

m) *Manual of Testing of Radio Navigation Aids* (Doc 8071);

n) *Manual on the Planning and Engineering of the Aeronautical Fixed Telecommunications Network* (Doc 8259);

o) *Manual on Required Communication Performance (RCP)* (Doc 9869);

p) *Training Manual* (Doc 7192);

q) *Performance-based Navigation Manual* (Doc 9613);

r) *Handbook on Radio Frequency Spectrum Requirements for Civil Aviation* (Doc 9718);

s) *Manual on Airborne Surveillance Applications* (Doc 9994); and

t) *Manual of Air Traffic Services Data Link Applications* (Doc 9694).

2. GENERAL REGIONAL REQUIREMENTS

Communications

Aeronautical Fixed Service (AFS)

2.1 The aeronautical fixed service (AFS) should satisfy the communication requirements of ATS, AIS/AIM, MET and SAR, including specific requirements in terms of system reliability, message integrity and transit times, with respect to printed as well as digital data and speech communications. If need be, it should, following agreement between individual States and aircraft operators, satisfy the requirements for airline operational control.

The Aeronautical Telecommunication Network (ATN)

2.2 The ATN of the Regions should have sufficient capacity to meet the minimum requirements for data communications for the services mentioned in paragraph 2.1 above.

Aeronautical Mobile Service (AMS)

2.3 Air-ground communications facilities should meet the agreed communication requirements of the air traffic services, as well as all other types of communications which are acceptable on the AMS to the extent that the latter types of communications can be accommodated.

Air-ground communications for ATS

2.4 Air-ground communications for ATS purposes should be so designed to require the least number of frequency and channel changes for aircraft in flight compatible with the provision of the required service. They should also provide for the minimum amount of coordination between ATS units and provide for optimum economy in the frequency spectrum used for this purpose.

Air-ground data link communications

2.5 Air-ground data link communications should be implemented in such a way that they are regionally and globally harmonised and make efficient use of available communication means and ensure optimum economy in frequency spectrum use and system automation.

Navigation

2.6 Planning of aeronautical radio navigation services should be done on a total system basis, taking full account of the navigation capabilities as well as cost effectiveness. The total system composed of station-referenced navigation aids, satellite-based navigation systems and airborne capabilities should meet the performance based navigation (PBN) requirements for all aircraft using the system and should form an adequate basis for the provision of positioning, guidance and air traffic services.

2.7 Account should be taken of the fact that certain aircraft may be able to meet their navigation needs by means of self-contained or satellite-based aids, thus eliminating the need for the provision of station-referenced aids along the ATS routes used by such aircraft, as well as the need to carry on board excessive redundancies.

Surveillance

2.8 Planning of aeronautical surveillance systems should be made based on a system approach concept, where collaboration and sharing of data sources should be considered in support of an efficient use of the airspace.

Frequency Management

2.9 Frequency assignment planning in the Region(s) should be carried out in accordance with the provisions of Annex 10 and *ICAO Handbook on Radio Frequency spectrum for Civil Aviation* (Doc 9718), supplemented, as necessary, by regional recommendations and technical criteria developed for this purpose.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 None

CAR/SAM ANP, VOLUME I

PART IV - AIR TRAFFIC MANAGEMENT (ATM)

1. INTRODUCTION

1.1 This part of the CAR/SAM ANP constitutes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of air traffic management (ATM) facilities and services in the Caribbean and South American regions and complements the provisions of the ICAO SARPs and PANS related to ATM. It contains stable plan elements related to the assignment of responsibilities to States for the ATM system requirements to be applied within the ICAO Caribbean and South American regions in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300) and mandatory requirements related to the ATM facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.2 The dynamic plan elements related to the assignment of States' responsibilities for the implementation of the ATM system and the mandatory requirements based on regional air navigation agreements related to ATM are contained in CAR/SAM ANP Volume II, Part IV - ATM.

1.3 The CAR/SAM ANP Volume III contains dynamic/flexible plan elements related to the implementation of air navigation systems and their modernization in line with the ICAO Aviation System Block Upgrades (ASBUs) methodology and associated technology roadmaps described in the Global Air Navigation Plan. The ASBU modules are aimed at increasing capacity and improving efficiency of the aviation system whilst maintaining or enhancing safety level, and achieving the necessary harmonization and interoperability at regional and global level. This includes the regionally agreed ASBU modules applicable to the specified ICAO region/sub-region and associated elements/enablers necessary for the monitoring of the status of implementation of these ASBU modules.

Standards and Recommended Practices and Procedures for Air Navigation Services

1.4 The SARPs and PANS and related guidance material applicable to the provision of ATM are contained in:

a) Annex 2 — *Rules of the Air*;

b) Annex 6 — *Operation of Aircraft*;

c) Annex 11 — *Air Traffic Services*;

d) *Procedures for Air Navigation Services — Air Traffic Management* (PANS-ATM) (Doc 4444);

e) *Procedures for Air Navigation Services — Aircraft Operations* (PANS-OPS) (Doc 8168); and

f) *Regional Supplementary Procedures* (Doc 7030).

2. GENERAL REGIONAL REQUIREMENTS

2.1 The description of the current Flight Information Regions (FIR)/Upper Information Regions (UIR), as approved by the ICAO Council, are contained in **Table ATM I-1** and depicted in the **Charts ATM I-1** and **ATM I-2**, respectively.

2.2 States should ensure that the provision of air traffic services (ATS) covers its own territory and those areas over the high seas for which it is responsible for the provision of those services, in accordance with **Charts ATM I-1** and **ATM I- 2**.

Regional ATS Routes and organized track structures

2.3 PIRGs are responsible for the optimization of the traffic flows through the continuous improvement of the regional ATS route network and organized track systems and implementation of random routing areas and free route airspace in the Regions. Where applicable, details of the ATS routes within the Regions are contained in Volume II.

ICARD Global Database

2.4 The five-letter name-codes assigned to significant points should be coordinated through the ICAO Regional Offices and obtained from the ICAO International Codes and Routes Designators (ICARD) Global Database.

Aircraft Identification - SSR Code Assignments

2.5 The management of Secondary Surveillance Radar (SSR) codes is a key element of ATM in order to ensure continuous and unambiguous aircraft identification. The requirements related to the SSR code assignment system used in the Regions is contained in Volume II.

Performance-based Navigation (PBN)

2.6 PIRGs are responsible for the development of the Regional PBN Plan. States' PBN Plans should be consistent with the Regional PBN Plan.

Flexible Use of Airspace

2.7 States should implement civil/military cooperation and coordination mechanisms to enhance the application of the Flexible Use of Airspace concept, which will contribute to more direct routing with a commensurate saving in fuel and associated emissions. States should arrange for close liaison and coordination between civil ATS units and relevant military operational control and/or air defence units in order to ensure integration of civil and military air traffic or its segregation, if required. Such arrangements would also contribute to increasing airspace capacity and to improving the efficiency and flexibility of aircraft operations.

Reduced Vertical Separation Minimum (RVSM)/Regional Monitoring Agencies

2.8 The CAR/SAM Regional Monitoring Agency is the designated Regional Monitoring Agency (RMA) responsible for monitoring the height-keeping performance and approval status of aircraft operating at these levels, in order to ensure that the continued application of RVSM meets the agreed regional safety objectives as set out by GREPECAS.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 None

Table ATM I-1

FLIGHT INFORMATION REGIONS (FIR)/UPPER INFORMATION REGIONS (UIR) IN THE CAR/SAM REGIONS

EXPLANATION OF THE TABLE

Column:

1 Name of the FIR/UIR / Location Indicator according to Doc 7910

2 Description of FIR/UIR lateral limits;

a. Describe separately in the table the limits of the UIRs if they are not similar to the FIRs limits.

3 Remarks — additional information, if necessary.

a. Describe vertical limits if necessary.

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Amazonica (SBAZ)	**FIR/UIR AMAZONICA** *To be incorporated*	
Antofagasta (SCFZ)	**FIR/UIR ANTOFAGASTA** *To be incorporated*	
Asunción (SGFA)	**FIR/UIR ASUNCIÓN** *To be incorporated*	
Atlantico (SBAO)	**FIR/UIR ATLANTICO** *To be incorporated*	
Barranquilla (SKEC)	**FIR BARRANQUILLA** *To be incorporated*	
Bogotá (SKED)	**FIR/UIR BOGOTÁ** *To be incorporated*	
Brasilia (SBBS)	**FIR/UIR BRASILIA** *To be incorporated*	
Cayenne (SOOO)	**FIR/UIR CAYENNE** *To be incorporated*	

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Central American (MHCC)	**FIR/UIR CENTRAL AMERICAN** *To be incorporated*	
Comodoro Rivadavia (SAVF)	**FIR/UIR COMODORO RIVADAVIA** *To be incorporated*	
Córdoba (SACF)	**FIR/UIR CÓRDOBA** *To be incorporated*	
Curaçao (TNCF)	**FIR/UIR CURAÇAO** *To be incorporated*	
Curitiba (SBCW)	**FIR/UIR CURITIBA** *To be incorporated*	
Ezeiza (SAEF)	**FIR/UIR EZEIZA** *To be incorporated*	
Georgetown (SYGC)	**FIR/UIR GEORGETOWN** *To be incorporated*	
Guayaquil (SEFG)	**FIR/UIR GUAYAQUIL** *To be incorporated*	
Habana (MUHA)	**FIR/UIR HABANA** *To be incorporated*	
Houston Oceanic (KZHU)	**FIR/UIR HOUSTON OCEANIC** *To be incorporated*	
Isla De Pascua (SCIZ)	**FIR/UIR ISLA DE PASCUA** *To be incorporated*	
Kingston (MKTP)	**FIR/UIR KINGSTON** *To be incorporated*	

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
La Paz (SLLF)	**FIR/UIR LA PAZ** *To be incorporated*	
Lima (SPIM)	**FIR/UIR LIMA** *To be incorporated*	
Maiquetia (SVZM)	**FIR/UIR MAIQUETIA** *To be incorporated*	
Mazatlán Oceanic (MMFO)	**FIR/UIR MAZATLÁN OCEANIC** *To be incorporated*	
Mendoza (SAMF)	**FIR/UIR MENDOZA** *To be incorporated*	
Mexico (MMER)	**FIR/UIR MEXICO** *To be incorporated*	
Miami Oceanic (KZMA)	**FIR/UIR MIAMI OCEANIC** *To be incorporated*	
Montevideo (SUEO)	**FIR/UIR MONTEVIDEO** *To be incorporated*	
Nassau (MYNA)	**FIR NASSAU** *To be incorporated*	
New York Oceanic West (KZNW)	**FIR/UIR NEW YORK OCEANIC WEST** *To be incorporated*	
Panamá (MPZL)	**FIR/UIR PANAMÁ** *To be incorporated*	
Paramaribo (SMPM)	**FIR/UIR PARAMARIBO** *To be incorporated*	

FIR/UIR Location Indicator	Lateral limits coordinates	Remarks
1	2	3
Piarco (TTZP)	**FIR/UIR PIARCO** *To be incorporated*	
Port-au-Prince (MTEG)	**FIR/UIR PORT-AU-PRINCE** *To be incorporated*	
Puerto Montt (SCTZ)	**FIR/UIR PUERTO MONTT** *To be incorporated*	
Punta Arenas (SCCZ)	**FIR/UIR PUNTA ARENAS** *To be incorporated*	
Recife (SBRE)	**FIR/UIR RECIFE** *To be incorporated*	
Resistencia (SARR)	**FIR/UIR RESISTENCIA** *To be incorporated*	
San Juan (TJZS)	**FIR/UIR SAN JUAN** *To be incorporated*	
Santiago (SCEZ)	**FIR/UIR SANTIAGO** *To be incorporated*	
Santo Domingo (MMCS)	**FIR/UIR SANTO DOMINGO** *To be incorporated*	

CAR/SAM ANP, VOLUME I

PART V – METEOROLOGY (MET)

1. INTRODUCTION

1.1 This part of the **CAR/SAM** ANP constitutes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of aeronautical meteorology (MET) facilities and services in the **Caribbean and South American** Regions and complements the provisions of the ICAO SARPs and PANS related to MET. It contains stable plan elements related to the assignment of responsibilities to States for the provision of MET facilities and services within the ICAO **Caribbean and South American** regions in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300) and mandatory requirements related to the MET facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.2 The dynamic plan element related to the assignment of responsibilities to States for the provision of MET facilities and services and the mandatory requirements based on regional air navigation agreements related to MET are contained in the **CAR/SAM** ANP Volume II, Part V - MET.

1.3 The **CAR/SAM** ANP Volume III contains dynamic/flexible plan elements related to the implementation of air navigation systems and their modernization in line with the ICAO Aviation System Block Upgrades (ASBUs) methodology and associated technology roadmaps described in the Global Air Navigation Plan. The ASBU modules are aimed at increasing capacity and improving efficiency of the aviation system whilst maintaining or enhancing safety level, and achieving the necessary harmonization and interoperability at regional and global level. This includes the regionally agreed ASBU modules applicable to the specified ICAO region/sub-region and associated elements/enablers necessary for the monitoring of the status of implementation of these ASBU modules.

Standards and Recommended Practices and Procedures for Air Navigation Services

1.4 The SARPs and PANS and related guidance material applicable to the provision of MET are contained in:

a) Annex 3 — *Meteorological Service for International Air Navigation*;

b) *Regional Supplementary Procedures* (Doc 7030)*;*

c) *Handbook on the IAVW* (Doc 9766);

d) *Manual on Volcanic Ash, Radioactive Material and Toxic Chemical Clouds* (Doc 9691);

e) *Manual of Aeronautical Meteorological Practice* (Doc 8896);

2. GENERAL REGIONAL REQUIREMENTS

World area forecast system (WAFS) and meteorological offices

2.1 In the **Caribbean and South American** Regions, WAFC **Washington** has been designated as the centre for the operation of the aeronautical fixed service satellite distribution system / WAFS Internet File Service (SADIS and/or WIFS) and the Internet-based Secure SADIS FTP service. The status of implementation of SADIS/WIFS by States in the **Caribbean and South American** Regions is detailed in Volume III.

2.2 In the **Caribbean and South American** Regions, WAFS products in digital form should be disseminated by WAFC **Washington** using the SADIS 2G satellite broadcast and the Secure SADIS FTP service and/or WIFS.

Volcanic Ash

2.3 Volcanic ash advisory centres (VAACs) **Buenos Aires, Washington and Wellington** have been designated to prepare volcanic ash advisory information for the **Caribbean and South American** Regions, as indicated below. The status of implementation of volcanic ash advisory information is detailed in Volume III.

2.4 Selected State volcano observatories have been designated for notification of significant pre-eruption volcanic activity, a volcanic eruption and/or volcanic ash in the atmosphere for the **Caribbean and South American** Regions to their corresponding ACC/FIC, MWO and VAAC, as indicated at **Table MET I-1**. The status of implementation of volcano observatory notice for aviation (VONA) is detailed in Volume III.

Tropical Cyclone

2.5 Tropical cyclone advisory centre (TCAC) **Miami** has been designated to prepare tropical cyclone advisory information for the **Caribbean and South American** Regions, as indicated below. The status of implementation of tropical cyclone advisory information is detailed in Volume III.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 None

TABLE MET I-1 - STATE VOLCANO OBSERVATORIES
Explanation of the Table

Column

1 Name of the State responsible for the provision of a volcano observatory
2 Name of the volcano observatory

State	Volcano observatory
1	**2**
Argentina	Servicio Geológico Minero Argentino, SEGEMAR, Buenos Aires
Chile	Southern Andes Volcano Observatory (SAVO), Departamento de Ciencias Físicas, Temuco
	Servicio Nacional de Geología y Minería (SERNAGEOMIN), Santiago
Colombia	Servicio Geológico Colombiano, Observatorios Vulcanológicos y Sismológicos de Manizales, Popayán y Pasto
Costa Rica	Observatorio de Volcanes y Sismológico de Costa Rica, (OVSICORI-UNA), Heredia
Ecuador	Instituto Geofísico y Sismológico, Quito
El Salvador	Servicio Nacional de Estudios Territoriales (SNET), Ministerio de Medio Ambiente y Recursos Naturales, (MARN), El Salvador
French Antilles (France)	Observatoire volcanologique de la Soufriere, Guadeloupe
	Observatoire volcanologique de la Pelée, Martinique
Guatemala	INSIVUMEH Sección Vulcanología, Ciudad de Guatemala
Guyana	Guyana Geology and Mines Commission
Mexico	Centro Nacional de Prevención de Desastres (CENAPRED)
	Centro Universitario de Investigaciones en Ciencias del Ambiente, Universidad de Colima
	Instituto de Geofísica, UNAM Observatorio de volcanes, Universidad de Colima
Montserrat (U.K.)	Montserrat Volcano Observatory
Nicaragua	Dirección General del Inst. Nicaragüense de Estudios Territoriales (INETER), Dirección de Vulcanologia, Managua
Panama	Instituto de Geociencias
Peru	Instituto Geofísico del Perú (IGP), Arequipa
Trinidad and Tobago	Seismic Research Unit, University of Indies, St. Augustine

CAR/SAM ANP, VOLUME I

PART VI - SEARCH AND RESCUE (SAR)

1. INTRODUCTION

1.1 This part of the **CAR/SAM** ANP constitutes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of search and rescue (SAR) facilities and services in the **Caribbean and South American** regions and complements the provisions of the ICAO SARPs and PANS related to SAR. It contains stable plan elements related to the assignment of responsibilities to States for the provision of SAR facilities and services within the ICAO **Caribbean and South American** regions in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300) and mandatory requirements related to the SAR facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.2 The dynamic plan elements related to the assignment of States' responsibilities for the provision of SAR facilities and services and the mandatory requirements based on regional air navigation agreements related to SAR are contained in the **CAR/SAM ANP** Volume II, Part VI – SAR.

Standards and Recommended Practices and Procedures for Air Navigation Services

1.3 The SARPs and PANS and related guidance material applicable to the provision of SAR are contained in:

a) Annex 12 — *Search and Rescue*;

b) Annex 6 — *Operation of Aircraft*;

c) *Procedures for Air Navigation Services — Air Traffic Management* (PANS-ATM) (Doc 4444);

d) *Regional Supplementary Procedures* (Doc 7030); and

e) *International Aeronautical and Maritime Search and Rescue Manual* (Doc 9731-AN/958).

2. GENERAL REGIONAL REQUIREMENTS

2.1 Each Contracting State should ensure that the provision of search and rescue services covers its own territory and those areas over the high seas for which it is responsible for the provision of those services. The description of the current Search and Rescue Regions (SRRs), as approved by the ICAO Council, are contained in **Table SAR I-1** and depicted in the **Chart SAR I-1**. The list of Rescue Coordination Centres (RCCs) and Rescue Sub-centres (RSCs) in the Region(s) are detailed in Volume II.

2.2 The three volumes of the *IAMSAR Manual* (Doc 9731) provide guidance for a common aviation and maritime approach to organizing and providing SAR services. States are invited to use the *IAMSAR Manual* to ensure the availability of effective aeronautical SAR services and to cooperate with neighbouring States.

2.3 States which rely on military authorities and/or other sources for the provision of SAR facilities should ensure that adequate arrangements are in place for coordination of SAR activities between all entities involved.

2.4 Arrangements should be made to permit a call on any national services likely to be able to render assistance on an ad-hoc basis, in those cases when the scope of SAR operations requires such assistance.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 None

TABLE SAR I-1 – SEARCH AND RESCUE REGIONS (SRR) OF THE CAR/SAM REGIONS

EXPLANATION OF THE TABLE

Column:

1 Name of the SRR
2 Description of SRR lateral limits;
3 Remarks — additional information, if necessary.

SRR	Lateral limits coordinates	Remarks
1	2	3
Amazonica	**SRR Amazonica** *To be incorporated*	
Antofagasta	**SRR Antofagasta** *To be incorporated*	
Asuncion	**SRR Asuncion** *To be incorporated*	
Atlantico	**SRR Atlantico** *To be incorporated*	
Barranquilla	**SRR Barranquilla** *To be incorporated*	
Bogota	**SRR Bogota** *To be incorporated*	
Brasilia	**SRR Brasilia** *To be incorporated*	
Cayenne	**SRR Cayenne** *To be incorporated*	
Central American	**SRR Central American** *To be incorporated*	
Comodoro Rivadavia	**SRR Comodoro Rivadavia** *To be incorporated*	

SRR	Lateral limits coordinates	Remarks
1	2	3
Cordoba	**SRR Cordoba** *To be incorporated*	
Curaçao	**SRR Curaçao** *To be incorporated*	
Curitiba	**SRR Curitiba** *To be incorporated*	
Ezeiza	**SRR Ezeiza** *To be incorporated*	
Georgetown	**SRR Georgetown** *To be incorporated*	
Guayaquil	**SRR Guayaquil** *To be incorporated*	
Habana	**SRR Habana** *To be incorporated*	
Houston Oceanic	**SRR Houston Oceanic** *To be incorporated*	
Iquique	**SRR Iquique** *To be incorporated*	
Isla de Pascua	**SRR Isla de Pascua** *To be incorporated*	
Kingston	**SRR Kingston** *To be incorporated*	
La Paz	**SRR La Paz** *To be incorporated*	

SRR	Lateral limits coordinates	Remarks
1	2	3
Lima	**SRR Lima** *To be incorporated*	
Maiquetia	**SRR Maiquetia** *To be incorporated*	
Mazatlan Oceanic	**SRR Mazatlan Oceanic** *To be incorporated*	
Mendoza	**SRR Mendoza** *To be incorporated*	
Mexico	**SRR Mexico** *To be incorporated*	
Miami Oceanic	**SRR Miami Oceanic** *To be incorporated*	
Montevideo	**SRR Montevideo** *To be incorporated*	
Nassau	**SRR Nassau** *To be incorporated*	
New York Oceanic West	**SRR New York Oceanic West** *To be incorporated*	
Panama	**SRR Panama** *To be incorporated*	
Piarco	**SRR Piarco** *To be incorporated*	
Port-au-Prince	**SRR Port-au-Prince** *To be incorporated*	
Puerto Montt	**SRR Puerto Montt** *To be incorporated*	

SRR	Lateral limits coordinates	Remarks
1	2	3
Punta Arenas	**SRR Punta Arenas** *To be incorporated*	
Recife	**SRR Recife** *To be incorporated*	
Resistencia	**SRR Resistencia** *To be incorporated*	
San Juan	**SRR San Juan** *To be incorporated*	
Santiago	**SRR Santiago** *To be incorporated*	
Santo Domingo	**SRR Santo Domingo** *To be incorporated*	
Zanderij	**SRR Zanderij** *To be incorporated*	

CAR/SAM ANP, VOLUME I

PART VII - AERONAUTICAL INFORMATION MANAGEMENT (AIM)

1. INTRODUCTION

1.1 This part of the **CAR/SAM** ANP constitutes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of aeronautical information services (AIS) and aeronautical information management (AIM) facilities and services in the **Caribbean and South American** regions and complements the provisions of the ICAO SARPs and PANS related to AIS/AIM. It contains stable plan elements related to the assignment of responsibilities to States for the provision of AIS/AIM facilities and services within the ICAO **Caribbean and South American** Regions in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to the AIS/AIM facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.2 The dynamic plan elements related to the assignment of responsibilities to States for the provision of AIS/AIM facilities and services and the mandatory requirements based on regional air navigation agreements related to the AIS/AIM facilities and services are contained in the **CAR/SAM** ANP Volume II, Part VII – AIM.

1.3 The **CAR/SAM** ANP Volume III contains dynamic/flexible plan elements related to the implementation of air navigation systems and their modernization in line with the ICAO Aviation System Block Upgrades (ASBUs) methodology and associated technology roadmaps described in the Global Air Navigation Plan. The ASBU modules are aimed at increasing capacity and improving efficiency of the aviation system whilst maintaining or enhancing safety level, and achieving the necessary harmonization and interoperability at regional and global level. This includes the regionally agreed ASBU modules applicable to the specified ICAO region/sub-region and associated elements/enablers necessary for the monitoring of the status of implementation of these ASBU modules, which include service improvement through digital aeronautical information management interoperability and data through globally interoperable system wide information management (SWIM).

Standards and Recommended Practices and Procedures for Air Navigation Services

1.4 The SARPs and PANS and related guidance material applicable to the provision of AIS, and ultimately AIM, are contained in:

a) Annex 4 — *Aeronautical Charts*;

b) Annex 15 — *Aeronautical Information Services*;

c) *Regional Supplementary Procedures* (Doc 7030);

d) *Aeronautical Information Services Provided by States* (Doc 7383);

e) *Location Indicators* (Doc 7910);

f) *Aeronautical Information Services Manual* (Doc 8126);

g) *Procedures for Air Navigation Services – Aircraft Operations – Construction of Visual and Instrument Flight Procedures* (PANS-OPS, Volume I and Volume II) (Doc 8168);

h) *ICAO Abbreviations and Codes* (PANS-ABC) (Doc 8400);

i) *Aeronautical Charts Manual* (Doc 8697);

j) *Manual on Coordination between Air Traffic Services, Aeronautical Information Services and Aeronautical Meteorological Services* (Doc 9377);

k) *World Geodetic System (1984) Manual* (Doc 9674);

l) *Guidelines on the Use of the Public Internet for Aeronautical Applications* (Doc 9855);

m) *Guidelines for Electronic Terrain, Obstacle and Aerodrome Mapping Information* (Doc 9881);

n) *Flight Procedure Design Quality Assurance System*, Volume I (Doc 9906);

o) "*AIM QMS Manual*" (Doc 9839); and

p) "*Training Manual for AIM*" (Doc 9991).

2. GENERAL REGIONAL REQUIREMENTS

2.1 States should ensure that the provision of aeronautical data and aeronautical information covers its own territory and those areas over the high seas for which it is responsible for the provision of air traffic services, in accordance with **Charts ATM I-1 and ATM I-2**.

2.2 States are responsible for the aeronautical information/data published by its aeronautical information service or by another State or a non-governmental agency on its behalf.

2.3 Aeronautical information published for and on behalf of a State should clearly indicate that it is published under the authority of that State.

2.4 The responsibility for the provision of AIS/AIM facilities and services in the **Caribbean and South American** Regions is reflected in the Volume II.

3. SPECIFIC REGIONAL REQUIREMENTS

3.1 None

CAR/SAM AIR NAVIGATION PLAN

VOLUME II

Disclaimer

GREPECAS endorsed both drafts of the new e-ANP Vol I and Vol II, by the Fast Track Procedure on 28 September 2015.

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CAR/SAM ANP, VOLUME II

PART 0 – INTRODUCTION

1. GENERAL

1.1 The background to the publication of ANPs in three volumes is explained in the Introduction in Volume I. The procedure for amendment of Volume II is also described in Volume I.

1.2 Volume II contains dynamic plan elements related to:

a) the assignment of responsibilities to States for the provision of aerodrome and air navigation facilities and services; and

b) the mandatory requirements related to aerodrome and air navigation facilities and services to be implemented by States in accordance with regional air navigation agreements.

1.3 Volume II does not list all facilities in the regions but only those required for international civil aviation operations in accordance with regional air navigation agreements. A regional air navigation agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified. Documents from the Integrated Aeronautical Information Package and other publications should be consulted for information on additional facilities and for operational information in general. Detailed guidance material or concepts, complementary to the material in Volumes I, II and III are contained in documents that are referenced as Caribbean and South American CAR/SAM Documents.

2. MANAGEMENT OF REGIONAL AIR NAVIGATION PLANS

2.1 The elements in Volume II are reviewed by the GREPECAS in accordance with its schedule of meetings, in consultation with provider and user States, and with the assistance of the ICAO NACC and SAM Regional Offices.

2.2 The information on States' facilities and services included in Volume II, should be updated following the process of regional air navigation agreements.

2.3 The development and maintenance of region-specific documents that provide detailed guidance material or concepts that are complementary to the material in Volumes I, II and III is the responsibility of the GREPECAS.

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CAR/SAM ANP, VOLUME II

PART I – GENERAL PLANNING ASPECTS (GEN)

1. INTRODUCTION

1.1 The material in this part of Volume II of ANP is applicable to one or more parts of the ANP. It should be taken into consideration in the overall planning process for the Caribbean and South American Regions.

2. GENERAL REGIONAL REQUIREMENTS

2.1 To facilitate air navigation systems planning and implementation, homogenous ATM areas and/or major traffic flows/routing areas have been defined for the Regions. While these areas of routing do not encompass all movements in the Regions, they include the major routes. This includes the domestic flights in that particular area of routing.

Homogeneous ATM area

2.2 A homogeneous ATM area is an airspace with a common ATM interest, based on similar characteristics of traffic density, complexity, air navigation system infrastructure requirements or other specified considerations. In such an ATM area a common detailed plan will foster the implementation of interoperable ATM systems. Homogeneous ATM areas may extend over States, specific portions of States, or groupings of States. They may also extend over large oceanic and continental areas. They are considered areas of shared interest and requirements.

2.3 The method of identifying homogeneous ATM areas involves consideration of the varying degrees of complexity and diversity of the worldwide air navigation infrastructure. Based on these considerations, planning could best be achieved at the global level if it was organized based on ATM areas of common requirements and interest, taking into account traffic density and the level of sophistication required.

Major traffic flows/routing areas

2.4 A major traffic flow refers to a concentration of significant volumes of air traffic on the same or proximate flight trajectories. Major traffic flows may cross several homogeneous ATM areas with different characteristics.

2.5 A routing area encompasses one or more major traffic flows, defined for the purpose of developing a detailed plan for the implementation of ATM systems and procedures. A routing area may cross several homogeneous ATM areas with different characteristics. A routing area specifies common interests and requirements of underlying homogeneous areas, for which a detailed plan for the implementation of ATM systems and procedures either for airspace or aircraft will be specified.

2.6 The homogeneous ATM areas and major traffic flows/routing areas identified are given in **Table GEN II-1**.

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TABLE GEN II-1 - HOMOGENEOUS ATM AREAS AND/OR MAJOR TRAFFIC FLOWS IDENTIFIED IN THE CAR/SAM REGIONS

EXPLANATION OF TABLE

Column

1	Area of routing (AR)	Sequential number of area of routing
2	Homogeneous Areas and/or Traffic flows	Brief description and/or name
3	FIRs involved	List of FIRs concerned
4	Type of area covered	Brief description of type of area, examples: Oceanic or Continental High or low density Oceanic en-route or Continental en-route
5	Remarks	Homogeneous ATM Area and/or Major Traffic Flow and Region(s) concerned

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TABLE GEN II-1 – HOMOGENEOUS ATM AREAS AND/OR MAJOR TRAFFIC FLOWS IDENTIFIED IN THE CAR/SAM REGIONS

Area of routing (AR)	Homogeneous Areas and/or Traffic flows	FIRs involved	Type of area covered	Remarks
1	2	3	4	5
AR 1	Buenos Aires-Santiago de Chile	Ezeiza, Mendoza, Santiago	Low density Continental	SAM intra-regional traffic flow
	Buenos Aires-Sao Paulo/Río de Janeiro	Ezeiza, Montevideo, Curitiba, Brasilia	Low density Continental	SAM intra-regional traffic flow
	Santiago de Chile-Sao Paulo/Rio de Janeiro	Santiago, Mendoza, Córdoba, Resistencia, Asunción, Curitiba, Brasilia	Low density Continental	SAM intra-regional traffic flow
	Sao Paulo/Rio de Janeiro-Europe	Brasilia, Recife	Continental / Low density Oceanic	SAM/AFI/EUR inter regional traffic flow
AR 2	Sao Paulo/Río de Janeiro-Miami	Brasilia, Manaos, Maiquetia, Curazao(Kingdom of the Netherlands), Kingston, Santo Domingo, Port au Prince, Habana, Miami	Continental / Low density Oceanic	CAR/SAM/NAM inter- and intra-regional traffic flow
	Sao Paulo/Río de Janeiro- New York	Brasilia, Belem, Paramaribo, Georgetown, Piarco, Rochambeau, San Juan (New York)	Continental / Low density Oceanic	CAR/SAM/NAM/NAT inter- and intra-regional traffic flow
AR 3	Sao Paulo/Río de Janeiro- Lima	Brasilia, Curitiba, La Paz, Lima	Low density Continental	SAM intra-regional traffic flow
	Sao Paulo/Río de Janeiro- Los Angeles	Brasilia, Porto Velho, Bogotá, Barranquilla, Panamá, Central America, Mérida, México, Mazatlán (Los Angeles)	Low density Continental	CAR/SAM/NAM inter- and intra-regional traffic flow
AR 4	Santiago - Lima - Miami	Santiago, Antofagasta, Lima, Guayaquil, Bogotá, Barranquilla, Panamá, Kingston, Habana, Miami.	Continental / Low density Oceanic	CAR/SAM/NAM inter- and intra-regional traffic flow
	Buenos Aires - New York	Ezeiza, Resistencia, Asunción, La Paz, Porto Velho, Manaos, Maiquetia, Curazao, Santo Domingo, Miami (New York)	Continental / Low density Oceanic	CAR/SAM/NAM/NAT inter- and intra-regional traffic flow

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Area of routing (AR)	Homogeneous Areas and/or Traffic flows	FIRs involved	Type of area covered	Remarks
	Buenos Aires - Miami	Ezeiza, Resistencia, Córdoba, La Paz, Porto Velho, Bogotá, Barranquilla, Kingston, Habana, Miami	Continental / Low density Oceanic	CAR/SAM/NAM inter- and intra-regional traffic flow
AR 5	North of South America - Europe	Guayaquil, Bogotá, Maiquetia, Piarco (NAT-EUR)	Continental / high density Oceanic	SAM/NAT/EUR inter-regional traffic flow
AR 6	Santiago - Lima - Los Angeles	Santiago, Antofagasta Lima, Guayaquil, Central America, México	Low density oceanic	CAR/SAM /NAM intra- and inter-regional traffic flow
AR 7	South America – South Africa	Ezeiza, Montevideo, Brasilia, Johannesburg (AFI)	Low density oceanic	SAM/AFI inter-regional traffic flow
	Santiago de Chile - Isla de Pascua - Papeete (PAC)	Santiago, Pascua, Tahiti	Low density oceanic	SAM/PAC inter-regional traffic flow
GM-1	Mexico, Toluca, Guadalajara, Monterrey, Mazatlán, La Paz, Acapulco, Puerto Vallarta, Huatulco, Cancun Gulf of Mexico— North America	Mexico, Houston, Miami; Albuquerque; Los Angeles	Continental/oceanic high density	CAR/NAM inter-regional major traffic flow
	Cancun, Guatemala, El Salvador, Nicaragua, Honduras, Costa Rica – Miami	Mexico, Central America, Habana, Miami	Continental/oceanic high density	CAR/NAM interregional traffic flow
GM-2	Mexico, Cancun, La Habana, Nassau — Europe	Mexico, Habana, Miami - NAT-EUR	Continental/oceanic high density Major traffic flow	CAR/NAM/NAT/EUR inter-regional traffic flow
GM-3	Costa Rica, Panama, Honduras Kingston, Haiti, Santo Domingo San Juan, The Caribbean — Europe	Central America, Panama, Kingston, Port-au-Prince, Curacao, Santo Domingo, San Juan – EUR	Oceanic high density	CAR/ NAT/EUR intra and interregional major traffic flow
	North America – East Caribbean	New York, Miami, Habana, San Juan, Santo Domingo Piarco	Oceanic high density	West Atlantic Route System CAR/NAM inter-regional traffic flow

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CAR/SAM ANP, VOLUME II

PART II – AERODROMES / AERODROME OPERATIONS (AOP)

1. INTRODUCTION

1.1 This part of the Caribbean and South American ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to aerodrome design and operations (AOP). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of AOP facilities and services within a specified area in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300); and mandatory requirements related to AOP facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

2.1 Table AOP II-1 contains the list of facilities and services to be provided by the State concerned at each aerodrome that is listed in Table AOP I-1 in Volume I. Table AOP II-1 shows the operational requirements at each aerodrome to be considered in planning the facilities and services for safe and efficient aircraft operations.

Visual aids for low visibility aerodrome operations

2.2 At aerodromes where there is a requirement to conduct low visibility operations, the appropriate visual and non-visual aids should be provided.

Non-precision approach aids

2.3 Where required by the topographic and/or environmental situation of an aerodrome, improved track guidance during departure and/or approach by specific non-visual and/or visual aids should be provided even if such aids would not normally be required in accordance with the SARPs.

Reduced runway declared distances for take-off

Note. — In the following operational requirements the term "intersection" is used to cover both intersection and junction concepts.

2.4 The reduced runway declared distances for take-off, as for those used for full runway declared distances, should consist of take-off run available (TORA), take-off distance available (TODA) and accelerate-stop distance available (ASDA).

2.5 The datum-line from which the reduced runway declared distances for take-off should be determined is defined by the intersection of the downwind edge of the specific taxiway with the runway edge. The loss, if any, of runway length due to alignment of the aircraft prior to take-off should be taken into account by the operators for the calculation of the aircraft's take-off weight.

2.6 Intersections used as intermediate take-off positions should be identified by the "taxiway designator" to which the datum-line of the associated reduced runway declared distance for take-off refers.

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2.7 At each international aerodrome, specific minima visibility for take-off should be established, regulating the use of intersection take-off positions. These minima should permit the appropriate ATC unit to maintain a permanent surveillance of the ground movement operations, and the flight crews to constantly secure their position on the manoeuvring area, so as to exclude any potential risk of confusion as to the identification of the aircraft and intersections used for take-off. The minima should be consistent with the surface movement guidance and control system (SMGCS) provided at the aerodrome concerned.

2.8 The provision of marking and lighting aids together with signs should ensure the safe control and guidance of aircraft towards and at take-off intersections appropriate to the minima visibility criteria retained. At the runway holding position of the associated intersection take-off position, such signs should indicate the runway heading and the remaining TORA in metres.

2.9 At aerodromes regularly used by international commercial air transport, take-offs from runway/taxiway intersections may be justified for the following reasons:

a) runway capacity improvement;

b) taxi routes distances reduction;

c) noise alleviation; and

d) air pollution reduction.

2.10 The appropriate authorities should, upon prior consultation with aircraft operators, agree on the selection of suitable intermediate intersection take-off positions along the runway(s). Accordingly, authorities should determine the reduced runway declared distances for take-off associated with each selected intersection take-off position and establish the specific ATC rules and operational procedures/limitations. Such provisions should be published in the State aeronautical information publications (AIP).

Aerodrome capacity management

2.11 As an integral part of the air navigation system, the aerodrome should provide the needed ground infrastructure including, inter alia, lighting; taxiways; runway, including exits; aprons and precise surface guidance to improve safety and to maximize aerodrome capacity in all weather conditions. An efficient aerodrome capacity planning and management should include:

a) Reduction of runway occupancy time;

b) The capability to safely manoeuvre in all weather conditions whilst maintaining capacity;

c) Precise surface guidance to and from a runway required in all conditions; and

d) Availability of information on the position (to an appropriate level of accuracy) and intent of all vehicles and aircraft operating on the movement area for the appropriate ATM community members.

2.12 States should ensure that adequate consultation and, where appropriate, cooperation between airport authorities and users/other involved parties are implemented at all international aerodromes to satisfy the provisions of aerodrome capacity assessment and requirement.

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2.13 When international aerodromes are reaching designed operational capacity, a better and more efficient utilization of existing runways, taxiways and aprons is required. Runway selection procedures and standard taxi routes at aerodromes should ensure an optimum flow of air traffic with a minimum of delay and a maximum use of available capacity. They should also, if possible, take account of the need to keep taxiing times for arriving and departing aircraft as well as apron occupancy time to a minimum. The airport collaborative decision making (A-CDM) concept should be implemented to improve airport capacity as early as possible.

Aerodrome capacity assessment and requirement

2.14 The declared capacity/demand condition at aerodromes should be periodically reviewed in terms of a qualitative analysis for each system component and, when applicable, the result of the qualitative assessment upon mutual agreement be used for information.

2.15 The future capacity/demand, based on a forecast for the next five years, should be agreed upon after close cooperation between aerodrome authorities and affected users.

2.16 Operators should consult with aerodrome authorities when future plans indicate a significant increased requirement for capacity resulting in one of the elements reaching a limiting condition.

2.17 Aerodrome capacity should be assessed by aerodrome authorities in consultation with the parties involved for each component (terminal/apron/aircraft operations) using agreed methods and criteria for level of delays.

2.18 Where restrictions in aerodrome capacity are identified, a full range of options for their reduction or removal should be evaluated by the aerodrome authority, in close cooperation with the operators and other involved parties. Such options should include technical/operational/procedural and environmental improvements and facility expansion.

2.19 At many aerodromes, airspace capacity has influence on the aerodrome capacity. If the declared capacity of a specified airspace has influence on aerodrome operations, this should be indicated and action undertaken to reach a capacity in this airspace corresponding to the aerodrome capacity.

2.20 The possibility of overcoming capacity limitations should also take the use of other aerodromes in the vicinity into consideration.

Closure of regular aerodromes

2.21 When a regular aerodrome is to be closed, States should ensure that sufficient alternate aerodromes remain open to provide for the safety and efficiency of aircraft approaching the regular aerodrome that may be required to divert to an alternate.

Scheduling aerodrome maintenance

2.22 States, when planning major aerodrome maintenance work that would affect the regularity of international aircraft operations, should consider the need to notify aircraft operators sufficiently in advance prior to undertaking the scheduled work.

3. SPECIFIC REGIONAL REQUIREMENTS

None

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TABLE AOP II-1 — REQUIREMENTS AND CAPACITY ASSESSMENT IN INTERNATIONAL AERODROMES IN THE CAR/SAM REGIONS

EXPLANATION OF THE TABLE

Column

1 Name of the city and aerodrome, preceded by the location indicator.

Note 1— When the aerodrome is located on an island and no particular city or town is served by the aerodrome, the name of the island is included instead of a city.

Designation of the aerodrome as:

RS — international scheduled air transport, regular use;

RNS — international non-scheduled air transport, regular use;

AS — international scheduled air transport, alternate use; and

ANS — international non-scheduled air transport, alternate use.

2 Required rescue and firefighting service (RFF). The required level of protection expressed by means of an aerodrome RFF category number, in accordance with Annex 14, Volume I, 9.2.

3 Aerodrome reference code (RC). The aerodrome reference code for aerodrome characteristics expressed in accordance with Annex 14, Volume I, chapter 1. The code letter or number within an element selected for design purposes is related to the critical aeroplane characteristics for which the facilities are provided.

4 Runway Designation numbers

5 Type of each of the runways to be provided. The types of runways, as defined in Annex 14, Volume I, Chapter 1, are:

NINST — non-instrument runway;

NPA — non-precision approach runway;

PA1 — precision approach runway, Category I;

PA2 — precision approach runway, Category II;

PA3 — precision approach runway, Category III.

6 Remarks. This column is for other information including critical design aircraft selected for determining RC, critical aircraft selected for determining the RFF category and critical aircraft for pavement strength. Only one critical aircraft type is shown if it is used to determine all the above three elements: otherwise different critical aircraft types need to be shown for different elements.

Note: Columns 3 to 5 for physical characteristics relate to runways and taxiways. The physical characteristics of taxiways and aprons should be compatible with the aerodrome reference code (Column 3) and appropriate for the runways with which they are related.

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Table AOP II-1 –
REQUIREMENTS AND CAPACITY ASSESSMENT IN INTERNATIONAL AERODROMES IN THE CAR/SAM REGIONS

City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
ANGUILLA (United Kingdom)						
TQPF	THE VALLEY/ Clayton J. Lloyd Intl. Airport RS	5	3C	10 28	NPA NINST	
ANTIGUA AND BARBUDA						
TAPA	SAINT JOHNS/ V.C. Bird International Airport RS	9	4E	07 25	PA1 NPA	
ARGENTINA						
SABE	BUENOS AIRES/Aeroparque J. Newbery RS	8~~7~~	4D	13 31	PA1 NINST	
SAEZ	Ezeiza/Ministro Pistarini RS	10~~9~~	4F~~E~~ 4E	11 29 17 35	PA3 NPA NINST PA1	
SADF	SAN FERNANDO RNS~~G~~	4	3C	05 23	NINST NPA	
SARI	CATARATAS DEL IGUAZÚ / My. D. C. E. Krause RNS & AS	8~~6~~	4E	13 31	NPA PA1	
SAVC	COMODORO RIVADAVIA/ Gral. E. Mosconi RS	7~~6~~	4D	07 25	NINST PA1	
SACO	CORDOBA/Ing. Aer. A.L.V. Taravella RS	9	4E 4C	18 36 05 23	PA1 NINST NINST NINST	
SASJ	JUJUY/Gobernador Guzmán RS	7~~6~~	4D	16 34	NINST PA1	
SAZM	MAR DEL PLATA/Astor Piazolla RNS~~G~~ & AS	7~~6~~	4D	13 31	PA1 NINST	
SAME	MENDOZA/El Plumerillo RS	6	4E	18 36	NPA PA1	
SAZN	NEUQUÉN/Presidente Perón RNS & AS	7~~6~~	4C	09 27	PA1 NINST	
SARE	RESISTENCIA RNS & AS	7	4C	03 21	NINST PA1	
SAWG	RÍO GALLEGOS/Piloto Civil N. Fernández RS	8~~7~~	4E	07 25	NPA PA1	
SAAR	ROSARIO/Islas Malvinas RS	8	4E	02 20	NINST PA1	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
SASA	SALTA/ General D. Martín Miguel de Güemes RS	7~~6~~	4D 4C	02 20 06 24	PA1 NINST NPA NPA	
SAZS	SAN CARLOS DE BARILOCHE RNS & AS	8~~7~~	4E	11 29	NPA PA1	
SAWH	USHUAIA/Malvinas Argentinas RNS & AS	9	4E	07 25	NPA PA1	
ARUBA (Kingdom of Netherlands)						
TNCA	ORANJESTAD/Reina Beatrix International Airport RS	9	4E	11 29	PA1 NPA	
BAHAMAS						
MYBS	ALICE TOWN/ Bimini International Airport RS	3	3C	09 27	NINST NINST	
MYSM	COCKBURN TOWN/San Salvador International Airport RS	6	4E	10 28		
MYGF	FREEPORT/ Grand Bahama International Airport RS	7	4E	06 24	PA1 NPA	
MYEM	GOVERNOR'S HARBOUR/Governor's Harbour International Airport , RS	5	4D	15 33	NPA NPA	
MYAM	MARSH HARBOUR/ Marsh Harbour International Airport RS	6	3C	09 27	NPA NPA	
MYNN	NASSAU/Lynden Pindling International Airport RS	7	4E 4D	14 32 09 27	PA1 NPA NPA NINST	
MYEH	NORTH ELEUTHERA/ North Eleuthera International Airport RS	5	3C	07 25	NPA NPA	
MYLS	STELLA MARIS/Stella Maris International Airport RS	2	2B	14 32		
MYAT	TREASURE CAY/ Treasure Cay International Airport RS	5	3C	14 32	NPA NPA	
MYGW	WEST END/West End International Airport RNS & AS	3	3C	12 30	NPA NINST	
BARBADOS						
TBPB	BRIDGETOWN/Grantley Adams Intl RS	9	4E	09 27	PA1 NPA	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
BELIZE						
MZBZ	BELIZE/Philip S.W. Goldson Intl RS	6	4D	07 25	PA1 NPA	
BERMUDA (United Kingdom)						
TXFK	BERMUDA/L.F. Wade RS	8	4E	12 30	NPA PA1	
BOLIVIA						
SLCB Jorge	COCHABAMBA/ Aeropuerto Internacional Wilstermann AS	8	4D	14 32	NPA PA1	
SLLP	LA PAZ/ Aeropuerto Internacional de El Alto RS	7	4D	10 28	PA1 NINST	
SLVR Viru	SANTA CRUZ/ Aeropuerto Internacional Viru RS	9	4E	16 34	NPA PA1	
BRAZIL						
SBBE	BELÉM/Val de Cans/Júlio Cezar Ribeiro, PA RS	~~8~~9	4D	06 24	PA1 NPA	
SBCF	BELO HORIZONTE/ Tancredo Neves, MG RS	~~8~~9	4E	16 34	PA1 NPA	
SBBV	BOA VISTA/ Atlas Brasil Cantanhede, RR RS	6	4D	08 26	PA1 NPA	
SBBR	BRASÍLIA/ Pres. Juscelino Kubitschek, DF RS	9	4E 4E	11L 29R 11R 29L	PA1 PA1 PA2 PA1	
SBCB	CABO FRIO/Cabo Frío, RJ RS	9	4E	10 28	NPA NPA	
SBKP	CAMPINAS/Viracopos, SP RS	10	4E	15 33	PA1 NPA	
SBCG	CAMPO GRANDE/Campo Grande, MS RS	7	4E	06 24	PA1 NPA	
SBCR	CORUMBÁ/Corumbá, MS RS	5	4C	09 27	NPA NPA	
SBCZ	CRUZEIRO DO SUL/Cruzeiro do Sul, AC RS	5	4C	10 28	NPA NPA	
SBCY	CUIABÁ/Marechal Rondon, MT I RS	7	4C	17 35	NPA PA1	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
SBCT	CURITIBA/Afonso Pena , PR RS	8	4D	15 33 11 29	PA3 PA2 NPA NPA	
SBFL	FLORIANÓPOLIS/ Hercílio Luz , SC RS	7	4C	14 32 03 21	PA1 NPA NINST NINST	
SBFZ	FORTALEZA/Pinto Martins, CE RS	8	4E	13 31	PA1 NPA	
SBFI	FOZ DO IGUAÇU/ Cataratas, PR RS	7	4D	14 32	PA1 NPA~~T~~	
SBMQ	MACAPÁ/ Alberto Alcolumbre, AP RS	6	4C	08 26	NPA NPA	
SBMO	MACEIO/Zumbi dos Palmares, AL RS	7	4C	12 30	PA1 NPA	
SBEG	MANAUS/Eduardo Gomes, AM RS	9	4D	10 28	PA1 NPA	
SBPP	PONTA PORÃ/Ponta Porã, MS RNS	3	4C	04 22	NPA NPA	
SBPL	PETROLINA/Senador Nilo Coelho, PE RS	6	4E	13 31	NPA NPA	
SBPA	PORTO ALEGRE/Salgado Filho, RS RS	8	~~4D~~4E ~~4E~~	11 29	PA1 NPA	
SBRF	RECIFE/Guararapes–Gilberto Freyre, PE RS	9	4E	18 36	PA1 NPA	
SBGL	RIO DE JANEIRO/Galeão-Antônio Carlos Jobim, RJ RS	10	4E 4E	10 28 15 33	PA2 PA1 PA1 NPA	
SBSV	SALVADOR/Deputado Luis Eduardo Magalhães, BA RS	8	4E	10 28 17 35	PA1 PA1 NINST NINST	
SBSN	SANTARÉM/Maestro Wilson Fonseca, PA AS	6	4D	10 28	PA1 NPA	
SBSL	SÃO LUÍS/Marechal Cunha Machado, MA AS	7	4D	06 24 09 27	PA1 NPA NINST NINST	
SBSG	SAO GONCALO DO AMARANTE~~S~~/SAO GONCZALO DO AMARANTE, RN RS	9	4E	12 30	PA1 NPA	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
SBGR	SÃO PAULO/Guarulhos-Governador André Franco Montoro, SP RS	10	4E 4E	09R 27L 09L 27R	PA3 PA1 PA2 PA1	
SBTT	TABATINGA/Tabatinga, AM RS	5	4C	12 30	NPA NPA	
SBUG	URUGUAIANA/Rubem Berta, RS RS	3	3C	09 27 04 22	NINST NPA NINST NINST	
CAYMAN ISLANDS (United Kingdom)						
MWCB	CAYMAN BRAC/Gerrard Smith Intl RS	3	4C	09 27	NINST NINST	
MWCR	GEORGETOWN/Owen Roberts Intl RS	8	4E	08 26	NPA NPA	
CHILE						
SCFA	ANTOFAGASTA/ AP. Cerro Moreno AS	6	4D	19 01	NPA NPA	
SCAR	ARICA/ AP. Chacalluta RS	6	4D	02 20	NPA NINST	
SCIE	CONCEPCIÓN/ AP. Altn. Carriel Sur AS	7	4D	02 20	PA1 NPA	
SCDA	IQUIQUE/ AP. Diego Aracena RS	6	4D	19 01	PA1 NPA	
SCTE	PUERTO MONTT/ AP. El Tepual RS	6	4D	17 35	NPA PA1	
SCCI	PUNTA ARENAS/ AP. Pdte. Carlos Ibañez del Campo AS	6	4D 4D 3B	07 25 12 30 01 19	NPA PA1 NPA NPA NINST NPA	
SCEL	SANTIAGO/ AP. Arturo Merino Benítez RS	9	4E 4E	17R 35L 17L 35R	PA1 NPA PA1 NPA	
SCIP	ISLA DE PASCUA / AP Mataveri RS	8	4D	10 28	PA1 NPA	
COLOMBIA						
SKBQ	BARRANQUILLA/Ernesto Cortissoz/Atlantico RS	7	4E	05 23	PA1 NINST	
SKBO	Bogotá /Eldorado/Distrito Capital RS	10	4E 4E	13L 31R 13R 31L	PA1 NINST PA2 NINST	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
SKBG	BUCARAMANGA/Palonegro RS	6	4C	17 35	PA1 NINST	
SKCL	CALI/Alfonso Bonilla Aragón/Valle RS	7	4D	01 19	PA1 NINST	
SKCG	CARTAGENA/Rafael Nuñez/Bolívar RS	7	4D	01 19	NINST NPA	
SKCC	CUCUTA/Camilo Daza/Norte de Santander RNS & AS	7	4C 4C	16 34 02 20	PA1 NINST NINST NINST	
SKLT	LETICIA/Alfredo Vásquez Cobo/Amazonas RNS & AS	6	4C	03 21	PA1 NINST	
SKPE	PEREIRA/Matecaña RS	7	4C	08 26	NPA NINST	
SKRG	RIONEGRO/José María Córdoba/Antioquia RS	8	4D	18 36	PA1 NINST	
SKSP	SAN ANDRÉS/Gustavo Rojas Pinilla/San Andrés RS	7	4C	06 24	NPA NINST	
SKSM	SANTA MARTA/Simón Bolívar RS	6	3C	01 19	NPA NINST	
COSTA RICA						
MROC	ALAJUELA/Juan Santamaría Intl. RS	9	4E	07 25	PA1 NINST	
MRLB	LIBERIA/Daniel Oduber Quirós RNS & AS	7	4D	07 25	PA1 NINST	
MRLM	LIMÓN/Limón Intl RG	6	3C	14 32	NPA NINST	
MRPV	PAVAS/Tobías Bolaños Intl. RG	4	2B	09 27	NINST NINST	
CUBA						
MUCM	CAMAGUEY/Ignacio Agramonte RS	8	4D	07 25	NPA NPA	
MUCL	CAYO LARGO DEL SUR/Vilo Acuña RS	9	4E	12 30	NPA NPA	
MUCC	CAYO COCO/Jardines del Rey RS	9	4E	08 26	PA1 NPA	
MUCF	CIENFUEGOS/Jaime González RS	6	4C	02 20	NPA NPA	
MUHA	HABANA/José Martí RS	9	4E	06 24	PA1 NPA	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
MUHG	HOLGUÍN/Frank País RS	9	4E	05 23	PA1 NPA	
MUMZ	Manzanillo/Sierra Maestra RS	6	4C	08 26	NPA NPA	
MUSC	Santa Clara/Abel Santamaría RS	8	4D	08 26	NPA NPA	
MUCU	SANTIAGO DE CUBA/ Antonio Maceo RS	8	4E	10 28	NPA NPA	
MUVR	VARADERO/Juan Gualberto Gómez RS	9	4E	06 24	PA1 NPA	
CURACAO (Kingdom of Netherlands)						
TNCC	WILLEMSTAD/Hato, Curaçao I. RS	9	4E	11 29	PA1 NPA	
DOMINICA						
TDPD	MARIGOT/Melville Hall International Airport RS	5	3C	09 27	NINST NINST	
TDPR	ROSEAU/Canefield Intl. RS	3	1B	01 19	NINST NINST	
DOMINICAN REPUBLIC						
MDBH	BARAHONA/Arpto. Internacional María Montes RS	9	4E	12 30	NPA NPA	
MDLR	LA ROMANA/Casa de Campo Intl. RS	7	4C	12 30	NPA NPA	
MDPP	PUERTO PLATA/ Gregorio Luperón Intl RS	9	4E	08 26	NPA NPA	
MDPC	PUNTA CANA/Punta Cana Intl RS	9	4E	09 27	NPA NPA	
MDST	SANTIAGO/Cibao Intl RS	4	2C	11 29	PA1 NPA	
MDSD	SANTO DOMINGO/Jose Francisco Peña Gomez Intl RS	9	4E	17 35	PA1 NPA	
MDCY	SAMANA/El Catey Intl. RS	8	4D	07 25	NPA NPA	
MDJB	HIGUERO/Dr. Joaquín Balaguer Intl. RS	6	3C	01 19	NPA NPA	
ECUADOR						
SEGU	GUAYAQUIL/José Joaquín Olmedo RS	9	4E	03 21	NPA PA1	
SELT	LATACUNGA/Cotopaxi RNS & AS	8	4E	19 01	PA1 NPA	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
SEMT	MANTA/Eloy Alfaro RS	8	4E	06 24	-NPA PA1	
SEQM	QUITO/Mariscal Sucre RS	9	4E	18 36	NPA PA1	
EL SALVADOR						
MSLP	SAN SALVADOR/ Aeropuerto Intl. El Salvador RS	8	4D	07 25	PA1 NPA	
MSSS	SAN SALVADOR/ Ilopango Intl RG	4	3C	15 33	NPA NINST	
FRENCH ANTILLES (France)						
TFFF	FORT-DE-FRANCE/Le Lamentin, Martinique RS	9	4E	09 27	PA1 NPA	
TFFR	POINTE-À-PITRE/Le Raizet, Guadeloupe RS	9	4E	11 29	PA1 NPA	
TFFJ	SAINT BARTHELEMY/ Saint Barthelemy, Guadeloupe RS	3	1B	10 28	NINST NINST	
TFFG	SAINT MARTIN/Grand Case, Guadeloupe RS	4	2C	12 30	NINST NINST	
FRENCH GUIANA (France)						
SOCA	CAYENNE/Rochambeau RS	9	4E	08 26	PA1 NPA	
GRENADA						
TGPZ	LAURISTON / Carriacou I. RS	3	1B	09 27	NINST NINST	
TGPY	SAINT GEORGES /Maurice Bishop Intl. RS	9	4E	10 28	PA1 NPA	
GUATEMALA						
MGMM	SANTA HELENA/Mundo Maya Intl. RG &AS	5	4D	10 28	PA NPA	
MGGT	GUATEMALA/La Aurora RS	8	4E	01 19	PA1 NPA	
MGPB	PUERTO BARRIOS/ Puerto Barrios RG & AS	6	3C	12 30	NINST NINST	
MGSJ	SAN JOSÉ/ Puerto de San José RG & AS	6	4C	15 33	NPA NPA	
GUYANA						
SYCJ	Georgetown /Cheddi Jagan Int'l Airport RS	10	4E	06 24	PA1 NPA	
SYEC~~SYGO~~ Correia	Georgetown/~~Ogle~~ Eugene F. International Airport RS	5	3C	07 25	NPA NPA	
HAITI						
MTCH	CAP HAITIEN/Cap Haitien Intl RS	4	3C	05 23	NINST NPA	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
MTPP	PORT-AU-PRINCE/Port-au-Prince Intl RS	9	4E	09 27	PA1 NINST	
HONDURAS						
MHLC	LA CEIBA/Goloson Intl RS	5	3C	06 24	NPA NINST	
MHRO	ROATÁN/Juan Manuel Gálvez Intl. RS	6	4C	06 24	NPA NPA	
MHLM Intl.	SAN PEDRO SULA/Ramón Villeda Morales RS	6	4C	03 21	NINST PA1	
MHTG	TEGUCIGALPA/Toncontín Intl RS	7	4D	01 19	PA1 NPA	
JAMAICA						
MKJP	KINGSTON/Norman Manley Intl RS	9	4E	12 30	PA1 NPA	
MKJS	MONTEGO BAY/Sangster Intl RS	9	4E	07 25	PA1 NPA	
MKBS	OCHO RIOS/Ian Fleming Intl. RG	3	2B	O9 27	NINST NINST	
MEXICO						
MMAA	ACAPULCO/Gral. Juan N. Alvarez Intl. RS	6	4C	10 28	PA1 PA1	
MMAS	AGUASCALIENTES/Aeropuerto Jesús Terán RS	6	4D	17 35	NPA NPA	
MMBT	BAHÍAS DE HUATULCO/Bahías de Huatulco RS	7	4D	07 25	NPA NPA	
MMSL	CABO SAN LUCAS/Cabo San Lucas RNS	4	4D	11 29	NPA NPA	
MMCP	CAMPECHE/Ing. Alberto Acuña Ongay RG	6	4C	16 34	NPA NPA	
MMUN	CANCÚN/Cancún Intl. RS	9	4E 4E	12R 30L 12L 30R	PA1 NPA PA1 NPA	
MMCM	CHETUMAL/Chetumal Intl. RS	6	4C	10 28	NPA NPA	
MMCT	CHICHEN-ITZA/Chichen Itza RS	4	4D	10 28	NPA NPA	
MMCU	CHIHUAHUA/General de División y Piloto Aviador Roberto Fierro Villalobos RS	6	4D	18L 36R	NPA PA1	
MMMC	CIUDAD ACUÑA/Cuidad Acuña Intl. RG	4	3C	13 31	NINST NINST	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
MMCE	CIUDAD DEL CARMEN/Ciudad del Carmen Intl RS	6	4C	13 31	NPA NPA	
MMCN	CIUDAD OBREGON/Ciudad Obregon AS	6	4C	13 31	NPA NPA	
MMCV	CIUDAD VICTORIA/General Pedro José Méndez AS	6	4C	15 33	NPA NPA	
MMCS	CIUDAD JUÁREZ/Abraham González Intl. RS	7	4D	03 21	NPA NPA	
MMCZ	COZUMEL/Cozumel Intl. RS	7	4D	11 29	NPA NPA	
MMCB	CUERNAVACA/General Mariano Matamoros RS	5	4C	02 20	NPA NPA	
MMCL	CULIACÁN/Culiacán RS	7	4C	02 20	NPA NPA	
MMDO	DURANGO/Durango RS	6	4D	03 21	NPA NPA	
MMGL	GUADALAJARA/Miguel Hidalgo Costilla Intl. RS	7	4E	10 28	PA1 PA1	
MMGM	GUAYMAS/Gral. José María Yáñez Intl. RS	4	3C	02 20	NPA NPA	
MMHO	HERMOSILLO/Aeropuerto Internacional General Ignacio Pesqueira García RS	7	4D	05 23	NPA NPA	
MMZH	IXTAPA-ZIHUATANEJO/ Ixtapa-Zihuatanejo Intl. RS	7	4D	08 26	NPA NPA	
MMLP	LA PAZ/Gral. Manuel Márquez de León Intl. RS	7	4C	18 36	PA1 NPA	
MMLO	LEÓN/Aeropuerto Internacional de Guanajuato RS	7	4D	13 31	NPA NPA	
MMLT	LORETO/Loreto Intl. RS	6	4D	16 34	NPA NPA	
MMLM	LOS MOCHIS/Del Valle del Fuerte RS	6	4C	09 27	NPA NPA	
MMZO	MANZANILLO/Playa de Oro Intl. RS	7	4D	10 28	NPA NPA	
MMMA	MATAMOROS/Matamoros Intl. RG & AS	6	4C	15 33	NPA NPA	
MMMZ	MAZATLAN/Gral. Rafael Buelna Intl. RS	7	4D	08 26	NPA PA1	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
MMMD	MERIDA/Lic. Manuel Crescencio Rejón Intl. RS	7	4E 4E	10 28 17 35	PA1 NPA NPA NPA	
MMML Intl.	MEXICALI/Gral. Rodolfo Sánchez Taboada RG	7	4D	10 28	NPA NPA	
MMMX Juárez,	MÉXICO/Aeropuerto Internacional Benito Ciudad de México RS	9	4E 4E	05R 23L 05L 23R	PA1 PA1 NPA NPA	
MMMT	MINATITLAN/Minatitlan RS	6	4D	01 19	NPA NPA	
MMMV	MONCLOVA/Venustiano Carranza RS	4	4C	06 24	NPA	
MMAN	MONTERREY/Del Norte Intl. RG & AS	6	4C	02 20	NINST PA1	
MMMY	MONTERREY/Gral. Mariano Escobedo Intl. RS	7	4D	11 29	NPA PA1	
MMMM	MORELIA/Gral. Francisco J. Mujica Intl. RS	6	4D	05 23	NPA NPA	
MMNG	NOGALES/Nogales Intl. RG	3	2C	16 34	NINST NINST	
MMNL	NUEVO LAREDO/ Aeropuerto Internacional Quetzalcóatl RG	6	4C	14 32	NPA NPA	
MMOX	OAXACA/Xoxocotlan RS	6	4D	01 19	NPA NPA	
MMPQ	PALENQUE/Palenque RS	4	4C	09 27	NPA	
MMPG	PIEDRAS NEGRAS/ Piedras Negras Intl. RG	4	3C	12 30	NINST NINST	
MMPB	PUEBLA/Hermanos Serdan RS	6	4D	17 35	NPA NPA	
MMPS	PUERTO ESCONDIDO/Puerto Escondido AS	6	4C	09 27	NPA NPA	
MMPE	PUERTO PEÑASCO/Aeropuerto del Mar de Cortes RS	6	4C	18 36	NPA	
MMPR Ordaz	PUERTO VALLARTA/ Lic. Gustavo Diaz Intl. RS	7	4E	04 22	NPA NPA	
MMQT	QUERETARO/Intercontinental de Querétaro RS	8	4D	09 27	NPA NPA	
MMRX	REYNOSA/Gral. Lucio Blanco Intl. RG	6	4C	13 31	NINST NPA	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
MMIO	SALTILLO/Plan de Guadalupe RS	6	4E	17 35	PA1 PA1	
MMSF	SAN FELIPE/San Felipe Intl. RG	1	3B	13 31	NINST NINST	
MMSD	SAN JOSÉ DEL CABO/ Aeropuerto Internacional Los Cabos RS	6	4D	16 34	NPA NPA	
MMSP	SAN LUIS POTOSI/Ponciano Arriaga RS	6	4C	14 32	PA1 NPA	
MMTM	TAMPICO/Gral. Francisco Javier Mina Intl. RS	7	4C	13 31	PA1 NPA	
MMTP	TAPACHULA/Tapachula Intl RS	6	4D	05 23	NPA NPA	
MMEP	TEPIC/Tepic Intl RS	6	3C	02 20	NPA NPA	
MMTJ	TIJUANA/Gral. Abelardo L. Rodríguez Intl. RS	7	4D	09 27	PA1 NPA	
MMTO	TOLUCA/Jose María Morelos y Pavón RNS	8	4D	15 33	PA3 NPA	
MMTC	TORREÓN/Francisco Sarabia RS	6	4C	12 30	NPA NPA	
MMTG	TUXTLA GUTIERREZ/Angel Albino Corzo RS	6	4D	14 32	NPA PA1	
MMPN	URUAPAN/General Ignacio López Rayón RS	6	4C	02 20	NPA	
MMVR	VERACRUZ/Gral. Heriberto Jara Intl. RS	7	4D	18 36	NPA NPA	
MMVA	VILLAHERMOSA/Capitán P.A. Carlos Rovirosa RS	7	4D	08 26	PA1 NPA	
MMZC	ZACATECAS/Aeropuerto General Leobardo C. Ruiz Intl. RS	6	4D	02 20	NPA NPA	
MONTSERRAT (United Kingdom)						
TRPG	GERALD´S / John A. Osborne RS	3	1B	10 28	NINST NINST	
NETHERLANDS (Netherlands)						
TNCB	KRALENDIJK/Flamingo, Bonaire I. RS	9	4E	10 28	PA1 NINST	
TNCE	ORANJESTAD/F.D. Roosevelt, Saint Eustatius I. RS	3	1B	06 24	NINST NINST	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
TNCS	THE BOTTOM/Juancho E. Yrausquin, Saba	3	1B	12 30	VFR	RESTRICTED VFR, not open for public use. Operations are restricted only to specific operators, heli emergency flights, Coast guard and Dutch military flights
NICARAGUA						
MNMG	MANAGUA/Augusto César Sandino Intl RS	7	4D	09 27	NPA PA1	
PANAMA						
MPBO	BOCAS DEL TORO/~~Bocas del Toro~~José Ezequiel Hall R~~G~~S & AS	4	3B	08 26	NPA NPA	
MPDA	DAVID/Enrique Malek RS & AS	7	4D	04 22	NPA NINST	
MPMG	PANAMÁ/Marcos A. Gelabert R~~SG & AS~~	6	3C	~~1918~~ ~~0136~~	NINST NINST	
MPPA	PANAMA/Panamá Pacifico RS & AS	7	4D	18 36	NINST NPA	
MPSM	PANAMA/Cap. Scarlett Martínez RNS & AS	7	4D	17 35	NPA PA1	
MPTO	PANAMÁ/Tocumen Intl RS	9	4E 4E	03R 21L 03L 21R	PA1 NPA NPA NPA	
PARAGUAY						
SGAS	LUQUE/Silvio Pettirossi Intl. RS	9	~~4D~~4E	02 20	NPA PA1	
SGES	MINGA GUAZÚ/Guaraní Intl. RS	9	4E	05 23	NPA PA1	
PERU						
SPQU	AREQUIPA/INTL Alfredo Rodríquez Ballón AS	7	4D	09 27	PA1 NINST	
SPHI	CHICLAYO/ INTL Capitán FAP José Abelardo Quinoñes Gonzalez; Gran General del Aire del Peru AS	8	4D	01 19	PA1 NINST	
SPZO	Cusco/INTL Teniente FAP Alejandro Velazco Astete RS	7	4D	10 28	NINST NPA	
SPQT	IQUITOS/ INTL Coronel FAP Francisco Secada Vignetta RS	8	4D	06 24	PA1 NINST	
SPJC	LIMA-CALLAO/ INTL Jorge Chávez RS	9	4E	15 33	PA2 NPA	
SPSO	PISCO/INTL Pisco AS	9	4E	04 22	NINST PA1	

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
SPTN	TACNA/ INTL Coronel FAP Carlos Ciriani Santa Rosa	7	4C	02 20	PA1 NINST	
	RG					
SPRU	TRUJILLO/ INTL Capitán FAP Carlos Martínez de Pinillos	7	4C	01 19	PA1 NINST	
	AS					
PUERTO RICO (United States)						
TJBQ	AGUADILLA/Rafael Hernández Intl	8	4D	08 26	PA1 NINST	
	RS					
TJFA	FAJARDO/Diego Jiménez Torres	2	1A	08 26	NINST NINST	
	RS					
TJPS	PONCE/Ponce-Mercedita	5	3C	12 30	NINST NPA	
	AS					
TJSJ	SAN JUAN/Luis Muñoz Marín Intl	9	4E	08 26	PA1 NPA	
	RS		4D	10 28	PA1 NINST	
TJVQ	VIEQUES/Antonio Rivera	2	1A	09 27	NINST NINST	
	RS					
SAINT KITTS AND NEVIS						
TKPK	BASSETERRE/Robert L. Bradshaw, Saint Kitts I.	7	4C	07 25	NPA NINST	
	RS					
TKPN	CHARLESTOWN/Newcastle Nevis I.	6	4C	10 28	NINST NINST	
	RS					
SAINT LUCIA						
TLPC	CASTRIES/George F. L. Charles	6	4C	09 27	NINST NINST	
	RS					
TLPL	VIEUX-FORT/Hewanorra Intl	9	4E	10 28	PA1 NPA	
	RS					
SAINT VINCENT AND THE GRENADINES						
TVSB	BEQUIA/J.F. Mitchell	3	2C	12 30	NPA NINST	
	RS					
TVSC	CANOUAN/Canouan	3	2C	13 31	NPA NINST	
	RS					
TVSV	KINGSTOWN/E.T. Joshua	5	3C	07 25	NPA NINST	
	RS					
TVSM	MUSTIQUE/Mustique	2	1B	09 27	NINST NINST	
	RNS					
TVSU	UNION ISLAND/Union Island	2	1B	08 26	NINST NINST	
	RS					
SINT MAARTEN:						

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
TNCM I.	PHILIPSBURG/Princess Juliana, Sint Maarten RS	9	4E	09 27	PA1 NINST	
SURINAME						
~~SMZO~~	~~PARAMARIBO/Zorg en Hoop~~ ~~RG~~	~~3~~	~~1B~~	~~11~~ ~~29~~	~~NINST~~ ~~NINST~~	
SMJP	ZANDERY/Johan Adolf Pengel Intl RS	9	4E	11 29	PA1 NPA	
TRINIDAD AND TOBAGO						
TTPP	PORT OF SPAIN/Piarco Intl, Trinidad I. RS	9	4E	10 28	PA1 NINST	
TTCP Tobago I.	SCARBOROUGH/Crown Point, RS	8	4D	11 29	PA1 NINST	
TURKS AND CAICOS ISLANDS (United Kingdom)						
MBGT	GRAND TURK/Grand Turk Intl RS	5	4C	11 29	NPA NINST	
MBPV	PROVIDENCIALES/ Providenciales Intl RS	7	4C	10 28	NPA NINST	
MBSC	SOUTH CAICOS/South Caicos Intl RS	3	3C	11 29	NINST NINST	
URUGUAY						
SULS	MALDONADO/Intl. C/C, Carlos A. Curbelo “Laguna del Sauce” RS	7	4C 3C	08 26 01 19	NPA NPA NPA NPA	
SUMU Cesáreo	MONTEVIDEO/ Intl. de Carrasco “Gral. L. Berisso” RS	9	4E 4E	06 24 01 19	NPA PA1 NPA PA1	
VENEZUELA						
SVBC Intl	BARCELONA/Gral. José Antonio Anzóategui RS	9	4C	15 33 02 20	PA1 NINST NINST NPA	
SVMI	MAIQUETIA/Simón Bolívar Intl, RS	9	4E	10 28 09 27	PA1 NPA NINST NPA	
SVMC	MARACAIBO/La Chinita Intl RS	9	4E	03 21	PA1 NPA	
SVMG	MARGARITA/Intl Del Caribe Gral. Santiago Marino RS	9	4E	09 27	PA1 NPA	
~~SVMT~~	~~MATURIN/General José Tadeo Monagas Intl.~~ ~~RS~~	~~7~~	~~4C~~	~~08~~ ~~26~~	~~NPA~~ ~~NPA~~	

Commented [SF2]: Este aerodromo fue solicitado incluir por VEN, pero no han mandado formalmente la informacion y falta la informacion de MET.

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City/Aerodrome/Designation		RFF Category	Physical Characteristics			Remarks
			RC	Rwy No	Rwy Type	
1		2	3	4	5	6
SVJC	PARAGUANA/Josefa Camejo Intl RS	7	4C	09 27	NPA NPA	
SVSA	SAN ANTONIO DEL TÁCHIRA/Gral. Juan Vicente Gómez Intl RNS~~RG~~	7	3D	17 35	NPA NINST	
SVVA	VALENCIA/Arturo Michelena Intl RS	8	4D	10 28	NPA NPA	
SVBM	BARQUISIMETO/Gral. Jacinto Lara Intl. RS	7	4C	09 27	PA1 NPA	
SVPR	PUERTO ORDAZ/Gral. Manual Carlos Piar Intl RS	7	4C	08 26	NPA NPA	
SVSO	SANTO DOMINGO DEL TACHIRA/May. Buenaventura Vivas Intl. RNS~~RG~~	7	4C	12 30	NPA NPA	
SVCS	CARACAS/Oscar Machado Zuloaga Intl. RNS~~RG~~	4	3B	10 28	NPA~~PA1~~ NPA	Only for general aviation flights
VIRGIN ISLANDS (United Kingdom)						
TUPJ	ROADTOWN/Beef Island RS	4	3C	07 25	NPA NPA	
TUPW	VIRGIN GORDA I./Virgin Gorda RS	2	1B	03 21	NINST NINST	
VIRGIN ISLANDS (United States)						
TISX	CHRISTIANSTED/Henry E. Rohlsen, St. Croix RS	7	4D	09 27	PA1 NPA	
TIST	SAINT THOMAS/Cyril E. King RS	7	4D	10 28	PA1 NINST	

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CAR/SAM ANP, VOLUME II

PART III – COMMUNICATIONS, NAVIGATION AND SURVEILLANCE (CNS)

1. INTRODUCTION

1.1 This part of the Caribbean and South American ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to communication, navigation and surveillance (CNS). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of CNS facilities and services within a specified area in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300); and mandatory requirements related to CNS facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

Communications

Aeronautical Fixed Service (AFS)

2.1 The aeronautical fixed service should comprise the following systems and applications that are used for ground-ground (i.e. point-to-point and/or point-to-multipoint) communications in the international aeronautical telecommunication service:

a) ATS direct speech circuits and networks;

b) meteorological operational circuits, networks and broadcast systems, including World Area Forecast System – Internet File Service (WIFS) and/or Satellite Distribution System for Information Relating to Air Navigation (SADIS);

c) the aeronautical fixed telecommunications network (AFTN);

d) the common ICAO data interchange network (CIDIN);

e) the air traffic services (ATS) message handling services (AMHS); and

f) the inter-centre communications (ICC).

2.2 To meet the data communication requirements, a uniform high-grade aeronautical network should be provided, based on the aeronautical telecommunication network (ATN), taking into account the existence and continuation of current networks.

2.3 Contingency procedures should be in place to ensure that, in case of a communication centre breakdown, all the parties concerned are promptly informed of the prevailing situation. All possible arrangements should be made to ensure that, in case of breakdown of a communications centre or circuit, at least high-priority traffic continues to be handled by appropriate means.

2.4 AFS planning should permit flexibility in detailed development and implementation. The required AFTN Stations and Centres are listed in the AFTN Plan in Table CNS II-1.

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The Aeronautical Telecommunication Network (ATN)

2.5 The ATN should be able to support:

a) applications carried by the existing networks;

b) gateways enabling inter-operation with existing networks; and

c) ground-ground communications traffic associated with air-ground data link applications.

2.6 The ATN should make optimum use of dedicated bilateral/multilateral aeronautical links and other communication means commensurate with the operational Quality of Service (QoS) requirements.

2.7 The implementation of the ATN should take into account the need for cost-effective evolution in terms of network capacity, requirements and time-frame and allow for a progressive transition from existing communication networks and services to a uniform, harmonised and integrated communications infrastructure, capable of supporting the implementation of future aeronautical services such as Flight and Flow Information in a Collaborative Environment (F-FICE), System-Wide Information Management (SWIM) applications, etc.

2.8 In case means other than dedicated bilateral links are used by the ATN, States should ensure that service level agreements (SLA) are met in terms of implementation priority, high availability, priority in restoration of service and appropriate levels of security.

2.9 The ATN should provide for interregional connections to support data exchange and mobile routing within the global ATN.

2.10 In planning the ATN, provisions should be made, where required, for interfacing with other international networks. The Required ATN Infrastructure Routing Plan is described under **Table CNS II-2**.

Network services

2.11 The Internet Society (ISOC) communications standards for the Internet Protocol Suite (IPS) should be used for the implementation of AMHS.

2.12 The migration from legacy bit-oriented protocols such as X.25 Protocol suite to IPS should be planned.

2.13 The migration of international or sub-regional ground networks to the ATN based on Internet Protocol (IP) to support AFS communication requirements, while reducing costs, should be planned.

2.14 States should ensure that the solutions provided for the implementation of the ATN meet the air traffic management and aeronautical fixed service requirements. Such requirements should consist of:

a) Performance requirements: availability, continuity, integrity, monitoring and alerting criteria per data flow. In the case where a required communication performance (RCP) is globally prescribed, requirements derived from RCP should be stated;

b) Interoperability requirements;

c) Safety and security requirements, duly derived after the identification of operational hazards and threats, and allocation of objectives; and

d) Implementation process requirements (creation, test, migration, upgrades, priority in restoration of service, termination).

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Network management

2.15 An ICAO centralised off-line network management service is provided to participating AFTN/ AMHS centres in the Caribbean and South American Regions under the ATS Messaging Centre (AMC).

2.16 In the case of integrated communications services procured and shared by several States, organizational provisions should allow for the planning and performing of the management of technical performance, network configuration, fault, security, cost division/allocation, contract, orders and payment.

Specific air traffic management (ATM) requirements

2.17 Where ATS speech and data communication links between any two points are provided, the engineering arrangements should be such as to avoid the simultaneous loss of both circuits. The required ATS direct speech circuits plan is detailed under **Table CNS II-3**.

2.18 Special provisions should be made to ensure a rapid restoration of ATS speech circuits in case of outage, as derived from the performance and safety requirements.

2.19 Data circuits between ATS systems should provide for both high capacity and message integrity.

2.20 The Inter-Centre Communication (ICC), consisting of ATS Inter-facility Data Communication (AIDC) application and the Online Data Interchange (OLDI) application, should be used for automated exchange of flight data between ATS units to enhance the overall safety of the ATM operation and increase airspace capacity.

2.21 Where Voice over IP is planned or implemented between ATS units for voice communications, it should meet the ATS requirements. When data and voice are multiplexed, particular attention should be paid to the achievement of the ATM performance and safety requirements.

Specific meteorological (MET) requirements

2.22 The increasing use of the GRIB (Gridded Binary or General Regularly-distributed Information in Binary form) and BUFR (Binary Universal Form for the Representation of meteorological data) code forms for the dissemination of the upper wind and temperature and significant weather forecasts and the planned transition to digital form using extensible markup language (XML)/geography markup language (GML) for the dissemination of OPMET data should be taken into account in the planning process of the ATN.

2.23 In planning the ATN, account should be taken of changes in the current pattern of distribution of meteorological information resulting from the increasing number of long-range direct flights and the trend towards centralized flight planning.

Specific aeronautical information management (AIM) requirements

2.24 The aeronautical fixed service should meet the requirements to support efficient provision of aeronautical information services through appropriate connections to area control centres (ACCs), flight information centres (FICs), aerodromes and heliports at which an information service is established.

Aeronautical Mobile Service (AMS)

2.25 To meet the air-ground data communication requirements, a high-grade aeronautical network should be provided based on the ATN, recognising that other technologies may be used as part of the transition. The network needs to integrate the various data links in a seamless fashion and provide for end-to-end communications between airborne and ground-based facilities.

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2.26 Whenever required, use of suitable techniques on VHF or higher frequencies should be made. The required HF network designators applicable for the Caribbean and South American Regions are listed in **Table CNS II-4**.

2.27 Aerodromes having a significant volume of International General Aviation (IGA) traffic should also be provided with appropriate air-ground communication channels.

Air-Ground Data Link Communications

2.28 A Strategy for the harmonised implementation of the data link communications in the Caribbean and South American Regions should be developed based on the Global Operational Data Link Document (GOLD) adopted by ICAO Regions and the Aviation System Block Upgrade (ASBU) methodology.

2.29 Where applicable, controller-pilot data link communications (CPDLC), based on ATN VDL data link Mode 2 (VDL2) and/or FANS-1/A, should be implemented for air-ground data link communications.

2.30 Partial or divergent aircraft data link evolutions that result in excluding messages from aircraft systems should not be pursued. Interim steps or phases toward full implementation of the common technical definition in ground systems should only be pursued on a regional basis, after coordination between all States concerned.

2.31 Harmonization of operational procedures for implementation of the above packages is essential. States, Planning and Implementation Regional Groups (PIRGs) and air navigation services providers should adopt common procedures to support seamless ATS provision across FIR boundaries, rather than each State or Region developing and promulgating unique procedures for common functions.

Required Communication Performance (RCP)

2.32 The Required Communication Performance (RCP) concept characterizing the performance required for communication capabilities that support ATM functions without reference to any specific technology should be applied wherever possible.

2.33 States should determine, prescribe and monitor the implementation of the RCP in line with the provisions laid down in the *ICAO Manual on Required Communication Performance* (Doc 9869).

Navigation

Navigation Infrastructure

2.34 The navigation infrastructure should meet the requirements for all phases of flight from take-off to final approach and landing.

Note: Annex 10 to the Convention on International Civil Aviation—Aeronautical Telecommunications, Volume I — Radio Navigation Aids, Attachment B, provides the strategy for introduction and application of non-visual aids to approach and landing.

2.35 The CAR and SAM PBN Regional Roadmap/Plans provides guidance to air navigation service providers, airspace operators and users, regulators, and international organizations, on the expected evolution of the regional air navigation system in order to allow planning of airspace changes, enabling ATM systems and aircraft equipage. It takes due account of the operational environment of the Caribbean and South American Regions.

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PBN Transition Strategy

2.36 During transition to performance-based navigation (PBN), sufficient ground infrastructure for conventional navigation systems should remain available. Before existing ground infrastructure is considered for removal, users should be given reasonable transition time to allow them to equip appropriately to attain a performance level equivalent to PBN. States should approach removal of existing ground infrastructure with caution to ensure that safety is not compromised. This should be guaranteed by conducting safety assessments and consultations with the users.

Use of specific navigation aids

2.37 Where, within a given airspace, specific groups of users have been authorized by the competent authorities to use special aids for navigation. The respective ground facilities should be located and aligned so as to provide for full compatibility of navigational guidance with that derived from the SARPs.

2.38 States should ensure and oversee that service providers take appropriate corrective measures promptly whenever required by a significant degradation in the accuracy of navigation aids (either space based or ground based or both) is detected.

Surveillance

2.40 An important element of modern air navigation infrastructure required to manage safely increasing levels and complexity of air traffic is aeronautical surveillance systems.

2.41 When operating Mode S radars, States should coordinate with their corresponding Regional ICAO Office the assignment of their corresponding interrogator identifier (II) codes and surveillance identifier (SI) codes, particularly where areas of overlapping coverage will occur.

Frequency Management

Aeronautical Mobile Service (AMS)

2.42 Frequencies should be assigned to all VHF aeronautical mobile service (AMS) facilities in accordance with the principles laid out in Annex 10, Volume V and *ICAO Handbook on Radio Frequency Spectrum Requirements for Civil Aviation* (Doc 9718) Volumes I and II, and take into account:

a) agreed geographical separation criteria based on 25 kHz or 8.33 kHz interleaving between channels;

b) agreed geographical separation criteria for the implementation of VDL services;

c) the need for maximum economy in frequency demands and in radio spectrum utilization; and

d) a deployment of frequencies which ensures that international services are planned to be free of interference from other services using the same band.

2.43 The priority order to be followed in the assignment of frequencies to service is:

a) ATS channels serving international services (ACC, APP, TWR, FIS);

b) ATS channels serving national purposes;

c) channels serving international VOLMET services;

d) channels serving ATIS and PAR; and

e) channels used for other than ATS purposes.

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2.44 The criteria used for frequency assignment planning for VHF AMS facilities serving international requirements should, to the extent practicable, also be used to satisfy the need for national VHF AMS facilities.

2.45 Special provisions should be made, by agreement between the States concerned, for the sharing and the application of reduced protection of non-ATS frequencies in the national sub-bands, so as to obtain a more economical use of the available frequency spectrum consistent with operational requirements.

2.46 States should ensure that no air/ground frequency is utilized outside its designated operational coverage and that the stated operational requirements for coverage of a given frequency can be met for the transmission sites concerned, taking into account terrain configuration.

Radio navigation aids for Aeronautical Radio Navigation Services (ARNS)

2.47 Frequencies should be assigned to all radio navigation facilities taking into account agreed geographical separation criteria to ILS localizer, VOR and GBAS, X and Y channels to DME, in accordance with the principles laid out in Annex 10, Volume V and *ICAO Handbook on Radio Frequency Spectrum Requirements for Civil Aviation* (Doc 9718) Volumes I and II. Also, the need for maximum economy in frequency demands and in radio spectrum utilization and a deployment of frequencies which ensures that international services are planned to be free of interference from other services using the same band, need to be considered.

2.48 The principles used for frequency assignment planning for radio navigation aids serving international requirements should, to the extent possible, also be used to satisfy the needs for national radio aids to navigation.

Support to ICAO Positions for ITU World Radiocommunication Conferences (WRCs)

2.49 Considering the importance and continuous demand of the radio frequency spectrum and for the protection of the current aeronautical spectrum and the allocation of new spectrum for the new services and system to be implemented in civil air navigation, States and international organizations are to support ICAO's position at ITU World Radiocommunication Conferences (WRCs) and in regional and other international activities conducted in preparation for ITU WRCs.

Note: The Handbook on Radio Frequency Spectrum Requirements for Civil Aviation *(Doc 9718) Volume I, contains ICAO policy statements relevant to the aviation requirements for radio frequency spectrum. The handbook is intended to assist States and ICAO in preparing for ITU WRCs.*

3. SPECIFIC REGIONAL REQUIREMENTS

Network services

3.1 In the Caribbean and South American Regions for the implementation of the IP ATN the State and Regional IPv4 addresses are defined in **Table CNS II-5.** The IPv6 addresses shall be defined later.

VHF AMS Communications

3.2 In the planning of the Aeronautical Mobile Service the Caribbean and South American Regions, the following should be taken into account:

a) The Aeronautical Mobile Service and AMSS Plan presented in **Table CNS II-6**
b) the progressive cost-benefit implementation of air-ground data link communications in the Caribbean and South American regions
c) Communications data links, when implemented, should be used for routine air-ground communications. Voice

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d) communications capability should be maintained for emergency purposes at the ATM units;
e) VHF communications, supported by extended range facilities where required, should be used to cover ATS routes to the maximum extent possible;

Navigation

3.3 To permit the transition to PBN, the ground navaids infrastructure to be implemented and later analysed for removal once users are equipped appropriately to attain a performance level equivalent to PBN is defined in **Table CNS II-7**.

Surveillance

3.4 The surveillance systems to be used in the Caribbean and South American Region(s) are:

a) Secondary Surveillance Radars (SSR) Mode A, C and S in terminal and en-route continental airspace;
b) Primary Surveillance Radars (PSR) mainly in terminal airspace;
c) Automatic Dependent Surveillance – Broadcast (ADS-B) and Multilateration (MLAT) in terminal areas;
d) ADS-B and Wide Area Multilateration (WAM) in most of the airspace;
e) Automatic Dependent Surveillance – Contract (ADS-C) in some parts of the oceanic and remote continental airspace.

3.5 Surveillance data exchange is to be considered and the ASTERIX is to be used as the standard format for this exchange. The ASTERIX SAC Code Assignment Plan to the Caribbean and South American Regions is to be applied as shown in **Table CNS II-8**. The required Surveillance Systems applicable for the Caribbean and South American Regions are listed in **Table CNS II- 9.**

Frequency Management

3.6 For VHF frequency allocations for ATS functions in the Caribbean and South American regions, Caribbean and South American States, to the extent possible, should use for VHF frequency assignments the geographical criteria outlined in **Table CNS II-10** and select frequencies from the VHF sub-bands indicated in **Table CNS II-11** for their AM(R)S allocations.

3.7 In coordination with States, VHF frequency channels assignment for planned and operational air-to-ground communications should be recorded and published by the ICAO Regional Offices. List of assigned frequencies for VHF AMS facilities serving international requirements and radio navigation facilities are available as ICAO COM Lists 1, 2 and 3 for the CAR region at the following link: http:// www.icao.int/NACC/Pages/ES/frequency_ES.aspx and for the SAM region at the following link: http://www.icao.int/SAM/Pages/ES/eDocumentsDisplay_ES.aspx?area=CNS.

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TABLE CNS II-1 - AERONAUTICAL FIXED TELECOMMUNICATIONS NETWORK (AFTN) PLAN

EXPLANATION OF THE TABLE

Column

1 The AFTN Centres/Stations of each State are listed alphabetically. Each circuit appears twice in the table. The categories of these facilities are as follows:
M - Main AFTN COM Centre
T - Tributary AFTN COM Centre
S - AFTN Station

2 Category of circuit:

M - Main trunk circuit connecting Main AFTN communication centres.
T - Tributary circuit connecting Main AFTN communication centre and Tributary AFTN Communications Centre.
S - AFTN circuit connecting an AFTN Station to an AFTN Communication Centre.

3 Type of circuit provided:

LTT/a - Landline teletypewriter, analogue (e.g. cable, microwave)
LTT/d - Landline teletypewriter, digital (e.g. cable, microwave)
LDD/a - Landline data circuit, analogue (e.g. cable, microwave)
LDD/d - Landline data circuit, digital (e.g. cable, microwave)
SAT/a/d - Satellite link, with /a for analogue or /d for digital

4 Circuit signalling speed in bits/s.

5 Circuit protocols

6 Data transfer code (syntax):

ITA-2 - International Telegraph Alphabet No. 2 (5-unit Baudot code).
IA-5 - International Alphabet No. 5 (ICAO 7-unit code).
CBI - Code and Byte Independency (ATN compliant).

7 Remarks

CAFSAT – Central Atlantic FIR Satellite Network
CAMSAT – Central American VSAT Digital Network
MEVA - Central Caribbean MEVA Satellite Digital Network
E/CAR - Eastern Caribbean Digital Network
REDDIG - SAM Digital Network
MEVA REDDIG - MEVA REDDIG interconnection

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TABLE CNS II-1 - AERONAUTICAL FIXED TELECOMMUNICATIONS NETWORK (AFTN) PLAN

State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
ANGUILLA						
Anguilla-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
ANTIGUA AND BARBUDA						
Antigua-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
ARGENTINA						
Buenos Aires-M						
Asunción	T	SAT/d	2400	None	IA-5	REDDIG
Brazil	M	SAT/d	2400	None	IA-5	REDDIG
La Paz	T	SAT/d	2400	None	IA-5	REDDIG
Lima	M	SAT/d	2400	None	IA-5	REDDIG
Johannesburg	M	SAT/d	2400	None	IA-5	CAFSAT
Montevideo	T	SAT/d	2400	None	IA-5	REDDIG
Santiago	M	SAT/d	2400	None	IA-5	REDDIG
ARUBA (Kingdom of Netherlands)						
Aruba-S						
United States	S	SAT/d	9600	X.25	IA-5	MEVA
BAHAMAS						
Nassau-S						
United States	S	SAT/d	9600	X.25	IA-5	MEVA
BARBADOS						
Barbados-S						

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State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
BELIZE						
Belize-T						
Centro America	T	SAT/d	1200	None	IA-5	CAMSAT
BERMUDA (United Kingdom)						
Bermuda-S						
United States	S	SAT/d	9600	X.25	IA-5	
BOLIVIA						
La Paz-T						
Buenos Aires	T	SAT/d	2400	None	IA-5	REDDIG
Lima	T	SAT/d	2400	None	IA-5	REDDIG
Brazil	T	SAT/d	2400	None	IA-5	REDDIG
BRAZIL						
Brazil M						
Asunción	T	SAT/d	2400	None	IA-5	REDDIG
Bogota	T	SAT/d	2400	None	IA-5	REDDIG
Buenos Aires	M	SAT/d	2400	None	IA-5	REDDIG
Caracas	M	SAT/d	2400	None	IA-5	REDDIG
Cayenne	T	SAT/d	2400	None	IA-5	REDDIG
Dakar	M	SAT/d	2400	None	IA-5	CAFSAT
Georgetown	S	SAT/d	2400	None	IA-5	REDDIG
La Paz	T	SAT/d	2400	None	IA-5	REDDIG
Lima	M	SAT/ d	2400	None	IA-5	REDDIG
Madrid	M	SAT/d	4800	None	IA-5	CAFSAT
Montevideo	T	SAT/d	2400	None	IA-5	REDDIG
Paramaribo	T	SAT/d	2400	None	IA-5	REDDIG

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State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
United States	M	SAT/ d	9600	None	IA-5	MEVA REDDIG
CAYMAN IS. (United Kingdom)						
Cayman-S						
United States	S	SAT/d	9600	X.25	IA-5	MEVA
CHILE						
Santiago-M						
Brisbane	M					
Buenos Aires	M	SAT/d	2400	None	IA-5	REDDIG
Christchurch	T	SAT/a	50	None	ITA-2	
Lima	M	SAT/d	2400	None	IA-5	REDDIG
COLOMBIA						
Bogotá-T						
Caracas	T	SAT/d	2400	None	IA-5	REDDIG
Guayaquil	T	SAT/d	2400	None	IA-5	REDDIG
Lima	T	SAT/d	2400	None	IA-5	REDDIG
Brazil	T	SAT/d	2400	None	IA-5	REDDIG
Panama	T	SAT/a	1200	None	IA-5	MEVA REDDIG
COSTA RICA						
San José –T						
Centro América	T	SAT/d	1200	None	IA-5	CAMSAT
CUBA						
Habana-T						
United States	T	SAT/d	9600	X.25	IA-5	MEVA

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State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
CURACAO (Kingdom of Netherlands)						
Curacao-T						
United States	T	SAT/d	9600	X.25	IA-5	MEVA
DOMINICA						
Dominica-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
DOMINICAN REPUBLIC						
Santo Domingo-T						
United States	T	SAT/d	9600	X.25	IA-5	MEVA
ECUADOR						
Guayaquil-T						
Bogota	T	SAT/d	2400	None	IA-5	REDDIG
Caracas	T	SAT/d	2400	None	IA-5	REDDIG
Lima	T	SAT/d	2400	None	IA-5	REDDIG
EL SALVADOR						
San Salvador-T						
Centro America	T	SAT/d	1200	None	IA-5	CAMSAT
FRENCH ANTILLES (GUADELOUPE)						
Pointe-a-Pitre-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
FRENCH ANTILLES (MARTINIQUE)						
Fort-de-France-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR

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State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
FRENCH GUIANA						
Cayenne-T						
Brazil	T	SAT/d	2400	None	IA-5	REDDIG
Caracas	T	SAT/d	2400	None	IA-5	REDDIG
GRENADA						
Grenada-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
GUATEMALA						
Guatemala-T						
Centro America	T	SAT/d	1200	None	IA-5	CAMSAT
GUYANA						
Georgetown-S						
Port of Spain	S	SAT/d	2400	None	IA-5	REDDIG
Brazil	S	SAT/d	2400	None	IA-5	REDDIG
Caracas	S	SAT/d	2400	None	IA-5	REDDIG
Paramaribo	S	SAT/d	2400	None	IA-5	REDDIG
HAITI						
Port-au-Prince-T						
United States	T	SAT/d	9600	X.25	IA-5	MEVA
HONDURAS						
Centro America-M						
Belize	T	SAT/d	1200	None	IA-5	CAMSAT
Guatemala	T	SAT/d	1200	None	IA-5	CAMSAT
Managua	T	SAT/d	1200	None	IA-5	CAMSAT

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State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
México	M	LDD/d	9600	None	IA-5	
San Jose	T	SAT/d	1200	None	IA-5	CAMSAT
San Pedro Sula	T	SAT/d	1200	None	IA-5	CAMSAT
San Salvador	T	SAT/d	1200	None	IA-5	CAMSAT
United States	M	SAT/d	9600	X.25	IA-5	MEVA
JAMAICA						
Kingston-T						
United States	T	SAT/d	9600	X.25	IA-5	MEVA
MEXICO						
México-M						
Centro America	M	LDD/d	9600	None	IA-5	
United States	M	LTT/d	64 kbps	X.25	IA-5	2 circuits 64 kbps
MONTSERRAT (United Kingdom)						
Montserrat-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
NICARAGUA						
Managua-T						
Centro America	T	SAT/d	1200	None	IA-5	CAMSAT
PANAMA						
Panama-T						
Bogota	T	SAT/a	1200	None	IA-5	
United States	T	SAT/d	9600	X.25	IA-5	MEVA
PARAGUAY						
Asunción-T						

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State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
Brazil	T	SAT/d	2400	None	IA-5	REDDIG
Buenos Aires	T	SAT/d	2400	None	IA-5	REDDIG
PERU						
Lima-M						
Bogotá	T	SAT/d	2400	None	IA-5	REDDIG
Brazil	M	SAT/d	2400	None	IA-5	REDDIG
Buenos Aires	M	SAT/d	2400	None	IA-5	REDDIG
Caracas	M	SAT/d	2400	None	IA-5	REDDIG
Guayaquil	T	SAT/d	2400	None	IA-5	REDDIG
La Paz	T	SAT/d	2400	None	IA-5	REDDIG
Santiago	M	SAT/d	2400	None	IA-5	REDDIG
United States	M	SAT/d	9600	None	IA-5	MEVA REDDIG
SAINT KITTS AND NEVIS						
Saint Kitts and Nevis-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
SAINT LUCIA						
Saint Lucia-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
SAINT VINCENT AND THE GRENADINES						
Saint Vincent-S						
Port of Spain	S	LDD/d	2400	None	IA-5	E/CAR
SINT MAARTEN						
Sint Maarten-(Kingdom of Netherlands)						
United States	S	SAT/d	2400	X.25	IA-5	MEVA

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State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
SURINAME						
Paramaribo-T						
Brazil	T	SAT/d	2400	None	IA-5	REDDIG
Caracas	T	SAT/d	2400	None	IA-5	REDDIG
Georgetown	S	SAT/d	2400	None	IA-5	REDDIG
TRINIDAD AND TOBAGO						
Port of Spain-M	M					
Anguilla	S	LDD/d	2400	None	IA-5	E/CAR
Antigua	S	LDD/d	2400	None	IA-5	E/CAR
Barbados	S	LDD/d	2400	None	IA-5	E/CAR
Caracas	M	SAT/d	2400	None	IA-5	REDDIG
Dominica	S	LDD/d	2400	None	IA-5	E/CAR
Fort-de-France	S	LDD/d	2400	None	IA-5	E/CAR
Georgetown	S	SAT/d	2400	None	IA-5	REDDIG
Grenada	S	LDD/d	2400	None	IA-5	E/CAR
Montserrat	S	LDD/d	2400	None	IA-5	E/CAR
Pointe-à-Pitre	S	LDD/d	2400	None	IA-5	E/CAR
Saint Kitts and Nevis	S	LDD/d	2400	None	IA-5	E/CAR
Saint Lucia	S	LDD/d	2400	None	IA-5	E/CAR
Saint Vincent	S	LDD/d	2400	None	IA-5	E/CAR
United States	M	LTT/d	2400	X.25	IA-5	
TURKS AND CAICOS ISLANDS						
Grand Turk-T						
United States	T	LLT/d	2400	X.25	IA-5	
UNITED STATES						
United States-M						
Aruba (Kingdom of Netherlands)	S	SAT/d	9600	X.25	IA-5	MEVA

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State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
Bermuda	S	SAT/d	9600	X.25	IA-5	
Brazil	M	SAT/d	9600	None	IA-5	MEVA REDDIG
Caracas	M	LTT/d	9600	None	IA-5	MEVA REDDIG
Cayman	S	SAT/d	9600	X.25	IA-5	MEVA
Centro América	M	SAT/d	9600	X.25	IA-5	MEVA
Curazao	T	SAT/d	9600	X.25	IA-5	MEVA
Grand Turk	T	LLT/d	2400	X.25	IA-5	
La Habana	T	SAT/d	9600	X.25	IA-5	MEVA
Kingston	T	SAT/d	9600	X.25	IA-5	MEVA
Lima	M	SAT/d	9600	None	IA-5	MEVA REDDIG
México	M	LTT/d	64 kbps	X.25	IA-5	
Nassau	S	SAT/d	9600	X.25	IA-5	MEVA
Panamá	T	SAT/d	9600	X.25	IA-5	MEVA
Port-au-Prince	T	SAT/d	9600	X.25	IA-5	MEVA
Port of Spain	M	LTT/d	2400	X.25	IA-5	
Sint Maarten(Kingdom of Netherlands)	S	SAT/d	2400	X.25	IA-5	MEVA
Santo Domingo	T	SAT/d	9600	X.25	IA-5	MEVA
Tortola	S					
URUGUAY						
Montevideo-T						
Buenos Aires	T	SAT/d	2400	None	IA-5	REDDIG
Brazil	T	SAT/d	2400	None	IA-5	REDDIG
VENEZUELA						
Caracas-M						
Bogotá	T	SAT/d	2400	None	IA-5	REDDIG
Brazil	M	SAT/d	2400	None	IA-5	REDDIG
Cayenne	T	SAT/d	2400	None	IA-5	REDDIG
Georgetown	S	SAT/d	2400	None	IA-5	REDDIG

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State/Station	Category	Requirement				Remarks
		Type	Signaling Speed	Protocol	Code	
1	2	3	4	5	6	7
Guayaquil	T	SAT/d	2400	None	IA-5	REDDIG
Lima	M	SAT/d	2400	None	IA-5	REDDIG
Madrid	M	LDD/a	1200	None	IA-5	
Paramaribo	T	SAT/d	2400	None	IA-5	REDDIG
Port of Spain	M	SAT/d	2400	None	IA-5	REDDIG
United States	M	LTT/d	9600	None	IA-5	MEVA REDDIG
VIRGIN ISLANDS (United Kingdom)						
Tortola-S						
United States	S					

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TABLE CNS II-2 - AERONAUTICAL TELECOMMUNICATION NETWORK (ATN) INFRASTRUCTURE ROUTING PLAN

EXPLANATION OF THE TABLE

Column

1	Name of the Administration and Location of the ATN Router
2	Type of Router (in end systems (ES) of the Administration shown in column 1)
3	Type of Interconnection: Inter-Regional: Connection between different Regions/ domains Intra-Regional: Connection within a Region/ domain.
4	Connected Router: List of the Administration and location of the ATN routers to be connected with the router shown in column 1.
5	Bandwidth: Link Speed expressed in bits per second (bps)
6	Network Protocol: If Internet Protocol Suite is used, indicate version of IP (IPv4 or IPv6)
7	Via: The media used to implement the interconnection of the routers. (in case of IP service bought from a service provider, indicate VPN)
8	Remarks

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TABLE CNS II-2 – AERONAUTICAL TELECOMMUNICATION NETWORK (ATN) INFRASTRUCTURE ROUTING PLAN

Administration and Location	Type of Router	Type of Interconnection	Connected Router	Bandwidth	Network Protocol	Via	Remarks
1	2	3	4	5	6	7	8
Anguilla, Wallblake, UK	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
Antigua and Barbuda, St. John´s	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
Argentina/Buenos Aires	BIS	Inter-Regional	AFI/ South Africa (Johannesburg)	64K	IPv6	CAFSAT	
		Intra-Regional	Bolivia (La Paz)	64K	IPv4	REDDIG	
		Intra-Regional	Chile (Santiago)	64K	IPv4	REDDIG	
		Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
		Intra-Regional	Paraguay (Asunción)	64K	IPv4	REDDIG	
		Intra-Regional	Peru (Lima)	64K	IPv4	REDDIG	
		Intra-Regional	Uruguay (Montevideo)	64K	IPv4	REDDIG	
Aruba, Oranjestad	IS	Intra-Regional	Curacao, Willemstad	64K	IPv4	MEVA	
		Intra-Regional	Jamaica, Kingston	64K	IPv4	MEVA	
Bahamas, Nassau	BIS	Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4	MEVA	
		Intra-Regional	Haiti, Port au Prince	64K	IPv4	MEVA	
Barbados, Bridgetown	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
Belize, Belize	IS	Intra-Regional	Honduras (COCESNA)	64 K	IPv4	CAMSAT	
Bermuda, UK	BIS	Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4		
Bolivia/La Paz	IS	Intra-Regional	Argentina (Buenos Aires)	64K	IPv4	REDDIG	
		Intra Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
		Intra Regional	Peru (Lima)	64K	IPv4	REDDIG	
Brazil/Brasilia	BIS	Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
		Intra-Regional	Peru (Lima)	64K	IPv4	REDDIG	
		Intra-Regional	Argentina (Buenos Aires)	64K	IPv4	REDDIG	
		Intra-Regional	Bolivia (La Paz)	64K	IPv4	REDDIG	
		Intra-Regional	Colombia (Bogotá)	64K	IPv4	REDDIG	
		Intra-Regional	Guyana (Georgetown)	64K	IPv4	REDDIG	

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Administration and Location	Type of Router	Type of Interconnection	Connected Router	Bandwidth	Network Protocol	Via	Remarks
1	2	3	4	5	6	7	8
		Intra-Regional	French Guiana (Cayenne)	64K	IPv4	REDDIG	
		Intra-Regional	Paraguay (Asunción)	64K	IPv4	REDDIG	
		Intra-Regional	Peru (Lima)	64K	IPv4	REDDIG	
		Intra-Regional	Surinam(Paramaribo)	64K	IPv4	REDDIG	
		Intra-Regional	Uruguay (Montevideo)	64K	IPv4	REDDIG	
		Intra-Regional	Venezuela (Caracas)	64K	IPv4	REDDIG	
		Inter-Regional	AFI/ Senegal (Dakar)	64K	IPv6	CAFSAT	
		Inter-Regional	EUR/ Spain (Madrid)	64K	IPv6	CAFSAT	
		Inter-Regional	NAM / United States (Atlanta)	64K	IPv4	MEVA / REDDIG	Via Bogota
Cayman Islands, UK	IS	Intra-Regional	Cuba. La Habana	64K	IPv4	MEVA	
		Intra-Regional	Jamaica, Kingston	64K	IPv4	MEVA	
Chile/Santiago	IS	Intra-Regional	Argentina (Buenos Aires)	64K	IPv4	REDDIG	
		Intra-Regional	Peru (Lima)	64K	IPv4	REDDIG	
COCESNA, Honduras, Tegucigalpa	BIS	Intra-Regional	Belize, Belize	64K	IPv4	CAMSAT	
		Intra-Regional	Costa Rica, San Jose	64K	IPv4	CAMSAT	
		Intra-Regional	Cuba, La Habana	64K	IPv4	MEVA	
		Intra-Regional	El Salvador, San Salvador	64K	IPv4	CAMSAT	
		Intra-Regional	Guatemala, Guatemala	64K	IPv4	CAMSAT	
		Intra-Regional	Honduras, San Pedro Sula	64K	IPv4	CAMSAT	
		Intra-Regional	Mexico, Merida	64K	IPv4	MEVA	
		Intra-Regional	Nicaragua, Managua	64K	IPv4	CAMSAT	
		Inter-Regional	SAM/ Panama, Panama	64K	IPv4	MEVA	
		Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4	MEVA	
Colombia/Bogotá	IS	Intra-Regional	Ecuador (Guayaquil)	64K	IPv4	REDDIG	
		Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
		Intra-Regional	Panama (Panama)	64K	IPv4	MEVA /REDDIG	
		Intra-Regional	Peru (Lima)	64K	IPv4	REDDIG	
		Intra-Regional	Venezuela (Caracas)	64K	IPv4	REDDIG	

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Administration and Location	Type of Router	Type of Interconnection	Connected Router	Bandwidth	Network Protocol	Via	Remarks
1	2	3	4	5	6	7	8
Costa Rica, San Jose	IS	Intra-Regional	Honduras (COCESNA)	64 K	IPv4	CAMSAT	
Cuba, La Habana	BIS	Intra-Regional	Cayman Islands, United Kingdom	64K	IPv4	MEVA	
		Intra-Regional	Honduras (COCESNA)	64 K	IPv4	MEVA	
		Intra-Regional	Haiti, Port au Prince	64K	IPv4	MEVA	
		Intra-Regional	Jamaica, Kingston	64K	IPv4	MEVA	
		Intra-Regional	Mexico, Merida	64K	IPv4	MEVA	
		Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4	MEVA	
Curacao, Willemstad	BIS	Intra-Regional	Aruba, Oranjestad	64K	IPv4	MEVA	
		Intra-Regional	Dominican Republic, Santo Domingo	64K	IPv4	MEVA	
		Intra-Regional	Jamaica, Kingston	64K	IPv4	MEVA	
		Intra-Regional	Haiti, Port au Prince	64K	IPv4	MEVA	
		Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4	MEVA	
Dominica, Roseau	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
Dominican Republic, Santo Domingo	BIS	Inter-Regional	Curacao, Willemstad	64K	IPv4	MEVA	
		Intra-Regional	Haiti, Port au Prince	64K	IPv4	MEVA	
		Intra-Regional	Puerto Rico, San Juan	64K	IPv4	MEVA	
		Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4	MEVA	
Ecuador/Guayaquil	IS	Intra-Regional	Colombia (Bogotá)	64K	IPv4	REDDIG	
		Intra-Regional	Peru (Lima)	64K	IPv4	REDDIG	
		Intra-Regional	Venezuela (Caracas)	64K	IPv4	REDDIG	
El Salvador, San Salvador	IS	Intra-Regional	Honduras (COCESNA)	64 K	IPv4	CAMSAT	
French Antilles, Martinique	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
French Antilles, Guadeloupe	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
French Guiana/Cayenne	IS	Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
		Intra-Regional	Surinam (Paramaribo)	64K	IPv4	REDDIG	
Guatemala, Guatemala	IS	Intra-Regional	Honduras (COCESNA)	64 K	IPv4	CAMSAT	
Grenada, St. George	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	

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Administration and Location	Type of Router	Type of Interconnection	Connected Router	Bandwidth	Network Protocol	Via	Remarks
1	2	3	4	5	6	7	8
Guyana/Georgetown	BIS	Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
		Intra-Regional	Surinam(Paramaribo)	64K	IPv4	REDDIG	
		Intra-Regional	Venezuela(Caracas)	64K	IPv4	REDDIG	
		Inter-Regional	CAR/ Trinidad and Tobago (Piarco)	64k	IPv4	REDDIG	
Haiti, Port au Prince	IS	Intra-Regional	Bahamas, Nassau	64K	IPv4	MEVA	
		Intra-Regional	Cuba, La Habana	64K	IPv4	MEVA	
		Intra-Regional	Curacao, Willemstad	64K	IPv4	MEVA	
		Intra-Regional	Dominican Republic, Santo Domingo	64K	IPv4	MEVA	
		Intra-Regional	Jamaica, Kingston	64K	IPv4	MEVA	
Honduras, San Pedro Sula	IS	Intra-Regional	Honduras (COCESNA)	64 K	IPv4	CAMSAT	
Jamaica, Kingston	IS	Intra-Regional	Aruba, Oranjestad	64K	IPv4	MEVA	
		Intra-Regional	Cayman Islands, UK	64K	IPv4	MEVA	
		Intra-Regional	Cuba, La Habana	64K	IPv4	MEVA	
		Intra-Regional	Curacao, Willemstad	64K	IPv4	MEVA	
		Intra-Regional	Haiti, Port au Prince	64K	IPv4	MEVA	
Mexico, Merida	BIS	Intra-Regional	Honduras (COCESNA)				
		Intra-Regional	Cuba, La Habana	64 K	IPv4	MEVA	
		Intra-Regional	Mexico, Mexico	64 K	IPv4		
		Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4	MEVA	
Mexico, Mexico	BIS	Intra-Regional	Mexico, Merida	64 K	IPv4		
		Inter-Regional	NAM/ United States (Salt Lake City)	64K	IPv4		
Montserrat, Gerald, UK	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
Nicaragua, Managua	IS	Intra-Regional	Honduras (COCESNA)	64 K	IPv4	CAMSAT	
Panamá/Panamá	BIS	Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4	MEVA	
		Intra-Regional	Colombia (Bogota)	64K	IPv4	MEVA / REDDIG	
		Inter-Regional	CAR/ COCESNA (Honduras)	64K	IPv4	CAMSAT	
Paraguay/Asunción	IS	Intra-Regional	Argentina (Buenos Aires)	64K	IPv4	REDDIG	

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Administration and Location	Type of Router	Type of Interconnection	Connected Router	Bandwidth	Network Protocol	Via	Remarks
1	2	3	4	5	6	7	8
		Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
Peru/Lima	BIS	Intra-Regional	Argentina (Buenos Aires)	64K	IPv4	REDDIG	
		Intra-Regional	Bolivia (La Paz)	64K	IPv4	REDDIG	
		Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
		Intra-Regional	Chile(Santiago)	64K	IPv4	REDDIG	
		Intra-Regional	Colombia (Bogotá)	64K	IPv4	REDDIG	
		Intra-Regional	Ecuador (Guayaquil	64K	IPv4	REDDIG	
		Intra-Regional	Venezuela (Caracas)	64K	IPv4	REDDIG	
		Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4	MEVA REDDIG	Vía Bogota
Puerto Rico, San Juan	BIS	Intra-Regional	Dominican Republic, Santo Domingo	64 K	IPv4	MEVA	
		Intra-Regional	United States (Miami)	64 K	IPv4		
		Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
		Inter-Regional	Venezuela, Caracas	64 K	IPv4	MEVA REDDIG	
Saint Kitts and Nevis	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
Saint Lucia	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
Sint Maarten	BIS	Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4	MEVA	
Saint Vincent and the Grenadines	IS	Intra-Regional	Trinidad and Tobago (PIARCO)	64 K	IPv4	E/CAR AFS Network	
Suriname/Paramaribo	IS	Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
		Intra-Regional	French Guiana (Cayenne)	64K	IPv4	REDDIG	
		Intra-Regional	Venezuela (Caracas)	64K	IPv4	REDDIG	
Trinidad and Tobago (PIARCO)	BIS	Intra-Regional	Anguilla	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	Antigua and Barbuda	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	Barbados	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	Dominica	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	French Antilles, Martinique	64 K	IPv4	E/CAR AFS Network	

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Administration and Location	Type of Router	Type of Interconnection	Connected Router	Bandwidth	Network Protocol	Via	Remarks
1	2	3	4	5	6	7	8
		Intra-Regional	French Antilles, Guadeloupe	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	Grenada	64 K	IPv4	E/CAR AFS Network	
		Inter-Regional	SAM/ Guyana (Georgetown)	64K	IPv4	REDDIG	
		Intra-Regional	Montserrat	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	Puerto Rico, San Juan	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	Saint Kitts and Nevis,	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	Saint Lucia	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	Saint Vincent and the Grenadines	64 K	IPv4	E/CAR AFS Network	
		Intra-Regional	Saint Lucia	64 K	IPv4	E/CAR AFS Network	
		Inter-Regional	SAM/ Venezuela (Caracas)	64K	IPv4	REDDIG	
		Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4		
Turks and Caicos, UK	BIS	Inter-Regional	NAM/ United States (Atlanta)	64K	IPv4		
Uruguay/Montevideo	IS	Intra-Regional	Argentina (Buenos Aires)	64K	IPv4	REDDIG	
		Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
Venezuela/Caracas	BIS	Inter-Regional	CAR/ Puerto Rico (San Juan)	64K	IPv4	MEVA / REDDIG	
		Inter-Regional	EUR/ Spain (Madrid)	64K	IPv6	VPN	
		Intra-Regional	Brazil (Brasilia)	64K	IPv4	REDDIG	
		Intra-Regional	Colombia (Bogotá)	64K	IPv4	REDDIG	
		Intra-Regional	Ecuador (Quito)	64K	IPv4	REDDIG	
		Intra-Regional	Guyana (Georgetown)	64K	IPv4	REDDIG	
		Intra-Regional	Suriname (Paramaribo)	64K	IPv4	REDDIG	
		Inter-Regional	Trinidad & Tobago (Piarco)	64K	IPv4	REDDIG	

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TABLE CNS II-3 - ATS DIRECT SPEECH CIRCUITS PLAN

EXPLANATION OF THE TABLE

Column

1 and 2 Circuit terminal stations are listed alphabetically by the Terminal I.

3 A — indicates ATS requirement for the establishment of voice communication within 15 seconds.
D — indicates requirements for instantaneous communications.

4 Type of service specified:

LTF — landline telephone (landline, cable, UHF, VHF, satellite).
RTF — radiotelephone.

5 Type of circuits; Direct (DIR) or Switched (SW).

D — indicates a direct circuit connecting Terminals I and II.
S — indicates that a direct circuit does not exist and that the connection is established via switching at the switching centre(s) indicated in column 6.
IDD — International direct dialling by public switch telephone network

Note 1.— Number of D and/or S circuits between Terminals I and II are indicated by numerical prefix, i.e. 2 D/S means 2 direct circuits and one switched circuit.

Note 2.— Pending the implementation of proper ATS voice circuits, and provided that aeronautical operational requirements are met, IDD services may be used for the ATS voice communications in low traffic areas.

6 Location of switching centre(s). Alternate routing location, if available, is indicated in brackets.

7 Remarks

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
ANGUILLA (United Kingdom)						
Wallblake TWR	Juliana APP	A	LTF	D		
ANTIGUA AND BARBUDA						
V.C. Bird APP	John A. Osbourne TWR	A	LTF	S	E/CAR	
	Juliana APP	A	LTF	S	E/CAR	
	Piarco ACC	A	LTF	S	E/CAR	
	Pointe-a-Pitre APP	D	LTF	D		E/CAR
	Robert L. Bradshaw TWR	A	LTF	S	E/CAR	
	San Juan ACC	A	LTF	S	E/CAR	
ARGENTINA						
Aeroparque TWR	Colonia TWR	A	LTF	D		
Baires APP	Carrasco APP	D	LTF	D		REDDIG
	Montevideo ACC	D	LTF	D		REDDIG
Cataratas del Iguazú TWR	Foz APP	D	LTF	D		REDDIG
Comodoro Rivadavia ACC	Ezeiza ACC	A	LTF	S	EZEIZA	
	Puerto Montt ACC	A	LTF	S	EZEIZA/ SANTIAGO	REDDIG
	Punta Arenas ACC	A	LTF	S	EZEIZA/ SANTIAGO	REDDIG
Córdoba ACC	Ezeiza ACC	A	LTF	S	EZEIZA	
	La Paz ACC	A	LTF	S	EZEIZA	REDDIG
	Mendoza ACC	A	LTF	S	EZEIZA	
	Resistencia ACC	A	LTF	S	EZEIZA	
	Santiago ACC	A	LTF	S	EZEIZA	REDDIG
Ezeiza ACC	Johannesburg ACC	A	LTF	D		CAFSAT
	Carrasco APP	A	LTF	D		REDDIG
	Comodoro Rivadavia ACC	A	LTF	S	EZEIZA	

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
	Córdoba ACC	A	LTF	S	EZEIZA	
	Mendoza ACC	A	LTF	S	EZEIZA	
	Montevideo ACC	A	LTF	D		REDDIG
	Resistencia ACC	A	LTF	S	EZEIZA	
Mendoza ACC	Córdoba ACC	A	LTF	S	EZEIZA	
	Ezeiza ACC	A	LTF	S	EZEIZA	
	Santiago ACC	A	LTF	D		REDDIG
Resistencia ACC	Asunción ACC	A	LTF	S	EZEIZA	REDDIG
	Córdoba ACC	A	LTF	S	EZEIZA	
	Curitiba ACC	A	LTF	S	EZEIZA	REDDIG
	Ezeiza ACC	A	LTF	S	EZEIZA	
	Foz APP	A	LTF	S	EZEIZA /CURITIBA	REDDIG
	Montevideo ACC	A	LTF	S	EZEIZA	REDDIG
Rio Gallegos TWR	Punta Arenas ACC	A	LTF	S	EZEIZA/ SANTIAGO	REDDIG
S.C. de Bariloche APP	Puerto Montt ACC	A	LTF	S	EZEIZA/ SANTIAGO	REDDIG
Ushuaia TWR	Punta Arenas ACC	A	LTF	S	EZEIZA/SANTIAGO	REDDIG
	Puerto Williams TWR	A	LTF	S	EZEIZA/ SANTIAGO	REDDIG
ARUBA (Kingdom of Netherlands)						
Aruba APP	Curacao ACC	D	LTF	1D/1S	MEVA	MEVA
	Josefa Camejo TWR	A	LTF	1D/1S		MEVA /REDDIG
BAHAMAS						
Nassau ACC	Miami ACC	D	LTF	2D/1S	MEVA	MEVA
BARBADOS						
Grantley Adams APP	E.T. Joshua APP	A	LTF	S	E/CAR	

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
	Maurice Bishop APP	A	LTF	S	E/CAR	
	Martinique APP	D	LTF	D		E/CAR
	Piarco ACC	A	LTF	S	E/CAR	
	Hewanorra APP	A	LTF	S	E/CAR	
BELIZE						
Belize APP	Cenamer ACC	A	LTF	D		CAMSAT
	La Aurora APP	A	LTF	D		CAMSAT
	La Ceiba TWR	A	LTF	D		CAMSAT
	La Mesa APP	A	LTF	D		CAMSAT
	Puerto Barrios TWR	A	LTF	D		
	Roatán TWR	A	LTF	D		CAMSAT
	Tikal APP	A	LTF	S	CAMSAT	
	Chetumal TWR	A	LTF	D		
BERMUDA						
Bermuda TWR	New York ACC	A	LTF	D		
BOLIVIA						
La Paz ACC	Amazonico ACC	D	LTF	D		REDDIG
	Asunción ACC	A	LTF	S	LA PAZ	REDDIG
	Brasilia ACC	A	LTF	S	CURITIBA	REDDIG
	Córdoba ACC	A	LTF	S	EZEIZA	REDDIG
	Curitiba ACC	A	LTF	S	LA PAZ	REDDIG
	Lima ACC	A	LTF	D		REDDIG
	Santiago ACC	A	LTF	S	LA PAZ	REDDIG
BRAZIL						
Amazonico ACC	Amazonas APP	D	LTF	S	MANAUS/ BOGOTA	REDDIG
	Atlantico ACC	D	LTF	D		
	Bogotá ACC	D	LTF	D		REDDIG
	Brasilia ACC	D	LTF	D		

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
	Georgetown ACC	A	LTF	S	MANAUS	REDDIG
	Maiquetia ACC	D	LTF	D		REDDIG
	La Paz ACC	D	LTF	D		REDDIG
	Lima ACC	A	LTF	S	MANAUS	REDDIG
	Paramaribo ACC	A	LTF	S	MANAUS	REDDIG
	Recife ACC	D	LTF	D		
	Rochambeau ACC	A	LTF	S	MANAUS	REDDIG
Atlantico ACC	Amazonico ACC	D	LTF	D		
	Brasilia ACC	D	LTF	D		
	Curitiba ACC	D	LTF	D		
	Dakar ACC	D	LTF	D		CAFSAT
	Johannesburg ACC	D	LTF	D		CAFSAT
	Montevideo ACC	A	LTF	S	RECIFE	REDDIG
	Rochambeau ACC	A	LTF	S	RECIFE	REDDIG
Brasilia ACC	Amazonico ACC	D	LTF	D		
	Atlantico ACC	D	LTF	D		
	Curitiba ACC	D	LTF	D		
	La Paz ACC	A	LTF	S	CURITIBA	REDDIG
	Recife ACC	D	LTF	D		
Curitiba ACC	Asunción ACC	D	LTF	D		REDDIG
	Atlantico ACC	D	LTF	D		
	Brasilia ACC	D	LTF	D		
	Foz APP	D	LTF	D		
	La Paz ACC	A	LTF	S	CURITIBA	REDDIG
	Montevideo ACC	D	LTF	D		REDDIG
	Resistencia ACC	A	LTF	S	CURITIBA	REDDIG
Foz APP	Asunción ACC	A	LTF	S	CURITIBA	REDDIG
	Cataratas del Iguazú TWR	D	LTF	D		REDDIG
	Curitiba ACC	D	LTF	D		
	Guaraní APP	D	LTF	D		REDDIG
	Resistencia ACC	A	LTF	S	CURITIBA	REDDIG
Recife ACC	Amazonico ACC	D	LTF	D		

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
	Atlantico ACC	D	LTF	D		
	Brasilia ACC	D	LTF	D		
Tabatinga Radio	Amazonas APP	A	LTF	D		REDDIG
CAYMAN ISLANDS (United Kingdom)						
Grand Cayman APP	Cenamer ACC	A	LTF	S	MEVA	
	Habana ACC	A	LTF	S	MEVA	
	Kingston ACC	A	LTF	S	MEVA	
CHILE						
Antofagasta APP	Santiago ACC	D	LTF	S	SANTIAGO	
Isla de Pascua APP	Santiago ACC	D	LTF	S	SANTIAGO	
Puerto Montt ACC	Comodoro Rivadavia ACC	A	LTF	S	SANTIAGO/ EZEIZA	REDDIG
	Punta Arenas ACC	D	LTF	S	SANTIAGO	
	San Carlos de Bariloche APP	A	LTF	S	SANTIAGO/ EZEIZA	REDDIG
	Santiago ACC	D	LTF	S	SANTIAGO	
Punta Arenas ACC	Comodoro Rivadavia ACC	A	LTF	S	SANTIAGO/ EZEIZA	REDDIG
	Puerto Montt ACC	D	LTF	S	SANTIAGO	
	Rio Gallegos TWR	A	LTF	D	SANTIAGO/ EZEIZA	REDDIG
Santiago ACC	Antofagasta APP	D	LTF	S	SANTIAGO	
	Concepcion APP	D	LTF	S	SANTIAGO	
	Córdoba ACC	A	LTF	S	SANTIAGO/ EZEIZA	
	Iquique APP	D	LTF	S	SANTIAGO	
	Isla de Pascua APP	D	LTF	S	SANTIAGO	
	La Paz ACC	A	LTF	S	SANTIAGO/ LA PAZ	REDDIG
	Lima ACC	A	LTF	D	SANTIAGO/ LIMA	REDDIG

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
	Mendoza ACC	A	LTF	D	SANTIAGO/ EZEIZA	REDDIG
	Puerto Montt ACC	D	LTF	S	SANTIAGO	
	Temuco APP	D	LTF	S	SANTIAGO	
Concepcion APP	Santiago ACC	D	LTF	S	SANTIAGO	
Iquique APP	Santiago ACC	D	LTF	S	SANTIAGO	
Temuco APP	Santiago ACC	D	LTF	S	SANTIAGO	
COCESNA						
Cenamer ACC	Belize APP	A	LTF	D		CAMSAT
	Bogotá ACC	A	LTF	S	BOGOTA	MEVA REDDIG
	El Coco ACC	D	LTF	D		CAMSAT
	El Salvador APP	D	LTF	D		CAMSAT
	Grand Cayman APP	A	LTF	S	MEVA	
	Guayaquil ACC	A	LTF	S	BOGOTA	MEVA /REDDIG
	Habana ACC	A	LTF	S	MEVA	
	Ilopango APP	A	LTF	D		CAMSAT
	Kingston ACC	A	LTF	S	MEVA	
	La Aurora APP	D	LTF	D		CAMSAT
	La Ceiba TWR	A	LTF	D		CAMSAT
	La Mesa APP	D	LTF	D		CAMSAT
	Liberia APP	D	LTF	D		CAMSAT
	Managua APP	A	LTF	D		CAMSAT
	Mérida ACC	D	LTF	D		
	Panamá ACC	A	LTF	S	MEVA	
	Roatán TWR	A	LTF	D		CAMSAT
	Tikal APP	A	LTF	D		CAMSAT
	Toncontín APP	A	LTF	D		
COLOMBIA						
Amazonas APP	Amazonico ACC	D	LTF	S	BOGOTA	REDDIG
	Bogotá ACC	A	LTF	S	BOGOTA	

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
	Lima ACC	A	LTF	S	BOGOTA	REDDIG
	Tabatinga Radio	A	LTF	D		REDDIG
Andes APP	Bogotá ACC	A	LTF	S	BOGOTA	
	Cali ACC	A	LTF	S	BOGOTA	
	Guayaquil ACC	A	LTF	S	BOGOTA	REDDIG
	Tulcán TWR	A	LTF	S	BOGOTA	
Barranquilla ACC	Bogotá ACC	D	LTF	S	BOGOTA	
	Curacao ACC	A	LTF	S	BOGOTA	MEVAI/REDDIG
	Kingston ACC	A	LTF	S	BOGOTA	MEVA/REDDIG
	Maiquetía ACC	A	LTF	S	BOGOTA	REDDIG
	Panamá ACC	A	LTF	S	BOGOTA	MEVA/REDDIG
Bogotá ACC	Amazonas APP	A	LTF	S	BOGOTA	
	Amazonico ACC	D	LTF	D		REDDIG
	Andes APP	A	LTF	S	BOGOTA	
	Barranquilla ACC	A	LTF	S		
	Cali ACC	A	LTF	S	BOGOTA	
	Cenamer ACC	A	LTF	S	BOGOTA	MEVA/REDDIG
	Guayaquil ACC	A	LTF	D		REDDIG
	Lima ACC	A	LTF	D		REDDIG
	Maiquetía ACC	A	LTF	D		REDDIG
	Medellin ACC	D	LTF	S	BOGOTA	
	Panamá ACC	D	LTF	1D/2S	BOGOTA	MEVA/REDDIG
Cali ACC	Andes APP	A	LTF	S	BOGOTA	
	Bogotá ACC	D	LTF	S	BOGOTA	
	Guayaquil ACC	A	LTF	S	BOGOTA	REDDIG
	Panamá ACC	A	LTF	S	BOGOTA	MEVA/REDDIG
Cúcuta APP	Maiquetía ACC	A	LTF	S	BOGOTA	REDDIG
	San Antonio TWR	A	LTF	D		
Cúcuta TWR	San Antonio TWR	A	LTF	D		
Medellin ACC	Bogotá ACC	D	LTF	S	BOGOTA	

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
	Panamá ACC	A	LTF	S	BOGOTA	MEVA/REDDIG
San Andrés APP	Panamá ACC	D	LTF	S	BOGOTA	MEVA/REDDIG
COSTA RICA						
El Coco ACC	Cenamer ACC	D	LTF	D		CAMSAT
	Liberia APP	A	LTF	D		CAMSAT
	Managua APP	A	LTF	D		CAMSAT
	Panamá ACC	D	LTF	D		
Liberia APP	El Coco ACC	A	LTF	D		CAMSAT
	CENAMER ACC	D	LTF	D		CAMSAT
	Managua APP	A	LTF	D		CAMSAT
CUBA						
Habana ACC	Cenamer ACC	A	LTF	S	MEVA	
	Grand Cayman APP	A	LTF	S	MEVA	
	Kingston ACC	D	LTF	2D/1S	MEVA	MEVA
	Mérida ACC	D	LTF	D		
	Miami ACC	D	LTF	3D/1S	MEVA	MEVA
	Port-au-Prince ACC	A	LTF	S	MEVA	
CURACAO (Kingdom of Netherlands)						
Curacao ACC	Aruba APP	D	LTF	1D/1S	MEVA	MEVA
	Barranquilla ACC	A	LTF	S	BOGOTA	MEVA /REDDIG
	Kingston ACC	A	LTF	S	MEVA	
	Maiquetía ACC	A	LTF	1D/1S		MEVA IREDDIG
	Port-au-Prince ACC	A	LTF	S	MEVA	
	San Juan ACC	A	LTF	S	MEVA	
	Santo Domingo ACC	A	LTF	S	MEVA	
DOMINICA						

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
Canefield TWR	Pointe-a-Pitre APP	A	LTF	D		E/CAR
Melville Hall TWR	Pointe-a-Pitre APP	A	LTF	D		E/CAR
DOMINICAN REPUBLIC						
Santo Domingo ACC	Curacao ACC	A	LTF	S	MEVA	
	Miami ACC	D	LTF	D		MEVA
	Port-au-Prince ACC	A	LTF	S	MEVA	
	San Juan ACC	A	LTF	S	MEVA	
ECUADOR						
Guayaquil ACC	Andes APP	A	LTF	S	BOGOTA	REDDIG
	Bogotá ACC	A	LTF	D		REDDIG
	Cali ACC	A	LTF	S	GUAYAQUIL/ BOGOTA	REDDIG
	Cenamer ACC	A	LTF	S	BOGOTA	MEVA /REDDIG
	Lima ACC	A	LTF	D		REDDIG
Tulcán TWR	Andes APP	A	LTF	S		
EL SALVADOR						
El Salvador APP	Cenamer ACC	D	LTF	D		CAMSAT
	Ilopango APP	A	LTF	D		CAMSAT
	La Aurora APP	D	LTF	D		CAMSAT
	La Mesa APP	D	LTF	D		CAMSAT
	Managua APP	A	LTF	D		CAMSAT
	Toncontín APP	A	LTF	D		CAMSAT
Ilopango APP	Cenamer ACC	A	LTF	D		CAMSAT
	El Salvador APP	A	LTF	D		CAMSAT
FRENCH ANTILLES						
Martinique APP	E.T. Joshua APP	A	LTF	S	E/CAR	

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
	George Charles TWR	D	LTF	D		E/CAR
	Grantley Adams APP	D	LTF	D		E/CAR
	Hewanorra APP	D	LTF	D		E/CAR
	Piarco ACC	A	LTF	S	E/CAR	
	Pointe-a-Pitre APP	D	LTF	D		E/CAR
Pointe-à-Pitre APP	Canefield TWR	A	LTF	D		E/CAR
	Martinique APP	D	LTF	D		E/CAR
	Melville Hall TWR	A	LTF	D		E/CAR
	Piarco ACC	A	LTF	S	E/CAR	
	San Juan ACC	D	LTF	D		E/CAR
	V.C. Bird APP	D	LTF	D		E/CAR
Saint Barthelemy AFIS	Juliana APP	A	LTF	D		E/CAR
Saint Martin Grand Case AFIS	Juliana APP	A	LTF	D		E/CAR
FRENCH GUIANA (France)						
Rochambeau ACC	Amazonico ACC	A	LTF	S	ROCHAMBEAU	REDDIG
	Atlantico ACC	A	LTF	S	ROCHAMBEAU	REDDIG
	Dakar ACC	A	LTF	IDD		
	Paramaribo ACC	A	LTF	S	ROCHAMBEAU	REDDIG
	Piarco ACC	A	LTF	D		REDDIG
GRENADA						
Maurice Bishop APP	E.T. Joshua APP	A	LTF	S	E/CAR	
	Grantley Adams APP	A	LTF	S	E/CAR	
	Piarco ACC	A	LTF	S	E/CAR	
GUATEMALA						
La Aurora APP	Belize APP	A	LTF	D		CAMSAT
	Cenamer ACC	D	LTF	D		CAMSAT
	El Salvador APP	D	LTF	D		CAMSAT
	La Mesa APP	D	LTF	D		CAMSAT

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
	Puerto Barrios TWR	A	LTF	D		
	San Jose TWR	A	LTF	D		
	Tapachula TWR	A	LTF	D		
	Tikal APP	A	LTF	S	CAMSAT	
	Toncontín APP	A	LTF	D		CAMSAT
Puerto Barrios TWR	Belize APP	A	LTF	D		
	La Aurora APP	A	LTF	D		
	La Mesa APP	A	LTF	D		
	Tikal APP	A	LTF	D		
San Jose TWR	La Aurora APP	A	LTF	D		
	Tapachula TWR	A	LTF	D		
Tikal APP	Belize APP	A	LTF	S	CAMSAT	
	Cenamer ACC	A	LTF	D		CAMSAT
	La Aurora APP	A	LTF	S	CAMSAT	
	Puerto Barrios TWR	A	LTF	D		
GUYANA						
Georgetown ACC	Amazonico ACC	A	LTF	S	GEORGETOWN	REDDIG
	Maiquetía ACC	A	LTF	S	GEORGETOWN	REDDIG
	Paramaribo ACC	A	LTF	S	GEORGETOWN	REDDIG
	Piarco ACC	A	LTF	D		REDDIG
HAITI						
Port-au-Prince ACC	Curacao ACC	A	LTF	S	MEVA	
	Habana ACC	A	LTF	S	MEVA	
	Kingston ACC	A	LTF	S	MEVA	
	Miami ACC	A	LTF	S	MEVA	
	Santo Domingo ACC	A	LTF	S	MEVA	
HONDURAS						

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
La Ceiba TWR	Belize APP	A	LTF	D		CAMSAT
	Cenamer ACC	A	LTF	D		CAMSAT
	La Mesa APP	A	LTF	D		CAMSAT
	Roatán TWR	A	LTF	D		CAMSAT
	Toncontín APP	A	LTF	D		CAMSAT
La Mesa APP	Belize APP	A	LTF	D		CAMSAT
	Cenamer ACC	D	LTF	D		CAMSAT
	El Salvador APP	D	LTF	D		CAMSAT
	La Aurora APP	D	LTF	D		CAMSAT
	La Ceiba TWR	A	LTF	D		CAMSAT
	Puerto Barrios TWR	A	LTF	D		
	Roatán TWR	A	LTF	D		CAMSAT
	Toncontín APP	A	LTF	D		CAMSAT
Roatán TWR	Belize APP	A	LTF	D		CAMSAT
	Cenamer ACC	A	LTF	D		CAMSAT
	La Ceiba APP	A	LTF	D		CAMSAT
	La Mesa APP	A	LTF	D		CAMSAT
Tocontín APP	Cenamer ACC	A	LTF	D		
	El Salvador APP	A	LTF	D		CAMSAT
	La Aurora APP	A	LTF	D		CAMSAT
	La Ceiba TWR	A	LTF	D		CAMSAT
	La Mesa APP	A	LTF	D		CAMSAT
	Managua APP	A	LTF	D		CAMSAT
JAMAICA						
Kingston ACC	Barranquilla ACC	A	LTF	S	BOGOTA	MEVA /REDDIG
	Cenamer ACC	A	LTF	S	MEVA	
	Curacao ACC	A	LTF	S	MEVA	
	Grand Cayman APP	A	LTF	S	MEVA	
	Habana ACC	A	LTF	2D/1S	MEVA	MEVA
	Panamá ACC	A	LTF	S	MEVA	
	Port-au-Prince ACC	A	LTF	S	MEVA	

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
MEXICO						
Chetumal TWR	Belice APP	A	LTF	S		
Mazatlán ACC	Albuquerque ACC	D	LTF	D		
	Los Angeles ACC	D	LTF	D		
	México ACC	D	LTF	D		
	Monterrey ACC	D	LTF	D		
	Oakland ACC	A	LTF	D		
Mérida ACC	Cenamer ACC	D	LTF	D		
	Habana ACC	D	LTF	D		
	Houston ACC	A	LTF	D		
	México ACC	D	LTF	D		
	Monterrey ACC	D	LTF	D		
México ACC	Mazatlán ACC	D	LTF	D		
	Mérida ACC	D	LTF	D		
	Monterrey ACC	D	LTF	D		
Monterrey ACC	Albuquerque ACC	D	LTF	D		
	Houston ACC	D	LTF	D		
	Mazatlán ACC	D	LTF	D		
	Mérida ACC	D	LTF	D		
	México ACC	D	LTF	D		
Tapachula TWR	La Aurora APP	A	LTF	D		
	San Jose TWR	A	LTF	D		
MONTSERRAT (United Kingdom)						
John A. Osbourne TWR	V.C. Bird APP	A	LTF	S	E/CAR	
NICARAGUA						

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
Managua APP	Cenamer ACC	A	LTF	D		CAMSAT
	El Coco ACC	A	LTF	D		CAMSAT
	El Salvador APP	A	LTF	D		CAMSAT
	Liberia APP	A	LTF	D		CAMSAT
	Tocontín APP	A	LTF	D		CAMSAT
PANAMÁ						
Panamá ACC	Barranquilla ACC	D	LTF	S	BOGOTA	MEVA/REDDIG
	Bogotá ACC	D	LTF	1D/2S	BOGOTA	MEVA/REDDIG
	Cali ACC	A	LTF	S	BOGOTA	MEVA/REDDIG
	Cenamer ACC	A	LTF	S	MEVA	
	El Coco ACC	D	LTF	D		
	Kingston ACC	A	LTF	S	MEVA	
	Medellin ACC	A	LTF	S	BOGOTA	MEVAIREDDIG
	San Andrés APP	D	LTF	S	BOGOTA	MEVA/REDDIG
PARAGUAY						
Asunción ACC	Curitiba ACC	D	LTF	D		REDDIG
	Foz APP	A	LTF	S	ASUNCION/ CURITIBA	REDDIG
	La Paz ACC	A	LTF	S	ASUNCION	REDDIG
	Resistencia ACC	A	LTF	S	ASUNCION EZEIZA	REDDIG
Guaraní APP	Foz APP	D	LTF	D		REDDIG
PERU						
Lima ACC	Amazonas APP	A	LTF	S	LIMA	REDDIG
	Amazonico ACC	A	LTF	S	LIMA	REDDIG
	Bogotá ACC	A	LTF	D		REDDIG
	Guayaquil ACC	A	LTF	D		REDDIG
	La Paz ACC	A	LTF	D		REDDIG
	Santiago ACC	A	LTF	D		REDDIG
PUERTO RICO						

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
San Juan ACC	Beef Island TWR	A	LTF	D		
	Curacao ACC	A	LTF	S	MEVA	
	Juliana APP	A	LTF	D		
	Maiquetía ACC	A	LTF	1D/1S		MEVA /REDDIG
	Miami ACC	D	LTF	D		MEVA
	New York ACC	D	LTF	D		
	Piarco ACC	A	LTF	S	E/CAR	
	Robert L. Bradshaw TWR	A	LTF	D		
	Pointe-a-Pitre APP	D	LTF	D		
	Santo Domingo ACC	A	LTF	S	MEVA	
	V.C. Bird APP	A	LTF	S	E/CAR	
SAINT KITTS AND NEVIS						
Robert L. Bradshaw TWR	Juliana APP	A	LTF	D		
	San Juan ACC	A	LTF	D		
	V.C. Bird APP	A	LTF	S	E/CAR	
SAINT LUCIA						
George Charles TWR	Martinique APP	D	LTF	D		E/CAR
Hewanorra APP	E.T. Joshua APP	A	LTF	D		E/CAR
	Grantley Adams APP	A	LTF	S	E/CAR	
	Martinique APP	D	LTF	D		E/CAR
	Piarco ACC	A	LTF	S	E/CAR	

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
SAINT VINCENT AND THE GRENADINES						
E.T. Joshua APP	Grantley Adams APP	A	LTF	S	E/CAR	
	Maurice Bishop APP	A	LTF	S	E/CAR	
	Martinique APP	A	LTF	S	E/CAR	
	Piarco ACC	A	LTF	S	E/CAR	
	Hewanorra APP	A	LTF	D		E/CAR
SENEGAL						
Dakar ACC	Atlantico ACC	A	LTF	D		CAFSAT
	Rochambeau ACC	A	LTF	IDD		
SINT MAARTEN (Kingdom of Netherlands)						
Juliana APP	Robert L. Bradshaw TWR	A	LTF	D		
	St. Barthelemy AFIS	A	LTF	D		E/CAR
	San Juan ACC	A	LTF	D		
	Saint Martin Grand case AFIS	A	LTF	D		E/CAR
	V.C. Bird APP	A	LTF	S	E/CAR	
	Wallblake TWR	A	LTF	D		
SOUTH AFRICA						
Johannesburg ACC	Atlantico ACC	A	LTF	D		CAFSAT
	Ezeiza ACC	A	LTF	D		CAFSAT
	Montevideo ACC	A	LTF	IDD		
SURINAME						
Paramaribo ACC	Amazonico ACC	A	LTF	S	PARAMARIBO	REDDIG
	Georgetown ACC	A	LTF	S	PARAMARIBO	REDDIG
	Piarco ACC	A	LTF	D		REDDIG
	Rochambeau ACC	A	LTF	S	PARAMARIBO	REDDIG

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
TRINIDAD AND TOBAGO						
Crown Point TWR	Piarco APP	A	LTF	D		
	Piarco TWR	A	LTF	D		
Piarco ACC	E.T. Joshua APP	A	LTF	S	E/CAR	
	Georgetown ACC	A	LTF	D		REDDIG
	Grantley Adams APP	A	LTF	S	E/CAR	
	Hewanorra APP	A	LTF	S	E/CAR	
	Maiquetía ACC	A	LTF	D		REDDIG
	Maurice Bishop APP	A	LTF	S	E/CAR	
	Martinique APP	A	LTF	S	E/CAR	
	New York ACC	A	LTF	S	E/CAR	
	Paramaribo ACC	A	LTF	D		REDDIG
	Pointe-a-Pitre APP	A	LTF	S	E/CAR	
	Rochambeau ACC	A	LTF	D		REDDIG
	San Juan ACC	A	LTF	S	E/CAR	
	Santa María ACC	A	LTF	IDD		
	V.C. Bird APP	A	LTF	S	E/CAR	
	Piarco APP	A	LTF	D		
Piarco APP	Crown Point TWR	A	LTF	D		
	Piarco ACC	A	LTF	D		
	Piarco TWR	A	LTF	D		
Piarco TWR	Crown Point TWR	A	LTF	D		
	Piarco ACC	A	LTF	D		
TURKS AND CAICOS ISLANDS						
Grand Turk TWR	Miami ACC	A	LTF	D		
Providenciales TWR	Miami ACC	A	LTF	D		
UNITED STATES						

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
Albuquerque ACC	Mazatlán ACC	D	LTF	D		
	Monterrey ACC	D	LTF	D		
Houston ACC	Mérida ACC	A	LTF	D		
	Monterrey ACC	D	LTF	D		
Los Angeles ACC	Mazatlán ACC	D	LTF	D		
Miami ACC	Grand Turk TWR	A	LTF	D		
	Habana ACC	D	LTF	3D/1S	MEVA	MEVA
	Nassau ACC	D	LTF	2D/1S	MEVA	MEVA
	New York ACC	D	LTF	D		
	Port-au-Prince ACC	A	LTF	S	MEVA	
	Providenciales TWR	A	LTF	D		
	San Juan ACC	D	LTF	D		MEVA
	Santo Domingo ACC	D	LTF	D		MEVA
New York ACC	Bermuda TWR	A	LTF	D		
	Miami ACC	D	LTF	D		
	Piarco ACC	A	LTF	S	E/CAR	
	San Juan ACC	D	LTF	D		
Oakland ACC	Mazatlán ACC	A	LTF	D		
URUGUAY						
Carrasco APP	Baires APP	D	LTF	D		REDDIG
	Ezeiza ACC	A	LTF	D		REDDIG
Colonia TWR	Aeroparque TWR	A	LTF	D		
Montevideo ACC	Atlantico ACC	A	LTF	S	MONTEVIDEO	REDDIG
	Baires APP	D	LTF	D		REDDIG
	Curitiba ACC	D	LTF	D		REDDIG
	Ezeiza ACC	A	LTF	D		REDDIG
	Johannesburg ACC	A	LTF	IDD		
	Resistencia ACC	A	LTF	S	EZEIZA	REDDIG

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ATS REQUIREMENTS FOR SPEECH COMMUNICATIONS			CIRCUIT			
TERMINAL I	TERMINAL II	TYPE	SERVICE	DIR/SW	TO BE SWITCHED VIA	REMARKS
1	2	3	4	5	6	7
VENEZUELA						
Josefa Camejo TWR	Aruba APP	A	LTF	1D/1S		MEVA/REDDIG
Maiquetía ACC	Amazonico ACC	D	LTF	D		REDDIG
	Barranquilla ACC	A	LTF	S	MAIQUETIA/ BOGOTA	REDDIG
	Bogotá ACC	A	LTF	D		REDDIG
	Cúcuta APP	A	LTF	S	MAIQUETIA/ BOGOTA	REDDIG
	Curacao ACC	A	LTF	1D/1S		MEVA/REDDIG
	Georgetown ACC	A	LTF	S	MAIQUETIA	REDDIG
	Piarco ACC	A	LTF	D		REDDIG
	San Juan ACC	A	LTF	1D/1S		MEVA /REDDIG
San Antonio TWR	Cúcuta APP	A	LTF	D		
	Cúcuta TWR	A	LTF	D		
VIRGIN ISLANDS (United Kingdom)						
Beef Island TWR	San Juan ACC	A	LTF	D		

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TABLE CNS II-4 - HF NETWORK DESIGNATORS

EXPLANATION OF THE TABLE

Column

1 Name of station, preceded by its location indicator.

2 Network designators assigned to the facility providing HF radiotelephony en-route communications (selected from the provisions of the allotment plan in Appendix S27 to the ITU Radio Regulations).

NOTES

The ICAO designators for HF MWARA and VOLMET networks in the Caribbean and South American regions are derived from the ITU allotment area abbreviations as contained in Appendix S27 to the ITU Radio Regulations.

ITU allotment area:

Two- and three-letter alpha entries indicate major world air route areas (MWARA):

CAR = Caribbean
NAT = North America
SAM = South America
SAT = South Atlantic

Four-letter alpha entries indicate VOLMET areas:

V CAR = VOLMET Caribbean
V SAM = VOLMET South America

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TABLE CNS II-4 - HF NETWORK DESIGNATORS

Location Indicator and Name of location	HF en-route family
1	2
ARGENTINA	
SAEF BUENOS AIRES	SAM-1 SAM-2
SAVF COMODORO RIVADAVIA	SAM-1
SAMF MENDOZA	SAM-1
SARR RESISTENCIA	SAM-1
BOLIVIA	SAM-1
SLLP LA PAZ	SAM-2
SLCZ SANTA CRUZ	SAM-1 SAM-2
BRAZIL	
SB.. AMAZONICA	SAM-2
SB.. ATLANTICA	SAM-2 SAT-1 SAT-2
SBBS BRASILIA	SAT-1 SAM-2
SBCV CURITIBA	SAM-2
SBMU MANAUS	SAM-2
SBPH PORTO ALEGRE	SAM-2
SBRE RECIFE	SAT-1 SAT-2 SAM-2
CAPE VERDE	SAT-1
GVAC SAL I.	SAT-2
CHILE	
SCFZ ANTOFAGASTA	SAM-1
SCTZ PUERTO MONTT	SAM-1
SCCZ PUNTA ARENAS	SAM-1
SCEZ SANTIAGO	SAM-1
SCIP ISLA DE PASCUA	SAM-1
COLOMBIA	
SKEC BARRANQUILLA	CAR-A
SKED BOGOTA	SAM-2
SKCL CALI	SAM-1
SKLT LETICIA	SAM-2
SKSP SAN ANDRES I.	SAM-2
CUBA	
MUHA HABANA	CAR-A
DOMINICAN REPUBLIC	
MDCS SANTO DOMINGO	CAR-A
ECUADOR	
SEGU GUAYAQUIL	SAM-1
FRENCH GUIANA	CAR-A
SOCA CAYENNE	SAM-2 SAT-2
GUYANA	
SYGC GEORGETOWN	CAR-A SAM-2
HONDURAS	
MHTG TEGUCIGALPA	CAR-A
(CENAMER)	SAM-1
MEXICO	
MMMD MERIDA	CAR-A
PANAMA	CAR-A
MPZL PANAMA	SAM-1
PARAGUAY	SAM-1
SGFA ASUNCION	SAM-2
PERU	
SPIM LIMA	SAM-1
PUERTO RICO (United States)	

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Location Indicator and Name of location	HF en-route family
1	2
TJZS SAN JUAN	CAR-B CAR-A NAT-A
SENEGAL GOOO DAKAR	SAT-1 SAT-2
SURINAME SMPM PARAMARIBO	SAM-2
TRINIDAD AND TOBAGO TTPP PORT OF SPAIN	CAR-A CAR-B SAM-2
UNITED STATES KZWY NEW YORK	CAR-A CAR-B
URUGUAY SUEO MONTEVIDEO	SAM-1 SAM-2
VENEZUELA SVMI CARACAS	CAR-A SAM-2

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HF FREQUENCIES AND THEIR ICAO NETWORK DESIGNATORS BASED ON ITU APPENDIX S27 ALLOTMENT AREAS

Frequency (kHz)	ITU allotment area	*CAR-A*	*CAR-B*	NAT-A	SAM-1	SAM-2	SAT-1	SAT-2	V CAR	V SAM	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
2854	SAT							X			
2872	NAT										(1)
2881	V SAM									X	(2)
2887	CAR	X									
2935	SAT										(1)
2944	SAM				X						
2950	V CAR								X		(2)
3016	NAT			X							
3452	SAT						X				
3455	CAR		X								
3476	NAT										(1)
3479	SAM					X					
4669	SAM				X						
5520	CAR		X								
5526	SAM					X					
5550	CAR	X									
5565	SAT							X			
5580	V CAR								X		2)
5598	NAT			X							
5601	V SAM									X	(2)
6535	SAT						X				
6577	CAR	X									
6586	CAR		X								
6622	NAT										(1)
6628	NAT										(1)
6649	SAM				X						
8825	NAT			X							
8831	NAT										(1)
8846	CAR		X								
8855	SAM					X					
8861	SAT						X				
8906	NAT										(1)
8918	CAR	X									
10024	SAM X				X						
10087	V SAM									X	(2)
10096	SAM					X					
11291	SAT							X			
11309	NAT										(1)
11315	V CAR								X		(2)
11336	NAT										(1)
11360	SAM				X						
11387	CAR		X								
11396	CAR	X									
13297	CAR/SAM	X				X					
13306	NAT			X							
13315	SAT							X			
13357	SAT						X				
17907	CAR/SAM	X			X	X					
17946	NAT			X							
17955	SAT						X	X			

Notes:

Frequency 17 907 kHz is common to allotment areas CAR, SAM, EA and SEA.

(1) Available for future use in the allotment area indicated, subject to coordination with ICAO.

(2) Available for future use in the network indicated, subject to coordination with ICAO.

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TABLE CNS II-CARSAM-15- ATN IPV4 ADDRESSING SCHEME

INTER/ INTRA REGIONAL G-G LINKS FOR NAM/CAR/SAM REGIONS

Because of the limited availability of public IPv4 addresses, the Caribbean and South American Regions, as approved by GREPECAS/14 Meeting, agreed to use a 24-bit block IPv4 private address space in the following address format:

8 bits	4 bits	7 bits	13 bits
Private Addr			
Prefix (010)	Region ID	State/Territory	

NAM/CAR/SAM IPv4 Address Format

The first byte of the address contains the fixed decimal value 10. The next 4 bits of the address are used to identify the ICAO Office for region:

0000 SAM: South American Office.
0001 NAM/CAR: North American, Central American and Caribbean Office.
0010 APAC: Asia and Pacific Office.
0011 MID: Middle East Office.
0100 WACAF: Western and Central African Office.
0101 ESAF: Eastern and Southern African Office.
0110 EUR/NAT: European and North Atlantic Office.

The next 7 bits indicate the State or Organization within the region. Refer to the Caribbean and South American IPv4 addressing plan [1]
for assigned values of this field.

The final 13 bits of the address are partitioned by local policy depending on the number of subnets and individual hosts in the State or Organization.

Capacity: 16 regions, 128 States/Territories per Region and 8190 Hosts per State/Territory

Applying this format, for the NAM/CAR regions the expected addresses ranges will be:

HostMin: **10.16.0.1**
HostMax: **10.31.255.254**

For example **"Aruba"**, its IPv4 addresses will be:

Nro	State / Territory	Network	Usable addresses	Decimal notation				Binary Notation					
								1st BYTE	2nd BYTE		3rd BYTE		4th BYTE
								8 bits	4 bits	4 bits	3 bits	5 bits	8 bits
								Network	Subnet				Host
									Region	State / Territory			
1	Aruba (Kingdom of	10.16.0.0/19	HostMin: 10.16.0.1	10.	16.	0.	1	00001010.	0001	0000.000		00000.00000001	
			HostMax: 10.16.31.254	10.	16.	31.	254	00001010.	0001	0000.000		11111.11111110	

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In the NAM/CAR Regions, there are 21 Contracting States, 1 non-contracting States and 11 territories, so this proposal contains 31 assigned ranges considering the territories of Puerto Rico and USA Virgin Islands under the range proposed for United States.

For all the rest available addresses, they are available and are labeled as “vacant”.

The addresses range labeled as “Reserved” under the last line, No.128, shall be used for IPv4 interregional NAM/CAR/ SAM links in accordance to the GREPECAS regional agreements, as illustrated below:

Nro	Estado / Territorio	Red	Rango de direcciones utilizables	Notacion Decimal	Notacion Binaria																											
					1st BYTE								2nd BYTE								3rd BYTE								4th BYTE			
					8 bits								4 bits				4 bits				3 bits				5 bits				8 bits			
					Network								Subnet																			
													Region				Estado / Territorio								Host							
128	RESERVADA	10.31.224.0/19	HostMin:	10 . 31 . 224 . 1	0	0	0	0	1	0	1	0	.	0	0	0	1	1	1	1	.	1	1	1	0	0	0	0	0	.	0	0	0	0	0	0	0	0	1
(Last)			HostMax:	10 . 31 . 255 . 254	0	0	0	0	1	0	1	0	.	0	0	0	1	1	1	1	.	1	1	1	1	1	1	1	1	.	1	1	1	1	1	1	1	1	0

In this respect we have on **Part I** the ranges assigned for each State/Territory and on **Part II** the interregional NAM/CAR/SAM links.

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PART I- NAM/CAR Regions

No.	State/Territory	Network	Usable addresses	Decimal notation				Binary notation																															
								1st BYTE								2nd BYTE								3rd BYTE								4th BYTE							
								8 bits								4 bits				4 bits				3 bits			5 bits					8 bits							
								Network								Subnet											Host												
																Region				State/ Territory																			
1	Aruba	10.16.0.0/19	HostMin: 10.16.0.1	10	16	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.16.31.254	10	16	31	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
2	Curacao	10.16.32.0/19	HostMin: 10.16.32.1	10	16	32	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.16.63.254	10	16	63	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
3	Trinidad and Tobago	10.16.64.0/19	HostMin: 10.16.64.1	10	16	64	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.16.95.254	10	16	95	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
4	Grenada	10.16.96.0/19	HostMin: 10.16.96.1	10	16	96	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.16.127.254	10	16	127	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
5	Saint Vincent and the Grenadines	10.16.128.0/19	HostMin: 10.16.128.1	10	16	128	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.16.159.254	10	16	159	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
6	Barbados	10.16.160.0/19	HostMin: 10.16.160.1	10	16	160	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.16.191.254	10	16	191	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
7	Saint Lucia	10.16.192.0/19	HostMin: 10.16.192.1	10	16	192	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.16.223.254	10	16	223	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
8	French Antilles	10.16.224.0/19	HostMin: 10.16.224.1	10	16	224	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.16.255.254	10	16	255	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
9	Dominica	10.17.0.0/19	HostMin: 10.17.0.1	10	17	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.17.31.254	10	17	31	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
10	Montserrat	10.17.32.0/19	HostMin: 10.17.32.1	10	17	32	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.17.63.254	10	17	63	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
11	Saint Kitts and Nevis	10.17.64.0/19	HostMin: 10.17.64.1	10	17	64	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.17.95.254	10	17	95	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
12	Antigua and Barbuda	10.17.96.0/19	HostMin: 10.17.96.1	10	17	96	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.17.127.254	10	17	127	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
13	Anguilla	10.17.128.0/19	HostMin: 10.17.128.1	10	17	128	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.17.159.254	10	17	159	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
14	Virgin Islands	10.17.160.0/19	HostMin: 10.17.160.1	10	17	160	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.17.191.254	10	17	191	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
15	Dominican Republic	10.17.192.0/19	HostMin: 10.17.192.1	10	17	192	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.17.223.254	10	17	223	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
16	Haiti	10.17.224.0/19	HostMin: 10.17.224.1	10	17	224	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.17.255.254	10	17	255	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	Jamaica	10.18.0.0/19	HostMin: 10.18.0.1	10	18	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.18.31.254	10	18	31	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
18	Cayman Islands	10.18.32.0/19	HostMin: 10.18.32.1	10	18	32	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.18.63.254	10	18	63	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
19	Cuba	10.18.64.0/19	HostMin: 10.18.64.1	10	18	64	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.18.95.254	10	18	95	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
20	Turks and Caicos Islands	10.18.96.0/19	HostMin: 10.18.96.1	10	18	96	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.18.127.254	10	18	127	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
21	Bahamas	10.18.128.0/19	HostMin: 10.18.128.1	10	18	128	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.18.159.254	10	18	159	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0

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No.	State/Territory	Network	Usable addresses	Decimal notation				Binary notation																															
								1st BYTE								2nd BYTE								3rd BYTE								4th BYTE							
								8 bits								4 bits				4 bits				3 bits			5 bits					8 bits							
								Network								Subnet											Host												
																Region				State/ Territory																			
22	Bermuda	10.18.160.0/19	HostMin: 10.18.160.1	10	18	160	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.18.191.254	10	18	191	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
23	Costa Rica	10.18.192.0/19	HostMin: 10.18.192.1	10	18	192	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.18.223.254	10	18	223	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
24	Nicaragua	10.18.224.0/19	HostMin: 10.18.224.1	10	18	224	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.18.255.254	10	18	255	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
25	El Salvador	10.19.0.0/19	HostMin: 10.19.0.1	10	19	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.19.31.254	10	19	31	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
26	Honduras	10.19.32.0/19	HostMin: 10.19.32.1	10	19	32	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.19.63.254	10	19	63	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
27	Guatemala	10.19.64.0/19	HostMin: 10.19.64.1	10	19	64	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.19.95.254	10	19	95	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
28	Belize	10.19.96.0/19	HostMin: 10.19.96.1	10	19	96	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.19.127.254	10	19	127	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
29	Mexico	10.19.128.0/19	HostMin: 10.19.128.1	10	19	128	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.19.159.254	10	19	159	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
30	United States	10.19.160.0/19	HostMin: 10.19.160.1	10	19	160	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.19.191.254	10	19	191	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
31	Canada	10.19.192.0/19	HostMin: 10.19.192.1	10	19	192	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.19.223.254	10	19	223	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
32	Sint Maarten	10.19.224.0/19	HostMin: 10.19.224.1	10	19	224	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.19.255.254	10	19	255	254	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
33	VACANT	10.20.0.0/19	HostMin: 10.20.0.1	10	20	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.20.31.254	10	20	31	254	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0
34	VACANT	10.20.32.0/19	HostMin: 10.20.32.1	10	20	32	1	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.20.63.254	10	20	63	254	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0
35	VACANT	10.20.64.0/19	HostMin: 10.20.64.1	10	20	64	1	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.20.95.254	10	20	95	254	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0
-	-	-	-	-	-	-	-																																
			-	-	-	-	-																																
-	-	-	-	-	-	-	-																																
			-	-	-	-	-																																
128 (Last)	RESERVED	10.31.224.0/19	HostMin: 10.31.224.1	10	31	224	1	0	0	0	0	1	0	1	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
			HostMax: 10.31.255.254	10	31	255	254	0	0	0	0	1	0	1	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

PART I- SAM Region

Number	State/ Territory	Network	Usable addresses	Decimal notation	Binary notation		
					Region	State/ Territory	Host's
1	Argentina	10.0.0.0 / 19	First	10 . 0 . 0 . 1	00001010.0000.0000.00000001		
			-				
			-				
			Last	10 . 0 . 31 . 254	00001010.0000.0000.00011111.11111110		
2	Chile	10.0.32.0 / 19	First	10 . 0 . 32 . 1	00001010.0000.0010.00000001		
			-				
			-				
			Last	10 . 0 . 63 . 254	00001010.0000.0011.11111110		
3	Brazil	10.0.64.0 / 19	First	10 . 0 . 64 . 1	00001010.0000.0100.00000001		
			-				
			-				
			Last	10 . 0 . 95 . 254	00001010.0000.0101.11111110		
4	Uruguay	10.0.96.0 / 19	First	10 . 0 . 96 . 1	00001010.0000.0110.00000001		
			-				
			-				
			Last	10 . 0 . 127 . 254	00001010.0000.0111.11111110		
5	Paraguay	10.0.128.0 / 19	First	10 . 0 . 128 . 1	00001010.0000.1000.00000001		
			-				
			-				
			Last	10 . 0 . 159 . 254	00001010.0000.1001.11111110		
6	Bolivia	10.0.160.0 / 19	First	10 . 0 . 160 . 1	00001010.0000.1010.00000001		
			-				
			-				
			Last	10 . 0 . 191 . 254	00001010.0000.1011.11111110		
7	Peru	10.0.192.0 / 19	First	10 . 0 . 192 . 1	00001010.0000.1100.00000001		
			-				
			-				
			Last	10 . 0 . 223 . 254	00001010.0000.1101.11111110		
8	Ecuador	10.0.224.0 / 19	First	10 . 0 . 224 . 1	00001010.0000.1110.00000001		
			-				
			-				
			Last	10 . 0 . 255 . 254	00001010.0000.1111.11111110		

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Number	State/ Territory	Network	Usable addresses	Decimal notation	Binary notation			
						Region	State/ Territory	Host's
9	Colombia	10.1.0.0 / 19	First	10 . 1 . 0 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 0 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					
			Last	10 . 1 . 31 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 0 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
10	Venezuela	10.1.32.0 / 19	First	10 . 1 . 32 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 0 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					
			Last	10 . 1 . 63 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 0 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0
11	Guyana	10.1.64.0 / 19	First	10 . 1 . 64 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 0 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					
			Last	10 . 1 . 95 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 0 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
12	Surinam	10.1.96.0 / 19	First	10 . 1 . 96 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 0 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					
			Last	10 . 1 . 127 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 0 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0
13	French Guiana (Francia)	10.1.128.0 / 19	First	10 . 1 . 128 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 1 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					
			Last	10 . 1 . 159 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 1 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
14	Panama	10.1.160.0 / 19	First	10 . 1 . 160 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 1 0 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					
			Last	10 . 1 . 191 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 1 0 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0
-	Vacant	10.1.192.0 / 19	First	10 . 1 . 192 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 1 1 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					
			Last	10 . 1 . 223 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 1 1 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
-	Vacant	10.1.224.0 / 19	First	10 . 1 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 1 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					
			Last	10 . 1 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 0 1 . 1 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0
-	Vacant	10.2.0.0 / 19	First	10 . 2 . 0 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 1 0 . 0 0 0	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					

Number	State/ Territory	Network	Usable addresses	Decimal notation	Binary notation			
						Region	State/ Territory	Host's
			Last	10 . 2 . 31 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	0 0 1 0 . 0 0 0	1 1 1 1 1 . 1 1 1 1 1 1 1 0
-	-	-	First	-	-			
			-	-	-			
			-	-	-			
			Last	-	-			
-	-	-	First	-	-			
			-	-	-			
			-	-	-			
			Last	-	-			
-	-	-	First	-	-			
			-	-	-			
			-	-	-			
			Last	-	-			
-	-	-	First	-	-			
			-	-	-			
			-	-	-			
			Last	-	-			
126 (Last)	Reserved	10.15.224.0 / 19	First	10 . 15 . 224 . 1	0 0 0 0 1 0 1 0 .	0 0 0 0	1 1 1 1 . 1 1 1	0 0 0 0 0 . 0 0 0 0 0 0 0 1
			-					
			-					
			Last	10 . 15 . 255 . 254	0 0 0 0 1 0 1 0 .	0 0 0 0	1 1 1 1 . 1 1 1	1 1 1 1 1 . 1 1 1 1 1 1 1 0

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PART II: IP PLAN FOR T-T ROUTERS BETWEEN STATES OF THE NAM/CAR REGION

Network / Red: 10.31.224.0/19

No.	Subnet	Admin & local host	Via	Links	IPv4 Address
1	10.31.224.0/30	Anguila	E/CAR	**Network Address**	10.31.224.0/30
				Anguila	10.31.224.1/30
				Trinidad & Tobago (Piarco)	10.31.224.2/30
				Broadcast Address	10.31.224.3/30
2	10.31.224.4/30	Antigua and Barbuda	E/CAR	**Network Address**	10.31.224.4/30
				Trinidad & Tobago (Piarco)	10.31.224.5/30
				Antigua	10.31.224.6/30
				Broadcast Address	10.31.224.7/30
3	10.31.224.8/30	Aruba (Kingdom of Netherlands)	MEVA	**Network Address**	10.31.224.8/30
				Jamaica (Kingston)	10.31.224.9/30
				Aruba (Kingdom of Netherlands)	10.31.224.10/30
				Broadcast Address	10.31.224.11/30
4	10.31.224.12/30	Bahamas / Nassau	MEVA	**Network Address**	10.31.224.12/30
				Haiti (Port-au-Prince)	10.31.224.13/30
				Bahamas / Nassau	10.31.224.14/30
				Broadcast Address	10.31.224.15/30
5	10.31.224.16/30	Barbados	E/CAR	**Network Address**	10.31.224.16/30
				Barbados	10.31.224.17/30
				Trinidad & Tobago (Piarco)	10.31.224.18/30
				Broadcast Address	10.31.224.19/30
6	10.31.224.20/30	Belize	CAMSAT	**Network Address**	10.31.224.20/30
				Belice / Belize	10.31.224.21/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.22/30
				Broadcast Address	10.31.224.23/30
7	10.31.224.24/30	British Virgin Islands - Tortola	MEVA or other network	**Network Address**	10.31.224.24/30
				British Virgin Islands - Tortola	10.31.224.25/30
				United States (Atlanta)	10.31.224.26/30
				Broadcast Address	10.31.224.27/30
8	10.31.224.28/30	Cayman Islands	MEVA	**Network Address**	10.31.224.28/30
				Cayman Islands	10.31.224.29/30
				Jamaica (Kingston)	10.31.224.30/30

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No.	Subnet / Subred	Admin & local host / Admin y Receptor local	Via	Links / Enlace	IPv4 Address / Dirección IPv4
				Broadcast Address	10.31.224.31/30
9	10.31.224.32/30	Costa Rica (San José)	CAMSAT	**Network Address**	10.31.224.32/30
				Costa Rica (San José)	10.31.224.33/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.34/30
				Broadcast Address	10.31.224.35/30
10	10.31.224.36/30	Cuba / La Habana	MEVA	**Network Address**	10.31.224.36/30
				Cuba (La Habana)	10.31.224.37/30
				Haiti (Port-au-Prince)	10.31.224.38/30
				Broadcast Address	10.31.224.39/30
11	10.31.224.40/30	Cuba / La Habana	MEVA	**Network Address**	10.31.224.40/30
				Cuba (La Habana)	10.31.224.41/30
				Jamaica (Kingston)	10.31.224.42/30
				Broadcast Address	10.31.224.43/30
12	10.31.224.44/30	Cuba / La Habana	MEVA	**Network Address**	10.31.224.44/30
				Cuba (La Habana)	10.31.224.45/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.46/30
				Broadcast Address	10.31.224.47/30
13	10.31.224.48/30	Cuba / La Habana	MEVA	**Network Address**	10.31.224.48/30
				Cuba (La Habana)	10.31.224.49/30
				México (Mérida)	10.31.224.50/30
				Broadcast Address	10.31.224.51/30
14	10.31.224.52/30	Curazao	MEVA	**Network Address**	10.31.224.52/30
				Curazao	10.31.224.53/30
				Dominican Republic	10.31.224.54/30
				Broadcast Address	10.31.224.55/30
15	10.31.224.56/30	Curazao	MEVA	**Network Address**	10.31.224.56/30
				Curazao	10.31.224.57/30
				Haiti (Port-au-Prince)	10.31.224.58/30
				Broadcast Address	10.31.224.59/30
16	10.31.224.60/30	Curazao	MEVA	**Network Address**	10.31.224.60/30
				Curazao	10.31.224.61/30
				United States (Atlanta)	10.31.224.62/30
				Broadcast Address	10.31.224.63/30
17	10.31.224.64/30	Dominican Republic	MEVA	**Network Address**	10.31.224.64/30
				Dominican Republic (Santo Domingo)	10.31.224.65/30

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No.	Subnet	Admin & local host	Via	Links	IPv4 Address
				Haiti (Port-au-Prince)	10.31.224.66/30
				Broadcast Address	10.31.224.67/30
18	10.31.224.68/30	Dominican Republic / Santo Domingo	MEVA	**Network Address**	10.31.224.68/30
				United States (Atlanta)	10.31.224.69/30
				Dominican Republic (Santo Domingo)	10.31.224.70/30
				Broadcast Address	10.31.224.71/30
19	10.31.224.72/30	Dominica	E/CAR	**Network Address**	10.31.224.72/30
				Dominica	10.31.224.73/30
				Trinidad & Tobago (Piarco)	10.31.224.74/30
				Broadcast Address	10.31.224.75/30
20	10.31.224.76/30	El Salvador / San Salvador	CAMSAT	**Network Address**	10.31.224.76/30
				El Salvador	10.31.224.77/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.78/30
				Broadcast Address	10.31.224.79/30
21	10.31.224.80/30	French Antilles (Guadeloupe) / Point- a-Pitre	E/CAR	**Network Address**	10.31.224.80/30
				French Antilles (Martinique) / Fort-de-France	10.31.224.81/30
				Trinidad & Tobago (Piarco)	10.31.224.82/30
				Broadcast Address	10.31.224.83/30
22	10.31.224.84/30	French Antilles (Guadeloupe) / Point- a-Pitre	E/CAR	**Network Address**	10.31.224.84/30
				French Antilles (Guadeloupe) / Point-a-Pitre	10.31.224.85/30
				Trinidad & Tobago (Piarco)	10.31.224.86/30
				Broadcast Address	10.31.224.87/30
23	10.31.224.88/30	Grenada	E/CAR	**Network Address**	10.31.224.88/30
				Grenada	10.31.224.89/30
				Trinidad & Tobago (Piarco)	10.31.224.90/30
				Broadcast Address	10.31.224.91/30
24	10.31.224.92/30	Guatemala (La Aurora)	CAMSAT	**Network Address**	10.31.224.92/30
				Guatemala (La Aurora)	10.31.224.93/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.94/30
				Broadcast Address	10.31.224.95/30
25	10.31.224.96/30	Haiti / Port-au-Prince	MEVA	**Network Address**	10.31.224.96/30
				Haiti (Port-au-Prince)	10.31.224.97/30
				Jamaica (Kingston)	10.31.224.98/30
				Broadcast Address	10.31.224.99/30
26	10.31.224.100/30	Honduras / Tegucigalpa (COCESNA)	CAMSAT	**Network Address**	10.31.224.100/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.101/30

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No.	Subnet	Admin & local host	Via	Links	IPv4 Address
				Honduras (San Pedro Sula)	10.31.224.102/30
				Broadcast Address	10.31.224.103/30
27	10.31.224.104/30	Honduras / Tegucigalpa (COCESNA)	CAMSAT	**Network Address**	10.31.224.104/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.105/30
				Panamá	10.31.224.106/30
				Broadcast Address	10.31.224.107/30
28	10.31.224.108/30	Honduras / Tegucigalpa (COCESNA)	CAMSAT	**Network Address**	10.31.224.108/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.109/30
				United States (Atlanta)	10.31.224.110/30
				Broadcast Address	10.31.224.111/30
29	10.31.224.112/30	Honduras / Tegucigalpa (COCESNA)	MEVA	**Network Address**	10.31.224.112/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.113/30
				México (Mérida)	10.31.224.114/30
				Broadcast Address	10.31.224.115/30
30	10.31.224.116/30	Aruba (Kingdom of Netherlands)	MEVA	**Network Address**	10.31.224.116/30
				Aruba (Kingdom of Netherlands)	10.31.224.117/30
				United States (Atlanta)	10.31.224.118/30
				Broadcast Address	10.31.224.119/30
31	10.31.224.120/30	México / México	TBD	**Network Address**	10.31.224.120/30
				México (México)	10.31.224.121/30
				United States (Atlanta)	10.31.224.122/30
				Broadcast Address	10.31.224.123/30
32	10.31.224.124/30	Montserrat	E/CAR	**Network Address**	10.31.224.124/30
				Montserrat	10.31.224.125/30
				Trinidad & Tobago (Piarco)	10.31.224.126/30
				Broadcast Address	10.31.224.127/30
33	10.31.224.128/30	Vacant		**Network Address**	10.31.224.128/30
				Vacant	10.31.224.129/30
				Vacant	10.31.224.130/30
				Broadcast Address	10.31.224.131/30
34	10.31.224.132/30	Cayman Islands	MEVA	**Network Address**	10.31.224.132/30
				Cayman Islands	10.31.224.133/30
				United States (Atlanta)	10.31.224.134/30
				Broadcast Address	10.31.224.135/30
35	10.31.224.136/30	Saint Kitts and Nevis	E/CAR	**Network Address**	10.31.224.136/30

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No.	Subnet	Admin & local host	Via	Links	IPv4 Address
				Saint Kitts and Nevis (Saint Kitts)	10.31.224.137/30
				Trinidad & Tobago (Piarco)	10.31.224.138/30
				Broadcast Address	10.31.224.139/30
36	10.31.224.140/30	Saint Kitts and Nevis	E/CAR	**Network Address**	10.31.224.140/30
				Saint Kitts and Nevis (Nevis)	10.31.224.141/30
				Trinidad & Tobago (Piarco)	10.31.224.142/30
				Broadcast Address	10.31.224.143/30
37	10.31.224.144/30	Saint Lucia	E/CAR	**Network Address**	10.31.224.144/30
				Saint Lucia	10.31.224.145/30
				Trinidad & Tobago (Piarco)	10.31.224.146/30
				Broadcast Address	10.31.224.147/30
38	10.31.224.148/30	Sint Marteen	MEVA	**Network Address**	10.31.224.148/30
				Sint Marteen	10.31.224.149/30
				United States (Atlanta)	10.31.224.150/30
				Broadcast Address	10.31.224.151/30
39	10.31.224.152/30	Trinidad & Tobago	USA domestic Network	**Network Address**	10.31.224.152/30
				Trinidad & Tobago (Piarco)	10.31.224.153/30
				United States (Atlanta)	10.31.224.154/30
				Broadcast Address	10.31.224.155/30
40	10.31.224.156/30	Saint Vincent and the Grenadines	E/CAR	**Network Address**	10.31.224.156/30
				Saint Vincent and the Grenadines	10.31.224.157/30
				Trinidad & Tobago (Piarco)	10.31.224.158/30
				Broadcast Address	10.31.224.159/30
41	10.31.224.160/30	Turks & Caicos Islands - Grand Turk	TBD	**Network Address**	10.31.224.160/30
				Turks & Caicos Islands - Grand Turk	10.31.224.161/30
				United States (Atlanta)	10.31.224.162/30
				Broadcast Address	10.31.224.163/30
42	10.31.224.164/30	Haiti / Port-au-Prince	MEVA	**Network Address**	10.31.224.164/30
				Haiti (Port au Prince)	10.31.224.165/30
				United States (Atlanta)	10.31.224.166/30
				Broadcast Address	10.31.224.167/30
43	10.31.224.168/30	Panama	MEVA/ REDDIG	**Network Address**	10.31.224.168/30
				Panama	10.31.224.169/30
				Colombia	10.31.224.170/30
				Broadcast Address /	10.31.224.171/30

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No.	Subnet	Admin & local host	Via	Links	IPv4 Address
44	10.31.224.172/30	Aruba (Kingdom of Netherlands)	MEVA	**Network Address**	10.31.224.172/30
				Aruba (Kingdom of Netherlands)	10.31.224.173/30
				Curaçao / Curazao	10.31.224.174/30
				Broadcast Address	10.31.224.175/30
45	10.31.224.176/30	Bahamas / Nassau	MEVA	**Network Address**	10.31.224.176/30
				Bahamas / Nassau	10.31.224.177/30
				United States (Atlanta)	10.31.224.178/30
				Broadcast Address	10.31.224.179/30
46	10.31.224.180/30	Cayman Islands	MEVA	**Network Address**	10.31.224.180/30
				Cayman Islands	10.31.224.181/30
				Cuba (Havana / La Habana)	10.31.224.182/30
				Broadcast Address	10.31.224.183/30
47	10.31.224.184/30	Cuba /Havana - La Habana	MEVA	**Network Address**	10.31.224.184/30
				Cuba (Havana / La Habana)	10.31.224.185/30
				United States (Atlanta)	10.31.224.186/30
				Broadcast Address	10.31.224.187/30
48	10.31.224.188/30	Curaçao / Curazao	MEVA	**Network Address**	10.31.224.188/30
				Curaçao / Curazao	10.31.224.189/30
				Jamaica (Kingston)	10.31.224.190/30
				Broadcast Address	10.31.224.191/30
49	10.31.224.192/30	Dominican Republic / Santo Domingo	MEVA	**Network Address**	10.31.224.192/30
				Dominican Republic (Santo Domingo)	10.31.224.193/30
				Puerto Rico (San Juan)	10.31.224.194/30
				Broadcast Address	10.31.224.195/30
50	10.31.224.196/30	Honduras / Tegucigalpa (COCESNA)	CAMSAT	**Network Address**	10.31.224.196/30
				Honduras (COCESNA) Tegucigalpa	10.31.224.197/30
				Nicaragua (Managua)	10.31.224.198/30
				Broadcast Address	10.31.224.199/30
51	10.31.224.200/30	Vacant		**Network Address**	10.31.224.200/30
				Vacant	10.31.224.201/30
				Vacant	10.31.224.202/30
				Broadcast Address	10.31.224.203/30
52	10.31.224.204/30	Panamá/ Panama	MEVA	**Network Address**	10.31.224.204/30
				Panamá/ Panama	10.31.224.205/30
				Jamaica (Kingston)	10.31.224.206/30
				Broadcast Address	10.31.224.207/30

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No.	Subnet / Subred	Admin & local host / Admin y Receptor local	Via	Links / Enlace	IPv4 Address / Dirección IPv4
53	10.31.224.208/30	Panamá	MEVA	**Network Address**	10.31.224.208/30
				Panamá/ Panama	10.31.224.209/30
				Honduras / Tegucigalpa (COCESNA)	10.31.224.210/30
				Broadcast Address	10.31.224.211/30
54	10.31.224.212/30	Honduras / Tegucigalpa (COCESNA)	MEVA- REDDIG	**Network Address**	10.31.224.212/30
				Honduras / Tegucigalpa (COCESNA)	10.31.224.213/30
				Ecuador/ Quito	10.31.224.214/30
				Broadcast Address	10.31.224.215/30
55	10.31.224.216/30	Honduras / Tegucigalpa (COCESNA)	MEVA- REDDIG	**Network Address**	10.31.224.216/30
				Honduras / Tegucigalpa (COCESNA)	10.31.224.217/30
				Colombia/ Bogota	10.31.224.218/30
				Broadcast Address	10.31.224.219/30
56	10.31.224.220/30	Panamá	MEVA- REDDIG	**Network Address**	10.31.224.220/30
				Panamá/ Panama	10.31.224.221/30
				Colombia/ Bogota	10.31.224.222/30
				Broadcast Address	10.31.224.223/30
…	…	…		**…**	…
				…	…
				…	…
				…	…
2048	10.31.255.252/30	Vacant		**Network Address**	10.31.255.252/30
				Vacant	10.31.255.253/30
				Vacant	10.31.255.254/30
				Broadcast Address	10.31.255.255/30

Note: The Interregional links CAR/ SAM, such as Brazil- United States (Atlanta), Colombia – United States (Atlanta), Peru – United States (Atlanta), Trinidad and Tobago - Guyana are included in the PART II: SAM Region Inter/ Intra-regional Links.

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PART II: SAM REGION INTER-REGIONAL LINKS

Note: Note: The SAM Region has implemented a full IP Network, so the intra-regional links do not apply and are not used under this scenario. The only IP address used are only for the inter regional links.

NETWORK	LINK					
	No.	SUBNETWORK	CONNECTED ROUTERS	ADDRESSES TO USE		
1	2	3	4	5		
10.15.224.0 / 19	1	10.15.224.0 / 30	Argentina-Bolivia	-	10 - 15 - 224 -	0 / 30
				Argentina	10 - 15 - 224 -	1 / 30
				Bolivia	10 - 15 - 224 -	2 / 30
				-	10 - 15 - 224 -	3 / 30
	2	10.15.224.4 / 30	Argentina-Chile	-	10 - 15 - 224 -	4 / 30
				Argentina	10 - 15 - 224 -	5 / 30
				Chile	10 - 15 - 224 -	6 / 30
				-	10 - 15 - 224 -	7 / 30
	3	10.15.224.8 / 30	Argentina-Paraguay	-	10 - 15 - 224 -	8 / 30
				Argentina	10 - 15 - 224 -	9 / 30
				Paraguay	10 - 15 - 224 -	10 / 30
				-	10 - 15 - 224 -	11 / 30
	4	10.15.224.12 / 30	Argentina-Peru	-	10 - 15 - 224 -	12 / 30
				Argentina	10 - 15 - 224 -	13 / 30
				Peru	10 - 15 - 224 -	14 / 30
				-	10 - 15 - 224 -	15 / 30
	5	10.15.224.16 / 30	Argentina-Uruguay	-	10 - 15 - 224 -	16 / 30
				Argentina	10 - 15 - 224 -	17 / 30
				Uruguay	10 - 15 - 224 -	18 / 30
				-	10 - 15 - 224 -	19 / 30
	6	10.15.224.20 / 30	Argentina-AFI	-	10 - 15 - 224 -	20 / 30
				Argentina	10 - 15 - 224 -	21 / 30
				AFI (Johannesburgo)	10 - 15 - 224 -	22 / 30
				-	10 - 15 - 224 -	23 / 30
	7	10.15.224.24 / 30	Brazil-Colombia	-	10 - 15 - 224 -	24 / 30
				Brazil	10 - 15 - 224 -	25 / 30
				Colombia	10 - 15 - 224 -	26 / 30
				-	10 - 15 - 224 -	27 / 30
	8	10.15.224.28 / 30	Brazil-Guyana	-	10 - 15 - 224 -	28 / 30
				Brazil	10 - 15 - 224 -	29 / 30
				Guyana	10 - 15 - 224 -	30 / 30
				-	10 - 15 - 224 -	31 / 30

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NETWORK	LINK				
	No.	SUBNETWORK	CONNECTED ROUTERS	ADDRESSES TO USE	
1	2	3	4	5	
10.15.224.0 / 19	9	10.15.224.32 / 30	Brazil-French Guiana	-	10 - 15 - 224 - 32 / 30
				Brazil	10 - 15 - 224 - 33 / 30
				French Guiana	10 - 15 - 224 - 34 / 30
				-	10 - 15 - 224 - 35 / 30
	10	10.15.224.36 / 30	Brazil-Peru	-	10 - 15 - 224 - 36 / 30
				Brazil	10 - 15 - 224 - 37 / 30
				Peru	10 - 15 - 224 - 38 / 30
				-	10 - 15 - 224 - 39 / 30
	11	10.15.224.40 / 30	Brazil-Suriname	-	10 - 15 - 224 - 40 / 30
				Brazil	10 - 15 - 224 - 41 / 30
				Suriname	10 - 15 - 224 - 42 / 30
				-	10 - 15 - 224 - 43 / 30
	12	10.15.224.44 / 30	Brazil-Venezuela	-	10 - 15 - 224 - 44 / 30
				Brazil	10 - 15 - 224 - 45 / 30
				Venezuela	10 - 15 - 224 - 46 / 30
				-	10 - 15 - 224 - 47 / 30
	13	10.15.224.48 / 30	Brazil-AFI	-	10 - 15 - 224 - 48 / 30
				Brazil	10 - 15 - 224 - 49 / 30
				AFI (Dakar)	10 - 15 - 224 - 50 / 30
				-	10 - 15 - 224 - 51 / 30
	14	10.15.224.52 / 30	Brazil-EUR	-	10 - 15 - 224 - 52 / 30
				Brazil	10 - 15 - 224 - 53 / 30
				EUR (Madrid)	10 - 15 - 224 - 54 / 30
				-	10 - 15 - 224 - 55 / 30
	15	10.15.224.56 / 30	Brazil-NAM	-	10 - 15 - 224 - 56 / 30
				Brazil	10 - 15 - 224 - 57 / 30
				NAM (Atlanta)	10 - 15 - 224 - 58 / 30
				-	10 - 15 - 224 - 59 / 30
	16	10.15.224.60 / 30	Brazil-Argentina	-	10 - 15 - 224 - 60 / 30
				Brazil	10 - 15 - 224 - 61 / 30
				Argentina	10 - 15 - 224 - 62 / 30
				-	10 - 15 - 224 - 63 / 30
	17	10.15.224.64 / 30	Brazil-Bolivia	-	10 - 15 - 224 - 64 / 30
				Brazil	10 - 15 - 224 - 65 / 30
				Bolivia	10 - 15 - 224 - 66 / 30
				-	10 - 15 - 224 - 67 / 30
	18	10.15.224.68 / 30	Brazil-Paraguay	-	10 - 15 - 224 - 68 / 30
				Brazil	10 - 15 - 224 - 69 / 30
				Paraguay	10 - 15 - 224 - 70 / 30
				-	10 - 15 - 224 - 71 / 30
	19	10.15.224.72 / 30	Brazil-Uruguay	-	10 - 15 - 224 - 72 / 30
				Brazil	10 - 15 - 224 - 73 / 30
				Uruguay	10 - 15 - 224 - 74 / 30
				-	10 - 15 - 224 - 75 / 30

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NETWORK	LINK				
	No.	SUBNETWORK	CONNECTED ROUTERS	ADDRESSES TO USE	
1	2	3	4	5	
10.15.224.0 / 19	20	10.15.224.76 / 30	Chile-PAC	-	10 - 15 - 224 - 76 / 30
				Chile	10 - 15 - 224 - 77 / 30
				PAC (Christchurch)	10 - 15 - 224 - 78 / 30
				-	10 - 15 - 224 - 79 / 30
	21	10.15.224.80 / 30	Chile-Peru	-	10 - 15 - 224 - 80 / 30
				Chile	10 - 15 - 224 - 81 / 30
				Peru	10 - 15 - 224 - 82 / 30
				-	10 - 15 - 224 - 83 / 30
	22	10.15.224.84 / 30	Colombia-NAM	-	10 - 15 - 224 - 84 / 30
				Colombia	10 - 15 - 224 - 85 / 30
				NAM (Atlanta)	10 - 15 - 224 - 86 / 30
				-	10 - 15 - 224 - 87 / 30
	23	10.15.224.88 / 30	Colombia-Ecuador	-	10 - 15 - 224 - 88 / 30
				Colombia	10 - 15 - 224 - 89 / 30
				Ecuador	10 - 15 - 224 - 90 / 30
				-	10 - 15 - 224 - 91 / 30
	24	10.15.224.92 / 30	Colombia-Peru	-	10 - 15 - 224 - 92 / 30
				Colombia	10 - 15 - 224 - 93 / 30
				Peru	10 - 15 - 224 - 94 / 30
				-	10 - 15 - 224 - 95 / 30
	25	10.15.224.96 / 30	Colombia-Venezuela	-	10 - 15 - 224 - 96 / 30
				Colombia	10 - 15 - 224 - 97 / 30
				Venezuela	10 - 15 - 224 - 98 / 30
				-	10 - 15 - 224 - 99 / 30
	26	10.15.224.100 / 30	Ecuador-Peru	-	10 - 15 - 224 - 100 / 30
				Ecuador	10 - 15 - 224 - 101 / 30
				Peru	10 - 15 - 224 - 102 / 30
				-	10 - 15 - 224 - 103 / 30
	27	10.15.224.104 / 30	Ecuador-Venezuela	-	10 - 15 - 224 - 104 / 30
				Ecuador	10 - 15 - 224 - 105 / 30
				Venezuela	10 - 15 - 224 - 106 / 30
				-	10 - 15 - 224 - 107 / 30
	28	10.15.224.108 / 30	French Guiana-Suriname	-	10 - 15 - 224 - 108 / 30
				French Guiana	10 - 15 - 224 - 109 / 30
				Suriname	10 - 15 - 224 - 110 / 30
				-	10 - 15 - 224 - 111 / 30
	29	10.15.224.112 / 30	Guyana-C-CAR	-	10 - 15 - 224 - 112 / 30
				Guyana	10 - 15 - 224 - 113 / 30
				C-CAR (Piarco)	10 - 15 - 224 - 114 / 30
				-	10 - 15 - 224 - 115 / 30
	30	10.15.224.116 / 30	Guyana-Suriname	-	10 - 15 - 224 - 116 / 30
				Guyana	10 - 15 - 224 - 117 / 30
				Suriname	10 - 15 - 224 - 118 / 30
				-	10 - 15 - 224 - 119 / 30

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NETWORK	LINK				
	No.	SUBNETWORK	CONNECTED ROUTERS	ADDRESSES TO USE	
1	2	3	4	5	
10.15.224.0 / 19	31	10.15.224.120 / 30	Guyana-Venezuela	-	10 - 15 - 224 - 120 / 30
				Guyana	10 - 15 - 224 - 121 / 30
				Venezuela	10 - 15 - 224 - 122 / 30
				-	10 - 15 - 224 - 123 / 30
	32	10.15.224.124 / 30	Peru-NAM	-	10 - 15 - 224 - 124 / 30
				Peru	10 - 15 - 224 - 125 / 30
				NAM (Atlanta)	10 - 15 - 224 - 126 / 30
				-	10 - 15 - 224 - 127 / 30
	33	10.15.224.128 / 30	Peru-Bolivia	-	10 - 15 - 224 - 128 / 30
				Peru	10 - 15 - 224 - 129 / 30
				Bolivia	10 - 15 - 224 - 130 / 30
				-	10 - 15 - 224 - 131 / 30
	34	10.15.224.132/ 30	Peru-Colombia	-	10 - 15 - 224 - 132 / 30
				Peru	10 - 15 - 224 - 133 / 30
				Colombia	10 - 15 - 224 - 134 / 30
				-	10 - 15 - 224 - 135 / 30
	35	10.15.224.136 / 30	Peru-Venezuela	-	10 - 15 - 224 - 136 / 30
				Peru	10 - 15 - 224 - 137 / 30
				Venezuela	10 - 15 - 224 - 138 / 30
				-	10 - 15 - 224 - 139 / 30
	36	10.15.224.140 / 30	Suriname-Venezuela	-	10 - 15 - 224 - 140 / 30
				Suriname	10 - 15 - 224 - 141 / 30
				Venezuela	10 - 15 - 224 - 142 / 30
				-	10 - 15 - 224 - 143 / 30
	37	10.15.224.144 / 30	Venezuela-CAM	-	10 - 15 - 224 - 144 / 30
				Venezuela	10 - 15 - 224 - 145 / 30
				CAM (San Juan)	10 - 15 - 224 - 146 / 30
				-	10 - 15 - 224 - 147 / 30
	38	10.15.224.148 / 30	Venezuela-EUR	-	10 - 15 - 224 - 148 / 30
				Venezuela	10 - 15 - 224 - 149 / 30
				EUR (Madrid)	10 - 15 - 224 - 150 / 30
				-	10 - 15 - 224 - 151 / 30
	39	10.15.224.152 / 30	Venezuela-Trinidad & Tobago	-	10 - 15 - 224 - 152 / 30
				Venezuela	10 - 15 - 224 - 153 / 30
				Trinidad & Tobago	10 - 15 - 224 - 154 / 30
				-	10 - 15 - 224 - 155 / 30
	40	10.15.224.156 / 30	VACANT	-	10 - 15 - 224 - 156 / 30
				-	10 - 15 - 224 - 157 / 30
				-	10 - 15 - 224 - 158 / 30
				-	10 - 15 - 224 - 159 / 30
	41	10.15.224.160 / 30	VACANT	-	10 - 15 - 224 - 160 / 30
				-	10 - 15 - 224 - 161 / 30
				-	10 - 15 - 224 - 162 / 30
				-	10 - 15 - 224 - 163 / 30

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NETWORK	LINK				
	No.	SUBNETWORK	CONNECTED ROUTERS	ADDRESSES TO USE	
1	2	3	4	5	
10.15.224.0 / 19	42	10.15.224.164 / 30	VACANT	-	10 - 15 - 224 - 164 / 30
				-	10 - 15 - 224 - 165 / 30
				-	10 - 15 - 224 - 166 / 30
				-	10 - 15 - 224 - 167 / 30
	-	-	-	-	-
					-
					-
				-	-
	-	-	-	-	-
					-
					-
				-	-
	2048 (last)	10.15.224.252 / 30	VACANT	-	10 - 15 - 224 - 252 / 30
					10 - 15 - 224 - 253 / 30
					10 - 15 - 224 - 254 / 30
				-	10 - 15 - 224 - 255 / 30

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TABLE CNS II-CARSAM-26- AERONAUTICAL MOBILE SERVICE AND AMSS

EXPLANATION OF THE TABLE

Column

1 The name of the State and the locations within the same where the service is provided.

2 The required services or functions are provided. Suitable abbreviations for these services or functions are listed below.

ACC-L Area control service for flights up to FL 250. ACC-

SR-I Area radar control service up to FL 250.

ACC-SR-U Area radar control service up to FL 450. ACC-U

Area control service up to FL 450.

AFIS Aerodrome flight information service. APP

Approach control service.

APP-L Approach control services below FL 120. APP-I

Approach control service below FL 250.

APP-PAR Precision approach radar service up to FL 40.

APP-SR-I Surveillance radar approach control service up to FL 250. APP-SR-L

Surveillance radar approach control service up to FL 120. APP-SR-U

Radar approach control service up to FL 450. APP-U

Approach control service below FL 450.

ATIS Automatic terminal information service.

D-ATIS Data link-automatic terminal information service. CLRD

Clearance delivery.

FIS Flight information service. VHF-

ER VHF Extended range.

GP Facility providing VHF or HF en-route general purpose system (GPS) communication. These facilities provide air-ground radiotelephony for all categories of messages listed in Annex 10, Volume II, 5.1.8. This system of communication is normally indirect, i.e. exchanged through the intermediary of a third person who is usually a communicator at an aeronautical station.

SMC Surface movement control up to limits of aerodrome. TWR

Aerodrome control service.

VOLMET VOLMET broadcast.

3 Number of voice VHF channels for the corresponding services indicated in column 2.

4 Number of VHF channels for data communication for the corresponding services indicated in column 2.

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5 HF network designators for the corresponding services indicated in column 2.

6 Requirement for HF data link (x) for the corresponding services indicated in column 2.

7 Requirement for satellite voice communications (x) for the corresponding services indicated in column 2.

8 Requirement for satellite data communications (x) for the corresponding services indicated in column 2.

9 Requirement for Mode S data communications (x) for the corresponding services indicated in column 2.

10 Remarks.

Commented [AJ3]: Arreglar formato de acuerdo a la ultima versión ese cambio ha producido un corrimiento d ela información después de la fila APP-SR-I

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
ANGUILLA (United Kingdom)									
TOPF THE VALLEY/Wall Blake, Anguilla I.	TWR	1							
ANTIGUA AND BARBUDA									
TAPA SAINT JOHNS/ V.C. Bird Antigua I.	APP TWR SMC APP-SR-I D-ATIS	1 1 1 1 1							
ARGENTINA									
SAEU BUENOS AIRES	ACC GP	11 2	2	SAM-1 SAM-2	X	X	X		
SABE BUENOS AIRES/ Aeroparque Jorge Newbery	APP TWR ATIS GP	5 5 1 1							
SAEZ BUENOS AIRES/ Ezeiza, Ministro Pistarini	APP ATIS TWR GP	5 1 5 1							
SADF BUENOS AIRES/San Fernando	APP TWR	3 3							
SARI CATARATAS DEL IGUAZU/My. Carlos Eduardo K.	APP TWR ATIS	2 2 1							
SAVF COMODORO RIVADAVIA	ACC GP	3 1	1	SAM-1	X	X	X		
SAVC COMODORO RIVADAVIA/General Mosconi	APP TWR GP	4 4 1							
SACF CORDOBA	ACC-U GP	6 1	1	SAM-1					
SACO CORDOBA/Ing. A. Taravella	APP TWR GP	6 6 1							
	ATIS	1							
SARF FORMOSA/Formosa	APP TWR	2 2							
SASJ JUJUY/Gobernador Guzmán	APP TWR	2 2							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
SAZM MAR DEL PLATA/ Brig. Gral. B. de la Colina	APP TWR ATIS	5 5 1							
SAMF MENDOZA	ACC GP	3 1	1	SAM-1					
SAME MENDOZA/El Plumerillo	APP TWR ATIS GP	4 4 1 1							
SAZN NEUQUEN/Presidente Perón	APP TWR ATIS	1 1 1							
SARP POSADAS/Libertador Gral. D. José de San Martín	APP TWR	2 2							
SARR RESISTENCIA	ACC GP	3 1	1	SAM-1	X				
SARE RESISTENCIA/ Resistencia	APP TWR ATIS GP	3 3 1 1							
SAWG RIO GALLEGOS/ Piloto Civil N. Fernández	APP TWR ATIS GP	3 3 1 1							
SAWE RIO GRANDE/ Río Grande	APP TWR	3 3							
SAAR ROSARIO/Rosario	APP TWR ATIS	2 2 1							
SASA SALTA/Salta	APP TWR GP	2 2 1							
SAZS SAN CARLOS DE BARILOCHE/San Carlos de Bariloche	APP TWR ATIS GP	3 3 1 1							
SANT TUCUMAN/Tte. Benjamin Matienzo	APP TWR GP	2 2 1							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
SAWH USHUAIA/Malvinas Argentinas	APP TWR GP	3 3 1							
ARUBA									
TNCA ORANJESTAD/ Reina Beatriz, Aruba I.	APP-SR-L APP-L TWR SMC D-ATIS	1 1 1 1 1							
BAHAMAS									
MYBS ALICE TOWN/ South Bimini, Bimini I.	TWR	1							
MYSM COCKBURN TOWN/ San Salvador I.	TWR	1							
MYGF FREEPORT/Intl., Grand Bahama I.	APP-U APP-L TWR SMC	1 1 1 1							
MYEG GEORGETOWN/ Georgetown, Exuma Intl.	APP-L TWR	1 1							
MYEM GOVERNOR=S HARBOUR/ Governor=s Harbour, Eleuthera I.	APP-L TWR	1 1							
MYNA NASSAU	ACC-U GP ACC-L	3 1 1							
MYNN NASSAU/Intl., New Providence I.	APP-I TWR SMC APP-SR-I D-ATIS	1 1 1 1 1							
MYEH NORTH ELEUTHERA/ New Providence I.	TWR	1 1							
MYLS STELLA MARIS/Long Island I.	TWR	1							
MYAT TREASURE CAY/ Treasure Cay, Abaco I.	TWR APP-L	1 1							
MYGW WEST END/West End, Grand Bahama I.	TWR	1							
BARBADOS									
TBPB BRIDGETOWN/ Grantley Adams Intl.	APP-U APP-I TWR SMC APP-SR-U D-ATIS	1 5 1 1 1 1							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
BELIZE									
MZBZ BELIZE/Intl.	APP-I APP-I TWR SMC D-ATIS	1 1 1 1 1							
BERMUDA									
TXKF BERMUDA/ L. F. Wake Intl.	APP CLRD D-ATIS SMC TWR	2 1 1 1 2							
BOLIVIA									
SLCB COCHABAMBA/Jorge Wilsterman	TWR APP-I SMC	1 2 1	1	SAM-1 SAM-2	X				
SLLP LA PAZ	ACC-U ACC-U GP ACC-L	1 1-ER 1 1							
SLLP LA PAZ/El Alto Intl.	APP-I TWR SMC	3 1 1							
SLVR SANTA CRUZ/Viru-Viru Intl.	APP-I TWR SMC	3 1 1							
SLTJ TARIJA/Oriel Lea Plaza	APP-I TWR	1 1							
SLTR TRINIDAD/Tte. Av. Jorge Henrich Arauz	APP-I TWR SMC	2 1 1	TBD	SAM-2			X		
BRAZIL									
SBAZ.. AMAZONICA	ACC-SR-U VOLMET	24 8		SAM-2 SAT-1 SAT-2					
SBAO.. ATLANTICO	ACC-U								
SBBE BELEM/Val de Câes Intl.	APP-SR-I TWR SMC ATIS	4 1 1 1	TBD						
SBCF BELO HORIZONTE/ Tancredo Neves Intl.	APP-SR-I TWR SMC CLRD ATIS	4 1 1 1 1	TBD	SAM-2					

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
SBBV BOA VISTA/ Boa Vista Intl.	APP-I TWR SMC	1 2 1							
SBKP CAMPINAS/Viracopos Intl.	APP-SR-I TWR SMC	1 1 1							
SBCG CAMPO GRANDE/ Campo Grande Intl.	APP-SR-I TWR ATIS SMC	1 1 1 1							
SBCR CORUMBA/ Corumba Intl.	AFIS APP-I	1 1							
SBCZ CRUZEIRO DO SUL/ Cruzeiro do Sul Intl.	AFIS	1							
SBCY CUIABA/Marechal Rondon Intl.	APP-SR-I TWR	1 1							
SBCW CURITIBA	ACC-SR-U VOLVMET	10 2	TBD	SAM-2					
SBCT CURITIBA/ Afonso Peña Intl.	APP-SR-I TWR ATIS SMC CLRD	3 2 1 1 1							
SBFL FLORIANÓPOLIS/ Hercílio Luz Intl.	APP-SR-I TWR SMC ATIS	3 2 1 1							
SBFZ FORTALEZA/ Pinto Martins Intl.	APP-~~B~~SR-I TWR SMC CLRD ATIS	2 1 1 1 1							
SBFI FOZ DO IGUACU/ Cataratas Intl.	APP-SR-I TWR	2 1							
SBMQ MACAPA/ Macapa Intl.	APP-I TWR	1 1							
SBEG MANAUS/Eduardo Gomes Intl.	APP-SR-I TWR SMC ATIS	4 1 1 1							
SBNT NATAL/Augusto Severo Intl.	APP-SR-I TWR SMC CLRD ATIS	4 2 1 1 1							
SBPP PONTA PORÃ/ Ponta Porã Intl.	AFIS	1							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
SBPA PORTO ALEGRE/ Salgado Filho Intl	APP-SR-I TWR SMC CLRD ATIS	4 1 1 1 1							
SBRE RECIFE	ACC-SR-U VOLMET	16	TBD	SAT-2					
SBRF RECIFE/Guararapes Intl.	APP-SR-I TWR SMC ATIS CLRD	4 1 1 1 1							
SBGL RIO DE JANEIRO/ Galeão Antonio Carlos Jobim Intl.	APP-SR-I TWR SMC CLRD ATIS DATIS	6 2 1 1 1	 TBD X						
SBSV SALVADOR/Deputado Luis Eduardo Magalhães Intl.	APP-SR-I TWR SMC ATIS	4 1 1 1							
SBSN SANTAREM/ Santarem Intl.	APP-I TWR	2 1							
SBSL SÃO LUIS/Marechal Cunha Machado Intl.	APP-I TWR	1 1							
SBGR SÃO PAULO/ Guarulhos Intl.	TWR SMC CLRD ATIS DATIS	3 1 1 1	TBD 1						
SBTT TABATINGA/ Tabatinga Intl.	AFIS	1							
SBUG URUGUAIANA/ Rubem Berta Intl.	AFIS	1							
CAYMAN ISLANDS (United Kingdom)									
MWCB CAYMAN BRAC/ Gerrard Smith Intl.	TWR SMC	1 1							
MWCR GEORGETOWN/ Owen Roberts Intl.	APP-I TWR SMC D-ATIS	1 1 1 1							
CHILE									
SCFA ANTOFAGASTA/	APP-SR-I	2		SAM-1					Both APP frequencies are ER
Cerro Moreno	TWR SMC	1 1							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	GP	1							
SCAR ARICA/Chacalluta	APP-I TWR SMC	1 1 1							
SCIE CONCEPCION/ Carriel Sur	APP-I TWR SMC	1 1 1							
SCDA IQUIQUE/Gral. Diego Aracena	APP-SR-I TWR SMC GP	2 1 1 1-ER							
SCTZ PUERTO MONTT Tepual	ACC-U ACC-U GP	2-ER 1-ER 1-ER		SAM-1					
SCTE PUERTO MONTT/ El Tepual	TWR SMC	1 1							
SCCZ PUNTA ARENAS	ACC-U GP APP-SR-I	3 -ER 1 2		SAM-1					
SCCI PUNTA ARENAS/ Pdte. C. Ibáñez del Campo	TWR SMC	1 1							
SCEZ SANTIAGO	ACC-U	4-ER	2	SAM-1					Satelital red oceánico SITA
	GP APP-SR-I	2 -ER 4							
SCEL SANTIAGO/ Arturo Merino Benitez	CLRD TWR SMC ATIS	1 2 2 1	 1						2 freq. TWR 2 freq. SMC RWY 17R/17L
SCQP TEMUCO/Freire/La Araucania	APP-L TWR SMC	1 1 1							
COLOMBIA									
SKEC BARRANQUILLA	ACC-U GP	2 1	2	CAR-A	X				
SKBQ BARRANQUILLA/ Ernesto Cortissoz	APP-SR-I TWR SMC ATIS CLRD	2 1 1 1 1	 1						
SKED BOGOTA	ACC-U GP	5 1 -ER	4	SAM-2	X	X-[			
SKCL CALI	ACC-SR-I GP	1 1		SAM-1	X				
SKCL CALI/Alfonso Bonilla Aragón	APP-SR-I TWR SMC ATIS	1 1 1 1							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
SKCG CARTAGENA/ Rafael Núñez	TWR	1							
SKCC CUCUTA/Camilo Daza	APP-I TWR	1 1							
SLLT LETICIA/Alfredo Vásquez Cobo	APP-SR-I TWR	1 1							
SKRG RIO NEGRO/ José María Córdova	APP-SR-I TWR SMC ATIS	1 1 1 1							
SKSP SAN ANDRES I./ Sesquicentenario	APP-SR-I APP-I TWR SMC	1 1 1 1							
SKBO SANTA FE DE BOGOTA/Eldorado	APP-SR-I TWR SMC ATIS CLRD	3 2 2 1 1							
			1						
COSTA RICA									
MROC ALAJUELA/ Juan Santamaria Intl.	APP-SR-I TWR SMC D-ATIS GP	2 1 1 1 1							
MRLB LIBERIA/Tomás Guardia Intl.	APP-I TWR SMC	1 1 1							
MRLM LIMON/Limón Intl.	AFIS	1							
MRPV PAVAS/Tobías Bolaños Intl.	TWR SMC	1 1							
CUBA									
MUCM CAMAGUEY/ Ignacio Agramonte	APP-SR-L TWR	1 1							
MUCC CAYO COCO/ Jardines del Rey	APP-L TWR	1 1							
MUCL CAYO LARGO DEL SUR/Vilo Acuña	APP-L TWR	1 1							
MUHA HABANA	ACC-SR-U ACC-SR-I GP-U	5 3 -ER 2							
MUHA HABANA/José Martí	APP-SR-L APP-SR-I TWR SMC D-ATIS	1 1 1 1 1							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
MUHG HOLGUIN/Frank País	APP-SR-L	1							
	TWR	1							
MUCU SANTIAGO DE CUBA/ Antonio Maceo	APP-SR-I	1							
	TWR	1							
	SMC	1							
MUVR VARADERO/Juan Gualberto Gomez	APP-SR-L	1							
	TWR	1							
	SMC	1							
CURACAO									
TNCF Curacao	ACC-U	3-ER	2		X	X	X		
	GP	1							
TNCC WILLEMSTAB/Hato, Curacao I.	APP-I	1							
	TWR	1							
	SMC	1							
	APP-SR-I	1							
	D-ATIS	1							
DOMINICAN REPUBLIC									
MDBH BARAHONA/ Maria Montes Intl.	TWR	1							
	SMC	1							
MDCY EL CATEY/ El Catey Intl.	TWR	2							
	APP	1							
	SMC	1							
	D-ATIS	1							
MDEH EL HIGÜERO/ Dr. Joaquín Balaguer Intl.	TWR	2							
	APP	1							
	SMC	1							
MDLR LA ROMANA/ La Romana Intl.	APP-L	1							
	TWR	1							
	SMC	1							
MDPP PUERTO PLATA/ Gregorio Luperon	APP-SR-I	1							
	TWR	1							
	SMC	1							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
MDPC PUNTA CANA/Punta Cana Intl.	APP-L	1							
	TWR	1							
	SMC	1							
MDST SANTIAGO/Cibao Santiago Intl.	APP-L	1							
	TWR	1							
	SMC	1							
MDCS SANTO DOMINGO	ACC-U	4	1						
	ACC-SR-U	1							
	GP	1							
MDSD SANTO DOMINGO/ De las Américas Intl.	APP-SR-I	1							
	TWR	1							
	SMC	1							
	D-ATIS	1							
	CLRD	1							
ECUADOR									
SEGU GUAYAQUIL	ACC-U	1		SAM- 6					
	ACC-U	5-ER							
	FIS APP-	5-ER							
SEGU GUAYAQUIL/ Simón Bolívar	SR-I	2							
	APP-I	1							
	TWR	1							
	SMC	1							
	ATIS	1							
SELT LATACUNGA/Cotopaxi									
	TWR	1							
	SMC	1							
SEMT MANTA/Eloy Alfaro	APP-I	1							
	TWR	1							
	SMC	1							
SEQU QUITO/Mcal. Sucre	APP-SR-I	2							
	TWR	1							
	SMC	1							
	ATIS	1							
EL SALVADOR									
	APP-I	1							
MSLP SAN SALVADOR/ El Salvador Intl.	APP-I	1							
	APP-SR-I	1							
	TWR	1							
	SMC	1							
	GP	1							
	D-ATIS	1							
MSSS SAN SALVADOR/ Ilopango Intl.	APP-I	1							
	TWR	1							
	TWR	1							
	SMC	1							
FRENCH ANTILLES (France)									
TFFF FORT-DE-FRANCE Le Lamentin, Martinique	APP-U	1							
	APP-I	1							
	TWR	1							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
	APP-SR-I D-ATIS SMC	1 1 1							
TFFR POINTE-A-PITRE/ Le Raizet, Guadeloupe	APP-U APP-I TWR APP-SR-I D-ATIS SMC	1 2 1 1 1 1							
TFFJ SAINT-BARTHELEMY/ Saint-Barthelemy	AFIS	1							
TFFG SAINT MARTIN/ Grand Case, Guadeloupe	AFIS	1							
FRENCH GUIANA (France)									
SOOO CAYENNE	ACC-U GP	2 1		CAR-A SAM-2 SAT-2					
SOCA CAYENNE/ Rochambeau	APP-SR-I TWR SMC ATIS	1 1 1 1							
GRENADA									
TGPZ LAURISTON/ Carriacou	TWR	1							
TGPY SAINT GEORGES/ Point Salines	APP-L TWR SMC	1 1 1							
GUATEMALA									
MGFL FLORES/Flores	APP-L TWR	1 1							
MGGT GUATEMALA/ La Aurora	APP-SR-I TWR SMC D-ATIS GP	1 1 1 1 1							
MGPB PUERTO BARRIOS/ Puerto Barrios	TWR	1							
MGSJ SAN JOSE/San José	TWR	1							
GUYANA									
SYGC GEORGETOWN	ACC-U ACC-U GPS ACC-L	1 1-ER 1 1	1	CAR-A SAM-2	X				

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
SYCJ TIMEHRI/									
Cheddi Jagan Intl.	APP-L	1							
	TWR	1							
	SMC	1							
	FIS	1							
HAITI									
MTCH CAP HAITIEN/Intl.	APP-L	1							
	TWR	1							
MTEG PORT-AU-PRINCE	ACC-SR-U	2	1						
	GP	1							
MTPP PORT-AU-PRINCE/Intl.	APP-SR-I	1							
	APP-I	1							
	TWR	1							
	SMC	1							
	D-ATIS	1							
HONDURAS									
MHRO COXEN HOLE/Juan	TWR	1							
Manuel Gálvez Intl.	SMC	1							
MHLC LA CEIBA/	APP-L	1							
Golosón Intl.	TWR	1							
	SMC	1							
MHLM SAN PEDRO SULA/	APP-I	1							
La Mesa Intl.	TWR	1							
	SMC	1							
	GP	1							
	D-ATIS	1							
MHTG TEGUCIGALPA	ACC-SR-U	7	3	CAR-A	X	X	X		
(CENAMER)				SAM-1					
	GP	1							
MHTG TEGUCIGALPA/	APP-I	1							
Toncontin	TWR	1							
	SMC	1							
	GP	1							
	D-ATIS	1							
JAMAICA									
MKJK KINGSTON	ACC-SR-U	1	2		X	X	X		
	ACC-U	5							
	GP	1							
MKJP KINGSTON/Norman	APP-SR-1	1							
Manley Intl.	APP-I	1							
	TWR	1							
	SMC	1							
	D-ATIS	1							
MKJS MONTEGO BAY/	APP-SR-I	1							
Sangster Intl.	APP-I	1							
	TWR	1							
	SMC	1							
	D-ATIS	1							
MEXICO									

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
MMAA ACAPULCO/Gral. Juan Alvarez Intl.	APP-SR-I APP-SR-L D-ATIS SMC TWR GP	1 1 1 1 1 1							
MMAS AGUASCALIENTES/ Jesus Teran Intl.	TWR	1							
MMBT BAHIAS DE HUATULCO/ Bahías de Huatulco	TWR	1							
MMSL CABO SAN LUCAS/	TWR	1							
MMCP CAMPECHE/ Ignacio Alberto Acuña Ongay Intl.	TWR	1							
MMUN CANCUN/ Cancún Intl.	APP-L APP-I SMC TWR D-ATIS CLRD GP	1 1 1 1 1 1 1							
MMCM CHETUMAL/ Chetumal Intl.	TWR	1							
MMCT CHICHEN-ITZA/ Chichen-Itza Intl.	TWR	1							
MMCU CHIHUAHUA/ Gral. Roberto Fierro Villalobos Intl.	APP-I TWR D-ATIS GP	1 1 1 1							
MMMC CIUDAD ACUÑA/ Ciudad Acuna Intl.	AFIS	1							
MMCE CIUDAD DEL CARMEN/ Ciudad del Carmen Intl	TWR	1							
MMCS CIUDAD JUAREZ/ Abraham González Intl.	APP-I TWR	1 1							
MMCN CIUDAD OBREGON/ Ciudad Obregon Intl.	TWR	1							
MMCV CIUDAD VICTORIA/ Gral. Pedro Jose Mendez Intl.	TWR	1							
MMCB CUERNAVACA/ Gral. Mariano Matamoros Intl.	TWR	1							
MMCZ COZUMEL/ Cozumel Intl.	TWR	1							
MMCL CULIACAN/ Fidel Bachiqualato	APP-I TWR GP	1 1 1							
MMDO DURANGO/ Pte.Guadalupe Victoria, Intl.	TWR	1							

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
MMGL GUADALAJARA/ Don Miguel Hidalgo y Costilla Intl.	APP-SR-I APP-SR-L D-ATIS SMC TWR CLRD GP	1 1 1 1 1 1 1							
MMGM GUAYMAS/ Gral. José María Yáñez Intl.	TWR	1							
MMHO HERMOSILLO/ Gral.Ignacio Pesqueira Garcia Intl.	APP-I D-ATIS TWR SMC	1 1 1 1							
MMZH IXTAPA- ZIHUATANEJO/ Ixtapa-Zihuatanejo Intl.	APP-I TWR	1 1 1							
MMLP LA PAZ/ Gral. M. Márquez de León Intl.	APP-I TWR	1 1							
MMLO LEON/ Guanajuato	APP-L TWR	1 1							
MMLM LOS MOCHIS/ Valle del Fuerte Intl.	TWR	1							
MMLT LORETO/ Loreto Intl.	TWR	1							
MMZO MANZANILLO/ Playa de Oro Intl.	APP-L TWR	1 1							
MMMA MATAMOROS/ Gral.Servando Canales	APP-L TWR	1 1							
MMMZ MAZATLAN/ Gral.Rafael Buelna Intl.	ACC-SR-L ACC-SR-U APP-I SMC TWR D-ATIS GP	4 4 1 1 1 1 1	5		X	X	X		
MMID MERIDA/ Lic. M. Crescencio Rejón Intl.	ACC-SR-L ACC-SR-U APP-I D-ATIS GP TWR	3 4 1 1 1 1	3	CAR-A	X	X	X		
MMML MEXICALI/. Gral R. Sánchez Taboada Intl.	APP-I TWR	1 1							
MMMX MEXICO/ Lic. Benito Juárez Intl.	ACC-SR-L ACC-SR-U APP-SR-I APP-SR-L D-ATIS GP SMC TWR CLRD	5 5 1 1 1 1 1 1 1	3		X	X	X		

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
MMMT MINATITLAN/ Minatitlan Int.	TWR	1							
MMAN MONTERREY/ Aeropuerto Del Norte Intl.	TWR	1							
MMMY MONTERREY/ Gral. Mariano Escobedo Intl.	ACC-SR-L ACC-SR-U APP-SR-I APP-SR-L D-ATIS GP SMC TWR	2 2 1 1 1 1 1 1	3		X	X	X		
MMMM MORELIA/ Gral. Francisco Mujica Intl.	APP-L TWR	1 1							
MMNG NOGALES/ Nogales Intl.	AFIS	1							
MMNL NUEVO LAREDO/ Quetzalcoatl Intl.	APP-L TWR	1 1							
MMOX OAXACA/ Oaxaca Intl.	TWR D-	1							
MMPG PIEDRAS NEGRAS/Intl.	ATIS	1							
MMPA POZA RICA/ Tajin Intl.	TWR	1							
MMPB PUEBLA/ Hermanos Serdan Intl.	TWR	1							
MMPS PUERTO ESCONDIDO/ Puerto Escondido Intl.	TWR	1							
MMPE PUERTO PEÑASCO/ Puerto Peñasco Intl.	TWR	1							
MMPR PUERTO VALLARTA/ Lic. Gustavo Díaz Ordaz Intl.	APP-SR-I APP-SR-L D-ATIS SMC TWR	1 1 1 1 1							
MMQT QUERETARO/ Queretaro Int.	TWR	1							
MMRX REYNOSA/ Gral. Lucio Blanco Intl.	APP-L TWR	1 1							
MMIO SALTILLO/ Plan de Guadalupe Intl.	TWR	1							
MMSC SAN CRISTOBAL DE LAS CASAS/ San Cristobal de las Casas Intl	TWR	1							
MMSF SAN FELIPE/ San Felipe Intl.	AFIS	1							

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Country and location 1	Service or function 2	VHF voice 3	VHF data 4	HF voice 5	HF data 6	Satellite voice 7	Satellite data 8	Mode S 9	Remarks 10
MMSD SAN JOSE DEL CABO/San José del Cabo Intl.	APP-I TWR GP	1 1 1							
MMSP SAN LUIS POTOSI/ Ponciano Arriaga Intl.	TWR	1							
MMTM TAMPICO/ Gral.Francisco Javier Mina Intl.	APP-I TWR GP	1 1 1							
MMTP TAPACHULA/ Tapachula Intl.	TWR	1							
MMEP TEPIC/ Tepic Intl.	TWR	1							
MMTJ TIJUANA/ Gral. Abelardo L. Rodríguez Intl.	APP-SR-I APP-SR-L D-ATIS GP TWR SMC	1 1 1 1 1 1							
MMTO/TOLUCA/ Lic. Adolfo Lopez Mateos	TWR GP	1 1							
MMTC TORREON/ Torreón Intl.	APP-L TWR	1 1							
MMTG TUXLA GUTIERREZ/ Gral. Angel Albino Corzo Intl.	TWR	1							
MMPN URUAPAN/ Gral. Ignacio Lopez Rayon Intl.	TWR	1							
MMVA VILLAHERMOSA/ C.P.A. Carlos Rovirosa	APP-L TWR	1 1							
MMVR VERACRUZ/Gral. Heriberto Jara Intl.	APP-L TWR	1 1							
MMZC ZACATECAS/Gral. Leobardo Ruíz Intl.	APP-I TWR	1 1							
MONTSERRAT (United Kingdom)									
TRPM PLYMOUTH/ Blackburne, Montserrat I.	APP-L TWR	1 1							
NETHERLANDS									
TNCB KRALENDIJK/ Flamingo, Bonaire I.	APP-I TWR	1 1							
TNCE ORANJESTAD/ F.D. Rossevelt, St. Eustacius I.	TWR	1							

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Country and location 1	Service or function 2	VHF voice 3	VHF data 4	HF voice 5	HF data 6	Satellite voice 7	Satellite data 8	Mode S 9	Remarks 10
NICARAGUA									
MNMG MANAGUA/Augusto César Sandino Intl.	APP-I TWR SMC GP D-ATIS	1 1 1 1 1							
MNPC PUERTO CABEZAS/ Puerto Cabezas	TWR	1							
PANAMA									
MPBO BOCAS DEL TORO/ Bocas del Toro	AFIS	1							
MMPCH CHANGUINOLA/ Cap. Manuel Niño	TWR	1							
MPDA DAVID/Enrique Malek	TWR SMC	1 1							
MPMG PANAMA/Marcos A. Gelabert	TWR SMC CLRD	1 1 1							
MPZL PANAMA	ACC-U ACC-SR-U APP-SR-I GP	2 1 3 1							
MPTO PANAMA/Tocumen	TWR SMC ATIS-D CLRD	1 1 1 1	1	CAR-A SAM-1	X	X	X		
PARAGUAY									
SGFA ASUNCION	ACC-U ACC-U GP	1 1 -ER 1							
SGAS ASUNCION/ Silvio Pettirossi	APP-SR-I APP-I TWR SMC	1 2 1 1							
SGES CIUDAD DEL ESTE/ Guarani	APP-SR-I TWR	1 1	1	SAM-1 SAM-2	X				

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Country and location	Service or function	VHF voice	VHF data	HF voice	HF data	Satellite voice	Satellite data	Mode S	Remarks
1	2	3	4	5	6	7	8	9	10
PERU									
SPQU AREQUIPA/	APP-SR-I	1							
Rodríguez Ballón Intl.	TWR SMC	1 1							
SPHI CHICLAYO/ Cap. José Quiñones Gonzáles	TWR SMC	1 1							
SPZO CUZCO/Velazco Astete	APP- I TWR ATIS	1 1 1							
SPQT IQUITOS/Cnel. FAP	APP-SR-I	1							
Francisco Secada Vignetta	TWR SMC	1 1							
SPIM LIMA	ACC-SR-U	4 -ER		SAM-1					
SPIM LIMA-CALLAO/Jorge Chávez Intl.	APP-SR-I TWR SMC CLRD ATIS	3 1 1 1 1							
SPSO PISCO/Pisco	APP-I TWR SMC	1 1 1							
SPTN TACNA/Cnel. FAP Carlos Ciriani Santa Rosa	APP-I TWR	1 1							
SPRU TRUJILLO/Cap. Carlos Martínez de Pinillos	APP-I TWR	1 1							
PUERTO RICO (United States)									
TJBQ AGUADILLA/Rafael Hernández Intl.	TWR	1							
TJFA FAJARDO/Diego Jiménez Torres	TWR	1							
TJMZ MAYAGUEZ/Mayaguez	SMC TWR	1 1							
TJPS PONCE/Mercedita	TWR SMC APP-L	1 1							
TJZS SAN JUAN	ACC-U GP-U	11	4	CAR-A CAR-B NAT-A	X	X	X		
TJSJ SAN JUAN, PUERTO RICO/Luis Muñóz Marin Intl.	D-ATIS TWR	1 2							

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Country and location 1	Service or function 2	VHF voice 3	VHF data 4	HF voice 5	HF data 6	Satellite voice 7	Satellite data 8	Mode S 9	Remarks 10
	SMC APP-SR-I	1 2							
TJVQ VIEQUES/Antonio Rivera	TWR	1							
SAINT KITTS AND NEVIS									
TKPK BASSETERRE/Golden Rock, Saint Kitts I.	APP-L TWR	1 1							
TKPN CHARLESTOWN/ Newcastle, Nevis I.	TWR	1							
SAINT LUCIA									
TLPC CASTRIES/Vigie	TWR SMC	1 1							
TLPL VIEUX-FORT/ Hewanorra Intl.	APP-L TWR SMC	1 1 1							
SAINT VINCENT AND THE GRENADINES									
TVSV BEQUIA/J. F. Mitchel	TWR	1							
TVSC CANOUAN/Canouan	TWR	1							
TVSV KINGSTOWNE/ E.T. Joshua	APP-L TWR	1 1							
TVSM MUSTIQUE/Mustique	TWR	1							
TVSU UNION ISLAND/ Union Island	TWR	1							
SINT MAARTEN									
TNCM PHILISBURG/ Princess Juliana, St. Maarten I.	APP-I TWR SMC	1 1 1							
SURINAME									
SMNI NEW NICKERIE/ Maj. Fernandes	TWR SMC	1 1							
SMPM PARAMARIBO	ACC-U GP	1 -ER 1							
~~SMZO PARAMARIBO/ Zorg en Hoop~~	~~TWR SMC~~	~~1 1~~							
SMJP ZANDERY/Johan A. Pengel	APP-I TWR SMC	1 1 1							
TRINIDAD AND TOBAGO									
TTZP PIARCO	ACC-SR-U ACC-U GP	3 4 1	2	CAR-A CAR-B SAM-2	X	X	X		

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Country and location 1	Service or function 2	VHF voice 3	VHF data 4	HF voice 5	HF data 6	Satellite voice 7	Satellite data 8	Mode S 9	Remarks 10
TTPP PORT OF SPAIN/ Piarco Intl., Trinidad I.	APP-I APP-SR-I TWR SMC ATIS	1 2 1 1 1							
TTCP SCARBOROUGH/ Crown Point, Tobago I.	APP-I TWR SMC	1 1 1							
TURKS AND CAICOS ISLANDS (United Kingdom)									
MBGT GRAND TURK/ Grand Turk Intl.	APP-L TWR	1 1							
MBPV PROVIDENCIALES/ Intl.	APP-L TWR	1 1							
MBSC SOUTH CAICOS/Intl.	APP-L TWR	1 1							
UNITED STATES									
KZWY NEW YORK	GP-U	1-ER	1	CAR-A CAR-B	X	X	X		
URUGUAY									
SUCA COLONIA/ Departamental de Colonia	TWR	1							
SULS MALDONADO C/C Carlos A. Curbelo Intl Laguna del Sauce	TWR SMC ATIS	1 1 1							
SUAA MONTEVIDEO/Angel S. Adami Intl.	TWR	1							
SUEO MONTEVIDEO	ACC-U	3	1	SAM-1 SAM-2 SAT-X*	X	X	X		
SUMU MONTEVIDEO/ Carrasco Intl. Gral. Cesareo Berisso	APP-SR-I APP-I SMC TWR ATIS	1 1 1 1 1							
SURV RIVERA/Cerro Chapeau Intl.	TWR	1							
SUSO SALTO/Intl. Nueva Hesperides	TWR	1							
VENEZUELA									
SVBC BARCELONA/Gral. José Antonio Anzoátegui Intl.	APP-SR-I TWR SMC ATIS GP	2 2 1 1 1							
SVZM MAIQUETIA	ACC-SR-U GP	6 1		CAR-A SAM-2					

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Country and location 1	Service or function 2	VHF voice 3	VHF data 4	HF voice 5	HF data 6	Satellite voice 7	Satellite data 8	Mode S 9	Remarks 10
SVMI CARACAS/Maiquetía, Simón Bolívar	APP-SR-L TWR SMC ATIS CLRD	2 2 2 1 1	1						
SVMC MARACAIBO/ La Chinita Intl.	APP-SR-I TWR SMC ATIS GP	2 1 1 1							
SVMG MARGARITA/Intl. Del Caribe, General Santiago Marino	APP-SR-I TWR SMC ATIS GP	1 1 1 1 1							
SVJC PARAGUANA/Josefa Camejo	APP TWR SMC ATIS	1 1 1 1							
SVSA SAN ANTONIO DEL TACHIRA/San Antonio del Tachira	APP TWR SMC	1 1 1							
SVVA VALENCIA/Zim Valencia	APP TWR SMC ATIS GP	1 1 1 1 1							
VIRGIN ISLANDS (United Kingdom)									
TUPJ ROADTOWN/ Beef Island	APP-L TWR ATIS	1 1 1							
TUPW VIRGIN GORDA/ Virgin Gorda	TWR	1							
VIRGIN ISLANDS (United States)									
TISX SAINT CROIX/Henry E. Rohlsen, St. Croix	APP-I TWR SMC	1 1 1							
TIST SAINT THOMAS/ Cyril E. King	APP-I TWR SMC D-ATIS	1 1 1 1							

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TABLE CNS II-CARSAM-~~37~~– RADIO NAVIGATION AIDS PLAN

EXPLANATION OF THE TABLE

Column	
1	Name of the country, city and aerodrome and, for route aids, the location of the installation.
2	The designator number and runway type: NINST - Visual flight runway NPA - Non precision approach runway PA1 - Precision approach runway, Category I PA2 - Precision approach runway, Category II PA3 - Precision approach runway, Category III
3	The functions carried out by the aids appear in columns 4 to 8 and 10 to 12. A/L - Approach and landing T - Terminal E - En route
4	ILS - Instrument landing system. Roman numerals I, II and III indicate the acting category of the ILS I, II or III. The letter D indicates a DME requirement to serve as a substitute for a marker beacon component of an ILS. *Note. Indication of the category refers to the performance standard to be achieved and maintained, in accordance with pertinent specifications in ICAO Annex 10, and not to specifications of the ILS equipment, since both specifications are not necessarily the same.* An asterisk (*) indicates that the ILS requires a Category II signal, but without the reliability and availability which redundant equipment and automatic switching provide.
5	Radio beacon localizer, be it associated with an ILS or to be used as an approach aid at an aerodrome.
6	Radiotelemetrical equipment. When an X appears in column 6 in line with the VOR in column 7, this indicates the need that the DME be installed at a common site with the VOR.
7	VOR - VHF omnidirectional radio range.
8	NDB - Non-directional radio beacon.
9	The distances and altitude to which the VOR or VOR/DME signals are required, indicated in nautical miles (NM) or thousands of feet, or the nominal coverage recommended of the NDB, indicated in nautical miles.
10, 11, 12	GNSS global navigation satellite system (includes ABAS, GBAS and SBAS). ABAS (aircraft-based augmentation system) GBAS (ground-based augmentation system) implementation planned to be used in precision approach and landing CAT I, CAT II, CAT III. SBAS (satellite-based augmentation system) implementation planned to be used for route navigation, for terminal, for non precision approach and landing. An X indicates service availability; exact location of installation will be determined. *Note. GPS receiver is under standard rules and ABAS (aircraft-based augmentation system).*
13	Remarks

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
ANGUILLA (United Kingdom)												
THE VALLEY WALL BLAKE, Anguilla I.	10 NPA	A/L					X		X		X	
ANTIGUA AND BARBUDA												
SAINT JOHNS/V.C. Bird, Antigua I.	07 PA1	A/L	II* D		X	X	X			X		
	25 NPA	A/L							X	X		
		T			X	X					X	
		E			X	X		200/45			X	
		E					X	400			X	
ARGENTINA												
BUENOS AIRES/Aeroparque Jorge Newbery	13 PA1	A/L	II D		X	X	X			X		
BUENOS AIRES/Ezeiza	11 PA3	A/L	III D		X	X	X			X		
Ministro Pistarini	35 PA1	A/L	II		X	X				X		
		T			X	X						
		E			X	X		160/45				
BUENOS AIRES/San Fernando	23 NPA	A/L			X	X						
		T			X	X						
CATARATAS DEL IGUAZU/My. D.	31 PA1	A/L	I D		X	X	X			X		
Carlos Eduardo Krause	13 NPA	A/L				X						
		T/E			X	X		190/45				
CERES		E			X	X		200/45				

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
COMODORO RIVADAVIA/Gral.	25 PA1	A/L	I		X	X	X			X		
Mosconi	07 NINST											
		E			XI	XI		200/45			X	
		E					XI					
CORDOBA/Ing. Aer. A. L. Taravella	18 PA1	A/L	II* D		X	X	X			X		
	36 NINST											
		T			X	X	X					
		E			X	X		200/45				
		E					X	90				
FORMOSA/Formosa	03 NPA	A/L			X	X	X	200/45				
	21 PA1	A/L	I		X	X	X			X		
		T			X	X	X					
		E			X	X						
GENERAL PICO		E				X	X	160/45				
		A/L					X					
GUALEGUAYCHU		E						190/45				
JUJUY/Jujuy	33 PA1	A/L	I D		X	X	X			X		
	15 NINST											
		T/E			X	X	X	200/45				
		E					X	200				
JUNIN		E				X		200/45				
		E					X	100				
		A/L					X					

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
LABOULAYE		E			X	X		200/45				
LA PLATA		E				X		230/45				
		E					X	110				
LAS LOMITAS		E				X		200/45				
MALARGUE		E			X	X		250/45				
		E					X					
MAR DE PLATA/Brig. Gral. B. de la	13 PA1	A/L	II D		X	X	X			X		
Colina	31 NINST											
		T			X	X	X					
		E			X	X		250/45				
		E					XI	110				
MARCOS JUAREZ		E			X	X		200/45				
MENDOZA/El Plumerillo	18 NPA	A/L			X	X	XI					
	36 PA1	A/L	II D		X	X	X					
		T			X	X	X					
		E			X	X		210/45				
MONTE CASEROS		E			X	X		210/45				
NEUQUEN/Presidente Peron	08 PA1	A/L	I		X	X				X		
	26 NINST											
		T/E			X	X		200/45				
		E					X					

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
ORAN		E					X	70				
POSADAS/Libertador Gral. D. José de	01 NPA	A/L			X	X	X					
San Martín	19 PA1	A/L	II D		X	X	X			X		
		T			X	X						
		E			X	X		200/45				
RECONQUISTA		E			XI	XI	XI	200/45				
RESISTENCIA/Resistencia	21 PA1	A/L	II (I)		X	X	X			X		
	03 NINST											
		T/E			X	X		200/45				
		E					XI	200				
RIO GALLEGOS/Piloto Civil	25 PA1	A/L	II D		X	X	X			X		
N. Fernández	07 NPA	A/L			X	X	X					
		T/E			X	X		200/45				
		E					X	80				
RIO GRANDE/Rio Grande	25 PA1	A/L	I D		X	X				X		
		T/E			X	X		200/45				
		E					X	200				
ROSARIO/Rosario	19 PA1	A/L	I		X	X	X			X		
	01 NINST											
		T/E			X	X		200/45				

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
SALTA/Salta	01 PA1	A/L	I D		X	X	X			X		
	19 NINST											
		T/E			X	X		200/45				
SAN ANTONIO DE ARECO		E			X	X		200/45				
		E					X	150				
SAN CARLOS DE BARILOCHE/San	11 NPA	A/L			X	X						
Carlos de Bariloche	29 PA1	A/L	I D		X	X	X			X		
		T/E			X	X		200/45				
		E					X	150				
SAN JUAN		E			X	X	X	230/45				
		E					X					
SAN RAFAEL		E				X		180/45				
TANDIL		E			X	X	X	210/45				
TRELEW		E			X	X	XI	200/45				
TUCUMAN/Tte. Benjamín Matienzo	01 PA1	A/L	I		X	X	X			X		
	19 NINST	T/E			X	X		290/45				
USHUAIA/Malvinas Argentinas	25 PA1	A/L	I D			X				X		
	07 NPA	A/L				X						
		E				X		200/45				
ARUBA (Netherlands)												

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
ORANJESTAD/Reina Beatrix, Aruba I.	11 PA1	A/L	II* D		X	X				X		
	29 NPA	A/L							X	X		
		T			X	X						
		E			X	X		200/45				
BAHAMAS												
ALICE TOWN/South Bimini, Bimini I.	NINST	T			X	X			X			
		E			X	X		200/45				
		E					X	285				
CAPE ELEUTHERA/Cape Eleuthera, Eleuthera I.	NINST								X			
FREEPORT/Intl, Grand Bahama I.	06 PA1	A/L	II		X	X	X		X	X		
	24 NPA	A/L							X	X		
		T			X	X						
GEORGETOWN/EXUMA Intl, Exuma I.		A/L			X	X	X			X		
GOVERNOR'S HARBOUR/Governor's Harbour, Eleuthera I.	15 NPA				X	X			X	X		
		T			X	X						
		E			X	X						
MARSH HARBOUR/Marsh Harbour, Abaco I.	NINST						X		X		X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
NASSAU/Intl, New Providence I.	14 PA1	A/L	II* D		X	X			X	X		
	32 NPA								X	X		
	09 NPA								X	X		
	27 NPA								X	X		
		T			X	X					X	
		E			X	X		200/45			X	
		E					X	400			X	
NORTH ELEUTHERA/North Eleuthera, Eleuthera I.	NINST								X			
TREASURE CAY/Treasure Cay,	14 NPA				X	X			X		X	
Abaco I.	32 NPA								X		X	
		T			X	X					X	
		E			X	X					X	
WEST END/West End,	11 NPA				X	X			X		X	
Grand Bahama I.												
BARBADOS												
BRIDGETOWN/Grantley Adams Intl.	09 PA1	A/L	II* D		X	X	X			X		
	27 NPA								X		X	
		T			X	X	X				X	
		E			X	X		200/45			X	
		E					X	355			X	
BELIZE												
BELIZE/ Philip S.W. Goldson Intl.	07 PA1	A/L	II* D		X	X	X			X		
	25 NPA								X		X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
		T			X	X	X				X	
		E			X	X		200/45			X	
		E					X	50			X	
BERMUDA (United Kingdom)												
Bermuda/L.F. Wake Int.	12 NPA	T			X	X						
		E										
	30 PA1	A/L	II* D		X	X		200/45	X			
BOLIVIA												
CHARAÑA		~~E~~					~~X~~	~~60~~				NDB deactivated
COCHABAMBA/Jorge Wilsterman	31 PA1	A/L	I D	X	X	X				X		
		E			X	X		100/45				
		E					X	100				
LA PAZ/El Atlo Intl.	10R PA1	A/L	II* D	X	X	X	X			X		
		T			X	X	X					
		E			X	X	X	100/45				
		E					X	275				
CALAMARCA		~~T~~			~~X~~	~~X~~						DVOR deactivated
		~~E~~			~~X~~	~~X~~		~~100/45~~				
RIBERALTA		E				X		100/45				
		E					X	100				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
ROBORE		E				X		100/45				
		E					X	100				
SANTA ANA		E					X	100				NDB deactivated
SANTA CRUZ/Viru Viru	15 NPA	A/L	I	X	X	X				X		
	33 PA1	A/L	I				X			X		
		T			X	X						
		E			X	X		200/45				
		E					X	200				
SUCRE		E			X	X		125/45				DVOR/DME and NDB deactivated
		E					X	125				
TARIJA/Oriel Lea Plaza	13 NPA	A/L			X	X	X					
		E				X		100				
		E					X	80				
TRINIDAD/Tte. Av. Jorge Henrich Arauz	14 PA1	A/L	II		X	X				X		Pending installation
	32 NPA	A/L					X			X		
		E				X		180/45				
		E					X	80				
YACUIBA		E					X	100				
BRAZIL												
ABROLHOS		E					X	90				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
ALDEIA	07 NPA	A/L			X	X	X					
	25 NPA	A/L			XI	X	X					
		T					X	30				
		E					X					
ALTA FLORESTA	03 NPA	A/L				X	X					
	21 NPA	A/L				X	X					
		E			X	X		200/45				
		E					X	200				
AMAPA	07 NPA	A/L					X					
	25 NPA	A/L					X					
		E					X	180				
ARACAJU	11 NPA	A/L			X	X	X		X			
	29 NPA	A/L				X	X		X			
		E			X	X		120/45				
		E					X	100				
BAGE	06 NPA	A/L				X	X					
	24 NPA	A/L				X	X					
	32 NPA	A/L					X					
		E				X		100/45				
		E					X	100				
BARREIRAS		E				X		200/45				
		E					X	200				
BAURU	14 NPA	A/L					X					
		E					X	200				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
BELEM/Val De Caes	02 NPA	A/L		X	X	X	X		X			
	06 PA1	A/L	ID	X	X	X	X		X			
	20 NPA	A/L				X			X			
	24 NPA	A/L			X	X	X		X			
		T/E			X	X		200/45				
		E			X	X	X	150				
BELO HORIZONTE/Tancredo Neves Intl.	16 PA1	A/L	I	X	X	X	X		X			
	34 NPA	A/L			X	X			X			
		T/E			X	X						
BOA VISTA/Boa Vista Intl.	08 PA1	A/L	ID			X	X		X			
	26 NPA	A/L				XI	X		X			
		E			X	X		200/45				
		E					X	200				
BONSUCESSO		E/T			X	X		200/45				
BRAGANCA		T			X	X		100/25				
		E			X	X		200/45				
BRASILIA/Brasilia Intl.	11L PA1	A/L	ID	X	X	X	X		X			
	11R NPA	A/L			X	X	X		X			
	29 L NPA	A/L			X	X			X			
	29R PA1	A/L	ID		X	X	X		X			
		T			X	X	X					
		E			X	X		200/45				
		E					X	200				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CAMPINAS/Viracopos	15 PA1	A/L	I	X	X	X			X			
	33 NPA	A/L			X	X			X			
		T			X	X	X					
		E			X	X		200/45				
CAMPO GRANDE/Campo Grande Intl.	06 PA1	A/L	ID	X		X	X					
	24 NPA	A/L			X	X	X					
		T			X	X	X					
		E			X	X		200/45				
		E					X	200				
CAMPOS	07 NPA	A/L					X					
	25 NPA	A/L					X					
		E					X	120				
CARAJÁS	10 NPA	A/L	ID			X	X					
	28 NPA	A/L				X	X					
		E			X	X		200/45				
							X	200				
CARAUARI		E					X	120				
CARAVELAS	06 NPA	A/L				X	X					
	18 NPA	A/L				X	X					
	24 NPA	A/L				X	X					
	36 NPA	A/L				X	X					
		E				X		200/66				
		E					X	130				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CAROLINA	29 NPA	A/L				X	X					
		E				X		130/45				
		E						130				
CAXIAS	15 NPA	A/L			X	X			X			
	33 NPA	A/L			X	X			X			
		T			X	X						
		E			X	X		200				
CONGONHAS		E			X	X		200/45				
CORUMBÁ/Corumbá Intl.	09 NPA	A/L					X					
	27 NPA	A/L					X	200/45				
		T					X					
		E					X	100				
CRUZEIRO DO SUL/Cruzeiro do Sul	10 NPA	A/L				X	X					
Intl.	28 NPA	A/L				X	X					
		E			X	X		200/45				
		E			X		X	150				
CUIABÁ/Marechal Rondom	17 NPA	A/L				X	X		X			
	35 PA1	A/L	ID		X	X	X		X			
		T			X	X	X					
		E			X	X		200/45				
		E					X					
CURITIBA/Afonso Pena Intl.	15 PA2	A/L	II		X	X	X		X			
	33 NPA	A/L			X	X	X		X			
	11 NPA	A/L				X	X					

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
	29 NPA	A/L			X	X						
		T			X	X	X					
		E			X	X		200/45				
		E					X					
FLORIANÓPOLIS/ Hercílio Luz Intl.	14 PA1	A/L	I		X	X	X					
	32 NPA	A/L			X	X	X					
	03 NPA	A/L					X					
	21 NPA	A/L					X					
		T			X	X						
		E			X	X		200/45				
		E					X	150				
FORTALEZA/ Pinto Martins	13 NPA	A/L	I		X	X	X		X			
	31 NPA	A/L			X	X			X			
		T			X	X						
		E			X	X		200/45				
		E					X					
FOZ DO IGUACU/Cataratas Intl.	14 PA1	A/L	I			X	X					
	32 NPA	A/L			X	X	X					
		T			X	X						
		E			X	X		200/45				
GABRIEL	05 NPA	A/L				X	X					
	23 NPA	A/L			X	X	X					
		E			X	X		200/45				
		E					X	200				

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
GUAJARÁ	35 NPA	A/L					X					
		E					X	50				
ILHEUS	11 NPA	A/L					X		X			
	29 NPA	A/L					X		X			
		E					X	95				
IMPERATRIZ	07 NPA	A/L			X	X	X					
	25 NPA	A/L				X	X					
		E			X	X		200/45				
ITACOATIARA	14 NPA	A/L					X					
	32 NPA	A/L					X					
		E					X	125				
JACAREACANGA	08 NPA	A/L				X	X					
	26 NPA	A/L			X	X	X					
		E			X	X		135/45				
		E					X	75				
LAGES	16 NPA	A/L					X		X			
	34 NPA	A/L					X		X			
		E					X	120				
LAPA	18 NPA	A/L				X	X					
	36 NPA	A/L				X	X					
		E				X		200/45				
		E					X	200				
LONDRINA	13 NPA	A/L			X	X	X		X			

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
	31 NPA				X	X	X		X			
		E			X	X		200/45				
LUZIANIA		T			X	X						
		T					X					
MACAE	06 NPA	A/L				X	X		X			
	24 NPA	A/L			X	X	X		X			
		E			X	X		120/25				
MACAPA/Macapa Intl.	08 NPA	A/L			X	X	X		X			
	26 NPA	A/L			X	X	X		X			
		E			X	X		90/25				
		E					X	50				
MACEIO	12 PAI1	A/L	ID		X	X	X		X			
	30 NPA	A/L					X		X			
		E			X	X		150/45				
		E					X	70				
MANAUS/Eduardo Gomes Intl.	10 PA1	A/L	ID		X	X	X		X			
	28 NPA	A/L			X	X	X		X			
		T			X	X	X					
		E			X	X		200/45				
MARICA		T			X	X						
		E			X	X		230/45				
MONTES CLAROS	30 NPA	A/L					X					
		E					X	100				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
MOSSORO	05 NPA	A/L				X	X					
	23 NPA	A/L				X	X					
		E			X	X		200/45				
		E					X	90				
MOZ		E					X	90				
NATAL/Augusto Severo Intl.	16 L PA1	A/L	I		X	X	X		X			
	16R NPA	A/L			X	X	X		X			
	34L NPA	A/L							X			
	34 R NPA	A/L			X	X	X		X			
	12 NPA	A/L			X	X	X		X			
	30 NPA	A/L							X			
		T			X	X						
		E			X	X		200/45				
		E					X					
PALMAS	14 NPA	A/L			X	X	X		X			
	32 NPA	A/L			X	X			X			
		E			X	X		200/45	X			
					X	X						
		E					X	150				
PARANAGUA		E					X	70				
PARNAIBA	09 NPA	A/L					X					
	27 NPA	A/L					X					
		E					X	30				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
PAULO AFONSO	32 NPA	A/L				X	X					
		E				X		200/45				
		E					X	120				
PELOTAS	06 NPA	A/L				X	X					
	24 NPA	A/L				X	X					
		E				X		130/45				
		E					X	130				
PETROLINA	13 NPA	A/L			X	X	X					
	31 NPA	A/L			X	X	X					
		E			X	X		200/45				
		E					X	150				
PIRAI		E			X	X		200/45				
		E					X	150				
POCOS	09 NPA	A/L					X					
	27 NPA	A/L					X					
		E					X	90				
PONTA PORA/Ponta Pora Intl.	03 NPA	A/L					X					
	21 NPA	A/L					X					
		E					X	70				
PORTO ALEGRE/Salgado Filho Intl.	11 PA1	A/L	I	X	X	X	X		X			
	29 NPA	A/L		X	X	X	X		X			
		T			X	X	X					
		E			X	X		160/45				
		E					X	160				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
PORTO	05 NPA	A/L			X	X	X					
	23 NPA	A/L				X	X					
		T			X	X		100				
		E			X	X		200/45				
PORTO VELHO	19 PA1	A/L	ID		X	X			X			
	01 NPA	A/L			X	X	X		X			
		E			X	X		200/45				
RECIFE /Guararapes	18 PA1	A/L	ID			X	X		X			
	36 NPA	A/L			X	X			X			
		T			X	X						
		E			X	X		200/45				
		E					X	200				
REDE		T			X	X						
		E			X	X		200/45				
RIO BRANCO	06 PA1	A/L	ID		X	X	X					
	24 NPA	A/L			X	X	X					
		E			X	X		200/45				
		E					X	100				
RIO DE JANEIRO/Galeão Antônio	10 PA2	A/L	II	X			X					
Carlos Jobim Intl.	28 PA1	A/L	I	X	X	X	X			X		
	15 PA1	A/L	I	X		X	X			X		
	33 NINST									X		
RONDONIA		E					X	50				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
SALVADOR/Deputado Luis Eduardo	10 PA1	A/L	I	X	X	X	X		X			
Magalhaes	28 NPA	A/L	ID		X	X	X		X			
	17 NPA	A/L					X					
		T			X	X						
		E			X	X		200				
SANTA CRUZ	05 NPA	A/L				X	X					
	23 NPA	A/L			X	X						
		T			X	X						
		E			X	X		125/45				
SANTANA		T			X	X						
		E			X	X		100/45				
SANTAREM/Santarem Intl.	10 NPA	A/L	ID		X	X	X					
	28 NPA	A/L			X	X	X					
		T			X	X	X					
		E			X	X	X	200/45				
SAO LUIS/ Marechal Cunha Machado	06 PA1	A/L	ID	XI	X	X	X					
	09 NPA	A/L				X	X					
	24 NPA	A/L			X	X	X					
	27 NPA	A/L				X	X					
		T/E			X	X	X	150/30				
SAO PAULO/Guarulhos Intl.	09R PA2	A/L	II	X	X	X			X			
	27L PA1	A/L	I	X	X	X			X			
	09L PA1	A/L	I	X	X	X			X			
	27R PA1	A/L	I	X	X	X			X			

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
SOROCABA		T			X	X						
		E			X	X		200/45				
TABATINGA/Tabatinga Intl.	12 NPA	A/L					X					
	30 NPA	A/L					X					
		T					X	200				
TEFE	15 NPA	A/L				X	X					
	33 NPA	A/L				X	X					
		E			X	X		200/45				
		E					X	50				
TRES MARIAS		E			X	X		115/20				
UBERABA	17 NPA	A/L					X					
	35 NPA	A/L					X					
		E					X	130				
URUBUPUNGA		E					X	80				
URUBURETAMA		E					X	80				
URUGUAIANA/ Rubem Berta Intl.												
	27 NPA	A/L					X					
		T					X	80				
VITORIA	23 NPA	A/L			X	X	X		X			
	05 NPA	A/L							X			
		E			X	X		200/45				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CAYMAN ISLANDS												
(United Kingdom)												
CAYMAN BRAC/Gerrard Smith Intl.	09 NPA	A/L					X	200/45	X		X	
GEORGETOWN/Owen Roberts Intl.	08 PA1	A/L			X	X	X			X		
	26 NPA	A/L							XI		X	
		E			X	X		200/45			X	
		E					X	350			X	
CHILE												
ANTOFAGASTA/Cerro Moreno	01NPA	A/L		X	X	X			X			RNP APCH
	19NPA	A/L			X	X		200	X			RNP APCH
		T/E			X	X						
ARICA/Chaculluta	02 NPA	A/L		X	X	X			X			
	20 NINST											
		T			X	X		200				
		E			X	X						
ATACAMA/Desierto de Atacama	17 PA1	A/L	I D		X	X						
	35 NPA	A/L			X	X						
		E			X	X		200/45				
BALMACEDA	09 NPA	A/L			X	X			X			RNP APCH
	27 NPA	A/L			X	X			X			RNP APCH
		E			X	X		200				
		E					X	400				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CALAMA/EL LOA	10 NPA	A/L			X	X		70/250	X			RNP APCH
	28 NPA	A/L			X	X		70/250	X			RNP APCH
		T/E			X	X						
		E						400				
CALDERA		E					X	350				
CHILLAN		E			X	X		200				
		E					X	400				
CONCEPCION/Carriel Sur	02 PA1	A/L	I	X	X	X			X			RNP APCH
	20 NPA	A/L			X	X						
		T			X	X	X					
		E			X	X		200				
		E					X	400				
CURICO		E			X	X		200				
DOMINGO		E			X	X		200/45				
ISLA DE PASCUA/Mataveri	10 PA1	A/L	I D	X	X	X	X					
	28 NPA	A/L			X	X	X					
		E			X	X		200/45				
		E					X	300				
ISLA REY JORGE	11 NPA	A/L			X	X	X					
	29 NPA	A/L			X	X	X					
		T			X	X		200				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
		E					X	400				
IQUIQUE/Gral. Diego Aracena	19 PA1	A/L	I D	X	X	X	X	200	X			RNP APCH
	01 NINST											
		E					X					
PUERTO AGUIRRE		E			X	X		200				
PUERTO MONTT/El Tepual	17 NPA	A/L			X	X			X			RNP APCH
	35 PA1	A/L	II* D	X	X	X		25	X			*LOM/LMM-RNP APCH
		T			X	X						
		E			X	X		200				
		E					X	400				
PUERTO NATALES		E			X	X		200/45				
PUNTA ARENAS/Presidente Carlos	07 NPA	A/L			X	X			X			RNP APCH
Ibañez del Campo	25 PA1	A/L	I D	X	X	X		25	X			RNP APCH
	12 NPA	A/L			X	X			X			RNP APCH
	30 NPA	A/L			X	X			X			RNP APCH
	01 NINST											
	19 NPA	A/L				X						
		T			X	X						
		E			X	X		200/45				
		E					X	400				
QUINTERO		E					X	300				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
SANTIAGO/Arturo Merino Benitez	17L PA3	A/L	III ~~XD~~	X	X	X	X	200/45*	X			RNP APCH
	35R NPA	A/L			X	X						* AMB
	17R PA1	A/L	I D		X	X		200/45**				**PDH
	35L NPA	A/L			X	X						
		T			X	X	XI	25				
		E			X	X		200/45				
SANTO DOMINGO		E					X	400				
TABON		E			X	X		200/45				
TEMUCO/Freire La Araucaria	01 PA3	A/L	III ~~XD~~	X	X	X		25	X			RNP APCH
	19 NPA	A/L			X	X						
		E			X	X		200				
		E					X	400				
TONGOY		E			X	X		200				
		E					X	400				
VALDIVIA	17 NPA	A/L			X	X			X			
	35 NPA	A/L			X	X			X			
		E			X	X		200				
		E					X					
VENTANAS		E			X	X		200/45				
COLOMBIA												
ARAUCA		E			X	X		200/45				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
~~ABEJORRAL~~		E					X	150				
AMBALEMA		E			X	X	X	~~150~~200/45				
BARRANCA BERMEJA		E			X	X		200/45				
		E					X	150				
BARRANQUILLA/Ernesto Cortissoz	04 PA1	A/L	I	X	X	X	X	200/45				
	22 NPA	A/L			X	X						
		T/E			X	X						
		E					X	150				
SANTAFE DE BOGOTA/Eldorado	13 RPA2	A/L	II	X	X	X	X	200/45				
	31 LNINST							180				
	13 LPA2	A/L	II	X	X	X	X					
	31 RNINST											
		T			X	X	X	200/45				
		E			X	X	X	180				
BUCARAMANGA		E			X	X		200/45				
	35PA1	A/L	I	X	X	X						
	17NPA	A/L			X	X						
		E					X	150				
BUENAVENTURA		E			X	X		200/45				
							X					
BUVIS		E			X	X		200/45				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CALI/Alfonso Bonilla Aragón	01 PA1	A/L	I	X	X	X		200/45				
	19 NPA	A/L			X	X						
							X					
CARTAGENA/Rafael Nuñez	36 NPA	A/L			X		X	200/45				
	18 NINST											
		T/E			X	X						
CUCUTA/Camilo Daza	165 PA1	A/L	I	X	X	X		200/45				
	343 LNINST											
	032 PA1NINST	A/L	I		X	X						
	210 NRINST											
		T/E			X	X						
EL BANCO		E			X	X		200/45				
GIRARDOT		E			X	X		240/45				
LA MINA		E			X	X		200/45				
LETICIA/Alfredo Vasquez Cobo	02 NPA	A/L			X	X	X	200/45				
	20 NPA	A/L			X	X	X	300				
		T/E			X	X						
		E					X					
LOS CEDROS		E			X	X		200/45				
MAGANGUE		E			X	X		200/45				
MARIQUITA		E			X	X		200/45				

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
MERCADERES		E			X	X		200/45				
							X					
MITU		E			X	X		200/45				
		E					X	200				
MONTERIA		E			X	X	X	200/45				
	32PA1	A/L	I	X	X	X						
	14NPA	A/L			X	X						
OTU		E			X	X		200/45				
PEREIRA		E			X	X		200/45				
		E					X	100				
PUERTO LEGUIZAMO		E			X	X		200/45				
RIO HACHA		E					X	150				
RIO NEGRO/Jose Maria Cordova	36 PA2	A/L	II	X	X	X		200/45				
	18 NINST											
		T/E			X	X						
SAN ANDRES /Gustavo Rojas Pinilla	06 NPA	A/L			X	X	X	200/45				
	24 NINST											
		T/E			X	X	X					
		E					X	200				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
SAN JOSE DEL GUAVIARE		E			~~X~~	~~X~~		~~200/45~~				
		E					~~X~~	~~160~~				
SANTA MARTHA		E			X	X	~~X~~	200/45				
TULUA		E				X	~~X~~	200/45				
TUMACO		E			X	X		200/45				
VILLAVICENCIO		E			X	X		200/45				
		E					~~X~~	~~150~~				
ZIPAQUIRA		E					~~X~~	~~150~~				
COSTA RICA												
ALAJUELA/Juan Santamaria Intl.	07 PA1	A/L	II*	X	X	X				X		
		T			X	X					X	
		E			X	X		95/45			X	
	25NPA	A/L			X	X			X		X	
BARRA DE COLORADO		E					XI	100			X	
COTO47		E					X	100			X	
CHILES		E					X	100			X	
FIORA		E					X	100			X	
HORCONES		E						100			X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
LIBERIA/Daniel Oduber Intl.	07 PA1	A/L	II*		X	X				X		
	25 NPA	A/L							X	X		
		T			X	X					X	
		E			X	X		200/45			X	
LIMON/Limón Intl.	NINST											
		T			X	X					X	
		E			X	X		125/45			X	
PARRITA		E					X	100			X	
PAVAS/Tobias Bolaños Intl.	NINST										X	
CUBA												
CAYO COCO/ Jardines del Rey Intl.	08 NPA	A/L			X	X	X		X		X	
	26 NPA	A/L			X	X			X		X	
		T			X	X	X					
CAMAGUEY/Ignacio Agramonte Intl.	07 NPA	A/L		X	X	XI	X		X		X	
	25 NPA	A/L		X	XI	X	X		X		X	
		T			X	X	X					
CAYABO		E					X	100				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CAYO LARGO DEL SUR/Vilo Acuña Intl.	12 NPA	A/L			X	X	X		X		X	
	30 NPA	A/L			X	X	X		X		X	
		T			X	X						
		E			X	X	X	170/45				
		E					X	100				
CIEGO DE AVILA		E			X	X		170/45				
HABANA/Jose Martí Intl.	06 PA1	A/L	ID		X	X	X		X		X	
	24 NPA	A/L			X	X			X	X	X	
		T			X	X						
HOLGUIN/Frank País Intl.	05 NPA	A/L		X	X	X	X		X		X	
	23 NPA	A/L			X	X	X		X		X	
		T			X	X						
		E			X	X		170/45				
MANZANILLO		E			X	X		170/45				
MOA		E					X	100				
NUEVA GERONA		E					X	100				
NUEVAS		E			X	X	X	170/45				
SANTIAGO DE CUBA/Antonio Maceo Intl.	10 NPA	A/L			X	X	X		X		X	
	28 NPA	A/L					X		X		X	
		T			X	X						

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
		E			X	X	X	85/45				
VARADERO/Juan Gualberto Gómez Intl.	06 PA1	A/L	ID		X	X	X		X		X	
	24 NPA				X	X			X		X	
		T			X	X	X					
		E			X	X		170/45				
ZARAGO		E					X	100				
DOMINICA												
MELVILLE HALL/Dominica	NINST	A/L					X		X		X	
ROSEAU/Canefield	NINST	A/L					X				X	
		E					X					
DOMINICAN REPUBLIC												
BARAHONA/María Montés Intl.	12 NPA	A/L			X	X	X		X		X	
CABO ROJO		E			X	X		200/45			X	
		E						210			X	
HERRERA/Herrera Intl.	01 NPA	A/L				X	X		X		X	
	19 NPA	A/L							X		X	
LA ROMANA/La Romana Intl.	NINST						X		X		X	
PUERTO PLATA/Gregorio Luperon	08 NPA	A/L							X	X		
Intl.	26 NPA	A/L			X	X	X		X	X		

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
		T				X					X	
		E				X		65/45			X	
PUNTA CANA/Punta Cana Intl.	09 NPA	A/L			X	X	X		X		X	
PUNTA CAUCEDO		T			X	X	X				X	
		E			X	X		200/45			X	
		E					X	365			X	
SANTIAGO/Cibao Intl.	NINST								X		X	
SANTO DOMINGO/De las Américas	17 PA1	A/L	II* D		X	X	X		X	X		
Intl.	35 NPA								X	X		
ECUADOR												
ASCAZUBI		T					X	40				
CHONGON		T					X	40				
CONDORCOCHA		T			X	X						
		E			X	X		200/45				
CUENCA/Tablon		E			X	X		200/45				
		T			X	X						
CUENCA/Huajibamba							X	50				
ESMERALDAS/Gral.Rivadeneira		T			X	X		140/45				
		E					X	350				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
GUAYAQUIL/Jose Joaquin de Olmedo Intl.	03 NPA											
	21 PA1	A/L	II*D	X	X	X				X		
		T			X	X						
		E			X	X		200/45				
LATACUNGA/Cotopaxi Intl	18 PA1	A/L	ID		X	X	X	30		X		
	36NPA											
MACHALA		E			X	X		140/25				
MANTA/Eloy Alfaro Intl	23 PA1	A/L	I D		X	X				X		
		T			X	X		60/25				
PALMA		T					X	40				
QUITO/Mariscal Sucre Intl	17 NPA									X		
	35 PA1	A/L	II*D	X	X	X				X		
SALINAS	31PA1	A/L	ID									
	03NPA											
		E			X	X		100/25				
EL SALVADOR												
Aeropuerto Internacional de El Salvador/	07 PA1	A/L	II*	X	X	X				X		
La Paz	25 NPA								X	X		
		T			X	X						
		E			X	X		200/45				
		E					X	235				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
Aeropuerto Internacional de Ilopango/	15 NPA	A/L		X	X	X			X	X		
San Salvador		T			X	X						
		E			X	X		200/45				
FRENCH ANTILLES (France)												
FORT-DE-FRANCE/Le Lamentin,	09 PA1	A/L	II* D		X	X				X		
Martinique	27 NPA	A/L							X	X		
		T			X	X	X				X	
		E			X	X		200/45			X	
POINTE-A-PITRE/Le Raizet,	11 PA1	A/L	II* D		X	X			X	X		
Guadeloupe	29 NPA								X	X		
		T			X	X	X				X	
		E			X	X		200/45			X	
		E					X	250			X	
SAINT-BARTHELEMY/ Saint-Barthelemy, Guadeloupe	NINST								X		X	
SAINT-MARTIN/Grand Case, Guadeloupe	NINST								X		X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
FRENCH GUIANA (France)												
CAYENNE/Rochambeau	08 PA1	A/L	II* D (1)		X	X	X			X		
	26 NPA	A/L			X	X				X		
		E			X	X		200/45				
		E					X	300				
GRENADA												
CARRIACOU/Lauriston Intl.	NINST								X			
SAINT GEORGES/Point Salines	10 PA1	A/L	II*		X	X	X			X		
	28 NPA								X	X		
		T				X					X	
		E				X		200/45			X	
GUATEMALA												
FLORES/Aeropuerto Mundo Maya Intl.	10 PA1	A/L	I D		X	X	X	75/45	X	X		
		E			X	X						
	28 NPA	A/L			X	X		50				
		T			X	X						
		E			X	X						
GUATEMALA/La Aurora	01 PA1	A/L	I D		X	X			X	X		
	19 NPA	A/L			X	X	X	110/45				
		T			X	X		100			X	
		E			X	X					X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
POPTUN	NINST	T					X	40				
PUERTO BARRIOS/Puerto Barrios	12 NPA	T			X	X	X	100/45				
	30 NPA	T			X	X						
		E			X	X		50				
RABINAL		E			X	X		200/45				
RETALHULEU	NINST	T					X	25				
SAN JOSE/San Jose	15 NPA	A/L			X	X						
	33 NPA	A/L			X	X						
		T			X	X	X	50				
		E			X	X	X					
GUYANA												
TIMEHRI/Cheddi Jagan Intl.	06 PA1	A/L			X	X				X		
		T			X	X	X					
		E			X	X		200/45				
HAITI												
CAP HAITIEN/Cap. Haitien Intl.	NINST				X	X			X		X	
PORT-AU-PRINCE/Port-au-Prince Intl.	09 PA1	A/L	II* D		X	X				X		
	27 NPA	A/L							X	X		
		T			X	X					X	
OBLEON		E			X	X		200/45			X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
HONDURAS												
COPAN RUINAS		E					X	55			X	
LA CEIBA/Golosón Intl.	07 NPA	A/L			X	X	X	200/45	X	X		
		E			X	X					X	
		E					X	110				
	25 NPA	A/L			X	X	X		XI			
ROATAN	07NPA	A/L			X	X			X			
		T			X	X		60		X		
		E			X	X	X	180/25			X	
	25NPA	A/L			X	X	X		X			
SAN PEDRO SULA/La Mesa Intl.	04 NPA	A/L							X	X		
	22 PA1	A/L	I D		X	X	X		X	X		
		T				X					X	
		E				X		200/45			X	
		E					X	300				
TEGUCIGALPA/Toncontín Intl.	02 PA1	A/L	I		X	X			X	X		
	20 NPA	A/L							X	X		
		T			X	X					X	
		E			X	X					X	
		E					X	300				
JAMAICA												
KINGSTON/Norman Manley Intl.	12 PA1	A/L	II* D		X	X				X		

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
	30 NPA								X	X		
		T			X	X					X	
		E			X	X		200/45			X	
		E									X	
MONTEGO BAY/Sangster Intl.	07 PA1	A/L	II* D		X	X	X			X		
	25 NPA								X	X		
		T			X	X	X				X	
		E			X	X		200/45			X	
		E					X	325			X	
MEXICO												
ACAPULCO/Gral. Juan N. Alvarez Intl.	10 PA1	A/L	II*	X	X	X				X		
	28 PA1	A/L	II*							X		
		T		X	X	X					X	
		E			X	X		200/45			X	
		E					X				X	
AGUASCALIENTES/ Jesus Teran	17 NPA	A/L										
		E			X	X					X	
	35 NPA	A/L			X	X					X	
APAN		T			X	X					X	
		E			X	X					X	
BAHIAS DE HUATULCO/Bahias de Huatulco	07 NPA	A/L			X	X					X	
	25 NPA										X	
		E			X	X					X	

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CABO SAN LUCAS	11 NPA	A/L			X	X						
	29 NPA	A/L			X	X						
CAMPECHE/Ing. Alberto Acuña Ongay	16 NPA	A/L			X	X					X	
	24 NPA	A/L			X	X					X	
CANCUN/Cancun Intl.	12 PA1	A/L	II* D		X	X				X		
	30 NPA	A/L								X		
		T			X	X					X	
		E			X	X		135/45			X	
CHETUMAL/Chetumal Intl.	10 NPA	A/L			X	X					X	
	28 NPA	A/L			X	X					X	
		E			X	X					X	
CHIHUAHUA/Gral. Roberto Fierro Villalobos Intl.	18L NP	A/L			X	X	X			X		
	36R PA1	A/L	II* D							X		
		T			X	X	X				X	
		E			X	X	X				X	
CHICHEN ITZA	10 NPA	A/L			X	X						
	28 NPA	A/L			X	X						
CHOIX		E					X				X	
CIUDAD JUAREZ/Abraham González Intl.	03 NPA	A/L			X	X					X	
	21 NPA	A/L			X	X					X	
		T			X	X					X	
		E			X	X					X	

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CIUDAD OBREGON	13 NPA	A/L			X	X						
		E			X	X		70/45			X	
	31 NPA	A/L			X	X						
CIUDAD VICTORIA	15 NPA	A/L			X	X						
		E			X	X		80/45			X	
	33 NPA	A/L			X	X						
COLIMA	07 NPA	A/L			X	X						
		E			X	X					X	
	25 NPA	A/L			X	X						
CONCEPCION DEL ORO		E			X	X					X	
COZUMEL/Cozumel Intl.	11 PA1	A/L	II*		X	X	X			X		
	29 NPA	A/L								X		
		T			X	X	X				X	
		E			X	X		200/45			X	
		E					X	230			X	
CUAUTLA		T			X	X					X	
		E			X	X					X	
CUERNAVACA	02 NPA	A/L				X						
	20 NPA	A/L				X						
CULIACAN/Fidel Bachiqualato	02 NPA	A/L			X	X						
		E			X	X					X	
	20 NPA	A/L			X	X						

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
DELICIAS		T										
		E			X	X					X	
DURANGO/Pte. Guadalupe Victoria	03 NPA	A/L			X	X					X	
Intl.	21 NPA	A/L			X	X						
		E			X	X		145/45			X	
ENSENADA/ Alberto L. Salinas	11 NPA	A/L					X					
	29 NPA	A/L					X					
GUADALAJARA/Miguel Hidalgo	10 PA1	A/L	II*	X	X	X				X		
Costilla Intl.	28 PA1	A/L	II*							X		
		T			X	X					X	
		E			X	X		125/45			X	
GUAYMAS/Gral. José Maria Yañez Intl.	02 NPA	A/L					X				X	
	20 NPA	A/L					X				X	
GUERRERO NEGRO		E					X				X	
HERMOSILLO/Gral. I. Pesqueira	05 NPA	A/L			X	X					X	
Garcia Intl.	23 NPA	A/L			X	X					X	
		T			X	X					X	
		E			X	X		105/45			X	
IXTAPA -ZIHUATANEJO/	08 NPA	A/L			X	X						
Ixtapa-Zihuatanejo Intl.		E			X	X		105/45			X	
	26 NPA	A/L			X	X						

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
IXTEPEC	NPA	A/L			X	X						
LA PAZ/Gral. Manuel Marques de	18 PA1	A/L	II*		X	X				X		
León Intl.	36 NPA	A/L								X		
		T			X	X					X	
		E			X	X		135/45			X	
LEON/ Guanajuato	13 NPA	A/L			X	X						
	31 NPA	A/L			X	X						
		T										
		E									X	
LORETO/Loreto Intl.	16 NPA	A/L			X	X					X	
		E			X	X					X	
	34 NPA	A/L			X	X					X	
LOS MOCHIS	09 NPA	A/L			X	X					X	
	27 NPA	A/L			X	X					X	
		E			X	X		120/45			X	
		E					X	120			X	
MANZANILLO/Playa de Oro Intl.	10 NPA	A/L			X	X					X	
	28 NPA	A/L			X	X						
		E			X	X					X	
MATAMOROS/Intl.	15 NPA	A/L			X	X					X	
	33 NPA	A/L			X	X					X	
		T			X	X					X	
		E			X	X					X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
MAZATLAN/Gral. Rafael Buelna Intl.	08 NPA	A/L			X	X				X		
	26 PA1	A/L	II* D		X	X				X		
		T			X	X					X	
		E			X	X		200/45			X	
MERIDA/Lic. Manuel Crescencio Rejón Intl.	10 PA1	A/L	II*		X	X	X			X		
	28 NPA	A/L			X	X				X		
		T			X	X					X	
		E			X	X		200/45			X	
		E				X		200			X	
MEXICALI/Gral. Rodolfo Sanchez Taboada Intl.	10 NPA	A/L			X	X					X	
	28 NPA	A/L			X	X					X	
		T			X	X					X	
		E			X	X		70/45			X	
MEXICO/Lic. Benito Juárez Intl.	05R PA1	A/L	II* D		X	X	X		X	X		
	23L PA1	A/L	II* D						X	X		
		T			X	X					X	
		E			X	X		60/45			X	
MINATITLAN	01 NPA	A/L			X	X					X	
	19 NPA	A/L			X	X					X	
		E			X	X		70/45			X	
MONCLOVA/Venustiano Carranza	06R NPA	A/L			X	X						
	24L NPA	A/L			X	X						
	06L NPA	A/L			X	X						
	24R NPA	A/L			X	X						
		E			X	X					X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
MONTERREY/Aeropuerto Del Norte	02 NPA	A/L			X	X					X	
Intl.	11 NPA	A/L			X	X					X	
	20 NPA	A/L			X	X					X	
	29 NPA	A/L			X	X					X	
		T			X	X					X	
		E										
MONTERREY/Gral. Mariano Escobedo	11 NPA	A/L			X	X				X		
Intl.	16 NPA	A/L				X					X	
	29 PA1	A/L	II* D							X		
		T			X	X					X	
		E			X	X		80/45			X	
	34 NPA	A/L				X					X	
MORELIA/Gral. Francisco J. Mujica Intl.	05 NPA	A/L			X	X					X	
	23 NPA	A/L			X	X					X	
		E			X	X					X	
NAUTLA		E			X	X		200/45			X	
		E						400			X	
NUEVO LAREDO/Quetzatlcoatl Intl.	14 NPA	A/L			X	X			X		X	
	32 NPA	A/L							X		X	
		T			X	X					X	
		E			X	X		60/45			X	
OAXACA/ Xoxocotlan	01 NPA	A/L			X	X						
	19 NPA	A/L			X	X					X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
		T			X	X					X	
		E			X	X		110/45			X	
OTUMBA		T			X	X					X	
		E			X	X					X	
PACHUCA		T			X	X					X	
		E			X	X		70/45			X	
PIEDRAS NEGRAS	12 NPA	A/L			X	X						
	30 NPA	A/L			X	X						
POZA RICA/ Tajin	08 NPA	A/L			X	X					X	
	26 NPA	A/L			X	X					X	
		E			X	X		200/45			X	
PUEBLA/ Hermanos Serdan	17 NPA	A/L			X	X						
	35 NPA	A/L			X	X						
		E			X	X					X	
		T										
PUERTO ESCONDIDO	09 NPA	A/L			X	X						
	27 NPA	A/L			X	X						
		E			X	X					X	
PUERTO PEÑASCO	03 NINST	A/L										
		E			X	X		105/45			X	
	11 NINST	A/L										
	21 NINST	A/L										
	29 NINST	A/L										

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
PUERTO VALLARTA/Lic. Gustavo	04 PA1	A/L	II* D		X	X				X		
Díaz Ordaz Intl.	22 NPA	A/L								X		
		T			X	X					X	
		E			X	X		135/45			X	
QUERETARO	09 NPA	A/L			X	X						
	27 NPA	A/L			X	X						
		E			X	X		200/45			X	
REYNOSA/Gral. Lucio Blanco Intl.	13 NPA	A/L			X	X					X	
	31 NPA	A/L			X	X					X	
		T			X	X					X	
		E			X	X		135/45			X	
SALTILLO	17 PA1	A/L	I*D		X	X						
	35 NPA	A/L			X	X						
		E			X	X					X	
SAN CRISTOBAL	11 NPA	A/L			X	X						
	29 NPA	A/L			X	X						
SAN FELIPE	13 NINST	A/L										
	31 NINST	A/L										
SAN JOSE DEL CABO/San Jose	16 NPA	A/L			X	X					X	
Del Cabo Intl.	34 NPA	A/L			X	X					X	
		E			X	X					X	
SAN LUIS POTOSI/ Ponciano Arriaga	14 PA1	A/L	II*		X	X						

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
	32 NPA	A/L			X	X						
		E			X	X					X	
SAN MATEO		T			X	X					X	
SAN QUINTIN		E			X	X					X	
SANTA LUCIA		T			X	X						
		E			X	X						
SANTA ROSALIA		E					X				X	
TAMPICO/Gral. Francisco Javier Mina	13 PA1	A/L	II* D		X	X	X			X		
Intl.	31 NPA	A/L			X	X				X		
		T			X	X					X	
		E			X	X		200/45			X	
TAMUIN		E			X	X		75/45			X	
TAPACHULA/Tapachula Intl.	05 NPA	A/L			X	X					X	
	23 NPA	A/L			X	X					X	
		E			X	X		185/45			X	
TEQUESQUITENGO		T			X	X					X	
		E			X	X		100/45			X	
TIJUANA/Gral. Abelardo L. Rodriguez	09 PA1	A/L	II* D (I)		X	X				X		
Intl.	27 NPA	A/L			X	X				X		
		T			X	X					X	
		E			X	X		50/45			X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
TOLUCA/Lic. Adolfo Lopez Matos	15 PA1	A/L	II D (I)		X	X			X		X	
	33 NPA	A/L			X	X			X		X	
		E			X	X					X	
TORREON/Torreon Intl.	12 NPA	A/L			X	X					X	
	30 NPA	A/L			X	X					X	
		T			X	X					X	
		E			X	X						
TUXTLA GUTIERREZ/ Angel Albino Corzo	14 NPA	A/L			X	X						
	32 PA1	A/L	II* D (1)		X	X						
		E			X	X					X	
		T										
VERACRUZ/Gral. Heriberto Jara Intl.	18 NPA	A/L			X	X					X	
	36 NPA	A/L			X	X					X	
		T			X	X					X	
		E			X	X		70/45			X	
VILLAHERMOSA/C.P.A. Carlos Rovirosa Intl.	08 NPA	A/L			X	X					X	
	26 NPA	A/L			X	X					X	
		T			X	X					X	
		E			X	X					X	
ZACATECAS/Gral. Leobardo C. Ruiz Intl.	02 NPA	A/L			X	X					X	
	20 NPA	A/L			X	X					X	
		E			X	X					X	
MONTSERRAT (United Kingdom)												

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
PLYMOUTH/W.H. Bramble,	NINST	A/L					X		X		X	
Montserrat I.												
NETHERLANDS ANTILLES												
(Netherlands)												
KRALENDIJK/Flamingo, Bonaire	10 NPA	A/L							X		X	
	28 NPA	A/L		X	X	X			X		X	
		E			X	X					X	
ORANJESTAD/F.D. Roosevelt, Saint	NINST	L							X		X	
Eustatius I.												
PHILIPSBURG/Princes Juliana,	09 PA1	A/L	II* D		X	X	X			X		
St. Maarten I.	27 NPA	A/L							X	X		
		T			X	X					X	
		E			X	X		200/45			X	
		E				X		255			X	
WILLEMSTAD/Hato, Curacao I.	11 PA1	A/L	II* D		X	X	X			X		
	29 NPA	A/L							X	X		
		T			X	X					X	
		E			X	X		200/45			X	
		E					X	225			X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
NICARAGUA												
MANAGUA/Augusto César	09 PA1	A/L	II*							X		
Sandino Intl.	27 NPA	A/L			X	X			X	X		
		T			X	X		60			X	
		E			X	X		200/45			X	
PUERTO CABEZAS BILWI/ Rigoberto	09 NPA	A/L			X	X						
Cabezas/ Puerto Cabezas	27 NPA	A/L			X	X						
		T			X	X		30				
		E			X	X		200/45				
BLUEFIELDS/ Monsenor	05 NPA	A/L			X	X						
Salvador Shaifer	23 NPA	A/L			X	X						
		T			X	X		30			X	
		E			X	X		200/45			X	
BONANZA/ Bonanza	01 NINST	A/L										
CORN ISLAND/ Corn Island	03 NPA	A/L			X		X					
	21 NPA	A/L			X		X					
		T			X		X	10				
		E			X		X	25				
CHINANDEGA/ Hernan Pomares	10 NINST	A/L										
LEON/ Fanor Hurroz	09 NINST	A/L										

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
LOS BRASILES/ Los Brasiles	09 NINST	A/L										
SAN FRANCISCO LIBRE/	10 NPA	A/L			X			60				
Punta Huete	28 NPA	A/L			X	X		200/45				
SAN CARLOS/ San Carlos	04 NINST	A/L										
	22 NINST	A/L										
ROSITA/ Rosita	05 NINST	A/L										
SIUNA/ Siuna	17 NINST	A/L										
PUERTO RICO (United States)												
AGUADILLA/ Rafael Hernandez Intl.	08 PA1	A/L	I		X	X			X	X		
	26 NPA	A/L			X	X			X			
		T			X	X						
		E			X	X						
BORINQUEN		T			X (Tacan)	X						
		E			X	X						
DORADO		E					X	400			X	
MAYAQUEZ/Mayaquez	09 NPA	A/L			X	X			X		X	
		T			X	X						
		E			X	X		145/45			X	
PONCE/Ponce - Mercedita	12 NPA	A/L			X	X						

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
	30 NPA	A/L			X	X						
		T			X	X					X	
		E			X	X		110/45			X	
SAN JUAN DE PUERTO RICO/Luis	08 PA1	A/L	II*		X	X	X		X	X	X	
Muñoz Marín Intl.	10 PA1	A/L	II*		X	X			X	X	X	
	26 NPA	A/L			X	X						
	28 NPA	A/L			X	X						
PANAMA												
PANAMA/Marco A. Gelabert	NINST										X	
BOCAS DEL TORO/Bocas Del Toro	08 NPA	A/L			X	X					X	
	26 NPA	A/L									X	
		E			X	X		90/45			X	
CHANGUINOLA/Cap. Manuel Niño	NINST										X	
DAVID/Enrique Malek	04 NPA	A/L			X	X	X				X	
		E			X	X		100/45			X	
		E			X	X		100			X	
FRANCE/Enrique Jimenez		T			X	X					X	
LA PALMA		E				X		180/45			X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
PANAMA/Tocumen Intl.	03R PA1	A/L	II*		X	X	X			X		
	21L NPA	A/L								X		
	03L NPA	A/L								X		
		T			X	X					X	
TABOGA		E			X	X	X	200/45			X	
		E					X				X	
WANNKANDI		E					X				X	
PARAGUAY												
ASUNCION/Silvio Pettirossi	02 NPA	A/L								X		
	20 PA1	A/L	II* D		X	X	X			X		
		T			X	X	X					
		E			X	X		200/45				
		E					X	300				
CIUDAD DEL ESTE/Guaraní	23 PA1	A/L	II		X	X				X		
	05 NPA	A/L			X	X				X		
CONCEPCION		E					X	65				
ESTIGARRIBIA		E				X		200/45				
		E					X	300				
FILADELFIA		E					X	180				
PERU												

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
ANDAHUAYLAS		E				X		150/250				
AREQUIPA/Rodríguez Ballón Intl.	09 PA1	A/L	I D		X	X				X		
	NINST											
		T			X	X		165				
		E			X	X						
ASIA		E			X	X		85/45				
AYACUCHO		E					X	200				
CAJAMARCA		E					X	140				
CHACHAPOYAS		E				X		200/45				
CHICLAYO/Cap. José Quiñones	18 PA1	A/L	I D		X	X				X		
González		E			X	X		90/25				
		T			X	X						
CHIMBOTE		E			X	X		120/25				
CUZCO/Velasco Astete	NINST											LLZ associated with the approach procedure/
	27 NPA	A/L			X	X			X			LLZ asociado con el procedimiento de aproximación
		T			X	X						
IQUITOS/Coronel FAP Francisco	06 PA1	A/L	I D	X	X	X				X		
Secada Vignetta		E			X	X		200/45				

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
JULIACA		E			X	X		120/250				
LIMA CALLAO/Jorge Chavez Intl.	15 PA2	A/L	I	X	X	X				X		
	33 NPA											
		T			X	X						
		E			X	X		200/45				
PISCO/Pisco	21 NPA	A/L			X	X						
		T			X	X						
		E			X	X		120/45				
PUCALLPA		E			X	X		160/45				
SALINAS		E			X	X		200/45				
SAN JUAN		E			X	X		200/45				
SIHUAS		E				X		160/45				
TACNA/CORONEL FAP Carlos Ciriani	02 PA1	A/L	I D		X	X				X		
Santa Rosa		T/E			X	X						
TARAPOTO		E			X	X		160/45				
TRUJILLO/Cap. Carlos Martinez de	01PA1	A/L	I D (I)							X		
Pinillos	T/E				X	X		160/45				
URCOS		E			X	X		200/45				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
SAINT KITTS AND NEVIS												
BASSETERRE/Robert L. Bradshaw.	07 NPA	A/L		X	X	X	X		X		X	
Saint Kitts I.		E					X					
	25 NPA	A/L							X		X	
CHARLESTOWN/Newcastle, Nevis I.	NINST	L									X	
SAINT LUCIA												
CASTRIES/ George F. Charles Intl.	NINST	L		X							X	
		A/E					X	65			X	
VIEUX-FORT/Hewanorra Intl.	10 PA1	A/L	I		X	X	X		X	X	X	
	28 NPA	A/L							X	X		
		T			X	X					X	
		E			X	X	X	65/45			X	
SAINT VINCENT AND THE GRENADINES												
CANOUAN/Canouan	13 NPA	A/L					X		X			
	31 NPA	A/L					X		X			
KINGSTOWN/E.T. Joshua	07 NPA	A/L		X					X		X	
		E					X	400			X	
MUSTIQUE	18 NPA	L					X		X		X	
UNION ISLAND/Union Island	NINST	L									X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
SURINAME												
ZANDERY/Johan Adolf Pengel Intl.	11 PA1	A/L	I		X	X				X		
	29 NPA	A/L								X		
		T				X						
		E			X			200/45				
TRINIDAD AND TOBAGO												
PORT OF SPAIN/Piarco Intl. Trinidad I.	10 PA1	A/L	II*			X	X		X	X		
	28 NPA	A/L			X	X			X	X		
		T			X	X		200/45			X	
		E					X	400			X	
SCARBOROUGH/Crown Point.	11 NPA	A/L					X		X		X	
Tobago I.		E					X	150			X	
	29 NPA	A/L							X			
TURKS AND CAICOS ISLANDS (United Kingdom)												
GRAND TURK/Grand Turk Intl.	11 NPA	A/L		X	X (Tacan)	X			X		X	
		E			X (Tacan)	X	X	200/45			X	
PROVIDENCIALES/Providenciales Intl.	10 NPA	A/L					X		X		X	
	28 NPA	A/L							X		X	
SOUTH CAICOS/South Caicos Intl.	NINST	A/L									X	

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
URUGUAY												
COLONIA/Internacional de Colonia	12 NPA	A/L					X					
	30 NPA	A/L										
DURAZNO		E				X		110/45				
MALDONADO/Intl C/C Calos A. Curbelo	08 PA1	A/L	I D		X	X	X			X		
Laguna del Sauce	26 NPA	A/L								X		
		E			X	X		200/45				
MELO		E				X		200/45				
MONTEVIDEO/Aeropuerto Angel S.	18 NPA						X					
Adami Intl.	NINST											
MONTEVIDEO/Carrasco Intl.	06 NPA	A/L								X		
	24 PA1	A/L	II*		X	X	X			X		
		T			X	X	X					
		E			X	X		200/45				
		E					X	200				
RIVERA/Cerro Chapeu Intl.	04 NPA	A/L					X					
SALTO/Nueva Hesperides Intl.	04 NPA	A/L				X	X					
	22 NPA	A/L										
		E				X	X					
VENEZUELA												

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
BARCELONA/Gral. José Antonio	15 PA1	A/L	I		X					X		
Anzoategui Intl.					(Tacan)							
	33NINST								X			
		E			X	X		55/25				
					(Tacan)							
		T			X	X						
					(Tacan)							
BARINAS		E			X	X		100/25				
BARQUISIMETO/Jacinto Lara Intl.	09PA1		I		X	X				X		
	27NIST								X			
		E			X	X		190/35				
CABO CODERA		E			X	X		200/45				
CAICARA DEL ORINOCO		E			X	X						
CANAIMA		E			X	X						
CARACAS/Simon Bolivar Intl..	10 PA1	A/L	II D		X	X	X			X		
Maiquetia	28NPA	A/L			X	X			X			
		T			X	X						
		E			X	X		200/45				
		E					X	300				
CARORA		E			X	X						
CARUPANO		E					X	70				

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									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CIUDAD BOLIVAR		E			X	X		100/45				
CORO		E			X	X		100/45				
CUMANA		E			X	X						
EL CANTON		E			X	X		200/45				
ELORZA		E					X	165				
GRAND ROQUE		E			X	X		200/45				
LA DIVINA PASTORA		E			X	X		200/45				
MARACAIBO/La Chinita Intl.	03L PA1	A/L	I		X	X				X		
	21R NIST	A/L							X	X		
		T			X	X						
		E			X	X		200/45				
MARGARITA I./ Intl. Del Caribe, Gral. Santiago Marino	09 PA1	A/L	I		X	X				X		
	27NINST								X			
		T			X	X						
		E			X	X		200/45				
MATURIN		T			X	X						
MENE MAUROA		E				X		190/45				
PARAGUANA/Josefa Camejo Intl.	09 NPA	A/L			X	X			X			
	27NINST								X			

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
		E			X	X		200/45				
PUERTO CABELLO		E			X	X		200/45				
PUERTO AYACUCHO		E			X	X						
PUNTA SAN JUAN		E			X	X		70/45				
SAN ANTONIO DEL TACHIRA/San Antonio del Tachira Intl.	16 NPA NINST				X	X						
SANTA BARBARA DEL ZULIA		E			X	X		150/45				
SAN TOME		E			X	X		80/45				
TUCUPITA		E					X	150				
TUY		E			X	X						
		T			X	X						
VALENCIA/ Arturo Michelena	10PA1	A/L	I		X	X				X		
	28 NPA	A/L			X	X	X		X			
VIRGIN ISLANDS (United Kingdom)												
ROADTOWN/Beef Island	07 NPA	A/L					X		X			
VIRGIN GORDA/Virgin Gorda	NINST	A/L							X			
VIRGIN ISLANDS (United States)												

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Station/Territory Station/Territoire Estación/Territorio	Rwy type Type de piste Tipo de pista	Function Fonction Función	ILS	L	DME	VOR	NDB	Coverage Couverture Cobertura	GNSS			Remarks Remarques Observaciones
									ABAS	GBAS	SBAS	
1	2	3	4	5	6	7	8	9	10	11	12	13
CHRISTIANSTED/Henry E. Rohlsen,	09 PA1	A/L	II*		X	X	X		X		X	
St. Croix	27 NPA	A/L			X	X			X		X	
		E			X	X		155/45			X	
SAINT THOMAS/Cyril E. King	10 PA1	A/L	I		X	X			X	X		
	28 NPA	A/L			X	X			X		X	
		T			X	X					X	

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Table CNS II-CARSAM-~~48~~ ASTERIX SAC CODE ASSIGNMENT PLAN TO THE CARIBBEAN AND SOUTH AMERICAN REGIONS

State/Territory	SAC Code Format								Hexadecimal SAC Code
	B7	B6	B5	B4	B3	B2	B1	B0	
Anguilla (United Kingdom)	1	1	1	0	0	0	0	0	E0
Antigua & Barbuda	1	1	1	0	0	0	0	1	E1
Argentina	1	1	1	0	0	0	1	0	E2
Aruba (Kingdom of Netherlands)	1	1	1	0	0	0	1	1	E3
Bahamas	1	1	1	0	0	1	0	0	E4
Barbados	1	1	1	0	0	1	0	1	E5
Belize	1	1	1	0	0	1	1	0	E6
Bolivia	1	1	1	0	0	1	1	1	E7
Brazil	1	1	1	0	1	0	0	0	E8
Cayman Islands (United Kingdom)	1	1	1	0	1	0	0	1	E9
Chile	1	1	1	0	1	0	1	0	EA
Colombia	1	1	1	0	1	0	1	1	EB
Costa Rica	1	1	1	1	1	1	0	0	EC
Cuba	1	1	1	0	1	1	0	1	ED
Dominica	1	1	1	0	1	1	0	1	EE
Dominican Republic	1	1	1	0	1	1	1	1	EF
Ecuador	1	1	1	1	0	0	0	0	F0
El Salvador	1	1	1	1	0	0	0	1	F1
Guadeloupe, French Antilles (France)	1	1	1	1	0	0	1	0	F2
Martinique, French Antilles (France)	1	1	1	1	0	0	1	1	F3
French Guiana (France)	1	1	1	1	0	1	0	0	F4
Grenada	1	1	1	1	0	1	0	1	F5
Guatemala	1	1	1	1	0	1	1	0	F6
Guyana	1	1	1	1	0	1	1	1	F7
Haiti	1	1	1	1	1	0	0	0	F8
Honduras	1	1	1	1	1	0	0	1	F9
Jamaica	1	1	1	1	1	0	1	0	FA
Mexico	1	1	1	1	1	0	1	1	FB
Montserrat (United Kingdom)	1	1	1	1	1	1	0	0	FC
Curacao(Kingdom of Netherlands)	1	1	1	1	1	1	0	1	FD
Nicaragua	1	1	1	1	1	1	1	0	FE
Panama	1	1	1	1	1	1	1	1	FF
Paraguay	1	1	0	1	0	0	0	0	D0
Peru	1	1	0	1	0	0	0	1	D1
Puerto Rico (United States)	1	1	0	1	0	0	0	1	D2
Saint Kitts and Nevis	1	1	0	1	0	0	1	1	D3
Saint Lucia	1	1	0	1	0	1	0	0	D4
Saint Vincent and Grenadines	1	1	0	1	0	1	0	1	D5
Sint Maarten ((Kingdom of Netherlands)	1	1	0	1	0	1	1	0	D6
Suriname	1	1	0	1	0	1	1	1	D7
Tortola	1	1	0	1	1	0	0	0	D8
Trinidad and Tobago	1	1	0	1	1	0	0	1	D9
Turks and Caicos Is. (United Kingdom)	1	1	0	1	1	0	1	0	DA
United States (For sharing with CAR Region)	1	1	0	1	1	0	1	1	DB
Uruguay	1	1	0	1	1	1	0	0	DC
Venezuela	1	1	0	1	1	1	0	1	DD
Virgin Islands (United Kingdom)	1	1	0	1	1	1	1	0	DE
Virgin Islands (United States)	1	1	0	1	1	1	1	1	DF

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TABLE CNS II-CARSAM-~~59~~- SURVEILLANCE SYSTEMS PLAN

EXPLANATION OF THE TABLE

Column

1 Name of State/Territory and location of the radar station

2 Air traffic services unit served by the facility

3 PSR/Function - Primary surveillance radar/Function
E - En-route area control centres
T - Terminal

4 Coverage of primary surveillance radar in nautical miles

5 SSR/MSSR/Function - Secondary surveillance radar/ Monopulse secondary surveillance radar/Function
E - En-route area control centres
T - Terminal

6 SSR/MSSR/Modes - Modes A, C or S

7 Coverage of secondary surveillance radar in nautical miles

8 ADS-B/Function — Automatic dependent surveillance-Broadcast/ Function
E — En-route area control centres
T — Terminal

9 ADS-C/Function — Automatic dependent surveillance-Contract/ Function
C — Continental Airspace
O — Oceanic Airspace

10 MLAT/Function — Multilateration /Function
E — En-route area control centres
T — Terminal

11 Remarks

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
ANGUILLA (UK)										
ANTIGUA & BARBUDA										
	V.C. Bird APP			T	A/C	180				*MSSR
ARGENTINA										
Bahía Blanca, Airport	Ezeiza ACC Bahía Blanca TMA/APP			E/T	A/C	200				*MSSR
~~Ceres~~	~~Córdoba ACC~~						~~E/T~~			
Córdoba, Airport	Córdoba ACC Córdoba TMA/APP			E/T	A/C	200				
Corriente Airport	Resistencia ACC Resistencia TMA/APP			E/T	A/C	200				*MSSR
Comodoro Rivadavia Airport	Com. Rivadav. ACC Com.Rivad. ACC			E/T	A/C	200				*MSSR
Esquel Airport	Com. Rivad.ACC Esquel TMA			E/T	A/C	200				*MSSR
Ezeiza, Airport	Ezeiza ACC Buenos Aires TMA/APP	T	90	E	A/C	220				

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
	Ezeiza ACC Buenos Aires TMA/APP			E/T	A/C	200				*MSSR
~~Junin Airport~~	~~Ezeiza ACC~~			~~E/T~~	~~A/C~~	~~200~~				~~*MSSR~~
La Rioja, Airport	La Rioja, Airport La Rioja TMA			E/T	A/C	200				*MSSR
Malargue Airport	Mendoza ACC Cordoba ACC Ezeiza ACC Malargue TMA/APP			E/T	A/C	200				*MSSR
Mendoza, Airport	Mendoza TMA Cordoba ACC	T	60	E	A/C	180	E/T			
				~~E/T~~	~~A/C~~	~~200~~				~~*MSSR~~
Morteros	Cordoba ACC Ezeiza ACC Resistencia ACC			E/T	A/C	200				*MSSR
Neuquen	Ezeiza ACC Neuquen TMA			E/T	A/C/S	200				*MSSR
Paraná, Airport	Ezeiza ACC Córdoba ACC			E/T	A/C	200				*MSSR
Pehajó Airport	Ezeiza ACC Pehuajó Airport			E/T	A/C	200				*MSSR
Posadas Airport	Resistencia ACC			E/T	A/C	200				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
	Posadas TMA/APP									
Presidente Roque Saenz Paña Airport	Resistencia ACC			E/T	A/C	200				*MSSR
	Cordoba ACC									
	P. Roque Saenz TWR									
Puerto Madryn, Airport	Com. Rivad. ACC			E/T	A/C	200				*MSSR
	Ezeiza ACC									
	Trelew TMA									
Quilmes	Ezeiza ACC			E/T	A/C	200				*MSSR
	Buenos Aires APP									
Rio Gallegos, Airport	Com. Rivad. ACC			E/T	A/C	200				*MSSR
	Rio Gallego,TMA									
Rosario,Airport	Ezeiza ACC						E/T			
San Carlos de Bariloche, Airport	Ezeiza ACC			E/T	A/C	200				*MSSR
	Bariloche TMA/APP									
Salta	Cordoba ACC			E/T	A/C	200				*MSSR
	Salta TMA/APP									
San Luis, Airport	Córdoba ACC			E/T	A/C	200				*MSSR
	Ezeiza ACC									
San Julian , Airport	Com. Rivad. ACC			E/T	A/C	200				*MSSR
	San Julian Airport									

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Santa Rosa, Airport	Santa Rosa TMA/APP			E/T	A/C	200				*MSSR
	Cordoba ACC									
	Ezeiza ACC									
Susques	Cordoba ACC						E/T			
Tucumán, Airport	Córdoba ACC									
	Tucuman TMA/APP			E/T	A/C	200				*MSSR
Ushuaia, Airport	Com. Rivad. ACC			E/T	A/C	200				*MSSR
	Ushuaia TMA/APP									
Villa Reynold, Airport	Mendoza ACC						E/T			
ARUBA										
	Reina Beatrix APP	T	80	T	A/C	256				*MSSR
BAHAMAS										
Nassau	Miami ACC									
	Nassau APP	E/T		E/T	A/C	200				
BARBADOS										
Aiport	Adams APP			T	A/C	250				*MSSR
BELIZE										
Belize	Belize APP			E/T	A/C	250				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
BERMUDA										
	Bermuda TWR			T	A/C	250				
BOLIVIA										
Cochabamba	Cochabamba APP			E/T	A/C	150				
	La Paz ACC									
La Paz	La Paz ACC			E	A/C					Radar planning
	La Paz APP			T	A/C					
BRASIL										
Barcelos	Manaus ACC	E	180	E	A/C	220				*MSSR
Barra do Carcas	Brasilia ACC	E	180	E	A/C	220				*MSSR
Belém	Manaos ACC	T	60	E	A/C	220				*MSSR
Belém	Belem APP	E	180	T	A/C	220				*MSSR
Boa Vista	Manaus ACC			E	A/C	220				*MSSR
Bom Jesus da Lapa	Recife ACC	T	60	E	A/C	220				*MSSR
Brasilia	Brasilia APP			T	A/C	220				*MSSR
Cachimbo	Manaus ACC	T	60	E	A/C	220				*MSSR
Campinas	Campinas APP	T	60	T	A/C	220				*MSSR
Campo Grande	Campo Grande APP	E	180	T	A/C	220				*MSSR
Cangucu	Curitiba ACC	E	180	E	A/C	220				*MSSR
Catanduvas	Curitiba ACC	E	180	E	A/C	220				*MSSR
Chapada Dos Guimaraes	Brasilia ACC	E	180	E	A/C	220				*MSSR
Conceição do Araguaia	Manaus ACC	T	60	E	A/C	220				*MSSR
Confins	Confins APP	T	60	T	A/C	220				*MSSR
Congonhas	São Paulo APP	E	180	T	A/C	220				*MSSR
Cruzeiro do Sul	Manaus ACC	T	60	E	A/C	220				*MSSR
Cuiabá	Cuiabá APP	T	60	T	A/C	220				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Curitiba	Curitiba APP	T	60	T	A/C	220				*MSSR
Eduardo Gomes	Manaus APP	E	180	T	A/C	220				*MSSR
Eirunepé	Manaus ACC			E	A/C	220				*MSSR
Fernando Noronha	Recife ACC	T	60	E	A/C	220				*MSSR
Florianópolis	Florianópolis APP	E	180	T	A/C	220				*MSSR
Fortaleza	Recife ACC	T	60	E	A/C	220				*MSSR
Fortaleza	Fortaleza APP	T	60	T	A/C	220				*MSSR
Foz do Iguazu	Foz do Iguacu APP	T	60	T	A/C	220				*MSSR
Galeão	Galeão APP	E	180	T	A/C	220				*MSSR
Gama	Brasília ACC	E	180	E	A/C	220				*MSSR
Guajaramirim	Manaus ACC	T	60	E	A/C	220				*MSSR
Guarulhos	Sao Paulo APP			T	A/C	220				*MSSR
Imperatriz	Manaus ACC			E	A/C	220				*MSSR
Jacarcacanga	Manaus ACC			E	A/C	220				*MSSR
Jaraguari	Curitiba ACC	E	180	E	A/C	220				*MSSR
Macapa	Manaus ACC	E	180	E	A/C	220				*MSSR
Maceió	Recife ACC	E	180	E	A/C	220				*MSSR
Manaus	Manaus ACC	E	180	E	A/C	220				*MSSR
Manaus	Manaus APP	T	60	T	A/C	220				*MSSR
Manicoré	Manaus ACC			E	A/C	220				*MSSR
Mombaça	São Paulo APP	T		T	A/C	220				*MSSR
Morro da Igreja	Curitiba ACC	E	60	E	A/C	220				*MSSR
Natal	Recife ACC		180	E	A/C	220				*MSSR
Natal	Natal APP	E	180	T	A/C	220				*MSSR
Palmas	Brasília ACC	T	60	E	A/C	220				*MSSR
Petrolina	Recife ACC	E	180	E	A/C	220				*MSSR
Pico do Couto	Brasilia ACC			E	A/C	220				*MSSR
Porto Alegre	Porto Alegre APP	E	180	T	A/C	220				*MSSR
Porto Espiridiao	Manaus ACC	T	60	E	A/C	220				*MSSR
Porto Seguro	Recife ACC	E	180	E	A/C	220				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Porto Velho	Manaus ACC	E	180	E	A/C	220				*MSSR
Recife	Recife APP	E	180	T	A/C	220				*MSSR
Río Branco	Manaus ACC	T	60	E	A/C	220				*MSSR
Río de Janeiro	Galeão APP	E	180	T	A/C	220				*MSSR
Salvador	Recife ACC	T	60	E	A/C	220				*MSSR
Salvador	Salvador APP	E	180	T	A/C	220				*MSSR
Santa Teresa	Brasília ACC	T	60	E	A/C	220				*MSSR
Santarém	Manaus ACC	E	180	E	A/C	220				*MSSR
Santiago	Curitiba ACC	E	180	E	A/C	220				*MSSR
Sao Felix do Aragunia		E	180	E	A/C	220				*MSSR
S. Feliz do Xingu				E	A/C	220				*MSSR
Sao Gabriel Cachoeira	Manaus ACC	E	180	E	A/C	220				*MSSR
Sao Luiz	Manaus ACC	E	180	E	A/C	220				*MSSR
Sao Roque	Brasilia ACC	E	180	E	A/C	220				*MSSR
Sinop	Brasilia ACC	E	180	E	A/C	220				*MSSR
Tabatinga	Manaus ACC	E	180	E	A/C	220				*MSSR
Tanabi	Brasilia ACC	E	180	E	A/C	220				*MSSR
Tefé	Manaus ACC	E	180	E	A/C	220				*MSSR
Tirios	Manaus ACC			E	A/C	220				*MSSR
Tres Marias	Brasilia ACC	E	180	E	A/C	220				*MSSR
Vilhena	Manaus ACC	E	180	E	A/C	220				*MSSR
CHILE										
Antofagasta	Santiago ACC			E	A/C	250				MSSR
	Antofagasta APP			E/T						
	Iquique ACC			E						
Carahue	Santiago ACC			E	A/C	250				MSSR
	Puerto Montt ACC			E						

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
	Concepcion APP			E/T						
Chañaral	Santiago ACC			E	A/C	250				MSSR
	Antofagasta TMA/APP			E						
	Iquique ACC			E						
Concepción	Santiago ACC			E	A/C/S	250				
	Puerto Montt ACC			E						
	Concepción APP			E/T						
Coyhaique	Puerto Montt ACC			E	A/C	250				MSSR
	Punta Arena ACC			E						
	Santiago ACC			E						
Iquique	Antofagasta TMA/APP			E/T	A/C	250				MSSR
	Iquique ACC			E/T						
	Santiago ACC			E						
Puerto Montt	Puerto Montt ACC	E/T	80	E/T	A/C	220				MSSR
	Punta Arenas ACC			E						
	Santiago ACC			E						
Punta Arenas	Punta Arenas ACC	E/T	80	E/T	A/C/S	220				
	Santiago ACC	E		E						
Santiago	Santiago ACC	E/T	80	E/T	A/C/S					
	Oceánico ACC									
	Santiago TWR									

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Talagante	Santiago ACC Concepción APP			E/T E	A/C	250				MSSR
Vallenar	Antofagasta APP Santiago ACC Iquique ACC			E/T E E	A/C	250				MSSR
COLOMBIA										
Araracuara	Bogotá ACC Villavicencio APP CALI APP			E/T	A/C/S	250				*MSSRMode S
Belalcazar	Bogota ACC Cali APP Pereira APP Rio Negro APP			E/T	A/C	250				
Bucaramanga/Picacho	Barranquilla ACC Bogotá ACC Bucaramanga APP Cúcuta APP Rio Negro APP CALI APP Villavicencio APP	T	80	E/T	A/C	250				* MSSR<2005
Cali	Bogotá ACC Cali APP	T	80	T/E	A/C	250				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Carepa	Barranquilla ACC Bogotá ACC Rio Negro APP CALI APP	E/T	80	E/T	A/C/S	250				*MSSR
Carimagua	Bogotá ACC Villavicencio APP	E/T	200	E/T	A/C/S	25000				*MSSR Mode S
Cerro Maco	Barranquilla ACC Barranquilla APP Barranquilla TWR Bogotá ACC Cartagena TWR Rio Negro APP Santa Marta TWR	E/T	165	E/T	A/C/S	250				Mode S
Cerro Verde (Rio negro)	Barranquilla ACC Barranquilla APP Bogotá ACC Cali APP Pereira APP Rio Negro APP	E/T	860	E/T	A/C/S	2500				*MSSR Mode S
El Dorado	Bogotá ACC Bogotá APP Cali APP VillaVicencio APP	E/T	860	E/T	A/C/S	25000				*MSSR Mode S
Espinal/Flandes	Bogotá ACC			E/T	A/C/S	250				Mode S

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
	Bogotá APP Cali APP Rio Negro APP Villavicencio APP									
Leticia	Bogotá ACC Leticia APP Villavicencio APP	E/T	80200	E/T	A/C	250				*MSSR
Leticia (MIL)	Villavicencio APP	T	240	T	A/C	240				
Marandúa (MIL)	Bogotá ACC Villavicencio APP	E/T	240	E/T	A/C	240				Militar
Pereira	Bogotá ACC Bogotá APP Cali APP Pereira APP Rio Negro APP			E/T	A/C	250				*MSSR
Ríohacha (MIL)	Barranquilla ACC Bogotá ACC	E/T	240	E/T	A/C	240				Militar
S. Jose del Guaviaree (MIL)	Bogotá ACC Villavicencio APP	E/T	240	E/T	A/C	240				Militar
San Andrés	Barranquilla ACC San Andrés APP			E/T	A/C	250				*MSSR
San Andrés (MIL)	Barranquilla ACC	E/T	240	E/T	A/C	240				Militar

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
	Bogotá ACC San Andrés APP									
Santa Ana	Bogotá ACC Cali ACC/APP Pereira APP	E/T	165	E/T	A/C/S	2050				*MSSR Mode S
Tablazo	Bogotá ACC Bogotá APP Barranquilla ACC Cali APP Pereira APP Rio Negro APP Villavicencio APP	ET	16580	E/T	A/C/S	250				*MSSR Mode S
Tubará (Barranquilla)	Barranquilla ACC Barranquilla APP Bogota ACC San Andrés APP	E/T	80	E/T	A/C/S	250				*MSSR Mode S
Villavicencio	Villavicencio APP Bogota ACC	T	80	E/T	A/C/S	2150				Mode S
Tres Esquinas	Bogotá ACC Cali APP Pereira APP Rio Negro APP			E/T	A/C	240				
COSTA RICA										

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
El Coco	El Coco APP	E/T	60	E/T	A/C	250				*MSSR
Volcan Poas	El Coco APP CENAMER ACC			E/T	A/C/S	250				*MSSR Mode S
CUBA										
Camagüey	Habana ACC Camagüey APP	T	60	T	A/C	200	E/T			*MSSR
Habana	Habana TMA Habana APP			T	A/C	200	T			*MSSR
Holguín	Habana ACC Santiago de Cuba TMA Holguín APP			E/T	A/C	200	E/T			*MSSR
Menocal	Habana ACC Habana TMA Habana APP Varadero APP			E/T	A/C	200	E/T			*MSSR
Varadero	Varadero APP			E	A/C	200			T	*MSSR
San Julián	Habana ACC			E	A/C	200	E			*MSSR
Sta. Clara	Habana ACC			E	A/C	200	E			*MSSR
Gran Piedra	Santiago de Cuba TMA			E/T	A/C	200	T			
DOMINICA										
DOMINICAN REPUBLIC										

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Puerto Plata	Puerto Plata APP	T	70							
Punta Cana	Santo Domingo ACC Punta Cana APP	T	70	E/T	A/C	250				*MSSR
Santo Domingo	Santo Domingo ACC Santo Domingo APP	E/T	70	E/T	A/C	250				*MSSR
ECUADOR										
Guayaquil	Guayaquil ACC			E	A/C					*MSSR
	Guayaquil APP	T	50	T	A/C	250				*MSSR
Quito APP	Guayaquil ACC			E	A/C	250				*MSSR
	Quito APP	T	50	T	A/C	250				*MSSR
San Cristobal	Guayaquil ACC			E	A/C	250				*MSSR
EL SALVADOR										
El Salvador	El Salvador APP	T	80	T	A/C	200				*MSSR
Ojo de Agua	El Salvador APP			E/T	A/C	250				*MSSR
FRENCH ANTILLES										
Fort-de-France	Fort-de-France APP			T	A/C	200				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Point-à-Pitre	Point-à-Pitre APP			T	A/C	250				*MSSR
GRENADA										
	Point Salines APP									
GUATEMALA										
C. Guatemala	La Aurora APP	T	80	T	A/C	250				*MSSR
San José Escuintla	San José APP			T	A/C	250				*MSSR
Santa Elena	Tikal APP			T	A/C	250				*MSSR
GUYANA										
	Georgetown ACC									
HAITI										
	Port-au-Prince ACC			E/T	A/C	250				*MSSR
	Port-au-Prince APP			T	A/C	250				*MSSR
HONDURAS										
San Pedro Sula	La Mesa APP			T	A/C	250				*MSSR
JAMAICA										
Kingston	Kingston APP	T	60	E/T	A/C	250				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Montego Bay	Montego Bay APP	T	60	T	A/C	250				*MSSR
Mount Denham	Kingston ACC	E	120	E	A/C	250				*MSSR
MEXICO										
Acapulco	Acapulco APP			T	A/C	240				*MSSR
Bajio Gto	México ACC Bajio APP			E/T	A/C/S	240				*MSSR
Cancún Cerro	Mérida ACC Cancún APP	E/T	60	E/T	A/C	240				*MSSR
Cerro Gordo	México ACC Monterrey ACC			E/E	A/C	240				*MSSR
Potosi Cerro	Monterrey ACC México ACC			E	A/C	240				*MSSR
Rusias	Mazatlán ACC México ACC Monterrey ACC			E	A/C	240				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Cerro Los Gallos	Mazatlán ACC México ACC Monterrey ACC			E	A/C	240				*MSSR
Cerro Santa Eulalia	Monterrey ACC Chihuahua APP			E/T	A/C	240				*MSSR
Guadalajara	Guadalajara APP	T	80	E/T	A/C	240				*MSSR
Hermosillo	Mazatlán ACC Hermosillo APP Tijuana APP			E/T	A/C	240				*MSSR
La Paz	Mazatlan ACC San Jose del Cabo			E/T	A/C	240				*MSSR
Los Mochis	Mazatlán ACC			E	A/C	240				*MSSR
Mazatlán	Mazatlán ACC			E	A/C	240				*MSSR
Mérida	Mérida ACC Mérida APP	E/T	80	E/T	A/C	240				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Monterrey	Monterrey ACC Monterrey APP	E/T	80	E/T	A/C	240				*MSSR
Peñón	México APP	E/T	80	E	A/C	240				*MSSR
Puerto Peñasco	Mazatlán ACC			E	A/C	240				*MSSR
Puerto Vallarta	Puerto Vallarta APP			T	A/C	240				*MSSR
San José del Cabo	Mazatlán ACC			E	A/C/S	240				*MSSR
Tampico	México ACC Mérida ACC Monterrey ACC			E	A/C/S	240				*MSSR
Tijuana	Tijuana APP			T	A/C	240				*MSSR
Toluca	México ACC Toluca APP	E/T	80	E/T	A/C	240				*MSSR
Veracruz	México ACC Mérida ACC			E	A/C	240				*MSSR
Villahermosa	México ACC			E	A/C/S	240				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
	Merida ACC									
MONTSERRAT (United Kingdom										
CURACAO										
Willemstad	Curaçao ACC	E/T	120	E/T	A/C	256				
	Curaçao APP									
SINT MAARTEN										
Saint Maarten	Juliana APP	T	60	T	A/C	256				
NICARAGUA										
Managua	Managua APP			T	A/C/S	250				*MSSR Mode S
Bluefields	Bluefields TWR			T	A/C	250				
PANAMA										
Panamá	Panamá ACC	T	60	E/T	A/C	200				
	Panamá APP									
PARAGUAY										
Asunción	Asunción ACC	T	60	E/T	A/C/S	250				*MSSR Mode S

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Roque Alonso	Roque Alonso Aeródromo						E/T			
Mcal Estigarribia	Mcal Estigarribia						E/T			
Bahía Negra	Bahía Negra						E/T			
Concepción	Concepción						E/T			
Minga Guazú	Guaraní						E/T			
San Juan Bautista	San Juan Bautista						E/T			
Ciudad del Este	Ciudad del Este APP	T	60	E/T						
PERU										
Ayacucho	Lima ACC			E	A/C/S	250				
Arequipa	Lima ACC			E/T	A/C/S	250				
	Lima APP			E/T	A/C/S	250				
Cajamarca	Lima ACC			E	A/C/S	250				
Cusco	Lima ACC			E	A/C/S	250				
Iquitos	Lima ACC			E/T	A/C/S	250				

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
	Iquitos APP			E/T	A/C/S	250				
Lima	Lima ACC	E	60	E	AC/S	250				
Pucallpa	Lima APP	T	60	T	AC/S	250				
	Lima ACC			E/T	A/C/S	250				
Talara	Pucallpa APP			E/T	A/C/S	250				
	Lima ACC			E	A/C/S	250				
PUERTO RICO (United States)										
Pico del Este	San Juan ACC	E/T	200	E/T	A/C	200				*MSSR
San Juan	San Juan APP	E/T	60	E/T	A/C	180				
SAINT KITTS AND NEVIS										
SAINT LUCIA	Santa Lucia APP									
SAINT VINCENT & THE GRENADINES	E.T.Joshua APP									
SURINAME										
TRINIDAD & TOBAGO										
Piarco (15 NM north)	Piarco ACC	E/T	60	E/T	A/C	250				*MSSR
	Piarco APP									

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
TURKS & CAICOS IS. (United Kingdom)										
Grand Turks	Miami ACC			E	A/C	250				*MSSR
	San Juan ACC									
URUGUAY										
Carrasco	Montevideo ACC	E/T	80	E/T	A/C	180				
	Carrasco APP									
Durazno	Montevideo ACC			E/T	A/C	256				*MSSR
	Carrasco APP									
VENEZUELA										
Barcelona	Barcelona APP	E/T	60	E/T	A/C	250				*MSSR
	Maiquetia ACC									
Barquisimeto	Barquisimeto APP	E/T	60	E/T	A/C	250				*MSSR
	Maiquetia ACC									
San Carlos de Rio Negro	Maiquetia ACC			E	A/C	250				*MSSR

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
Isla Margarita	Margarita APP	E/T	60	E/T	A/C	250				*MSSR9
	Maiquetia ACC									
Las Coloradas	Maiquetia ACC			E	A/C	250				*MSSR
Maiquetia	Maiquetia ACC	E/T	80	E/T	A/C	250				
	Maiquetia APP									
Maracaibo	Maracaibo APP	E/T	60	E/T	A/C	250				*MSSR
	Maiquetia ACC									
Puerto Ayacucho	Maiquetia ACC	E/T	200	E/T	A/C	250				*MSSR
Puerto Ordaz	Puerto Ordaz APP	E/T	200	E/T	A/C	250				*MSSR
	Maiquetia ACC									
Santa Elena de Uairen	Maiquetia ACC			E/T	A/C	250				*MSSR
VIRGIN IS.										
(United Kingdom)										
VIRGIN IS. (United States)										
Saint Thomas	San Juan ACC	E/T	60	E/T	A/C	180				
	San Juan APP									

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State(Territory)/Location Estado(Territorio)/Ubicación	ATS Unit Served Unidad ATS Servida	PSR		SSR			ADS-B	ADS-C	MLAT	Remarks Observaciones
		Function Función	Coverage Cobertura (NM)	Function Función	Modes Modos (A,C& S)	Coverage Cobertura (NM)	Function	Function	Function	
1	2	3	4	5	6	7	8	9	10	11
COCESNA										
Cerro Santiago, Guatemala	CENAMER ACC			E/T	A/C/S	250				*MSSR-Mode S
Grand Cayman, Cayman I.	CENAMER ACC Owen Roberts TWR			E/T	A/C/S	250				*MSSR-Mode S
Mata de Caña, Costa Rica	CENAMER ACC			E/T	A/C/S	250				*MSSR-Mode S
Puerto Cabezas, Nicaragua	CENAMER ACC			E/T	A/C/S	250				*MSSR-Mode S
Dixon Hill, Honduras	CENAMER ACC			E/T	A/C/S	250				*MSSR-Mode S
Monte Crudo, Honduras	CENAMER ACC			E/T	A/C/S	250				*MSSR-Mode S

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TABLE CNS II-CARSAM-6~~10~~- AM(R) VHF GEOGRAPHICAL SEPARATION CRITERIA

Air/ground communication for	Symbol	Designated operational coverage		Minimum geographical separation (NM)	Adjacent channel separation (NM)
		NM	Up to m (ft)		
Aerodrome control	TWR	25	1 200 (4 000)	175	50
Surface movement control	SMC	Limits of the aerodrome	Surface	25	25
Approach control up to FL 450	APP/U	150	13 700 (45 000)	820	180
Approach control up to FL 250	APP/I	75	7 600 (25 000)	550	95
Approach control up to FL 120	APP/L	50	3 650 (12 000)	370	60
Area control up to FL 450	AC/U	Within the area plus 50 NM	13 700 (45 000)	520 between limits of service areas	180 between limits of service areas
Area control up to FL 250	AC/L	Within the area plus 50 NM	7 600 (25 000)	390 between limits of service areas	95 between limits of service areas
SST high level operations or VHF/ER	AC/R	To be specified	20 000 (66 000)	1 300	350
VOLMET up to FL 450	V	Maximum omni-directional available	13 700 (45 000)	520	180

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Table CNS II-CARSAM-7~~11~~ – AM(R) VHF SUB-BANDS ALLOTMENT TABLE

Frequency sub-band (MHz)	Worldwide utilization	CAR/SAM application	Remarks
118.00 – 118.925	National/International	TWR	Note
119.00 – 121.375	National/International	APP	
121.5	Emergency frequency	Emergency frequency	
121.60 – 121.975	National/International	SMC	
122.00 – 123.05	National	—	
123.1	Aux. frequency SAR	Aux. frequency SAR	
123.15 – 123.675	National	—	
123.45	Air-to-air communications	Air-to-air communications	
123.70 – 126.675	National/International	ACC	
126.70 – 127.575	National/International	General purpose (GP)	
127.60 – 127.90	National/International	VOLMET/ATIS	
127.950 – 128.80	National/International	ACC	
128.850 – 129.850	National/International	APP	
129.90 – 132.025	National/International	AOC	
132.050 – 132.950	National/International	VOLMET/ATIS	
133.00 – 135.950	National/International	ACC	
136.00 – 136.875	National/International	—	
136.90 – 136.975	National/International	Reserved for VDL	

Note. — With the exception of 123.45 MHz, which is also used as the worldwide air-to-air communications channel

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CAR/SAM ANP, VOLUME II

PART IV - AIR TRAFFIC MANAGEMENT (ATM)

1. INTRODUCTION

1.1 This part of the CAR/SAM ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to air traffic management (ATM). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of ATM facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to ATM facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

Optimization of traffic flows

2.1 The Planning and Implementation Regional Groups (PIRG), through regional air navigation agreement, are responsible for the optimization of the traffic flows through the continuous improvement of the regional ATS route network and organized track systems and implementation of random routing areas and free route airspace in the Region(s) through the set-up of appropriate mechanisms for regional and inter-regional planning and coordination.

2.2 Whenever practicable, States should, in close coordination with operators, establish the most efficient routings.

2.3 The requirements for regional ATS route network, in particular, for ATS routes over the high seas and airspace of undetermined sovereignty, should be agreed upon through regional air navigation agreement.

Note: States' AIPs and other States publications should be consulted for information on the implemented ATS routes.

Aircraft Identification-SSR Code Management

2.4 Within the context of air traffic management (ATM) and the provision of air traffic services (ATS), SSR code management is a key element of ATM to ensure continuous, unambiguous aircraft identification. The number of secondary surveillance radar (SSR) codes is limited and poor management of the assignment of SSR codes results in capacity constraints and aircraft delays. States and air navigation service providers (ANSP) should apply the SSR Code Allocation Plan approved by the GREPECAS. The SSR Codes Allocation Plan of the Caribbean and South American Regions is addressed in the Specific Regional Requirements of Volume II.

3. SPECIFIC REGIONAL REQUIREMENTS

Aircraft Identification-SSR Code Management

3.1 The SSR Codes Allocation Plan of the Caribbean and South American Regions is available at http://www.icao.int/SAM/eDocuments/SSR%20CODE%20ASSIGNMENT%20SYSTEM.pdf.

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3.2 The ATS routes agreed through regional air navigation or bi/multi-lateral agreement as appropriate, containing the basic ATS route network in the lower and upper airspaces of the Caribbean and South American Regions, ~~within sovereign airspace (including those not implemented for specific reasons)~~ are listed in Table ATM II-CARSAM-1- CAR/SAM Regions ATS Routes. ~~The Master plan containing the basic ATS route network in the lower and upper airspaces of the Caribbean and South American Regions is available at http://www.icao.int/GREPECAS/Pages/eANP_Docs.aspx~~

3.3- States must complete appropriate bilateral coordination with neighbouring States/FIRs before submitting t~~T~~he proposed additions, deletions and changes to the requirements for the ATS routes network ~~will be coordinated throught~~to the ICAO Regional Office concerned.

3.4 Selection of designators shall be in accordance with Annex 11, Appendix 1 and can be made from the following allocation table by the concerned ICAO Regional Office, until such time as CARSAM ATS route designators are managed by ICAO International Codes and Routes Designators (ICARD):

ICAO Office	**BASIC LETTERS: A, B, G, R (Conventional Routes)**			
Lima	300 - 324	425 - 449	550 - 574	675 – 699
Mexico	500 - 524	625 - 649	750 - 774	875 - 890
ICAO Office	**BASIC LETTERS: L, M, N, P (RNAV routes)**			
Lima	400 - 424	300-324 525 - 549	650 - 674	775 - 799
Mexico	200 - 224	325 - 349	450 - 474	575 - 599

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Reserved Numbers	125 – 199, 250 – 299, 375 – 399, 700 – 724, 800 – 849, 900 - 974

Letter	
Conventional (A, B, G, R – ref Appendix 2, Annex 11)	200-224, 325-349, 450-474, 575-599
RNAV (L, M, N, P)	500-524, 625-649, 750-774, 875-899

3.5 ATS route proposals shall be considered for designation as RNAV routes and not conventional routes wherever practicable. Three number designators should be used, but a zero ('0') shall not be the first number.

~~3.6 States must complete appropriate bilateral coordination with neighbouring States/FIRs before submitting a regional ATS route proposal for change, deletion or addition, to the ICAO APAC Regional Office. A Regional Air Navigation Plan 'Amendment Proposal Template' is available on the ICAO APAC website under 'APAC Electronic Documents'.~~

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TABLE ATM II-CARSAM-1- CAR/SAM REGIONS ATS ROUTES

EXPLANATION OF THE TABLE

Column	
1	Designator of ATS route. Left-hand side of page lists lower ATS routes, right-hand side of page lists upper ATS routes.
2	Significant points defining the ATS routes. Each significant point is identified by a navigation facility name or a five-letter name-code. The significant points of each ATS route are those which identify route ends, FIR boundaries or an equivalent point, are 300 NM or more from another significant point, indicate a heading change of 30° or more, and other points considered necessary to identify the route. Locations shown in parentheses indicate significant points outside the CAR/SAM regions.

Note 1 – Indicates route or route-segment not implemented.

Note 2 – Indicates route or route-segment published by the State with a designator that does not comply with Annex 11

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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
A300	UA300 See Note/Voir Note/Véase Nota 2*
KAVANAYEN 053514.00N 0614507.20W	GUAYANA 081735.80N 0624510.80W
GUAYANA 081735.80N 0624510.80W	MATURIN 094436.40N 0630911.40W
MATURIN 094436.40N 0630911.40W	MARGARITA 105449.40N 0635718.40W
MARGARITA 105449.40N 0635718.40W	KIKER 150550.00N 0651745.00W
KIKER 150550.00N 0651745.00W	DORADO
DORADO	LENNT
LENNT	*From/À partir de /A partir de KIKER
A301	UA301 See Note/Voir Note/Véase Nota 2*
VIRU VIRU 173734S – 0630852W	OTAMO 15 00 00 N 075 59 00 W
TRINIDAD 144757S – 0645617W	MANLEY
VILUX 102832S – 0673222W	TOTON
RIO BRANCO 09 52.56S 067 54.32W	AVILA
LETICIA 04 11 42 S 069 56 26 W	URSUS
S. JOSE DE GUAVIARE 02 31 54 N 072 38 25 W	BIMINI
BARRANCA BERMEJA 07 01 43 N 073 48 20 W	ANAME
DAGAN 07 59 09 N 074 04 11 W	*Between/Entre URSUS/BIMINI
BARRANQUILLA 10 47 43 N 074 51 37 W	
OTAMO 15 00 00 N 075 59 00 W	
MANLEY	
TOTON	
AVILA	
URSUS	
BIMINI	
ANAME	
A304	UA304
JULIACA 152805S 0700904W	LIMA 120031S 0770722W
ELAKO 155536S 0691818W	ASIA 124538S 0763623W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
LA PAZ 163043S – 0681401W	ELAKO155536S 0691818W
VIRU VIRU 173734S – 0630852W	LA PAZ 163043S – 0681401W
CORUMBA 19 00.97S 057 39.87W	VIRU VIRU 173734S – 0630852W
CAMPO GRANDE 20 29.01S 054 41.33W	
A305	UA305
EZEIZA 344927S 0583207W	CAP. CURBELO 345129.9S 0550530.2W
DORVO 344258S 0573102W	LITOS 342732S 0544334W
CAP. CURBELO 345129.9S 0550530.2W	TODAX 332317S 0534602W
UGELO 324042S 0530850W	UGELO 324042S 0530850W
PELOTAS 31 43.13S 052 19.65W	PELOTAS 31 43.13S 052 19.65W
	GENUS 30 34.48S 051 33.02W
	CANOAS 29 56.68S 051 08.24W
A306	UA306
CAP. CURBELO 345129.9S 0550530.2W	CAP. CURBELO 345129.9S 0550530.2W
SARGO 345858S 0565302W	SARGO 345858S 0565302W
EZEIZA 344927S 0583207W	EZEIZA 344927S 0583207W
	TOSOR 335443S 0643021W
	MENDOZA 324955S 0684727W
	UMKAL 32 53 00 S 70 00 00 W
	TABON 32 55 06 S 70 50 14 W
A307	UA307
SANTIAGO (AMB) 33 25 11 S 70 47 04 W	SANTIAGO (AMB) 33 25 11 S 70 47 04 W
NEBEG 33 48 00 S 69 54 00 W	NEBEG 33 48 00 S 69 54 00 W
ESITO 335358S 0685203W	ESITO 335358S 0685203W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
MENDOZA 324955S 0684727W SOLER 320616S 0663044W CORDOBA 311848S 0641213W CERES 295224S 0615531W SARNA 290625S 0605933W RESISTENCIA 272649 S 0590326 W BOBIK 271244 S 0582722 W FOZ 253500S 0543013W	MENDOZA 324955S 0684727W SOLER 320616S 0663044W CORDOBA 311848S 0641213W CERES 295224S 0615531W SARNA 290625S- 0605933W RESISTENCIA 272649 S 0590326 W
A309 CARRASCO 344957.8S 0560130.5W UGURA 323617S 0532027W CANOAS 29 56.68S 051 08.24W	
A310 BAGE 31 23.44S 054 06.58W ASUMA 315203S 0540919W MELO 322032.8S 0541319.1W CARRASCO 344957.8S 0560130.5W DARKA 351758S 0561502W MAR DEL PLATA 375547S 0573435W	UA310 SOROCABA 23 30.42S 047 22.69W CURITIBA 25 31.92S 049 10.06W MELO 322032.8S 0541319.1W CARRASCO 344957.8S 0560130.5W DARKA 351758S 0561502W MAR DEL PLATA 375547S 0573435W
A311 FOZ 253500S 0543013W ASUNCION 251439 S W0573119	
A312 TIMEHRI 06 29.5N 058 15.5W DALGA 08.55.1N 59.04.3W FORT-DE-FRANCE	UA312 See Note/Voir Note/Véase Nota 1* DALGA 08.55.1N 59.04.3W FORT-DE-FRANCE POINTE-A-PITRE

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
MELVILLE HALL	V.C. BIRD
POINTE-A-PITRE	*Between/Entre ODKAM/GRANN
V.C. BIRD	
A314	
CANOAS (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	UA315 See Note/Voir Note/Véase Nota 1*
MAIQUETIA 103634.10N 0665922.80W	MAIQUETIA 103634.10N 0665922.80W
AVELO 112505.00N 0680037.00W	AVELO 112505.00N 0680037.00W
CURACAO	CURACAO
VESKA	VESKA
PIGBI	PIGBI
OBLEON	OBLEON
JOSES	JOSES
GREAT INAGUA	GREAT INAGUA
BIMINI	BIMINI
	*Between/Entre JOSES/BIMINI
A317	UA317
TAPACHULA	TAPACHULA 144730N 0922230W
SAN JOSE	SAN JOSE 135606N 0905106W
EL SALVADOR	EL SALVADOR 132630N 0890254W

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MANAGUA	MANAGUA 120824N 0861030W
LIMON	LIMON 095748N 0830136W
BUFEO 094905N 0823300W	BUFEO 094905N 0823300W
TABOGA 084715N 0793343W	TABOGA 084715N 0793343W
DAKMO 072741N 0774835W	
A319	UA319 See Note/Voir Note/Véase Nota 2*
BETIR	BETIR
APGET	APGET
PUNTA CAUCEDO	PUNTA CAUCEDO
PALAS	PALAS
LIDOL 15 05.0N 73 13.0W	LIDOL 15 05.0N 73 13.0W
OROSA 14 18 42 N 074 00 00 W	OROSA 14 18 42 N 074 00 00 W
AGUJA 10 57 31 N 077 25 00 W	AGUJA 10 57 31 N 077 25 00 W
TABOGA 084715N 0793343W	TABOGA 084715N 0793343W
	*Between/Entre THANK/BETIR
A321	UA321 See Note/Voir Note/Véase Nota 2*
CALI 032406N 0762424W	BUSMO 064305N 0781959W
BUSMO 064305N 0781959W	TABOGA 084715N 0793343W
TABOGA 084715N 0793343W	SAN ANDRES 123500N 0814218W
SAN ANDRES 123500N 0814218W	PELRA 141504N 0822700W
PELRA 141504N 0822700W	CISNE 172400N 0835700W
IS. DEL CISNE 172400N 0835700W	DANUL 201112N 0851854W
DANUL 201112N 0851854W	
A322	UA322
SAN ANDRES 12 34 57 N 081 42 19 W	SAN ANDRES 12 34 57 N 081 42 19 W
AMUBI 11 37 06 N 082 43 00 W	AMUBI 11 37 06 N 082 43 00 W
B. COLORADO	B. COLORADO

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
EL COCO	EL COCO
A323	UA323
TABOGA 084715N 0793343W	TABOGA 084715N 0793343W
IVROS 073405N 0774359W	IVROS 073405N 0774359W
RIO NEGRO 05 58 50 N 075 25 06 W	RIO NEGRO 05 58 50 N 075 25 06 W
BOGOTA 04 50 48 N 074 19 24 W	BOGOTA 04 50 48 N 074 19 24 W
	BRACO 01 44.67N 069 51.44W
	GABRIEL 00 09.04S 066 59.11W
	MANAUS 03 02.40S 060 03.28W
A324	UA324
TIMEHRI 06 29.5N 058 15.5W	TIMEHRI 06 29.5N 058 15.5W
MINDA 08.55.0N 060.09.6W	MINDA 08.55.0N 060.09.6W
PIARCO	PIARCO
POINT SALINES	HEWANORRA
E.T. JOSHUA	FORT-DE-FRANCE
HEWANORRA	
FORT-DE-FRANCE	
A426	
JOSES	
SAVAR	
PORT-AU-PRINCE	
A428	
RESISTENCIA 272649 S 0590326W	
ARPAS 254354 S 0575231 W	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
ASUNCION 251439 S 0573119 W GEMAS 242042 S 0541848 W LONDRINA 23 20.37S 051 06.75W SOROCABA 23 30.42S 047 22.69W	
A430 POSADAS 272308 S 0555809 W ASUNCION 251439S 0573119W PONTA PORA 223300S 0554226W CAMPO GRANDE 20 29.01S 054 41.33W TOSAR 17 39.04S 055 31.47W CUIABA 15 39.37S 056 06.72W UGINA 14 36.58S 058 22.42W NIGVA 11 22 33 S 065 18 18W FLOTE 101720S – 0670539W RIO BRANCO 09 52.56S 067 54.32W	
A502	UA502
TONCONTIN MANAGUA EL COCO POXON 083311N 0825006W DAVID 082308.9N 0822615.6W TABOGA 084715N 0793343W	TONCONTIN MANAGUA EL COCO POXON 083311N 0825006W DAVID 082308.9N 0822615.6W TABOGA 084715N 0793343W
A511	UA511
ADAMS E.T. JOSHUA BOGSI 135331.00N 0641751.00W VODIN 143339.00N 0671816.00W	ADAMS E.T. JOSHUA BOGSI 135331.00N 0641751.00W VODIN 143339.00N 0671816.00W

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TARBA	TARBA
KINGSTON	KINGSTON
MONTEGO BAY	MONTEGO BAY
LESOM	LESOM
CAYO L. DEL SUR	CAYO L. DEL SUR
A516	UA516 See Note/Voir Note/Véase Nota 2*
RKDIA	RKDIA
NEYDU	NEYDU
MNOLO	MNOLO
ST. MAARTEN	ST. MAARTEN
MILOK 151732.00N 0655251.00W	MILOK 151732.00N 0655251.00W
ACORA 133927.00N 0672958.00W	ACORA 133927.00N 0672958.00W
CURACAO	CURACAO
	*Between/Entre ST. MAARTEN/MILOK
A517	
POINTE-A-PITRE	
GOLDEN ROCK	
TIKAL	
ST. MAARTEN	
A523	
THANK	
VERMO	
DDP	
A550	UA550

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
EL CANTON 07 31 00 N 071 26 48 W	GUAYAQUIL 020742S 0795201W
PUERTO CABELLO 102903.10N 0680440.10W	BOKAN 004831N 0775250W
MAIQUETIA 103634.10N 0665922.80W	BOGOTA 04 50 48 N 074 19 24 W
ITEGO 133732.00N 0640748.00W	KIKAS 07 00 59 N 071 58 01 W
POINTE-A-PITRE	MAIQUETIA 103634.10N 0665922.80W
	ITEGO 133732.00N 0640748.00W
	POINTE-A-PITRE
A551	UA551
MAIQUETIA 103634.10N 0665922.80W	MAIQUETIA 103634.10N 0665922.80W
ONGAL125200.00N 0633917.00W	ONGAL 125200.00N 0633917.00W
FORT-DE-FRANCE	FORT-DE-FRANCE
A552	UA552
TAMPICO	TAMPICO
NAUTLA	NAUTLA
VERACRUZ	VERACRUZ
MINATITLAN	MINATITLAN
TUXTLA	TUXTLA
ERBOR	ERBOR
LA AURORA	LA AURORA
TONCONTIN	TONCONTIN
PUERTO CABEZAS	PUERTO CABEZAS
FALLA 132604N 0824000W	FALLA 132604N 0824000W
SAN ANDRES 12 34 57 N 081 42 19 W	SAN ANDRES 12 34 57 N 081 42 19 W
ALPON 112804N 0772459W	ALPON 112804N 0772459W
BARRANQUILLA 10 47 43 N 074 51 37 W	BARRANQUILLA 10 47 43 N 074 51 37 W
ORTIZ 10 44 34 N 072 41 46 W	ORTIZ 10 44 34 N 072 41 46 W
MARACAIBO 103452.90N 0714252.90W	MARACAIBO 103452.90N 0714252.90W
MENE MAUROA 104117.40N 0710230.60W	PTO. CABELLO 102903.10N 0680440.10W

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PTO. CABELLO 102903.10N 0680440.10W	MAIQUETIA 103634.10N 0665922.80W
MAIQUETIA 103634.10N 0665922.80W	CABO CODERA 103424.80N 0660300.20W
CABO CODERA 103424.80N 0660300.20W	CARUPANO 103929.90N 0631534.10W
CARUPANO 103929.90N 0631534.10W	MEGIR 103100.00N 0615220.00W
MEGIR 103100.00N 0615220.00W	PIARCO
PIARCO	
	UA553
	PUERTO CABELLO 102903.10N 0680440.10W
	SIDOS 09 32 09 N 073 06 55 W
	ESEDA 09 01 18 N 077 25 00 W
	TABOGA 084715N 0793343W
A554	UA554 See Note/Voir Note/Véase Nota 2*
LAMER	LAMER
CERDA	CERDA
GRAND TURK	GRAND TURK
SEKAR	SEKAR
PUERTO PLATA	PUERTO PLATA
PUNTA CAUCEDO	PUNTA CAUCEDO
POKAK 16 00.0	POKAK
KABON 124445.00N 0674122.00W	KABON 124445.00N 0674122.00W
MAIQUETIA 103634.10N 0665922.80W	MAIQUETIA 103634.10N 0665922.80W
	*To/Vers/Hasta SEKAR
A555	UA555
	BELEM 01 23.06S 048 28.71W
OIAPOQUE 03 51.58N 051 47.87W	OIAPOQUE 03 51.58N 051 47.87W
CAYENNE 04 48.8N 052 22.1W	CAYENNE 04 48.8N 052 22.1W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
TRAPP	TRAPP
ADAMS	ADAMS
FORT-DE-FRANCE	FORT-DE-FRANCE
ILURI	ILURI
ST. CROIX	
HARDY	
GRAND TURK	
BIMINI	
A556	UA556
CARRASCO 344957.8S 0560130.5W	CARRASCO 344957.8S 0560130.5W
MONTE CASEROS 301600S 0573818W	MONTE CASEROS 301600S 0573818W
REPAM 272545 S 0573330 W	REPAM 272545 S 0573330 W
ASUNCION 251439 S 0573119 W	ASUNCION 251439 S 0573119 W
~~GERNI~~ MOMDI ~~195503~~ 193741 S ~~0615100~~ 0614255 W	
VIRU VIRU 173734S – 0630852W	
A561	UA561
ADAMS	ADAMS
POINT SALINES	POINT SALINES
DAREK 112939.00N 0624814.00W	DAREK 112939.00N 0624814.00W
MARGARITA 105449.40N 0635718.40W	MARGARITA 105449.40N 0635718.40W
CABO CODERA 103424.80N 0660300.20W	CABO CODERA 103424.80N 0660300.20W
A562	UA562
MATURIN 094436.40N 0630911.40W	MATURIN 094436.40N 0630911.40W
PARIA 101315.00N 0615937.00W	PARIA 101315.00N 0615937.00W
PIARCO	PIARCO
A563	UA563 See Note/Voir Note/Véase Nota 1*

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
CURACAO	CURACAO
BONAX 120441.00N 0674949.00W	BONAX 120441.00N 0674949.00W
GRAND ROQUE 115640.80N 0664016.50W	GRAND ROQUE 115640.80N 0664016.50W
TOROP 112747.00N 0661019.00W	TOROP 112747.00N 0661019.00W
MARGARITA 105449.40N 0635718	MARGARITA 105449.40N 0635718
CARUPANO 103929.90N 0631534.10W	CARUPANO 103929.90N 0631534.10W
MEGIR 103100.00N 0615220.00W	MEGIR 103100.00N 0615220.00W
PIARCO	PIARCO
A566	UA566
GUAYAQUIL 020742S 0795201W	IQUITOS 034733S 0731904W
KORBO 030106S 0775128W	LETICIA 04 11 42 S 069 56 26 W
IQUITOS 034733S 0731904W	DOGLO 04 08 24 S 069 35 42W
KALOR04 05 45 S 070 46 01 W	TEFÉ (TFE) 03 23.27S 064 43.68W
LETICIA 04 11 42 S 069 56 26 W	LUSUK 03 05.32S 060 47.36W
TEFÉ (TFE) 03 23.27S 064 43.68W	MANAUS 03 02.40S 060 03.28W
LUSUK 03 05.32S 060 47.36W	
MANAUS 03 02.40S 060 03.28W	
SANTAREM 02 25.59S 054 49.05W	
BELEM 01 23.06S 048 28.71W	
A567	UA567 See Note/Voir Note/Véase Nota 1*
BOGOTA 04 50 48 N 074 19 24 W	ARUBA
BUVIS 05 31 56 N 073 51 31 W	BEROX
CUCUTA 07 56 01 N 072 30 50 W	PUNTA CAUCEDO
ENPUT 08 12 23 N 072 22 25 W	
MENE MAUROA 104117.40N 0710230.60W	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
ARUBA	
BEROX	
PUNTA CAUCEDO	
A568	
LA PAZ 163043S – 0681401W	
VAGUR 173522S – 0692630W	
LOLES 175400S 0694700W	
DANKI 181824S 0701630W	
ARICA 18 22 10 S 70 20 47 W	
A570	UA570
RIO GALLEGOS 513640S 0691949W	LA PLATA 345833S 0575354W
PALIX 52 04 00 S 69 48 00 W	IREMO 395211S 0615453W
PUNTA ARENAS 53 00 13 S 70 51 13 W	VIEDMA 405202S 0630003W
	COMODORO RIVADAVIA 454624S 0672218W
	RIO GALLEGOS 513640S 0691949W
	PALIX 52 04 00 S 69 48 00 W
	PUNTA ARENAS 53 00 13 S 70 51 13 W
A573	UA573
LA PAZ 163043S – 0681401W	LA PAZ 163043S – 0681401W
ORALO 171746S 0693730W	ORALO 171746S 0693730W
ILO 174128S 0712102W	ILO 174128S 0712102W
A574	UA574 See Note/Voir Note/Véase Nota 1
TABOGA 08 47 15 N 079 33 43 W	TABOGA 08 47 15 N 079 33 43 W
BOGAL 093405N 0772459W	BOGAL 093405N 0772459W
CARTAGENA 10 12 30 N 075 30 22 W	CARTAGENA 10 12 30 N 075 30 22 W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
BARRANQUILLA10 47 43 N 074 51 37 W	BARRANQUILLA 10 47 43 N 074 51 37 W
SANTA MARTA 10 57 45 N 074 14 26	GILGA 12 07 44 N 071 06 23 W
TIGRO 11 38.8N 074 03.8W	DATOR 122435.00N 0701613.00W
GILGA 12 07 44 N 071 06 23 W	ARUBA
DATOR 122435.00N 0701613.00W	CURACAO
ARUBA	
CURACAO	
A575	
GUAYANA (GNA) 08 17.6N 062 45.2W	
AKROK 075230.00N 0601900.00W	
A632	UA632
V.C. BIRD	V.C. BIRD
TASAR	TASAR
ADAMS	ADAMS
EGEMA 08.55.2N 058.42.3	EGEMA 08.55.2N 058.42.3
TIMEHRI 06 29.5N 058 15.5W	TIMEHRI 06 29.5N 058 15.5W
A636	UA636 See Note/Voir Note/Véase Nota 2*
GREAT INAGUA	GREAT INAGUA
ALBEE	ALBEE
RETAK	RETAK
PUERTO PLATA	PUERTO PLATA
KATOK	KATOK
BORINQUEN	BORINQUEN
	*Between/Entre GREAT INAGUA/RETAK and between/et entre/y entre KATOK/BORINQUEN

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
A638	
STT	
GUYRO	
SLUGO	
A685	
RIO BRANCO 09 52.56S 067 54.32W	
FILHO 101143S – 0665838W	
GUAJARA 104704S – 0651652W	
A699	UA699 See Note/Voir Note/Véase Nota 2
FT. LAUDERDALE	FT. LAUDERDALE
LOUIZ	LOUIZ
A754	UA754
BELIZE	BELIZE
UTILA	UTILA
LA CEIBA	LA CEIBA
TONCONTIN	TONCONTIN
EL SALVADOR	EL SALVADOR
A756	UA756 See Note/Voir Note/Véase Nota 2*
STELLA MARIS	STELLA MARIS
GREAT INAGUA	GREAT INAGUA
BODLO	BODLO
CAP HAITIEN	CAP HAITIEN
	*Up to/Jusqu'à/Hasta BODLO
A758	UA758

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
MERIDA	MERIDA
AVRIS	AVRIS
ILOPANGO	ILOPANGO
A766	UA766 See Note/Voir Note/Véase Nota 2*
(SABINE PASS)	KELPI
KEHLI	KEHLI
COZUMEL	COZUMEL
SIGMA	SIGMA
PUERTO LEMPIRA	PUERTO LEMPIRA
	*Up to/Jusqu'à/Hasta KEHLI
A770	UA770
LEVILLE	(LEVILLE)
KEHLI	KEHLI
MERIDA	MERIDA
NALDA	NALDA
LA AURORA	LA AURORA
ILOPANGO	ILOPANGO
A890	UA890
PORT AU PRINCE	PORT AU PRINCE
GABUN	GABUN
SANTIAGO DE CUBA	SANTIAGO DE CUBA
B432	
EL CALAFATE (ECA) 501642S 0720244W	
MUNER 520000S 0711836W	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
PUNTA ARENAS (NAS) 530013S 0705113W	
B500	UB500
CAYO L. DEL SUR	CAYO L. DEL SUR
LENOS	LENOS
PISIS	PISIS
UTILA	UTILA
LA MESA	LA MESA
EL SALVADOR	EL SALVADOR
B503	UB503 See Note/Voir Note/Véase Nota 2*
NASSAU	NASSAU
ENAMO	ENAMO
NUEVAS	NUEVAS
MANZANILLO	MANZANILLO
BEMOL	BEMOL
MANLEY	MANLEY
	*Up to/Jusqu'à/Hasta ENAMO
B510	UB510
MONTEGO BAY	SANGSTER(SAI)
COLBY 150000N 0783159W	COLBY 150000N 0783159W
TABOGA 08 47 15 N 079 33 43 W	TABOGA 08 47 15 N 079 33 43 W
KUBEK 080134N 0771217W	
OTU 07 01 15 N 074 42 34 W	
B518	UB518
TIKAL	TIKAL
YAXJA	YAXJA
DEDAL	DEDAL

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
ULBIN BELIZE	BELIZE
B520	UB520 See Note/Voir Note/Véase Nota 2*
ISLA DEL CISNE	ISLA DEL CISNE
PESTO	PESTO
MANLEY	MANLEY
SASON	SASON
CABO ROJO	CABO ROJO
LECKY	LECKY
PUNTA CAUCEDO	PUNTA CAUCEDO
ANTEX	ANTEX
DORADO	DORADO
ST. MAARTEN	ST. MAARTEN
ELOPO	ELOPO
V.C. BIRD	V.C. BIRD
	*Between/Entre ELOPO/ANTEX
B552	
PUCALLPA 082233S 0743420W	
CRUZEIRO DO SUL 07 36.41S 072 46.41W	
EIRUNEPE 06 39.67S 069 52.35W	
JURAR 04 20.61S 066 06.99W	
TEFE 03 23.27S 064 43.68W	
B553	
MENE MAUROA 104117.40N 0710230.60W	
URIBI 11 15 23 N 072 09 30 W	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
RIO HACHA 11 31 39 N 072 55 03 W	
B555	UB555
CARRASCO 344957.8S 0560130.5W	CARRASCO 344957.8S 0560130.5W
GUALEGUAYCHU 330035S 0583651W	GUALEGUAYCHU 330035S 0583651W
PARANA 314830S 0602905W	PARANA 314830S 0602905W
B556	
NEUQUEN 385701S 0680917W	
TESEX 385552S 0712601W	
ARAUCANIA (NIA) 385422S 0723838W	
B560	UB560
SAN JUAN 313350S 0682517W	SAN JUAN 313350S 0682517W
MIBAS 30 47 00 S 70 17 30 W	MIBAS 30 47 00 S 70 17 30 W
TONGOY 30 16 35 S 71 28 25 W	TONGOY 30 16 35 S 71 28 25 W[1]
B561	
RIO GRANDE 534631S-0674445W	
TOGOR 53 34 24 S 68 36 38 W	
PUNTA ARENAS 53 00 13 S 70 51 13 W	
B623 See Note/Voir Note/Véase Nota 1	UB623 See Note/Voir Note/Véase Nota 1
(SAL)	(SAL)
RAKUD 03 24.54N 029 11.04W	RAKUD 03 24.54N 029 11.04W
NORONHA 03 51.40S 032 25.80W	NORONHA 03 51.40S 032 25.80W
	RECIFE 08 08.19S 034 55.64W
B646	UB646 See Note/Voir Note/Véase Nota 2*

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
GRATX	GRATX
NASSAU	NASSAU
MARATHON	MARATHON
FISH HOOK	CANOA
CANOA	LENUK
LENUK	MERIDA
MERIDA	*Up to/Jusqu'à/Hasta CANOA
B652	
CUIABA 15 39.37S 056 06.72W	
SAN MATIAS 16 20.12S 058 23.23W	
VIRU VIRU 173734S – 0630852W	
B681	UB681
TIMEHRI 06 29.5N 058 15.5W	TIMEHRI 06 29.5N 058 15.5W
GEMOL 04 21.38N 059 41.23W	GEMOL 04 21.38N 059 41.23W
BOA VISTA 02 51.13N 060 41.21W	BOA VISTA 02 51.13N 060 41.21W
B682	
PUERTO MONTT 41 25 45 S 73 05 31 W	
TONAR 41 14 30 S 71 51 00 W	
BARILOCHE 410825S 0711120W	
B684	UB684
CURICO 34 58 04 S 71 12 57 W	CURICO 34 58 04 S 71 12 57 W
ANKON 351200S 0703000W	ANKON 35 12 00 S 70 30 00 W
LOLAS 354035S 0644749W	LOLAS 354035S 0644749W
GRAL. PICO 354134S 0634503W	GRAL. PICO 354134S 0634503W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
B687	UB687
RESISTENCIA 272649S 0590326W	RESISTENCIA 272649S 0590326W
POSADAS 272308S 0555809W	POSADAS 272308S 0555809W
DOKBA 263416S 0544856W	DOKBA 263416S 0544856W
ALDOS 261350S 0544120W	
C. DEL IGUAZU 254404S 0542909W	C. DEL IGUAZU 254404S 0542909W
B688	UB688
EZEIZA 344927S 0583207W	MONTE CASEROS 301600S 0573818W
GUALEGUAYCHU 330035S 0583651W	POSADAS 272308S 0555809 W
MONTE CASEROS 301600S 0573818W	FOZ 253500S 0543013W
POSADAS 272308S 0555809 W	
ORUGA 271103S 0554808W	
FOZ 253500S 0543013W	
B689	UB689
SAN ANDRES 12 34 57 N 081 42 19 W	SAN ANDRES 12 34 57 N 081 42 19 W
KAKOL 083249N 0772454W	KAKOL 083249N 0772454W
RIO NEGRO 05 58 50 N 075 25 06 W	RIO NEGRO 05 58 50 N 075 25 06 W
MARIQUITA 05 12 26 N 074 55 27 W	MARIQUITA 05 12 26 N 074 55 27 W
BOGOTA 04 50 48 N 074 19 24 W	BOGOTA 04 50 48 N 074 19 24 W
SAN JOSE 02 31 54 N 072 38 25 W	SAN JOSE 02 31 54 N 072 38 25 W
PABON 02 42 43 S 070 01 17 W	PABON 02 42 43 S 070 01 17 W
LETICIA 04 11 42 S 069 56 26 W	LETICIA 04 11 42 S 069 56 26 W
B690	UB690
SAN ANDRES 12 34 57 N 081 42 19 W	SAN ANDRES 12 34 57 N 081 42 19 W
UGEVA 11 32 04N 082 14 12W	UGEVA 11 32 04N 082 14 12W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
ANSON 104240N 0823906W	ANSON 104240N 0823906W
PUERTO LIMON	PUERTO LIMON
EL COCO	EL COCO
B753	UB753 See Note/Voir Note/Véase Nota 2*
MERIDA	MERIDA
PENSO	PENSO
BELIZE	BELIZE
LA MESA	LA MESA
TONCONTIN	TONCONTIN
	*Up to/Jusqu'à/Hasta MARTE
B760	UB760
UNV	UNV
IMELA	IMELA
BORDO	BORDO
MENDL	
LEEVI	
2BV	
B764	UB764
VINKA	VINKA
EMOSA	EMOSA
COZUMEL	COZUMEL
SATOS	SATOS
BELIZE	BELIZE
PUERTO BARRIOS	PUERTO BARRIOS
ILOPANGO	ILOPANGO

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B767	UB767
AVILA	AVILA
IBSEN	IBSEN
KANEX	KANEX
GRAND CAYMAN	GRAND CAYMAN
PESTO	PESTO
PUERTO CABEZAS	PUERTO CABEZAS
BLUEFIELDS	BLUEFIELDS
EL COCO	EL COCO
PARRITA	PARRITA
PULGO	PULGO
B879	UB879
VINKA	VINKA
NOSAT	NOSAT
B881	UB881
CANCUN	CANCUN
COZUMEL	COZUMEL
ANIKO	ANIKO
UTILA	UTILA
	UB882 See Note/Voir Note/Véase Nota 2*
	GRAND TURK
	ALBEE
	BENET
	*Up to/Jusqu'à/Hasta ALBEE
B891	UB891

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ETBOD	ETBOD
PUERTO PLATA	PUERTO PLATA
POKEG	POKEG
WATRS	WATRS
B892	
MAZ	
ANTEX	
PNA	
G300	
CUCUTA 07 56 01 N 072 30 50 W	
EL CANTON 07 31 00 N 071 26 48 W	
ARAUCA 07 04 02 N 070 43 58 W	
G426	
CONDORCOCHA 000218S 0783041W	
ENSOL 011950N 0784118W	
TUMACO 01 48 52 N 078 44 53 W	
TOKUT07 04 02 N 070 43 58 W	
TABOGA 084715N 0793343W	
G427	
ATONO 105925.00N 0672901.00W	
PUERTO CABELLO 102903.10N 0680440.10W	
ELORZA 070330.00N 0692931.30W	
G430	UG430

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
GIRARDOT 04 11 30 N 074 51 57 W	LEGUIZAMO 00 10 43 S 074 46 32 W
CARTAGENA 10 12 30 N 075 30 22 W	GIRARDOT 04 11 30 N 074 51 57 W
KILER 15 00 00 N 076 52 49 W	CARTAGENA 10 12 30 N 075 30 22 W
MONTEGO BAY	KILER 15 00 00 N 076 52 49 W
PUTUL	MONTEGO BAY
AVILA	PUTUL
TANIA	AVILA
	TANIA
G431	UG431
BOGOTA 04 50 48 N 074 19 24 W	
BUVIS 05 31 56 N 073 51 31 W	
BARRANCA BERMEJA 07 01 43 N 073 48 20 W	
CUCUTA 07 56 01 N 072 30 50 W	
ENPUT 08 12 23 N 072 22 25 W	
SANTA BARBARA 085850.90N 0715624.90W	
MENE MAUROA 104117.40N 0710230.60W	ALCOT 115441.00N 0691537.00W
CURACAO	CURACAO
SCAPA	SCAPA
DORADO	DORADO
ELMUC	ELMUC
LETON	LETON
G432	UG432 See Note/Voir Note/Véase Nota 2*
MAIQUETIA103634.10N 0665922.80W	MAIQUETIA 103634.10N 0665922.80W
ARMUR 153232.00N 0663806.00W	ARMUR 153232.00N 0663806.00W
VERMO	VERMO
DORADO	DORADO
THANK	THANK
	*From/À partir de/A partir de ARMUR

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
G433	
BELEM	
AMAPA	
OIAPOQUE	
ROCHAMBEAU	
MIKOK	
ZANDERY	
GEBON 06 4. 7N 057 0 0W	
TIMEHRI 06 29.5N 058 15.5W	
AKROK 075230.00N 0601900.00W	
MATURIN 094436.40N 0630911.40W	
MAIQUETIA 103634.10N 0665922.80W	
G434	UG434
TABOGA 08 47 15 N 079 33 43 W	TABOGA 08 47 15 N 079 33 43 W
KASOR 15 00 00 N 077 41 43 W	KASOR 15 00 00 N 077 41 43 W
MANLEY	MANLEY
G436	
TIGIR	
LIBERIA	
AMATECAMPO	
LA AURORA	
G437	UG437 See Note/Voir Note/Véase Nota 2*
GUAYAQUIL 020742S 0795201W	TABOGA 08 47 15 N 079 33 43 W
ESMERALDAS 005819N 0793743W	DUXUN 15 00 00 N 079 13 23 W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
KUDUT 012500N 0793727W	GONIS
UKLOS 05 15 33 N 079 35 36 W	AVILA
TABOGA 08 47 15 N 079 33 43 W	DINAH
DUXUN 15 00 00 N 079 13 23 W	NASSAU
GONIS	MAPYL
AVILA	(SARJE)
DINAH	
NASSAU	
MAPYL	
(SARJE)	
	*From/À partir de/A partir de DINAH
	UG438
	CONDORCOCHA 000218S 0783041W
	BOKAN 004831N 0775250W
	CALI 03 24 07 N 076 24 20 W
	RIO NEGRO 05 58 50 N 075 25 06 W
	CARTAGENA 10 12 30 N 075 30 22 W
G439	UG439
CONDORCOCHA 000218S 0783041W	SELEK
MOXAS 01 25 00 N 079 53 06 W	CAYO L. DEL SUR
TILSO 043154N 0814559W	
PULGO	
LIBERIA	
MANAGUA	
ISLA DEL CISNE	
SELEK	
CAYO L. DEL SUR	

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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
G440	UG440
TABOGA 084715N 0793343W	TABOGA 084715N 0793343W
ISEBA 093229N 0825212W	ISEBA 093229N 0825212W
EL COCO	EL COCO
LIBERIA	LIBERIA
G442	UG442
CAYO L. DEL SUR	CAYO L. DEL SUR
KATAL	KATAL
MONTEGO BAY	MONTEGO BAY
MANLEY	MANLEY
AMBIN	AMBIN
ARUBA	ARUBA
ALCOT 115441.00N 0691537.00W	ALCOT 115441.00N 0691537.00W
MAIQUETIA 103634.10N 0665922.80W~~PUNTA SAN JUAN 111003.60N 0682503.90W~~	MAIQUETIA 103634.10N 0665922.80W~~ PUNTA SAN JUAN 111003.60N 0682503.90W~~
G443	UG443
BELEM 01 23.06S 048 28.71W	CAYENNE 04 48.8N 052 22.1W
AMAPA 02 04.13N 050 51.63W	MIKOK 05 15.2N 054 18.0W
OIAPOQUE 03 51.58N 051 47.87W	ZANDERY 05 27.1N 055 12.0W
CAYENNE 04 48.8N 052 22.1W	GEBON 06 4. 7N 057 0 0W
MIKOK 05 15.2N 054 18.0W	TIMEHRI 06 29.5N 058 15.5W
ZANDERY 05 27.1N 055 12.0W	AKROK 075230.00N 0601900.00W
GEBON 06 4. 7N 057 0 0W	MATURIN 094436.40N 0630911.40W
TIMEHRI 06 29.5N 058 15.5W	BARCELONA 100740.30N 0644218.40W
AKROK 075230.00N 0601900.00W	CABO CODERA 103424.80N 0660300.20W
MATURIN 094436.40N 0630911.40W	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
BARCELONA 100740.30N 0644218.40W	
CABO CODERA 103424.80N 0660300.20W	
G444	UG444 See Note/Voir Note/Véase Nota 2*
	LEGUIZAMO 00 10 43 S 074 46 32 W
	VILLAVICENCIO 04 04 01 N 073 22 56 W
	BARRANCABERMEJA 07 01 43 N 073 48 20 W
	EL BANCO 09 02 43 N 073 58 02 W
	SELAN 13 53 03 N 073 20 00 W
LENOM	LENOM
PORT-AU-PRINCE	OBLEON
CAP. HAITIEN	CAP. HAITIEN
BOTES	BOTES
GRAND TURK	GRAND TURK
	*From/À partir de/A partir de BOTES/GRAND TURK
G445	
SAN ANDRES 12 34 57 N 081 42 19 W	
AGUJA 10 57 31 N 077 25 00 W	
CARTAGENA 10 12 30 N 075 30 22 W	
TIGRO 11 33 50 N 074 03 48 W	
RIO HACHA 11 31 39 N 072 55 03 W	
OSAKA 110830.00N 0722318.00W	
MARACAIBO 103452.90N 0714252.90W	
G446	UG446 See Note/Voir Note/Véase Nota 2*
(OLDEY)	(OLDEY)
BROOM	BROOM
GRAND TURK	GRAND TURK
BESAS	BESAS

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
KOBET	KOBET
CAUCEDO	CAUCEDO
KARUM	KARUM
CURACAO	CURACAO
REPIS 114429.00N 0684843.00W	REPIS 114429.00N 0684843.00W
PUERTO CABELLO (PBL) 10° 29' 03" N 068° 04' 40" W	PUERTO CABELLO (PBL) 10° 29' 03" N 068° 04' 40" W~~PUNTA SAN JUAN 111003.60N 0682503.90W~~
	~~MAIQUETIA 103634.10N 0665922.80W~~
	UG447
	BOGOTA 04 50 48 N 074 19 24 W
	ARORO 07 43 50 N 077 23 18 W
	SAN ANDRES 12 34 57 N 081 42 19 W
G448	UG448 See Note/Voir Note/Véase Nota 2*
SAN ANDRES 12 34 57 N 081 42 19 W	SAN ANDRES 12 34 57 N 081 42 19 W
LEVOR 150000N 0813515W	LEVOR 150000N 0813515W
GRAND CAYMAN	GRAND CAYMAN
ATUVI	ATUVI
CAYO LARGO	CAYO LARGO
VARDER	VARDER
TADPO	TADPO
MARATHON	MARATHON
	*From/À partir de/A partir de TADPO
G449	UG449 See Note/Voir Note/Véase Nota 2*
DORADO	DORADO
ANADA	ANADA

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
PELMA	PERRY
PERRY	PIARCO
PERGA	KORTO
PIARCO	GEKOS 06 56.3N 057 00.0W
KORTO	ZANDERY 05 27.1N 055 12.0W
GEKOS 06 56.3N 057 00.0W	OTONI 02 39.98N 052 30.03W
ZANDERY 05 27.1N 055 12.0W	BELEM 01 23.06S 048 28.71W
REBER 03 11.68N 052 18.03W	
AMAPA 02 04.13N 050 51.63W	
BELEM 01 23.06S 048 28.71W	
IMPERATRIZ 05 31.43S 047 26.99W	
PALMAS 10 17.47S 048 21.85W	
BRASILIA 15 52.31S 048 01.32W	
CONGOHNAS 23 37.65S 046 39.28W	
NIBGA 24 04.73S 047 14.38W	
CURITIBA 25 31.92S 049 10.06W	
CANOAS 29 56.68S 051 08.24W	
G521	UG521
COZUMEL	COZUMEL
AMIDA	AMIDA
LA MESA	LA MESA
G550	UG550
BALMACEDA 45 54 47 S 71 42 45 W	PUERTO MONTT 41 25 45 S 73 05 31 W
EGOSA 52 00 00 S 70 59 42 W	BALMACEDA 45 54 47 S 71 42 45 W
PUNTA ARENAS 53 00 13 S 70 51 13 W	EGOSA 52 00 00 S 70 59 42 W
LITOK 54 40 05 S 68 36 38 W	PUNTA ARENAS 53 00 13 S 70 51 13 W
USHUAIA 54 5017 S 68 17 03 W	LITOK 54 40 05 S 68 36 38 W
PUERTO WILLIAMS 54 55 47 S 67 37 16 W	USHUAIA 54 5017 S 68 17 03 W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	PUERTO WILLIAM 54 55 47 S 67 37 16 W
G629	UG629
SANGSTER	SANGSTER
IMADI	IMADI
RABAG	RABAG
SANTIAGO DE CUBA	SANTIAGO DE CUBA
MOA	MOA
JOTAS	JOTAS
GREAT INAGUA	GREAT INAGUA
G630	
CAP HAITIEN	
SAVAR	
G633	UG633 See Note/Voir Note/Véase Nota 2*
VILLAHERMOSA	VILLAHERMOSA
EMADA	EMADA
NALDA	BELIZE
BELIZE	NUBIS
NUBIS	GRAND CAYMAN
GRAND CAYMAN	MONTEGO BAY
MONTEGO BAY	MANLEY
MANLEY	BENET
BENET	OBLEON
PORT AU PRINCE	ETBOD
ETBOD	LECKY
LECKY	PUNTA CAUCEDO

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
PUNTA CAUCEDO	MELLA
MELLA	DORADO
DORADO	TUNNA
TUNNA	V.C. BIRD
GABAR	*Between/Entre MELLA/GABAR
V.C. BIRD	
G642	
VIGIE	
ADAMS	
G648	UG648 See Note/Voir Note/Véase Nota 1
GRAND TURK	GRAND TURK
PROVIDENCIALES	PROVIDENCIALES
MICAS	MICAS
G675	
CALI 03 24 07 N 076 24 20 W	
IPIALES 00 51 44 N 077 40 23 W	
CONDORCOCHA 000218S 0783041W	
GUAYAQUIL 020742S 0795201W	
SANTA ROSA 032650S 0800034W	
PAGUR 042846S 0802134W	
PIURA 051236S 0803658W	
LIMA 120031S 0770722W	
G678	
CABO CODERA 103424.80N 0660300.20W	
CIUDAD BOLIVAR 080716.60N 0633158.40W	
DIVINA PASTORA 04 41.58N 061 01.73W	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
BOA VISTA 02 51.13N 060 41.21W MANAUS 03 02.40S 060 03.28W ALTA FLORESTA 09 52.10S 056 06.30W XINGU 11 27.61S 054 01.75W BRASILIA 15 52.31S 048 01.32W	
G680	
BAGE 31 23.44S 054 06.58W TULIO 313223S 0543001W GUALEGUAYCHU 330035S 0583651W ROSARIO 325418S-0604653W	
G757	UG757
CHETUMAL TIKAL RABINAL	CHETUMAL TIKAL RABINAL
G765	UG765 See Note/Voir Note/Véase Nota 2*
FISH HOOK MAXIM NUKAN COZUMEL CHETUMAL RABINAL	FISH ROCK MAXIM NUKAN COZUMEL CHETUMAL RABINAL *Up to/Jusqu'à/Hasta MAXIM
G877	UG877

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
CAYO L. DEL SUR	CAYO L. DEL SUR
DEBOR	DEBOR
RIKEL	RIKEL
GRAND CAYMAN	GRAND CAYMAN
UMAKA	UMAKA
PUERTO LEMPIRA	PUERTO LEMPIRA
MANAGUA	MANAGUA
G880	UG880
CABO ROJO	CABO ROJO
PIRON	PIRON
DARSI	DARSI
MELLA	MELLA
G885	UG885 See Note/Voir Note/Véase Nota 1
ARUBA	ARUBA
BEXER	BEXER
R505	UR505
ARLEN	ARLEN
MANAGUA	MANAGUA
BUBIT	BUBIT
DURAM 121704N 0824600W	DURAM 121704N 0824600W
SAN ANDRES 12 34 57 N 081 42 19 W	SAN ANDRES 12 34 57 N 081 42 19 W
R506	UR506
CAYABO	CAYABO
NUDAL	NUDAL
CANCUN	CANCUN

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
R507	UR507 See Note/Voir Note/Véase Nota 1
GRAND TURK	GRAND TURK
CONCH	CONCH
DORADO	DORADO
R515 ADAMS	UR515 ADAMS
CROWN POINT	PIARCO
PIARCO	
R519	UR519
GERONA	GERONA
NUDAL	NUDAL
CANCUN	CANCUN
R522	UR522
CAYABO	CAYABO
ALURU	ALURU
MARUS	MARUS
ROZA RICA	POZA RICA
	UR554
	ASUNCION 251439 S 0573119 W
	ARPAS 254354 S 0575231 W
R563	
FOZ 253500S 0543013W	
GEBUN 263440S 0534646W	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
CANOAS 29 56.68S 051 08.24W	
R564	UR564
ESMERALDAS 005819N 0793743W	ESMERALDAS 005819N 0793743W
ANGEL 01 25 00 N 079 10 06 W	ANGEL 01 25 00 N 079 10 06 W
TUMACO 01 48 52 N 078 44 53 W	TUMACO 01 48 52 N 078 44 53 W
CALI 03 24 07 N 076 24 20 W	CALI 03 24 07 N 076 24 20 W
GIRARDOT 04 11 30 N 074 51 57 W	GIRARDOT 04 11 30 N 074 51 57 W
R567	UR567
CALI 03 24 07 N 076 24 20 W	LEGUIZAMO 00 10 43 S 074 46 32 W
POPAYAN (PPN) 022656N 0763651W	ARPEN 02 23 19 S 072 07 12 W
LEGUIZAMO 00 10 43 S 074 46 32 W	LETICIA 04 11 42 S 069 56 26 W
ARPEN 02 23 19 S 072 07 12 W	
LETICIA 04 11 42 S 069 56 26 W	
R568	
MENE MAUROA 104117.40N 0710230.60W	
PARAGUANA 114653.30N 0700806.00W	
ITSEL 121700.00N 0700000.00W	
ARUBA	
R625	UR625
MANZANILLO	MANZANILLO
MATOS	MATOS
	MONTEGO BAY
R628	UR628 See Note/Voir Note/Véase Nota 2*
CAYABO	CAYABO
LA HABANA	LA HABANA

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
ZARAGO	ZARAGO
VARDER	VARDER
TANIA	TANIA
MENDL	MENDL
NASSAU	NASSAU
	*From/À partir de/A partir de TANIA
R630	UR630
CAYO. L. DEL SUR	CAYO L. DEL SUR
BISTO	BISTO
BELIZE	BELIZE
RABINAL	RABINAL
R635	UR635
BARAS	BARAS
ILOPANGO	ILOPANGO
TONCONTIN	TONCONTIN
PUERTO LEMPIRA	PUERTO LEMPIRA
CRUTA	CRUTA
R640	UR640
COZUMEL	COZUMEL
DANUL	DANUL
MAMBI	MAMBI
GRAND CAYMAN	GRAND CAYMAN
MONTEGO BAY	MONTEGO BAY
KINGSTON	KINGSTON
EDROD 15 00 00 N 074 44 00 W	EDROD 15 00 00 N 074 44 00 W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
URIBI 11 15 23 N 072 09 30 W	URIBI 11 15 23 N 072 09 30 W
MARACAIBO 103452.90N 0714252.90W	MARACAIBO103452.90N 0714252.90W
	BARINAS 083700.30N 0701313.90W
	AMAYA 060948N 0680930W
	PUERTO AYACUCHO 05 37 06 N 067 36 30 W
	VUMPI 01 59.40N 063 56.90W
	MANAUS 03 02.40S 060 03.28W
R644	UR644
CAYMAN BRAC	CAYMAN BRAC
GRAND CAYMAN	GRAND CAYMAN
ULISA IS. DEL CISNE	ULISA IS. DEL CISNE
UTILA	UTILA
LA MESA	LA MESA
LA AURORA	LA AURORA
TAPACHULA	TAPACHULA
R645	UR645
LA MESA	LA MESA
LA CEIBA	LA CEIBA
R683	
NEUQUEN 385701S 0680917W	
EPGOL 380203S 0694242W	
KAMUR 37 09 00 S 71 08 50 W	
CHILLAN 36 35 11 S 72 01 58 W	
R750	UR750
HEWANORRA	HEWANORRA
ADAMS	ADAMS

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
R763	UR763 See Note/Voir Note/Véase Nota 2
LETON	LETON
GRAND TURK	GRAND TURK
BORINQUEN	BORINQUEN
R773	UR773
LIBERIA	LIBERIA
PARRITA	PARRITA
COTO 47	COTO 47
R878	UR878
PUERTO CABEZAS	PUERTO CABEZAS
MANAGUA	MANAGUA
R883	UR883
ILOPANGO	ILOPANGO
SEDRO	SEDRO
R888	UR888 See Note/Voir Note/Véase Nota 2*
SAINT CROIX	SAINT CROIX
MODUX	MODUX
PÒINTE-A-PITRE	PÒINTE-A-PITRE
	*Up to/Jusqu'à/Hasta MODUX
R890	UR890
SWA	SWA
CORAL	CORAL

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
AGUAN	AGUAN
ANGEL	ANGEL
TNT	TNT
GALAN	GALAN
TUKOR	TUKOR
ANAPO	ANAPO
R899	UR899
PUERTO CABEZAS	PUERTO CABEZAS
PUERTO LEMPIRA	PUERTO LEMPIRA
ROATAN	ROATAN
BELIZE	BELIZE
CHETUMAL	CHETUMAL
RNAV ROUTES / ROUTES RNAV / RUTAS RNAV	
	UL200
	LIMON
	LIBERIA
	TAMES
	ALSAL
	UL201
	MITU 01 14 32 N 070 14 12 W
	ABIDE 00 40.71N 069 41.28W
	CLOTI 02 07.43S 067 10.09W
	BUMBA 03 33.07S 065 46.19W
	OBEBA 06 56.47S 062 42.83W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	ARPAR 10 30.90S 059 17.18W
	EQUAL 13 45.40S 056 06.58W
	MABMA 16 42.55S 053 06.05W
	ASTOB 20 40.80S 048 49.39W
	HASTE 21 06.43S 048 20.60W
	UL203
	ALSAL
	BETIS
	COCOS
	LIXAS
	ATENO 02° 03' 05'' S 081° 52' 10'' W
	ARNEL 03° 24' 00'' S 081° 35' 00'' W
	ARNEL 03° 24' 00'' S 081° 35' 00'' W
	UL205
	POS
	LIMBO
	ANU
	UL206
	VUPIP 22 48.95S 042 38.24W
	CALVO 18 25.73S 039 00.75W
	DEMON 15 23.60S 036 54.85W
	BUGAT 03 37.15S 029 14.59W
	KODOS 01 12.18N 026 13.02W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	(DAKAR)
L207	UL207
SCHOLES	IPSEV
MUSYL	LIBOK
CATFS	LERIL
SEAGL	AXOVI
IPSEV	AXUDA
LIBOK	CAMPECHE
LERIL	
AXOVI	
AXUDA	
CAMPECHE	
L208	UL208
SABINE PASS	DUTNA
ANKRR	ODKOT
RUMMM	AGPOD
PEGLG	URTEL
DUTNA	MERIDA
ODKOT	
AGROD	
URTEL	
MERIDA	
L209	UL209
KEHLI	KEHLI
TABSA	TABSA
BETAS	BETAS
MEDIR	MEDIR

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
MESNA	MESNA
MERIDA	MERIDA
	UL210
	GELOG
	BORDO
	UL211
	LA PLATA 345833S 0575354W
	ESLAN 345855S 0570505W
	GATOS 353959S 0563502W
	PAGAD 362648S 0550011W
	KILOS 401459S 0450000W
	MUNES 401958S 0100000W
	(CAPE TOWN)
L212	UL212
NOSAT 215749N 0855852W	NOSAT 215749N 0855852W
LITGU 215356N 0845449W	LITGU 215356N 0845449W
UNG/NDB 214521N 0825241W	UNG/NDB 214521N 0825241W
UCL/VOR 213618N 0813158W	UCL/VOR 213618N 0813158W
PERLA 213450N 0804959W	PERLA 213450N 0804959W
UCM/VOR 212615N 0774803W	UCM/VOR 212615N 0774803W
UHG/VOR 204753N 0761811W	UHG/VOR 204753N 0761811W
HOLGUIN	HOLGUIN
URLAM	URLAM
SINGA	SINGA
ONPAD	ONPAD

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
KODIX	KODIX
L214	UL214
LEEVILLE	
PLNDR	
DAGGR	
IRDOV	IRDOV
NUDIS	NUDIS
OTOMO	OTOMO
XORAR	XORAR
CANCUN	CANCUN
SIGMA	SIGMA
	UL216
NELOX 29 59.76S 051 09.91W	
GEBUN 263440S 0534646W	
FOZ 253500S 0543013W	
	ARVOP 221601S 0563657W
	SIDAK 193821S 0581228W
	UGUPA 153734S 0602330W
	ARMUK 132856S 0613330W
	UBSIM 12 56.50S 061 50.62W
	PORTOVELHO 08 42.84S 063 54.21W
	MEDLE 03 33.07S 065 46.19W
	SAO GABRIEL 00 09.04S 066 59.11W
	ZORRO 01 51.80N 067 12.11W
	PUERTO AYACUCHO 053658N 0673637W
	ALTOS 102335N 0670231W
	UL224

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	ALDEIA 22 48.77S 042 05.72W
	ROKAD 23 02.22S 041 47.40W
	CIDER 24 07.83S 040 16.39W
	(CAPE TOWN)
L300	UL300
TONGOY 301635S 0712825W	TONGOY 301635S 0712825W
UBKON 283000S 0711726W	UBKON 283000S 0711726W
ARICA 182210S 0702047W	ARICA 182210S 0702047W
	OPKUL 150634S 0710225W
	ETEBA 122546S 0713544W
	SELVA 09 31.32S 072 11.14W
	OSORA 05 42.97S 072 56.56W
	IQUITOS 034733S 0731904W
	ROLUS 010753S 0733736W
	BOGOTA 045048S 0741924W
	UL301
	CONGONHAS 23 37.65S 046 39.28W
	TOBTO 23 51.68S 047 56.24W
	BOLIR 245252 S 0543159 W
	ASUNCION 251439S 0573119W
L302	UL302
LIMA 120031S 0770722W	LIMA 120031S 0770722W
ILMAR 141629S 0763048W	ILMAR 141629S 0763048W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
IREMI 182100S 0752300W TONGOY 301635S 0712825W SIMOK 314506S 0705111W	IREMI 182100S 0752300W TONGOY 301635S 0712825W SIMOK 314506S 0705111W
	UL304 See Note/Voir Note/Véase Nota 2* CAMPINAS 23 00.52S 047 07.74W EGONI 18 00.05S 050 01.78W MOSNA 15 04.66S 051 34.41W MALMI 12 11.02S 053 03.06W TAROP 09 01.92S 054 37.96W ESMAR 05 44.87S 056 52.06W KULAB 02 51.28S 058 29.85W POVLA 04 10.62N 062 26.21W TEPER 090057N 0650953W CABO CODERA 103425N 0660300W ILKIT 125240N 0673943W IRGUT 160000N 0695453W JOSES 200842N 0731305W GREAT INAGUA 205735N 0734042W
	UL305 LIMA 120031S 0770722W AMVEX 104802S 0764812W TERAS 020000S 0755600W PULTU 00 04 00 N 075 34 48 W GIRARDOT 04 11 30 N 074 51 57 W BARRANQUILLA 10 47 43 N 074 51 37 W
	UL306 LIMA 120031S 0770722W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	ILNAM 093119S 0721108W INTER 07 07.78S 067 38.12W MANAUS 03 02.40S 060 03.28W SIROS 02 28.28N 054 41.53W CAYENNE 04 48.8N 052 22.1W
	UL308 PUEBLA OAXACA ATULCO ANREX ISERU UGADI 012500N 0861600W ANPAL 032400S 0830012W UGEMA 082214S 0793613W SALINAS 111715S 0773345W LIMA 120031S 0770722W
	UL309 CALAMA (VOR/DME) 223001S 0685237W EMPEX 203043S 0683954W LA PAZ 163043S – 0681401W ALBEG 124918S 0680242W GRAFO 103834S 0675601W RIO BRANCO 09 52.56S 067 54.32W MULIP 02 29.89S 067 12.17W GABRIEL 00 09.04S 066 59.11W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UL312
	ATOGO 101149S 0780038W
	ISREN 094212S 0784036W
	REBAN 082649S 0794222W
	OSAKI 032400S 0844100W
	LOGAL 012500N 0885442W
	UKABO 035437N 0910617W
	ROTRO 085139N 0953116W
	KATIS 115910N 0982504W
	LA PAZ 240506N 1102130W
	SAUZA 321048N 1172148W
	UL318
	CONDORCOCHA(QIT) 00° 02' 18'' S 078° 30' 41'' W
	ESMERALDAS 005819N 0793743W
	VAMOS 01 25 00 N 080 01 30 W
	BOLDO 04 30 59 N 082 54 49 W
	RADIM
	EBDEL
	ALSAL
	PUEBLA
	MEXICO
	UL322
	TABON 32 55 06 S 70 50 14 W
	ASIMO 31 53 00 S 70 19 00 W
	EGIKA 293314S 0683653W
	SALTA 245108S 0652902W
	GAXOK 221312S 0643636W
	VIRU VIRU 173734S 0630852W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	ILRES 13 09.39S 062 21.20W
	PAKEM 07 47.78S 061 13.45W
	MANAUS 03 02.40S 060 03.28W
	BUVIP 01 22.25N 059 13.60W
	TIMEHRI 06 29.5N 058 15.5W
	UL324
	FOZ 253500S 0543013W
	CATARATAS DEL IGUAZU 254404S 0542909W
ELAMO 28 06.03S 055 27.13W	
CUARA 302211S 0562659W	
KUKEN 341058S 0581302W	
EZEIZA 344927S 0583207W	
	UL327
	SIDUR 22 45.27S 044 13.08W
	VITÓRIA 20 14.98S 040 16.98W
ARPEV 194956S 0394346W	
	ONSEK 10 52.47S 028 54.52W
	SERIM 03 07.45S 020 24.45W
	(MONROVIA)
	UL330
	VITORIA 20 14.98S 040 16.98W
	POLVO 18 35.37S 038 31.24W
	EMTUP 10 00.87S 030 05.44W
	ASDOK 01 36.82S 022 26.42W
	(FREETOWN)

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UL332
	NAUTLA
	NUBEL
	SWORD
	MINOW
	(MIAMI)
L333	UL333
HARVEY	PISAD
HOOCK	RAKAR
TRESR	XOPUT
CCUDA	ONDEB
PISAD	DUVMU
RAKAR	CONAR
XOPUT	DANUL
ONDEB	
DUVMU	
CONAR	
DANUL	
	UL335
	VITORIA 20 14.98S 040 16.98W
	GARUP 18 51.75S 037 40.37W
	TURAB 12 25.99S 026 45.02W
	AKRAN 05 49.96S 016 44.01W
	(ACCRA)
	UL337
	PIARCO (POS) VOR/DME

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	VUDAL 122713.00N 0632426.00W ARMUR 153232.00N 0663806.00W NEGON OSIDU BODLO GREAT INAGUA (ZIN) NDB BIMINI (ZBV) VOR/DME (MIAMI)
	UL340 SIDUR 22 45.27S 044 13.08W ALDEIA 22 48.77S 042 05.72W LOBIK 22 46.19S 041 35.45W EKALO 22 26.03S 038 08.83W (LUANDA)
L341 TANIA GONIS SANGSTER	UL341 TANIA GONIS SANGSTER
	UL344 LIMA 120031S 0770722W SALINAS 111715S 0773345W AMERO 032400S 0834600W ARTOM 012500N 0872830W VODIR POGAM

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	NOTOS
	ULAPA
	ACAPULCO
	UL345
	UVA/VOR 230129N 0812713W
	USBUV 202853N 0821726W
	SELEK 200541N 0822455W
L347	UL347
MANLEY	MANLEY
VIKRO	VIKRO
SANTIAGO DE CUBA	SANTIAGO DE CUBA
L348	UL348
SANTO DOMINGO 33 39 26 S 71 36 52 W	SANTO DOMINGO 33 39 26 S 71 36 52 W
ISLA DE PASCUA 27 09 50 S 109 24 21 W	ISLA DE PASCUA 27 09 50 S 109 24 21 W
SAURI 25 45 00 S 120 00 00 W	SAURI 25 45 00 S 120 00 00 W
(TAHITI)	(TAHITI)
	UL349
	CLONN
	TAMPICO
	UL375
	FIVZE N250000 W0600000
	DABAK, N180000 W0511930
	EGIBO, N170000 W0500000
	IRAXI, N130000 W0450000
	ORALA, N113812 W0431606

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UDOKA, N090000 W0400000
	UKEDI, 06 35.30N 037 04.60W
	EGIMI, 06 00.00N 036 20.00W
	DIKEB, 04 29.87N 034 09.29W
	OBKUT03 25.83N 032 37.10W
	ORARO02 14.83N 030 55.37W
	BODAK, 01 35.92N 029 59.78W
	NOISE, 01 23.67N 029 42.55W
	DIGOR, 00 40.00N 028 40.00W
	ARUNU, 00 34.35S 027 19.68W
	UDIGA, 03 30.77S 024 08.69W
	ETIMO05 02.69S 022 28.52W
	ISUPA, 07 43.15S 019 31.69W
	LOKIM, 11 20.00S 015 00.00W
	ETAXO, 15 51.40S 010 00.00W
	(BUTOG), S165336 W0081030
	UL401
	VENTANAS 324419S 0712946W
	ANPUK 283012S 0722409W
	ESDIN 182100S 0801212W
	ILVOS 100000S 0842513W
	PABOB 032400S 0873430W
	OSELO 012500N 0895218W
	UKABO 035437N 0910617W
	POGAM 094510N 0935810W
	UL404

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	CERES 295224S 0615531W LIXOM 25° 25' 29'' S 062° 33' 00'' W MARIA 220000S 0630000W VIRU VIRU 173734S – 0630852W
L405 MENDOZA (DOZ) 324955S 0684727W UMKAL 325300S 0700000W VENTANAS (VTN) 32 44 19 S 71 29 46 W	UL405 MENDOZA (DOZ) 324955S 0684727W UMKAL 325300S 0700000W VENTANAS (VTN) 32 44 19 S 71 29 46 W
	UL416 SAN JUAN (JUA) 313350S 0682517W MIBAS 304700S 0701730W TONGOY (TOY) 301635S 0712825W
	UL417 PARANA 314830S 0602905W SINUT 305634S 0605038W UBRIX 254458S 0625203W PUBUM 221430S 0640336W LOKOX 165002S 0654433W ISARA 10 46.38S 067 38.01W BRANCO 09 52.56S 067 54.32W ARUXA 03 28.94S 069 47.70W PABON 02 42 43 S 070 01 17 W IROTI 08 14 03 N 073 30 43 W EGAPO 15 00 00 N 075 46 58 W MANLEY (MLY) VOR/DME PULKA MANZANILLO (UMZ) VOR/DME

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UL423
	AMBALEMA 04 47 02 N 074 46 03 W
	ILTUR 06 50 21 N 078 12 50 W
	OPKOL 070042N 0783024W
	ISEBA 093229N 0825212W
	TAPACHULA (TAP) VOR/DME
	IXTEPEC (IZT) VOR TACAN
	UGERO
	XOSVO
	TEQUEQUITENGO (TEQ)VOR/DME
	UL435
	OLDEY N321544 W0775114
	JAINS N312120 W0770000
	ELEBA N303436 W 0735724
	ELURO N300932 W0722651
	DUNIG N284924 W0684426
	MEGGG N282140 W0673142
	ARUVO N271914 W0645744
	ILOGA N264827 W634502
	FIVZE N250000 W0600000
	BUTUX, N180000 W0452248
	PAKER, N152000 W0400000
	IRELA, N140000 W0372600
	(DIGUN), N093930 W0312200
L450	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
LETON	
IORIO	
COWAR	
JEFFO	
GTK	
SEKAR	
ROLSU	
KEBAL	
MOGAM	
SUTEM	
VITOB	
BEROX	
L451	
OLDEY	
JAINS	
ILI DO	
LETON	
IORIO	
SKYLE	
CERDA	
DUNED	
LERUG	
MYSTR	
ELMUC	
FRATT	
SLUGO	
PJM	
ELOPO	
ANU	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
L452 OXANA OMALA WILYY KANUX ELURO KASAR LNHOM SLUKA SKYLE WLBRN GTK RNTRY MACKI HARBG BQN ETEEE RAFEE ANADA	
L453 AZEZU LEXAD PAEPR ONGOT OVEBA ALOBI	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
BOREX	
LAMER	
RODRK	
CERDA	
FARMN	
ANTOX	
KARRN	
MACKI	
ASIVO	
BOSAK	
VODEL	
MISAT	
TEKOL	
L454	
JFK	
OWENZ	
BERGH	
WEBBB	
OKONU	
ATUGI	
IKUTA	
PERDO	
SAVON	
GRAMN	
SEBIS	
RABAL	
LUCTI	
SINGL	
MNDEZ	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
ALERI	
WOODZ	
KNDLL	
ELMUC	
PANMO	
LEEOO	
ILURI	
L455	
JFK	
OWENZ	
BERGH	
SAVIK	
UMEDA	
BEXUM	
TASNI	
DUNIG	
DUPOX	
VESRA	
ULEMO	
AVODA	
MACOR	
LENNT	
JANMA	
VACHI	
SCAPA	
L456	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
JFK	
LEOES	
LINND	
MARIG	
DARUX	
NOSID	
EMAKO	
MEGGG	
VINSO	
BOXAR	
PRCHA	
THANK	
FRATT	
ETEEE	
KIKER	
L457	
JFK	
BERGH	
WEBBB	
OKONU	
UMEDA	
NOSID	
ENAPI	
L458	
GECAL	
TALSU	
MAXAS	
THANK	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
PANMO	
ARMUR	
L459	
JFK	
OWENZ	
BERGH	
SAVIK	
DARUX	
DASER	
SHEIL	
TALSU	
NUBUS	
NECKS	
ODUCA	
CAFFE	
LEEOO	
ANADA	
L460	
ODUCA	
STT	
L461	
JFK	
LEOES	
LINND	
MARIG	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
TILED	
KINER	
BOVIC	
GECAL	
ARUVO	
DUPAN	
RODNU	
ONEPA	
YIYYO	
TRNKY	
PJM	
L462	
KAYYT	
OVAPI	
ANVER	
PIREX	
ILOGA	
TARMO	
ZABOR	
NEYDU	
LAMKN	
ANU	
L463	
NUCAR	
BAAGR	
DAAST	
KRTIS	
STAAL	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
BRRGO	
SMTTY	
RNDLY	
BTLER	
PVN	
TOMAZ	
GOVET	
JUELE	
PTA	
L464	
LAMER	
RODRK	
CERDA	
MANII	
LENUS	
SEBUG	
RNTRY	
BESAS	
PTA	
L465	UL465
TABOGA 084715N 0793343W	TABOGA 084715N 0793343W
ROKIN 114700N 0772500W	ROKIN 114700N 0772500W
ARNAL 150000N 0803651W	ARNAL 150000N 0803651W
GRAND CAYMAN	GRAND CAYMAN
TULEV	TULEV

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UL471 NAGEL PABEL GERONA (UNG) NDB TADPO (MIAMI)
	UL474 TABOGA 084715N 0793343W ROKIN 11 47 00 N 077 25 00 W TOMEK 15 00 00 N 074 57 40 W ETMUV OBLEON
L525 ARICA 182210S 0702047W ILO 174128S 0712102W PISCO 134420S 0761247W LIMA 120031S 0770722W	
	UL531 SANTIAGO 33 25 11 S 70 47 04 W NEBEG 334800S 0695400W ESITO 335358S 0685203W TERON 323008S 0661603W CORDOBA 311848S 0641213W CERES 295224S 0615531W SARNA 292317S 0604933W RESISTENCIA 272649S 0590326W BOBIK 271244S 0582722W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	FOZ 253500S 0543013W UL540 EGIMI 06°00'00'N 036°20' 00" W OPVET 01º 18' 59" N 041º 27' 45" W ERVEL 15° 30' 01" S 060°13'05"W VIRU VIRU (VIR) 17°37'34"S 063°08'52"W ARUBO 20°01'59"S 065°46'16"W SOTKU 21°52'00"S 068°03'45"W CALAMA (LOA) 22°30'01"S 068°52'37W MEJILLONES (MJL) 23°06'33"S 070°26'35"W UL542 RIO BRANCO (RCO) 09° 52' 34" S 067° 54' 19" W PALIO 07° 41' 23" S 068° 41' 13" W LETICIA 04° 11' 42" S 069° 56' 26" W PUPAS 022006S 0704056W S.JOSÉ DE GUAVIARE (SJE) 02° 31' 54" N 072° 38' 25" W BARRANCA BERMEJA (EJA) 07° 01' 43" N 073° 48' 20" W DAGAN 07° 59' 09" N 074° 04' 11" W BARRANQUILLA (BAQ) 10° 47' 43" N 074° 51' 37" W OTAMO 15| 00' 00" N 075° 59' 00" W UL550 LIMA 120031S 0770722W PISCO 134419S 0761246W EVLEP 163355S 0735651W ALDAX 182100S 0722820W CALAMA 223001S 0685237W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	KONRI 240700S 0673200W TUCUMAN 265045S 0650630W ROKER 315311S 0613337W ROSARIO 325418S 0604653W UL599 MANLEY GABIS DAVOL BYGON GREAT INAGUA UL650 CATAMARCA 283501S 0654448W BUSLO 280818S 0673855W GEKAL 274650S 0690530W PABOS 273121S 0694633W ELASA 240042S 0733708W UL653 NEUQUEN 385701S 0680917W TESEX 385552S 0712601W ARAUCANIA 385422S 0723838W UL655 MUGOT 20 52.43S 050 42.31W EGIMO 17 34.28S 054 41.46W VILHENA 12 41.61S 060 05.71W ASAPA 03 01.26S 069 42.86W PABON 02 42 43 S 070 01 17 W ASEPI 02 42 43 S 070 01 17 W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	EGODI 085142N 0824906W
	ANDEM
	ASOKU
	UGATA
	NAUTLA (NAU) VOR/DME
	IREKO
	CONCEPCION (CDR) VOR/DME
	UDIPO
	PENASCO (PPE) VOR/DME
	ASUTA
	JULIAN (JLI) VOR/DME
	UL667
	SAN ANDRES (SPP) 12° 34' 57'' N 081° 42' 19'' W
	AGUJA 10° 57' 31'' N 077° 25' 00'' W
	CARTAGENA (CTG 10° 12' 30'' N 075° 30' 22'' W
	UL670
	PUERTO MONTT (MON) 412545S 0730531W
	BALMACEDA (BAL) 455447S 0714245W
	EGOSA 520000S 0705942W
	PUNTA ARENAS (NAS) 530013S 0705113W
	LITOK 544005S 0683638W
	USHUAIA (USU) 545017S 0681703W
	PUERTO WILLIAMS (PWL) 545546S 0673716W
	UL674
	ARUBA (ABA)VOR/DME

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	ELASO BOSOM BIKOG ATUVI ALURU KHELI (HOUSTON) UL695 TAPA(Antigua), 170742N 0614754W KIGAP, 163000N 0600000W AROPU, 143800N 0560000W ASALI, 120000N 0500000W BISUK, 103000N 0463000W DETOM, 083000N 0420000 W ARUSI, 06 25.00N 037 20.00W EGIMI, 06 00.00N 036 20.00W DIKEB, 04 29.87N 034 09.29W OBKUT, 03 25.83N 032 37.10W ORARO, 02 14.83N 030 55.37W BODAK, 01 35.92N 029 59.78W NOISE, 01 23.67N 029 42.55W DIGOR, 00 40.00N 028 40.00W BUTAP, 00 15.83S 027 08.22W EGUPA, 02 33.73S 023 17.70W ASANU, 03 49.78S 021 10.35W DAGAM, 06 10.68S 017 14.88W FHAW (Ascension Is.), 075812S 0142398W
L775 PUERTO MONTT MON) 412545S 0730531W	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
PABAL 423630S 0720618W ESQUEL 425314S 710601W	
	UL776 BRASILIA 15 52.31S 048 01.32W MEVOS 10 24.10S 050 29.98W TIRIOS 02 13.14N 055 56.51W NEKOB KAISO ANU
L780 DONTI 32 57 00 S 71 11 24 W SIKAB 283000S 0730312W SULNA 27 46 43 S 73 20 21W	UL780 DONTI 32 57 00 S 71 11 24 W DONTI 325700S 0711124W SIKAB 283000S 0730312W SORTA 182100S 0761812W MOXES 141629S 0772504W ISREN 094212S 0784036W TRUJILLO 080514S 0790644W VAKUD 043028S 0793343W GUAYAQUIL 020742S 0795201W UGUPI 012500N 0795000W BUXOS 051005N 0793959W TABOGA 084715N 0793343W DAGUD 150000N 0791942W GAXER 200000N 0790930W URSUS 240000N 0790411W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UL793
	GUALEGUAYCHU 330035S 0583651W
	TODES 302945S 0584914W
	RESISTENCIA 272649S 0590326W
	KUBIR 240424 S 0595648 W
	OROMU 193154 S 0610536 W
	MIBOL 163755S 0614638W
	UDIDI 130236S 0623724W
	TEFÉ 03 23.27S 064 43.68W
	UGAGA 004842.00N 0654200.00W
	PAGAK112630.00N 0680336.00W
	TEKOL
	PUNTA CAUCEDO (CDO) VOR/DME
	ASIVO
	TOOMS
	LAMER
	(NEW YORK)
	UL795
	CAXIAS 224901S 0431536W
	OGMUK 213423S 0440425W
	IVSOB 211621S 0443732W
	RAXUS 202210S 0463755W
	UBERABA 19 45.93S 047 57.55W
	EGONI 18 00.05S 050 01.78W
	VUBOM 17 23.88S 050 45.53W
	PALAN 14 54.22S 052 19.01W
	SIGAX 12 57.60S 053 30.08W
	TELOS 09 15.51S 056 23.05W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	MOLKO 08 13.13S 057 05.30W POSTU 04 35.06S 059 25.86W KOKPA 03 42.36S 059 59.52W EGBAX 00 37.99S 061 58.18W VUMPI 01 59.40N 063 56.90W LOGON 063324N 0665818W ESIPO 122954N 0710054W DIBOK 162142N 0733830W GELOG 183342N 0751042W URSUS 240000N 0790412W
	UL797 IQUIQUE (UCU) 20 34 16 S 70 11 00 W AKNUV 21 10 47 S 6 9 46 32 W TOKOL 21 10 53 S 6 8 44 09 W ILPEM 20 57 42 S 6 8 23 06 W TOLIP 190343S 0652227W VIRU VIRU 173734S – 0630852W
M201 BAHAA JENKS EMCEE LANIE PERIE HANRI EMQUE	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
GALWY	
PAEPR	
ATUGI	
TILED	
DRYED	
NOVOK	
CARAC	
M202	
ADOOR	
CARPX	
UKOKA	
OMALA	
ONGOT	
IKUTA	
KINER	
OVAPI	
MUNEY	
JEBBY	
LOMPI	
M203	
ADOOR	
CASPR	
SNAGY	
LEXIM	
WILYY	
OVEBA	
PERDO	
SELIM	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
BOBTU	
M204	
SUMRS	
ELEBA	
ALOBI	
BEXUM	
SOORY	
M215	UM215
KNOST	PISAD
CIGAR	HIGOS
SNOMN	NUDIS
MINOW	MUSAD
PISAD	MERIDA
HIGOS	
NUDIS	
MUSAD	
MERIDA	
M219	UM219
CANCUM	CANCUN
XOPGI	XOPGI
RAKAR	RAKAR
MYDIA	MYDIA

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
SNAKR	
BUUOY	
CULLY	
CIGAR	
KNOST	
M325	
OXANA	
ONGOT	
PERDO	
ENAPI	
M326	
JAINS	
LEXIM	
ALOBI	
JIMAC	
M327	
SUMRS	
KANUX	
SAVON	
JIMAC	
M328	UM328
TANIA	SELEK
	BIRLO
	MANAGUA (MGA)
	LIBERIA
	PAPIN

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	IRASO 04° 31' 02"N 081° 36' 25" W
	AKTAB 01° 25' 00" N 079° 29' 32" W
	CONDORCOCHA (OIT) 00° 02' 18" S 078° 30' 41" W
JERRE	
RAJAY	
BARTS	
NATHY	
BAAGR	
SLEMA	
DURAN	
CNNOR	
ILIDO	
GRAMN	
TASNI	
EMAKO	
ANTIG	
M329	
DYNAH	
ZOA	
OHBEE	
MAMML	
EXTER	
DAAST	
LASEE	
CLETT	
GRATX	
KASAR	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
BOREX	
ALUDA	
M330	UM330
ENAMO	UCA/VOR 220054N 0784857W
ZWICK	UCJ/VOR 222803N 0781843W
KFFER	ENAMO 233414N 0772214W
DONEZ	
MUVOD	
DIAZZ	
KRTIS	
WITOB	
ALUTE	
MLSAP	
MILLE	
RUDLI	
DUNIG	
SHEIL	
M331	UM331
	UHG/VOR 204753N 0761811W
GHANN	GHANN 220000N 0751000W
FORST	
ROSEA	
PAARR	
SMITTY	
AVNEY	
RENAH	
CANEE	
OLEDU	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
MEGGG	
GECAL	
M345	UM345
TIBBY	AXEXO
WAHOO	LEXUD
KENGS	SAVEK
RUMMM	BOSAS
SEAGL	KEKRI
AXEXO	RAULS
LEXUD	COAPA
SAVEK	POZA RICA
BOSAS	
KEKRI	
RAULS	
COAPA	
POZA RICA	
	UM400
	CORDOBA 311848S 0641213W
	GEMOP 310117S 0631117W
	SIKOB 301027S 0602433W
	ARULA 28 43.70S 056 08.57W
	ERVAS 28 26.79S 055 36.03W
	REKIR 28 05.76S 054 37.43W
	PERNA 26 28.28S 050 20.02W
	PAKOV 25 51.59S 048 49.16W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	RONUT 25 12.57S 047 15.06W
	BITAK 23 37.81S 043 38.28W
	ALDEIA 22 48.77S 042 05.72W
	UM402
	CARRASCO 344957.8S 0560130.5W
	VUKAS 342013S 0560637W
	SEKLO 30 06.48S 056 47.97W
	KIMIK 29 32.07S 056 53.48W
	SIMOR 272719S 0571215W
	KONTO 264531.4 S 0571813.5 W
	UPOVA 260422 S 0572412 W
	ASUNCION 251439 S 0573119 W
	SIDAK 193821 S 0581228 W
	UBKAB 161854S 0583631W
	ARPAR 10 30.90S 059 17.18W
	MANAUS 03 02.40S 060 03.28W
	BOA VISTA 02 51.13N 060 41.21W
	UDUSA 044206.00N 0605117.40W
	KUMIX 052429.55N 0605516.67W
	TELUR 064232.40N 0610220.40W
	ISIGI 095328.00N 0612011.00W
	PIARCO
	UM403
	ASUNCION 251439 S 0573119W
	NILKI 243923 S 0565210 W
	SOSMO 233806 S 0554535 W
	REBOX 232423 S 0553053 W
	DUNCE 21 27.25S 053 28.55W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	SIRIS 21 01.85S 053 01.82W
	PUKIL 19 41.26S 051 40.39W
	PAMEO 16 54.66S 048 59.16W
	BRASILIA 15 52.31S 048 01.32W
	UM409
	PORTO 224255S 0425127W
	BARBACENA 2116 01S 043 45 51W
	SIGER 161235S 0465658W
	TEPEM 02 33.71S 059 39.31W
	VUMPI 01 59.40N 063 56.90W
	PUERTO AYACUCHO 05 37 06 N 067 36 30 W
	AMAYA 060948N 0680930W
	BARINAS 083700.30N 0701313.90W
	MARACAIBO 103452.90N 0714252.90W
	UM411
	VIRU VIRU 17 37.71S 063 08.99W
	ROKES 180341S 0612624W
	EVLOL 190448S 0574821W
	SIMIV 20 37.35S 052 37.13W
	MORPI 21 18.33S 049 53.42W
	PIRASSUNUNGA 21 59.07S 047 20.67W
	UM414
	LIMA 120031S 0770722W
	IQUITOS 034733S 0731904W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	ILMUX 022743S 0725056W
	OPRUS 06 28 23 N 069 42 01 W
	PUERTO CABELLO (PBL) 10° 29' 03'' N 068° 04' 40'' W
	GAVAL 11° 59' 25'' N 067° 02' 20'' W
	KIKER 15° 05' 50'' N 065° 17' 45'' W
	UM415
	SOROCABA 23 30.42S 047 22.69W
	PDTE. PRUDENTE 22 10.38S 051 25.58W
	DUNCE 21 27.25S 053 28.55W
	SIDAK 193821S 0581228W
	VIRU VIRU 173734S 0630852W
	DOBNI 154307S 0692254W
	JULIACA 152805S 0700904W
	ASIA 124538S 0763623W
	LIMA 120031S 0770722W
	UM417
	MAIQUETIA 103634.1N 0665922.8W
	TUY 101742.1N 0664750.3W
	VAGAN 03 49.15N 063 05.03W
	ARVOT 02 12.67N 062 22.81W
	ILSUB 02 01.81S 060 09.90W
	JACAREACANGA 06 14.14S 057 46.23W
	OBGAT 11 45.04S 055 12.96W
	POPTI 13 59.63S 053 34.27W
	GARCAS 15 51.21S 052 23.74W
	ANDIV 18 28.54S 050 29.15W
	ASTOB 20 40.80S 048 49.39W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	CAMPINAS 23 00.52S 047 07.74W
	UM418
	CORDOBA 311848S 0641213W
	MAVBI 311538S 0630811W
	UMSAR 310819S 0611321W
	RODOV 305004S 0574817W
	UBLAM 30 39.59S 056 09.73W
	SIDUL 30 32.94S 055 10.56W
	EKOGA 30 17.45S 053 13.61W
	NELOX 29 59.76S 051 09.91W
	UM419
	TABOGA 084715N 0793343W
	ANSON 104240N 0823906W
	LIBIS
	EGLAR
	ASOKU
	UM423
	GUAYANA 081735.80N 0624510.80W
	PAKON 04 28.87N 061 18.05W
	DIVRA 03 39.64N 060 59.30W
	BOA VISTA 02 51.13N 060 41.21W
	ESLAX 04 29.06S 057 00.26W
	TAROP 09 01.92S 054 37.96W
	CAMPINAS 23 00.52S 047 07.74W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
M424	UM424
SANTIAGO 33 25 11 S 70 47 04 W	SANTIAGO 33 25 11 S 70 47 04 W
ALBAL 34 11 00 S 69 49 00 W	ALBAL 34 11 00 S 69 49 00 W
SAN RAFAEL 343522S 0682341W	SAN RAFAEL 343522S 0682341W
RODIK 345024S 0643947W	RODIK 345024S 0643947W
EZEIZA 344927S 0583207W	EZEIZA 344927S 0583207W
	DORVO 34° 42' 58" S 057° 31' 02" W
	CARRASCO (CRR) 34° 49' 58" S 056° 01' 31" W
	CURBELO (LDS) 34° 51' 30" S 055° 05' 30" W
M525	UM525
MELLA	TABOGA 084715N 0793343W
LEILA	BITIX 10 34 14 N 077 25 00 W
VACHI	SELAN 13 53 03 N 073 20 00W
PANMO	SIBOX
FRATT	VESKA
CAFFE	MELLA
YIYYO	
ZABOR	
KAVAX	
	UM527
	LIMA 120031S 0770722W
	SIGOB 08 28.27S 073 20.30W
	AKTOR 04 00.57S 068 44.21W
	MULIP 02 29.89S 067 12.17W
	AKNOV 00 50.55S 065 20.78W
	DOBDA 04 32.30N 060 07.80W
	TIMEHRI 06 29.5N 058 15.5W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UMREM 07.56.1N 057 00.1
	TRAPP
	UM529
	TABON 32 55 06 S 70 50 14 W
	DILOK 31 56 00 S 70 38 00 W
	ASIMO 31 53 00 S 70 19 00 W
	SAN JUAN 313350S 0682517W
	BURMI 310322S 0670739W
	TIKLA 272649S 0590326W
	RESISTENCIA 272649S 0590326W
	ARPAS 254354S 0575231W
	ASUNCION (VAS) 251439S 0573119W
	UM530
	GUAYAQUIL 020742S 0795201W
	EVRED 024752S 0794652W
	EVLIM 035046S 0781931W
	VUKOK 052036S 0761357W
	EGLAD 061713S 0743139W
	KUDKU 06 46.77S 073 37.88W
	DOKVA 08 33.98S 070 20.93W
	ESGAD 09 32.56S 068 31.24W
	RIO BRANCO 095234S 0675419W
	DADED 100858S 0665335W
	BUVKI 103435 S 0652446W
	EQUAL 13 45.40S 056 06.58W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	SAMAR 14 42.78S 053 07.17W
	MOSNA 15 04.66S 051 34.41W
	OPLIK 15 28.64S 049 49.37W
	BRASILIA 15 52.31S 048 01.32W
	UM532
	KUKOL 16 41.38S 048 26.90W
	PRUDENTE 22 10.38S 051 25.58W
	TEMED 24 14.10S 052 23.61W
	UMRUV 26 35.56S 053 32.54W
	CUARA 30 22.18S 056 26.99W
	UM534
	ROSARIO 325418S 0604653W
	URURI 31 18.17S 055 07.43W
	LOBOR 30 49.08S 053 39.12W
	OBLAD 30 22.27S 052 17.01W
	NELOX 29 59.76S 051 09.91W
	UM540
	CARRASCO 344957.8S 0560130.5W
	AKPOD 32 27.95S 053 33.68W
	NELOX 29 59.76S 051 09.91W
	JUICE 29 28.87S 050 33.20W
	OSAMU 25 56.81S 048 01.28W
	UM542
	TABOGA (TBG) 08° 47' 15'' N 079° 33' 43'' W
	TINPA 04° 30' 15'' N 080° 30' 53'' W
	ANRAX 01° 25' 00'' N 081° 13' 00'' W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	MIBAR 000839S 0812718W
	ARNEL 032400S 0813500W
	TALARA (TAL) 04° 34' 50" S 081° 15' 09" W
	MIPAS 08° 14' 33" S 079° 25' 06" W
	TOPIX 11° 39' 40" S 077° 45' 36" W
	ILMAR 14° 16´ 29" S 076° 30' 48" W
	UM543
	CORDOBA (CBA) 311848S 0641213W
	CATAMARCA (CAT) 283501S 0654448W
	ARMOS 241730S 0675845W
	CALAMA (LOA)223001S 0685237W
	UM544
	ASUNCION 251439 S 0573119 W
	AKSUL 223300 S 0554710 W
	CAMPO GRANDE 20 29.01S 054 41.33W
	UM548
	LIMA 120031W 0770722W
	ASIA 124538S 0763623W
	BOMEL 143135S 0735742W
	REPES 162201S 0710632W
	ORALO 171746S 0693730W
	DARLA 193311S 0655046W
	BUXOR 213906S 0622724W
	VAS VOR 251439S 0573119W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	FOZ VOR 253500S 0543013W
	CURITIBA 25 31.92S 049 10.06W
	RONUT 25 12.57S 047 15.06W
	ANISE 24 36.13S 046 37.52W
	UM549
	TABOGA 084715N 0793343W
	DAKMO 072742N 0774836W
	MARIQUITA 051224N 0742530W
	BOGOTA 045048N 0741924W
	MITU 01 14 32 N 070 14 12 W
	ABIDE 00 40.71N 069 41.28W
	ROLUT 02 02.95S 066 42.18W
	EDRAS 05 03.75S 063 48.63W
	PAKEM 07 47.78S 061 13.45W
	SIPAK 09 45.33S 059 23.15W
	DADEL 12 31.98S 056 13.78W
	MANSI 15 09.45S 053 28.65W
	VUBOM 17 23.88S 050 45.53W
M575	UM575
TIBBY	CLONN
WAHOO	TIMAS
KENGS	XOTUG
ANKRR	TULUN
CATFS	USBIL
CLONN	AVSEN
TIMAS	TAMPICO
XOTUG	
TULUN	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
USBIL	
AVSEN	
TAMPICO	
M580	UM580
NAUTLA	NAU
NUBEL	NUBEL
TADET	TADET
COFRE	COFRE
IPTOR	IPTOR
AXOVI	AXOVI
OTOGU	OTOGU
AGPOD	AGPOD
MAPUM	MAPUM
TABSA	TABSA
MAVIL	MAVIL
OTIPO	OTIPO
IRDOV	IRDOV
CCUDA	
MINOW	
BUUOY	
NATLE	
SHAQQ	
MARCI	
M593	
GRATX	
RUDLI	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
SEBIS	
DUPOX	
AMENO	
M594	
BENET	
MEDON	
ALBBE	
GOVET	
GTK	
NETTA	
EYSEL	
CERDA	
MNDEZ	
MLLER	
ULEMO	
ILOGA	
AMENO	
M595	UM595
ERRCA	UNV/VOR 212342N 0771351W
WSSKY	ERRCA 224218N 0760812W
EVETS	
CHHAZ	
STAAL	
ISOLE	
MUSSH	
MILLE	
OLEDU	
RABAL	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
VINSO	
AYTTE	
M596	
OBN	
NABEN	
ROLSU	
PTA	
POKEG	
MACKI	
GRADI	
NOPIT	
FDLEE	
MYSTR	
KNDLL	
WATRS	
MACOR	
PRCHA	
NUBUS	
SIFEN	
M597	
PALAS	
SUTEM	
CDO	
BOSAK	
BETIR	

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
JANMA THANK NECKS QNEPA TARMO FIVZE M653 KODSA 110618S – 0651856W NIGVA 111233S – 0651818W TRINIDAD 144757S – 0645617W	
	UM654 EZEIZA 344927S 0583207W KUKEN341058S 0581302W GAMOT 30 56.67S 055 29.62W BAURU (BRU) 22 18.84S 049 06.43W FORTALEZA 03 46.34S 038 32.86W
	UM656 IVSOM 154925S 0540104W DEMIT 07 14.18S 059 39.44W MONIC 01 44.07S 063 14.05W BUVKA 01 02.50N 065 08.92W RELUN 050223.00N 0674730.00W USEKO 060933.00N 0683307.00W BARINAS 083700.30N 0701313.90W
	UM657

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	ASUNCION (VAS) 25° 14' 39" S 057° 31' 19" W
	ESELA 20° 57' 00" S 062° 13' 00" W
	ALCANTARI (ALC) 191604S 0650835W
	LA PAZ (PAZ) 16° 30' 43" S 068° 14' 01" W
	ELAKO 155536S 0691818W
	JULIACA (JUL)15° 28' 05" S 070° 09' 04" W
	UM658
	PUERTO MONTT (MON) 412545S 0730531W
	TONAR 411430S 0715100W
	BARILOCHE (BAR) 410825S 0711120W
	UM659
	PIURA (URA) 05° 12' 36" S 080° 36' 58" W
	MOXOM 03° 30' 03" S 080° 13' 07" W
	GUAYAQUIL 020742S 0795201W
	ANRAX 01 25 00 N 081 13 00 W
	OGLUT 04 31 42 N 082 23 47 W
	LESIR 055346N 0825500W
	PARRI
	UM661
	CARRASCO 344957.8S 0560130.5W
	KILUM 342113S 0551538W
	TODAX 332317S 0534602W
	DAKIS 33 13.47S 053 31.20W
	OPTUR 32 50.95S 052 57.52W
	ROKAD 23 02.22S 041 47.40W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	MUDSA 18 31.17S 038 43.96W
	VUKIR 01 55.88S 029 58.59W
	ERETU 03 07.70N 028 48.00W
	UM662
	GUAYAQUIL 020742S 0795201W
	BIVAN 013408S 0793015W
	BOLOM 001656N 0764141W
	SEKLU 035150N 0712948W
	AMAYA 060948N 0680930W
	EGOSU 075757N 0660844W
	DAREK 112939N 0624814W
	UM664
	ARICA 18 22 10 S 70 20 47 W
	DANKI 181824S 0701630W
	LOLES 175400S 0694700W
	VAGUR 17 35 22 S 69 26 30 W
	LA PAZ 163043S – 0681401W
	UM665
	GUAYAQUIL 020742S 0795201W
	EVRED 024752S 0794652W
	CUENCA 025004S 0785501W
	KORBO 030106S 0775128W
	IQUITOS 034733S 0731904W
	UM668
	LIMA 120031S 0770722W
	URCOS 133858S 0713511W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	OBLIR 140842S 0685118W
	TRINIDAD 144757S – 0645617W
	GEDUS 151654S 0602530W
	CUIABA 15 39.37S 056 06.72W
	GOIANIA 16 38.45S 049 12.67W
	BRASILIA 15 52.31S 048 01.32W
	UM671
	MELO322032.8S 0541319.1W
	AKNEN 32 00.46S 053 53.24W
	CAXIAS DO SUL 29 11.88S 051 11.32W
	OSAMU 25 56.81S 048 01.28W
	ANISE 24 36.13S 046 37.52W
	UM674
	LIMA 120031S 0770722W
	ATATU 101149S 0780038W
	EVLIM 035046S 0781931W
	ENSOL 01 19 50 N 078 41 18 W
	TUMACO 01 48 52 N 078 44 53 W
	TOKUT 05 56 23 N 079 13 29 W
	TABOGA 084715N 0793343W
	UM775
	RIO BRANCO (RCO) 09° 52' 34" S 067° 54' 19" W
	FLOTE 10° 17' 20" S 067° 05' 39" W
	SILIC 11° 10' 39" S 065° 22' 02" W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UGINA 14° 36' 35" S 058° 22' 25" W
	CUIABA 15° 39' 22" S 056° 06' 43" W
	1.1 UM776
	CONDORCOCHA 000218S 0783041W
	TERAS 020000S 0755600W
	IQUITOS 034733S 0731904W
	POSKA 05° 06' 23" S 072° 48' 43" W
	ASOLA 09° 47' 42" S 070° 58' 23" W
	RAXUN 14° 26' 54" S 069° 05' 25" W
	LA PAZ (PAZ) 16° 30' 43" S 068° 14' 01" W
	UYUNI (UNI) 20° 27' 12" S 066° 50' 10" W
	UBSAS 21° 48' 25" S 066° 14' 14" W
	JUJUY (JUJ) 24° 23' 37" S 065° 05' 34" W
	UM782
	SOROCABA 23 30.42S 047 22.69W
	PARSE 22 47.25S 048 14.24W
	MUGOT 20 52.43S 050 42.31W
	UMLEV 17 25.45S 054 05.12W
	ANLUK 13 35.92S 057 37.72W
	PAKUM 09 53.55S 060 54.74W
	SEDGA 11 55.68S 059 07.44W
	GEMEG 09 10.31S 061 32.26W GLINT 06 27.43S 063 58.20W ROUSE 03 37.86S 066 16.93W MULIP 02 29.89S 067 12.17W ABIDE 00 40.71N 069 41.28W MITU 01 14 32 N 070 14 12 W LONAX 035601N 0735653W BARRANCABERMEJA 07 01 43 N 073 48 20 W XOGEN 074738N 0743001W AGUJA 105731N 0772500W ARNAL 150000N 0803651W DELVI 162706N 0821124W OMIRO 183130N 0842942W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	TAKUX 200136N 0855348W
	CANCUN 210130N 0865130W
	OTELO 224106N 0882936W
	KEHLI 242912N 0895024W
	UM783
	LINER 335532S 0704508W
	ANKON 351200S 0703000W
	MALARGUE (MLG) 352910S 0693443W
	UM784
	LIMPO 04 53.06S 072 21.99W
	KILEV 105854S 0690604W
	LOKOX 165002S – 0654433W
	PILCO 222416 S0622505 W
	GETRA 240804S 0611840W
	RESISTENCIA 272649S 0590326W
	UM787
	MAIQUETIA 103634.10N 0665922.80W
	PUNTA SAN JUAN
	CORO 112440.10N 0694138.30W
	REBIM 11 53 24 N 071 26 06 W
	ROPOL 13 38 05 N 077 25 00 W
	TELAX 145339N 0821644W
	PUERTO LEMPIRA
	TIKAL

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	PILKO MINATITLAN PUEBLA MEXICO
	UM788 CONGONHAS 23 37.65S 046 39.28W ASDEK 28 35.69S 051 20.48W BAGE 31 23.44S 054 06.58W
M789 ASUNCION S251439W0573119 KALOM S251115 W0580937 VINOS 244633S 0615523W JUJUY 242337S 0650534W	UM789 ASUNCION 251439S 0573119W KALOM S251115 W0580937 VINOS 244633S 0615523W JUJUY 242337S 0650534W KADAT 23 23 30 S 67 08 00 W CALAMA (LOA) 22 30 01 S 68 52 37 W IQUIQUE 20 34 16 S 70 11 00 W ARICA 182210S 0702047W
	UM791 ADAMS OPLOP ISUTO PANER ARNAM 04 44.00N 049 38.05W ABUCU 04 35.17S 039 08.08W ABASE 05 43.81S 037 46.17W RECIFE 08 08.19S 034 55.64W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UM792 CONGONHAS 23 37.65S 046 39.28W ASDEK 28 35.69S 051 20.48W AKNEN 32 00.46S 053 53.24W MELO322032.8S 0541319.1W CARRASCO344957.8S 0560130.5W
	UM793 LIMA120031S 0770722W BOMEL 143135S 0735742W KOMPA 162830S 0690000W LA PAZ 163043S – 0681401W COCHABAMBA 172517S – 0661044W VIRU VIRU 173734S – 0630852W
	UM795 LIMA 120031S 0770722W LOBOT 025632S 0773940W BOKAN 004831 N 0775250W ILTUR 06 50 21 N 078 12 50 W LA PALMA 082422N 0780819W OGRUL 100750N 0781424W ENPAN 121013N 0782141W COLBY 150000N 0783159W
	UM796 MAIQUETIA 103634.10N 0665922.80W

ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	PUERTO CABELLO 102903.10N 0680440.10W MARACAIBO 103452.90N 0714252.90W AKNIL 10 23 15 N 072 57 15 W ISIMO 10 09 43 N 077 25 00 W PADUR 095843N 0823551W LIMON UM799 TABON 32 55 06 S 70 50 14 W DILOK 31 56 00 S 70 38 00 W ASIMO 31 53 00 S 70 19 00 W SIBOX 301332S 0675652W LA RIOJA 292319S 0664813W CATAMARCA 283501S 0654448W VINOS 244633S 0615523W AKNEL S234756 W0605944 REMEK 203759S 0580647W TOSAR 17 39.04S 055 31.47W EGOLA 13 06.26S 051 50.35W TEREB 09 57.03S 049 30.23W VUKER 03 46.74S 044 48.73W MOVGA 07 40.00N 035 00.00W UN420 ASUNCION (VAS) 25° 14' 39" S 057° 31' 19" W MOMDI 19° 37' 41" S 061° 42' 55" W VIRU VIRU (VIR) 17° 37' 34" S 063° 08' 52" W TRINIDAD (TRI) 14° 47' 57" S 064° 56' 17" W VILUX 10° 28' 32" S 067° 32' 22" W RIO BRANCO (RCO) 09° 52' 34" S 067° 54' 19" W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	LIMPO 04° 53' 04" S 072° 21' 59" W
	IQUITOS (IQT)03° 47' 33" S 073° 19' 04" W
	PUERTO LEGUIZAMO (PLG) 00° 10' 43" S 074° 46' 32" W
	BUSMO 06° 42' 50" N 078° 19' 48" W
	UN525
	CORDOBA(CBA) 31° 18' 48" S 064° 12' 13" W
	TUCUMAN 26° 50' 45" S 065° 06' 30" W
	SALTA (SAL) 24° 51' 08" S 065° 29' 02" W
	GESPA 22° 05' 18" S 065° 27' 00" W
	COCHABAMBA (CBA) 17° 25' 17" S 066° 10' 44" W
	PAPEK 14° 28' 48" S 066° 50' 56" W
	CITRA 10° 41' 23" S 067° 42' 44" W
	RIO BRANCO (RCO) 09° 52' 34" S 067° 54' 19" W
	UN527
	TABON (TBN) 325506S 0705041W
	GUVOL 322230S 0701330W
	SAN JUAN (JUA) 313350S 0682517W
N650	
SALTA 245108S 0652902W	
JUJUY 242337S 0650534W	
UGVAX 215745S 0633907W	
VIRU VIRU 173734S 0630852W	
N674	UN674
EL CALAFATE (ECA) 501642S 0720244W	EL CALAFATE (ECA) 501642S 0720244W

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MUNER 520000S 0711836W	MUNER 520000S 0711836W
PUNTA ARENAS (NAS) 530013S 0705113W	PUNTA ARENAS (NAS) 530013S 0705113W
	UN741 See Note/Voir Note/Véase Nota 1
	(PORTO SANTO)
	NANIK 06 20.50N 033 10.34W
	DIKEB 04 29.87N 034 09.29W
	JOBER 00 56.79S 037 02.88W
	FORTALEZA 03 46.34S 038 32.86W
	ILPUR 12 52.22S 042 43.79W
	CARDO 15 37.64S 044 05.72W
	PIRASSUNUNGA 21 59.07S 047 20.67W
	OROKA 22 58.60S 047 53.14W
	BAGE 31 23.44S 054 06.58W
	ISALA 314034S 0542647W
	DURAZNO 332122.5S 0562945.8W
	PAPIX 342458S 0580002W
	EZEIZA 344927S 0583207W
	UN775
	BIVAN 335816S 0585644W
	OPNIN 301337S 0600932W
	MEXEN 281605S 0604520W
	ISLOB 240509S 0615729W
	PILCO 222416S 0622505W
	UN789
	OPLAN
	PADOL
	TEDES

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	EGALO
	KABOR
	REDIS
	UDILA (FIR Guayaquil/No FIR)
	REMIK
	OBLIM
	ARPOL
	DIGAS
	DILEN
	IRIMO (No FIR/Tahiti FIR)
	(EKUDO)
	UN857 See Note/Voir Note/Véase Nota 1
	(LANZAROTE)
	ERETU 03 07.70N 028 48.00W
	NORONHA 03 51.40S 032 25.80W
	A MBET 07 45.57S 034 26.74W
	BIDEV 16 14.03S 038 58.34W
	DAGEL 18 00.40S 039 58.12W
	MARICA 22 58.03S 042 53.46W
	AKNUB 24 29.65S 044 34.38W
	NELOX 29 59.76S 051 09.91W
	OGRUN 32 03.72S 053 50.57W
	MELO322032.8S 0541319.1W
	DORVO344258S 0573102W
	LA PLATA 345833S 0575354W
	EZEIZA 344927S 0583207W

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ATS routes — Lower airspace Routes ATS — Espace aérien inférieur Rutas ATS — Espacio aéreo inferior	ATS routes — Upper airspace Routes ATS — Espace aérien supérieur Rutas ATS — Espacio aéreo superior
	UN866 See Note/Voir Note/Véase Nota 1
	(GOMER)
	DEKON 05 13.00N 031 37.90W
	MOSSORO 05 11.84S 037 21.87W
	TROVA 11 22.33S 040 11.89W
	QUARU 17 19.57S 043 08.68W
	UN873 See Note/Voir Note/Véase Nota 1
	(SAL)
	TASIL 04 00.30N 029 59.40W
	NATAL 05 54.50S 035 14.92W
	AKREN BUXER
	BARBACENA
	UP528
	SIGER 16° 12' 35"S 046° 56' 58" W
	SOBOL 14° 35' 40" S 047° 56' 53" W
	MEVOS 10° 24' 06" S 050° 29' 59" W
	IBDAN 08° 07' 30" S 051° 51' 20" W
	NEBAN 04° 48' 07" S 053° 38' 53" W
	SAMTAREM (STM) 02° 25' 35" S 054° 49' 03" W
	ACARI 01° 57' 26" N 056° 29' 20" W
	KOXAM 04° 58' 04" N 057° 39' 00" W
	TIMEHRI (TIM)06° 29' 03" N 058° 15' 03" W
	DALGA 08° 55' 01" N 059° 04' 02" W
	UP790
	TABOGA (TBG) 08° 47' 15" N 079° 33' 43" W
	KUBEK 08° 01' 32" N 077° 13' 06" W
	BARRANCABERMEJA (EJA) 07° 01' 43" N 073° 48' 20" W

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CAR/SAM ANP, VOLUME II

PART V – METEOROLOGY (MET)

1. INTRODUCTION

1.1 This part of the Caribbean and South American ANP, Volume II, complements the provisions in the ICAO SARPs and PANS related to aeronautical meteorology (MET). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of MET facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to the MET facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the States concerned to implement the requirements specified.

2. GENERAL REGIONAL REQUIREMENTS

Meteorological offices

2.1 In the Caribbean and South American Regions, meteorological watch offices (MWO) have been designated to maintain continuous watch on meteorological conditions affecting flight operations within their area(s) of responsibility, as indicated at **Table MET II-1**.

Meteorological observations and reports

2.2 In the Caribbean and South American Regions, routine observations, issued as a METAR, should be made throughout the 24 hours of each day at intervals of one hour or, for RS and AS designated aerodromes[1] , at intervals of one half-hour at aerodromes as indicated in **Table MET II-2**. For aerodromes included on the VHF VOLMET broadcast as indicated in **Table MET II-3**, routine observations, issued as METAR, should be made throughout the 24 hours of each day. (at intervals of one half-hour) [if applicable]

2.3 At aerodromes that are not operational throughout 24 hours, METAR should be issued at least 3 hours prior to the aerodrome resuming operations in the Caribbean and South American Regions.

Forecasts

2.4 In the Caribbean and South American Regions, an aerodrome forecast, issued as a TAF, should be for the aerodromes indicated in **Table MET II-2**.

2.5 In the Caribbean and South American Regions, the period of validity of a routine TAF should be of 9-, 24-, or 30-hours to meet the requirements indicated in Table MET II-2.

2.6 In the Caribbean and South American Regions, the forecast maximum and minimum temperatures expected to occur during the period of validity, together with their corresponding day and time of occurrence, should be included in TAF at aerodromes indicated in Table MET II-2.

2.7 In the Caribbean and South American Regions, landing forecasts (prepared in the form of a trend forecast) should be provided at aerodromes indicated in Table MET II-2.

Requirements for and use of communications

2.8 Operational meteorological information prepared as METAR, SPECI and TAF for aerodromes indicated in **Table MET II-2**, and SIGMET and AIRMET messages prepared for flight information regions or control areas indicated in **Table MET II-1**, should be disseminated to the international OPMET databanks

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designated for the Caribbean and South American Regions (namely IODB BRAZILIA of OPMET databank) and to the centre designated for the operation of the aeronautical fixed service satellite distribution system (SADIS) and the Internet-based service (Secure SADIS FTP) and/or WIFS in the CAR/SAM Region(s).

2.9 SIGMET messages should be disseminated to other meteorological offices in the Caribbean and South American Regions. (In accordance with the regional OPMET bulletin exchange scheme).

2.10 Special air-reports that do not warrant the issuance of a SIGMET should be disseminated to other meteorological offices in the Caribbean and South American Regions. (In accordance with the regional OPMET bulletin exchange scheme).

2.11 In the Caribbean and South American Regions, meteorological information for use by aircraft in flight should be supplied through VOLMET broadcasts.

2.12 In the Caribbean and South American Regions, the aerodromes for which METAR and SPECI are to be included in VOLMET broadcasts, the sequence in which they are to be transmitted and the broadcast time, is indicated in **Table MET II-3**.

3. SPECIFIC REGIONAL REQUIREMENTS

None

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TABLE MET II-1 - METEOROLOGICAL WATCH OFFICES

EXPLANATION OF THE TABLE

Column

1 Name of the State where meteorological service is required

2 Name of the flight information region (FIR) or control area (CTA) where meteorological service is required
Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.

3 ICAO location indicator of the FIR or CTA

4 Name of the meteorological watch office (MWO) responsible for the provision of meteorological service for the FIR or CTA
Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.

5 ICAO location indicator of the responsible MWO

6 Requirement for SIGMET information (excluding for volcanic ash and for tropical cyclones) to be provided by the MWO for the FIR or CTA concerned, where:
Y – Yes, required
N – No, not required

7 Requirement for SIGMET information for volcanic ash to be provided by the MWO for the FIR or CTA concerned, where:
Y – Yes, required
N – No, not required

8 Requirement for SIGMET information for tropical cyclone to be provided by the MWO for the FIR or CTA concerned, where:
Y – Yes, required
N – No, not required

9 Requirement for AIRMET information to be provided by the MWO for the FIR or CTA concerned, where
Y – Yes, required
N – No, not required

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TABLE MET II-1 - METEOROLOGICAL WATCH OFFICES

State	FIR or CTA Where Meteorological Service is Required		Responsible Meteorological Watch Office		Meteorological Service To Be Provided			
	Name	ICAO Location Indicator	Name	ICAO Location Indicator	SIGMET (WS)	SIGMET (WV)	SIGMET (WC)	SIGMET (WA)
1	2	3	4	5	6	7	8	9
Argentina	Ezeiza	SAEF	BUENOS AIRES/ Aeroparque, Jorge Newbery	SABE	Y	Y		N
	Comodoro Rivadavia	SAVF	COMODORO RIVADAVIA/General Mosconi	SAVC	Y	Y		N
	Córdoba	SACF	CORDOBA/Ing. Aer. A.L. Taravela	SACO	Y	Y		N
	Mendoza	SAMF	MENDOZA/ El Plumerillo	SAME	Y	Y		N
	Resistencia	SARR	RESISTENCIA/ Resistencia	SARE	Y	Y		N
Bolivia	La Paz	SLLP	La Paz/El Alto Intl	SLLP	Y	Y	N	N
Brazil	Brasilia	SBBS	BRASILIA/CINDACTA I	SBBS	Y	Y	Y	N
	Curitiba	SBCW	CURITIBA/CINDACTA II	SBCW	Y	Y	Y	N
	Amazonica	SBAZ	MANAUS/CINDACTA IV	SBAZ	Y	Y	Y	N
	Recife Atlántico	SBRE SBAO	RECIFE/CINDACTA III	SBRE	Y	Y	Y	N
Chile	Antofagasta	SCFZ	ANTOFAGASTA/Cerro Moreno SANTIAGO/Arturo Merino Benitez	SCFA SCEL	Y	Y	N	N
	Puerto Montt	SCTZ	PUERTO MONTT/El Tepual	SCTE	Y	Y	N	N
	Punta Arenas	SCCZ	PUNTA ARENAS/Pdte. C. Ibañez del Campo	SCCI	Y	Y	N	N
	Santiago	SCEZ	SANTIAGO/Arturo Merino Benitez	SCEL	Y	Y	N	N
Colombia	Bogotá	SKED	Bogotá/El Dorado	SKBO	Y	Y	Y	N
	Barranquilla below FL200 (cf. Bogotá)	SKEC			N	N	N	N
Cuba	Habana	MUFH	HABANA/José Martí Intl	MUHA	Y	Y	Y	N
Curazao	Curazao	TNCF	WILLEMSTAD/Hato, Curaçao I.	TNCC	Y	Y	Y	N
Dominican Republic	Santo Domingo	MDSC	SANTO DOMINGO/ Jose Francisco Peña Gomez Intl	MDSD	Y	Y	Y	N
Ecuador	Guyaquil	SEFG	GUAYAQUIL/José Joaquín de Olmedo	SEGU	Y	Y	N	N

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State	FIR or CTA Where Meteorological Service is Required		Responsible Meteorological Watch Office		Meteorological Service To Be Provided			
	Name	ICAO Location Indicator	Name	ICAO Location Indicator	SIGMET (WS)	SIGMET (WV)	SIGMET (WC)	SIGMET (WA)
1	2	3	4	5	6	7	8	9
French Guiana	Cayenne	SOOO	CAYENNE/ Rochambeau	SOCA	Y	Y	Y	N
Guyana	Georgetown	SYGC	TIMEHRI/ Cheddi Jagan Intl	SYCJ	Y	Y	Y	N
Haiti	Port-au-Prince	MTEG	PORT-AU-PRINCE/ Port-au-Prince Intl	MTPP	Y	Y	Y	N
Honduras	Central American	MHTG	TEGUCIGALPA/ Toncontin Intl	MHTG	Y	Y	Y	N
Jamaica	Kingston	MKJK	KINGSTON/Norman al Manley Intl	MKJP	Y	Y	Y	N
México	Mazatlán Oceanic México	MMFO MMFR	MEXICO/ Lic. Benito Juarez Intl	MMMX	Y	Y	Y	N
Panamá	Panamá	MPZL	PANAMA/ Tocumen Intl	MPTO	Y	Y	Y	N
Paraguay	Asunción	SGFA	ASUNCION/Silvio Pettirossi	SGAS	Y	Y	N	N
Peru	Lima	SPIM	LIMA-CALLAO/Jorge Chávez Intl	SPJC	Y	Y	N	N
Suriname	Paramaribo	SMPM	ZANDERY/Johan Adolf Pengel Intl	SMJP	Y	Y	Y	N
Trinidad and Tobago	Piarco	TTZP	PORT OF SPAIN/Piarco Intl, Trinidad I.	TTPP	Y	Y	Y	N
United States	San Juan FIR	TJZS	KANSAS CITY INTERNATIONAL, MO. Aviation Weather Center	KMCI	Y	Y	Y	N
United States	Miami ARTCC	KZMA	KANSAS CITY INTERNATIONAL, MO. Aviation Weather Center	KMCI	Y	Y	Y	Y
United States	Houston ARTCC	KZHU	KANSAS CITY INTERNATIONAL, MO. Aviation Weather Center	KMCI	Y	Y	Y	Y
United States	New York Oceanic	KZWY	KANSAS CITY INTERNATIONAL, MO. Aviation Weather Center	KMCI	Y	Y	Y	N
United States	Houston FIR/Oceanic FIR	KZHU	KANSAS CITY INTERNATIONAL, MO. Aviation Weather Center	KMCI	Y	Y	Y	N
United States	Miami FIR /Oceanic FIR	KZMA	KANSAS CITY INTERNATIONAL, MO. Aviation Weather Center	KMCI	Y	Y	Y	N
Uruguay	Montevideo	SUEO	MONTEVIDEO/Carrasco Intl Gral. Cesareo L. Berisso	SUMU	Y	Y	N	N
Venezuela	Maiquetia	SVZM	CARACAS/ Simon Bolivar Intl, Maiquetia	SVMI	Y	Y	Y	N

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TABLE MET II-2 - AERODROME METEOROLOGICAL OFFICES

EXPLANATION OF THE TABLE

Column

1 Name of the State where meteorological service is required

2 Name of the AOP aerodrome where meteorological service is required
Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.

3 ICAO location indicator of the AOP aerodrome

4 Designation of AOP aerodrome:
RG - international general aviation, regular use
RS - international scheduled air transport, regular use
RNS - international non-scheduled air transport, regular use
AS - international scheduled air transport, alternate use
ANS - international non-scheduled air transport, alternate use

5 Name of the aerodrome meteorological office responsible for the provision of meteorological service
Note: The name is extracted from the ICAO Location Indicators (Doc 7910) updated quarterly. If a State wishes to change the name appearing in Doc 7910 and this table, ICAO should be notified officially.

6 ICAO location indicator of the responsible aerodrome meteorological office

7 Requirement for METAR/SPECI from the aerodrome concerned, where:
Y – Yes, required
N – No, not required

8 Requirement for information on the state of the runway provided by the appropriate airport authority to be included as supplementary information in METAR/SPECI from the aerodrome concerned, where:
Y – Yes, required
N – No, not required

9 Requirement for trend forecast to be appended to METAR/SPECI from the aerodrome concerned, where
Y – Yes, required
N – No, not required

10 Requirement for TAF from the aerodrome concerned, where
C - Requirement for 9-hour validity aerodrome forecasts in TAF code (9H)
T - Requirement for 18/24-hour validity aerodrome forecasts in TAF code (18/24H)
X - Requirement for 30-hour validity aerodrome forecasts in TAF code (30H)
N – No, not required

11 Requirement for maximum and minimum temperature (expected to occur during the period of validity of the TAF) to be included in TAF from the aerodrome concerned, where:
Y – Yes, required
N – No, not required

12 Availability of METAR/SPECI and TAF from the aerodrome concerned, where:
F – Full availability : OPMET information as listed issued for the aerodrome all through the 24-hour period
P – Partial availability: OPMET information as listed not issued for the aerodrome for the entire 24-hour period

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State	Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					METAR/SPECI and TAF availability
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn	
1	2	3	4	5	6	7	8	9	10	11	12
Anguilla (United Kingdom)	THE VALLEY/ Clayton J. Lloyd Intl. Airport	TQPF	RS	V.C. Bird, Antigua	TAPA	Y	N	N	T	Y	P
Antigua and Barbuda	SAINT JOHNS/ V.C. Bird International Airport	TAPA	RS	V.C. Bird, Antigua	TAPA	Y	Y	Y	T	Y	F
Argentina	BUENOS AIRES/ Aeroparque J. Newbery	SABE	RS	Buenos Aires/ Aeroparque J. Newbery	SABE	Y	N	N	T	Y	F
	COMODORO RIVADAVIA/ Gral E. Mosconi	SAVC	RS	Comodoro Rivadavia/ Gral. E. Mosconi	SAVC	Y	N	N	T	Y	F
	CORDOBA/ Ing. Aer. A. L. V. Taravella	SACO	RS	Cordoba/ Ing. Aer. A.L.V. Taravella	SACO	Y	N	N	T	Y	F
	EZEIZA/ Ministro Pistarini	SAEZ	RS	Ezeiza/ Ministro Pistarini	SAEZ	Y	N	N	T	Y	F
	CATARATAS DEL IGUAZÚ / My. D.C.E. Krause	SARI	RNS&AS	Resistencia	SARE	Y	N	N	T	Y	F
	JUJUY/ Gobernador Guzman	SASJ	RS	Cordoba/ Ing. Aer. A.L.V. Taravella	SACO	Y	N	N	T	Y	F
	MAR DEL PLATA/Astor Piazolla	SAZM	RG&AS	Buenos Aires/ Aeroparque J. Newbery	SABE	Y	N	N	T	Y	F
	MENDOZA/ El Plumerillo	SAME	RS	Mendoza/ El Plumerillo	SAME	Y	N	N	T	Y	F
	NEUQUÉN/ Presidente Perón	SAZN	RNS& AS	Buenos Aires/ Aeroparque J. Newbery	SABE	Y	N	N	T	Y	F
	RESISTENCIA	SARE	RNS& AS	Resistencia	SARE	Y	N	N	T	Y	F
	RÍO GALLEGOS/ Piloto Civil N. Fernández	SAWG	RS	Comodoro Rivadavia/ Gral. E. Mosconi	SAVC	Y	N	N	T	Y	F
	ROSARIO/ Islas Malvinas	SAAR	RS	Buenos Aires/ Aeroparque J. Newbery	SABE	Y	N	N	T	Y	F
	SALTA/ General D. Martín Miguel De Güemes	SASA	RS	Cordoba/ Ing. Aer. A.L.V. Taravella	SACO	Y	N	N	T	Y	F
	SAN CARLOS DE BARILOCHE	SAZS	RNS& AS	Buenos Aires/ Aeroparque J. Newbery	SABE	Y	N	N	T	Y	F
	SAN FERNANDO	SADF	RG	Buenos Aires/ Aeroparque J. Newbery	SABE	Y	N	N	T	Y	F
	USHUAIA/ Malvinas Argentinas	SAWH	RNS&AS	Comodoro Rivadavia/ Gral. E. Mosconi	SAVC	Y	N	N	T	Y	F
Aruba (Kingdom of Netherlands)	ORANJESTAD/ Reina Beatrix International Airport	TNCA	RS	Curacao/ Aeropuerto Hato	TNCC	Y	N	N	T	Y	F
Bahamas	ALICE TOWN/ Bimini International Airport.	MYBS	RS	Nassau/ Lynden Pindling Intl.	MYNN	N	N	N			N
	COCKBURN TOWN/San Salvador International Airport.	MYSM	RS	Nassau/ Lynden Pindling Intl.	MYNN	Y	N	N	T	Y	F
	FREEPORT/ Grand Bahama International Airport.	MYGF	RS	Freeport/ Grand Bahama Intl.	MYGF	Y	N	N	T	Y	F
	GOVERNOR'S HARBOUR/ Governor's Harbour International Airport.	MYEM	RS	Nassau/ Lynden Pindling Intl.	MYNN	N	N	N			N

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1	2	3	4	5	6	7	8	9	10	11	12
	MARSH HARBOUR/ Marsh Harbour International Airport.	MYAM	RS	Nassau/ Lynden Pindling Intl.	MYNN	Y	N	N	T	Y	P
	NASSAU/ Lynden Pindling International Airport.	MYNN	RS	Nassau/ Lynden Pindling Intl.	MYNN	Y	N	N			F
	NORTH ELEUTHERA/ North Eleuthera International Airport.	MYEH	RS	Nassau/ Lynden Pindling Intl.	MYNN	N	N	N	T	Y	N
	STELLA MARIS/ Stella Maris International Airport.	MYLS	RS	Nassau/ Lynden Pindling Intl.	MYNN	N	N	N			N
	TREASURE CAY/ Treasure Cay International Airport.	MYAT	RS	Nassau/ Lynden Pindling Intl.	MYNN	N	N	N			N
	WEST END/ West End International Airport.	MYGW	RNS&AS	West End Intl.	MYGW	N	N	N			N
Barbados	BRIDGETOWN/ Grantley Adams Intl.	TBPB	RS	Bridgetown/ Grantley Adams Intl.	TBPB	Y	N	Y	T	Y	F
Belize	BELIZE/ Philip S.W. Goldson Intl	MZBZ	RS	Belize/ Philip S.W. Goldson Intl.	MZBZ	Y	N	N	T	Y	F
Bermuda (United Kingdom)	BERMUDA/ L. F. Wade Intl	TXKF	RS	L. F. Wade Intl	TXKF	Y		N	T	Y	F
Bolivia	COCHABAMBA/ Aeropuerto Internacional Jorge Wilstermann	SLCB	AS	Cochabamba/Aeropuerto Internacional Jorge Wilstermann	SLCB	Y	N	Y	T	Y	F
	LA PAZ/ Aeropuerto Internacional El Alto	SLLP	RS	La Paz/ Aeropuerto Internacional El Alto	SLLP	Y	N	Y	T	Y	F
	SANTA CRUZ/ Aeropuerto Internacional Viru Viru	SLVR	RS	Santa Cruz/ Aeropuerto Internacional Viru Viru	SLVR	Y	N	Y	T	Y	F
Brazil	BELEM/ Val de Cans/Julio Cezar Ribeiro, PA	SBBE	RS	BELEM/ Val de Cans/Julio Cezar Ribeiro, P	SBBE	Y	N	Y	T	Y	F
	BELO HORIZONTE/Tancredo Neves, MG	SBCF	RS	BRASILIA/Pres. Juscelino Kubitschek, DF	SBBR	Y	N	Y	T	Y	F
	BOA VISTA/Atlas Brasil Cantanhede, RR	SBBV	RS	MANAUS/Eduardo Gomes, AM	SBEG	Y	N	Y	T	Y	F
	BRASILIA/Pres. Juscelino Kubitschek, DF	SBBR	RS	BRASILIA/Pres. Juscelino Kubitschek, DF	SBBR	Y	N	Y	T	Y	F
	CABO FRIO/Cabo Frio, RJ	SBCB	RS	Rio De Janeiro/ Galeao-Antonio Carlos Jobim, Rj	SBGL	Y	N	Y	T	Y	F
	CAMPINAS/ Viracopos, SP	SBKP	RS	Sao Paulo/ Guarulhos, Governador Andre Franco Montoro, Sp	SBGR	Y	N	Y	T	Y	F
	CAMPO GRANDE/ Campo Grande, MS	SBCG	RS	Porto Alegre/ Salgado Filho, Rs	SBPA	Y	N	Y	T	Y	F
	CORUMBA/ Corumba, MS	SBCR	RS	Porto Alegre/ Salgado Filho, Rs	SBPA	Y	N	Y	T	Y	P
	CRUZEIRO DO SUL/ Cruzeiro Do Sul, AC	SBCZ	RS	MANAUS/Eduardo Gomes, AM	SBEG	Y	N	Y	T	Y	P
	CUIABA/ Marechal Rondon, MT	SBCY	RS	MANAUS/Eduardo Gomes, AM	SBEG	Y	N	Y	T	Y	F
	CURITIBA/Afonso Pena, PR	SBCT	RS	Porto Alegre/ Salgado Filho, Rs	SBPA	Y	N	Y	T	Y	F

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1	2	3	4	5	6	7	8	9	10	11	12
	FLORIANOPOLIS/ Hercilio Luz, SC	SBFL	RS	PORTO ALEGRE/ Salgado Filho, RSs	SBPA	Y	N	Y	T	Y	F
	FORTALEZA/ Pinto Martins, CE	SBFZ	RS	RECIFE/ Guararapes - Gilberto Freyre,PE	SBRF	Y	N	Y	T	Y	F
	FOZ DO IGUAÇU/ Cataratas, PR	SBFI	RS	Porto Alegre/Salgado Filho, Rs	SBPA	Y	N	Y	T	Y	F
	MACAPÁ/Alberto Alcolumbre, AP	SBMQ	RS	BELEM/ Val de Cans/Julio Cezar Ribeiro, PA	SBBE	Y	N	Y	T	Y	F
	MACEIO/ Zumbi dos Palmares, AL	SBMO	RS	RECIFE/ Guararapes - Gilberto Freyre,PE	SBRF	Y	N	Y	T	Y	F
	MANAUS/Eduardo Gomes, AM	SBEG	RS	MANAUS/Eduardo Gomes, AM	SBEG						
	PONTA PORÃ/Ponta Porã, MS	SBPP	RNS	Porto Alegre/ Salgado Filho, Rs	SBPA	Y	N	Y	T	Y	P
	PETROLINA/Senador Nilo Coelho, Pe	SBPL	RS	RECIFE/ Guararapes - Gilberto Freyre,PE	SBRF	Y	N	Y	T	Y	F
	PORTO ALEGRE/ Salgado Filho, RSs	SBPA	RS	Porto Alegre/ Salgado Filho, Rs	SBPA	Y	N	Y	T	Y	F
	RECIFE/ Guararapes - Gilberto Freyre,PE	SBRF	RS	RECIFE/ Guararapes - Gilberto Freyre,PE	SBRF	Y	N	Y	T	Y	F
	RIO DE JANEIRO/Galeão-Antônio Carlos Jobim, RJ	SBGL	RS	Rio De Janeiro/ Galeao-Antonio Carlos Jobim, Rj	SBGL	Y	N	Y	X	Y	F
	SALVADOR/Deputado Luis Eduardo Magalhães, BA	SBSV	RS	RECIFE/ Guararapes - Gilberto Freyre,PE	SBRF	Y	N	Y	T	Y	F
	SANTAREM/ Maestro Wilson Fonseca,PA	SBSN	AS	BELEM/ Val de Cans/Julio Cezar Ribeiro, PA	SBBE	Y	N	Y	T	Y	F
	SÃO LUÍS/Marechal Cunha Machado, MA	SBSL	AS	BELEM/ Val de Cans/Julio Cezar Ribeiro, PA	SBBE	Y	N	Y	T	Y	F
	SÃO GONÇALO DO AMARANTE/São Gonçalo do Amarante, RN	SBSG	RS	RECIFE/ Guararapes - Gilberto Freyre,PE	SBRF	Y	N	Y	T	Y	F
	SAO PAULO/Guarulhos-Governador Andre Franco Montoro, SP	SBGR	RS	Sao Paulo/ Guarulhos,Governador Andre Franco Montoro, Sp	SBGR	Y	N	Y	X	Y	F
	TABATINGA/ Tabatinga,Am	SBTT	RS	MANAUS/Eduardo Gomes, AM	SBEG	Y	N	Y	T	Y	P
	URUGUAINA/Rubem Berta, RS	SBUG	RS	Porto Alegre/ Salgado Filho, Rs	SBPA						
Cayman Islands (United Kingdom)	CAYMAN BRAC/Gerrard Smith Intl.	MWCB	RS	Georgetown/Owen Roberts Intl. .	MWCR	Y	N	N	T	Y	F
	GEORGETOWN/Owen Roberts Intl.	MWCR	RS	Georgetown/Owen Roberts Intl	MWCR	Y	N	N	T	Y	P
Chile	ANTOFAGASTA/Ap Cerro Moreno	SCFA	AS	Antofagasta/ Ap Cerro Moreno	SCFA	Y	N	Y	T	Y	P

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State	Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					METAR/SPECI and TAF availability
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn	
1	2	3	4	5	6	7	8	9	10	11	12
	ARICA/ Ap Chacalluta	SCAR	RS	Arica/ Ap Chacalluta	SCAR	Y	N	N	T	Y	P
	CONCEPCION/ Ad Altn Carriel Sur	SCIE	RS	Concepcion/ Ad Altn Carriel Sur	SCIE	Y	N	N	T	Y	P
	IQUIQUE/ Ap Diego Arracena	SCDA	RS	Iquique/ Ap Diego Arracena	SCDA	Y	N	N	T	Y	P
	PUERTO MONTT/Ap El Tepual	SCTE	RS	Puerto Montt/Ap El Tepual	SCTE	Y	N	N	T	Y	F
	PUNTA ARENAS/Ap Pdte. Carlos Ibanez Del Campo	SCCI	AS	Punta Arenas/Ap Pdte. Carlos Ibanez Del Campo	SCCI	Y	N	Y	T	Y	F
	SANTIAGO/Ap Arturo Merino Benitez	SCEL	RS	Santiago/Ap Arturo Merino Benitez	SCEL	Y	N	Y	T	Y	F
	ISLA DE PASCUA/Ap Mataveri	SCIP	RS	Isla De Pascua/Ap Mataveri	SCIP	y	N	Y	T	Y	F
Colombia	BARRANQUILLA/Ernesto Cortissoz/Atlantico	SKBQ	RS	Barranquilla/ Ernesto Cortissoz/ Atlantico	SKBQ	Y	N	Y	T	Y	F
	BOGOTA/Eldorado/Distrito Capital	SKBO	RS	Bogota/Eldorado/ Distrito Capital	SKBO	Y	N	Y	T	Y	F
	BUCARAMANGA/Palonegro	SKBG	RS								
	CALI/Alfonso Bonilla Aragón/Valle	SKCL	RS	Cali/ Alfonso Bonilla Aragón/ Valle	SKCL	Y	N	Y	T	Y	F
	CARTAGENA/Rafael Nuñez/Bolivar	SKCG	RS	Cartagena/Rafael Nuñez/Bolivar	SKCG	Y	N	N	T	Y	F
	CUCUTA/Camilo Daza/Norte De Santander	SKCC	RNS&AS	Cucuta/Camilon Daza/Norte De Santander	SKCC	Y	N	N	T	Y	P
	LETICIA/Alfredo Vásquez Cobo/Amazonas	SKLT	RNS&AS	Bogota/Eldorado/Distrito Capital	SKBO	Y	N	Y	T	Y	P
	PEREIRA/Matecaña	SKPE	RS								
	RIONEGRO/ José María Córdoba/Antioquia	SKRG	RS	Rionegro/ José María Córdoba/Antioquia	SKRG	Y	N	N	T	Y	F
	SAN ANDRES/ Gustavo Rojas Pinilla/San Andres	SKSP	RS	San Andres/ Gustavo Rojas Pinilla/San Andres	SKSP	Y	N	N	T	Y	P
	SANTA MARTA/Simón Bolívar	SKSM	RS								
Costa Rica	ALAJUELA/ Juan Santamaria Intl.	MROC	RS	Alajuela/ Juan Santamaria Intl.	MROC	Y	N	Y	T	Y	F
	LIBERIA/ Daniel Oduber Quiros	MRLB	RNS&AS	Alajuela/ Juan Santamaria Intl.	MROC	Y	N	N	T	Y	P
	LIMÓN/ Limon Intl.	MRLM	RG	Alajuela/ Juan Santamaria Intl.	MROC	Y	N	N	T	Y	P
	PAVAS/ Tobias Bolanos Intl	MRPV	RG	Alajuela/ Juan Santamaria Intl	MROC	Y	N	N	T	Y	P
Cuba	CAMAGUEY/Ignacio Agramonte Intl	MUCM	RS	Habana/ Jose Marti Intl	MUHA	Y	N	N	T	N	F

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1	2	3	4	5	6	7	8	9	10	11	12
	CAYO COCO/Jardines Del Rey Intl	MUCC	RS	Habana/ Jose Marti Intl	MUHA	Y	N	N	T	N	P
	CAYO LARGO DEL SUR/Vilo Acuna Intl	MUCL	RS	Habana/ Jose Marti Intl	MUHA	Y	N	N	T	N	F
	CIENFUEGOS/Jaime González	MUCF	RS								
	HABANA/Jose Marti	MUHA	RS	Habana/ Jose Marti Intl	MUHA	Y	N	N	T	N	F
	HOLGUIN/Frank Pais Intl	MUHG	RS	Habana/ Jose Marti Intl	MUHA	Y	N	N	T	N	F
	SANTIAGO DE CUBA/Antonio Maceo	MUCU	RS	Habana/ Jose Marti Intl	MUHA	Y	N	N	T	N	F
	MANZANILLO/Sierra Maestra	MUMZ	RS								
	SANTA CLARA/Abel Santamaría	MUSC	RS								
	VARADERO/Juan Gualberto Gomez	MUVR	RS	Habana/ Jose Marti Intl	MUHA	Y	N	N	T	N	F
Curacao (Kingdom of Netherlands)	WILLEMSTAD/ Hato, Curaçao I.	TNCC	RS	Willemstad/ Curacao Intl	TNCC	Y	N	N	T	Y	F
Dominica	MARIGOT/ Melville Hall Intl.	TDPD	RS	Bridgetown/ Grantley Adams, Barbados Intl.	TBPB	Y	N	Y	T	Y	F
	ROSEAU/Canefiled Intl.	TDPR	RS	Bridgetown/ Grantley Adams, Barbados Intl.	TBPB	N	N	N	N	N	N
Dominican Republic	BARAHONA/Arpto. Internacional Maria Montes	MDBH	RS	Santo Domingo/ Jose Francisco Peña Gomez	MDSD	Y	N	Y	T	Y	F
	LA ROMANA/ Casa de Campo Intl. Intl	MDLR	RS	Santo Domingo/ Jose Francisco Peña Gomez	MDSD	Y	N	N	T	Y	F
	PUERTO PLATA/Gregorio Luperon Intl	MDPP	RS	Santo Domingo/ Jose Francisco Peña Gomez	MDSD	Y	N	N	T	Y	F
	PUNTA CANA/Punta Cana Intl	MDPC	RS	Santo Domingo/ Jose Francisco Peña Gomez	MDSD	Y	N	N	T	Y	F
	SANTIAGO/Cibao Intl	MDST	RS	Santo Domingo/ Jose Francisco Peña Gomez	MDSD	Y	N	N	T	Y	F
	SANTO DOMINGO/ Jose Francisco Peña Gomez Intl	MDSD	RS	Santo Domingo/ Jose Francisco Peña Gomez	MDSD	Y	N	Y	T	Y	F
	SAMANA/El Catey Intl	MDCY	RS			N	N	N	N	N	N
	HIGUERO/Dr. Joaquin Balaguer Intl	MDJB	RS			N	N	N	N	N	N
Ecuador	GUAYAQUIL/ Jose Joaquin Olmedo	SEGU	RS	Guayaquil/ Jose Joaquin Olmedo	SEGU	Y	N	Y	T	Y	F
	LATACUNGA/Cotopaxi	SELT	RNS&AS	Quito/ Mariscal Sucre	SEQM	Y	N	N	T	Y	F
	MANTA/Eloy Alfaro	SEMT	RS	Quito/Mariscal Sucre	SEQM	Y	N	N	T	Y	F
	QUITO/Mariscal Sucre	SEQM	RS	Quito/Mariscal Sucre	SEQM	Y	N	Y	T	Y	F

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1	2	3	4	5	6	7	8	9	10	11	12
El Salvador	SAN SALVADOR/ Ilopango Intl	MSSS	RG	San Salvador/ El Salvador Intl	MSLP	Y	N	N	T	Y	P
	SAN SALVADOR/ Aeropuerto Intl. Monseñor Oscar Arnulfo Romero y Galdames	MSLP	RS	San Salvador/El Salvador Intl	MSLP	Y	N	N	T	Y	F
French Antilles (France)	FORT-DE-FRANCE/ Le Lamentin, Martinique	TFFF	RS	Martinique/ Aime Cesaire	TFFF	Y	N	Y	T	Y	F
	POINTE-À-PITRE/Le Raizet, Guadeloupe	TFFR	RS	Pointe-A-Pitre, Le Raizet	TFFR	Y	N	Y	T	Y	F
	SAINT BARTHELEMY/ Saint Barthelemy, Guadeloupe	TFFJ	RS	Pointe-A-Pitre, Le Raizet	TFFR	Y	N	N	N	N	N
	SAINT MARTIN/ Grand Case, Guadeloupe	TFFG	RS	Pointe-A-Pitre, Le Raizet	TFFR	Y	N	N	N	N	N
French Guiana (France)	CAYENNE/Rochambeau	SOCA	RS	Cayenne/ Felix Eboue	SOCA	Y	N	Y	T	Y	F
Grenada	LAURISTON, Carriacou I	TGPZ	RS	Saint Georges/ Maurice Bishop Intl	TGPY	N	N	N	N	N	N
	SAINT GEORGES/Maurice Bishop Intl.	TGPY	RS	Saint Georges/ Maurice Bishop Intl	TGPY	Y	N	Y	T	Y	F
Guatemala	GUATEMALA/La Aurora	MGGT	RS	Guatemala/ La Aurora	MGGT	Y	N	Y	T	Y	F
	PUERTO BARRIOS/Puerto Barrios	MGPB	RG&AS	Guatemala / La Aurora	MGGT	Y	N	F	T	Y	F
	SAN JOSE/ Puerto de San Jose	MGSJ	RG&AS	Guatemala/ La Aurora	MGGT	Y	N	F	T	Y	F
	SANTA HELENA/Mundo Maya Intl.	MGMM	RG&AS	Guatemala/ La Aurora	MGGT	N	N	N	N	N	N
Guyana	GEORGETOWN/ Cheddi Jagan Intl Airportogle	SYCJ	RS	Georgetown/ Cheddi Jagan Intl Airport	SYCJ	Y	N	Y	T	Y	F
	GEORGETOWN/~~Ogle~~ Eugene F. Correia International Airport	~~SYGO~~SYEC	RS	Georgetown/ Cheddi Jagan Intl Airport	SYCJ	Y	N	Y	T	Y	P
Haiti	CAP HAITEN/Cap Haiten Intl	MTCH	RS	Port-Au-Prince/Poirt-Au-Prince Intl.	MTPP	N	N	N	N	N	N
	PORT-AU-PRINCE/Poirt-Au-Prince Intl.	MTPP	RS	Port-Au-Prince/Poirt-Au-Prince Intl.	MTPP	Y	N	Y	T	Y	F
Honduras	LA CEIBA/Goloson Intl	MHLC	RS	Tegucigalpa/ Toncontin Intl	MHTG	Y	N	N	T	Y	P
	ROATAN/ Juan Manuel Galvez Intl	MHRO	RS	Tegucigalpa/ Toncontin Intl	MHTG	Y	N	N	T	Y	F
	SAN PEDRO SULA/ Ramón Villeda Morales Intl	MHLM	RS	Tegucigalpa/ Toncontin Intl	MHTG	Y	N	N	T	Y	F
	TEGUCIGALPA/ Toncontin Intl	MHTG	RS	Tegucigalpa/Toncontin Intl	MHTG	Y	N	Y	T	Y	F
Jamaica	KINGSTON/ Norman Manley Intl	MKJP	RS	Kingston/ Norman Manley Intl	MKJP	Y	N	N	T	Y	F
	MONTEGO BAY/ Sangster Intl	MKJS	RS	Kingston/ Norman Manley Intl	MKJP	Y	N	N	T	Y	F
	OCHO RIOS/ Ian Fleming Intl	MKBS	RG			N	N	N	N	N	N

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1	2	3	4	5	6	7	8	9	10	11	12
Mexico	ACAPULCO/ Gral. Juan N. Alvarez Intl	MMAA	RS	Mexico	MMMX	Y	N	N	T	Y	F
	AGUASCALIENTES/ Aeropuerto Jesús Terán	MMAS	RS	Mexico	MMMX	Y	N	N	T	Y	P
	BAHIAS DE HUATULCO/ Bahias De Huatulco	MMBT	RS	Mexico	MMMX	Y	N	N	T	Y	P
	CABO SAN LUCAS/Cabo San Lucas	MMSL	RNS	Mexico	MMMX	Y	N	N	T	Y	P
	CAMPECHE/ Ing. Alberto Acuña Ongay	MMCP	RG	Mexico	MMMX	Y	N	N	T	Y	P
	CANCUN/ Cancun Intl	MMUN	RS	Mexico	MMMX	Y	N	N	T	Y	F
	CIUDAD JUÁREZ/Abraham González Intl.	MMCS	RG &AS	Mexico	MMMX	Y	N	N	T	Y	P
	CHETUMAL/ Chetumal Intl	MMCM	RS	Mexico	MMMX	Y	N	N	T	Y	P
	CHICHÉN-ITZA/Chichén-Itza	MMCT	RS	Mexico	MMMX	Y	N	N	T	Y	P
	CIUDAD DEL CARMEN/Ciudad Del Carmen Intl	MMCE	RS	Mexico	MMMX	Y	N	N	T	Y	P
	CIUDAD OBREGÓN/Ciudad Obregón	MMCN	AS	Mexico	MMMX	Y	N	N	T	Y	P
	CIUDAD VICTORIA/ General Pedro José Mendez	MMCV	AS	Mexico	MMMX	Y	N	N	T	Y	P
	CHIHUAHUA/ General De Division y Piloto Aviador Roberto Fierro Villalobos Intl	MMCU	RS	Mexico	MMMX	Y	N	N	T	Y	P
	COZUMEL/ Cozumel Intl	MMCZ	RS	Mexico	MMMX	Y	N	N	T	Y	F
	CULIACAN/Culiacan	MMCL	RS	Mexico	MMMX	Y	N	N	T	Y	P
	DURANGO/Durango	MMDO	RS	Mexico	MMMX	Y	N	N	T	Y	P
	GUADALAJARA/Miguel Hidalgo Y Costilla	MMGL	RS	Mexico	MMMX	Y	N	N	T	Y	F
	GUAYMAS/Gral. Jose Maria Yáñez Intl	MMGM	RS	Mexico	MMMX	Y	N	N	T	Y	P
	HERMOSILLO/Aeropuerto Internacional General Ignacio Pesqueira García	MMHO	RS	Mexico	MMMX	Y	N	N	T	Y	P
	IXTAPA-ZIHUATANEJO/Ixtapa-Zihuatanejo	MMZH	RS	Mexico	MMMX	Y	N	N	T	Y	P
	LA PAZ/ Gral. Manuel Márquez De León Intl	MMLP	RS	Mexico	MMMX	Y	N	N	T	Y	P
	LEON/ Aeropuerto Internacional De Guanajuato	MMLO	RS	Mexico	MMMX	Y	N	N	T	Y	P
	LORETO/Loreto Intl	MMLT	RS	Mexico	MMMX	Y	N	N	T	Y	P

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State	Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					METAR/SPECI and TAF availability
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn	
1	2	3	4	5	6	7	8	9	10	11	12
	LOS MOCHIS/Del Valle Del Fuerte	MMLM	RS	Mexico	MMMX	Y	N	N	T	Y	P
	MANZANILLO/Playa De Oro Intl	MMZO	RS	Mexico	MMMX	Y	N	N	T	Y	P
	MATAMOROS/Matamoros Intl.	MMMA	RG&AS	Mexico	MMMX	Y	N	N	T	Y	P
	MAZATLAN/ Gral. Rafael Buelna Intl	MMMZ	RS	Mexico	MMMX	Y	N	N	T	Y	F
	MERIDA/ Lic. Manuel Crescencio Rejón Intl	MMMD	RS	Mexico	MMMX	Y	N	N	T	Y	F
	MEXICALI/ Gral. Rodolfo Sánchez Taboada Intl	MMML	RG	Mexico	MMMX	Y	N	N	T	Y	P
	MEXICO/ Aeropuerto Internacional Benito Juárez, Ciudad De México	MMMX	RS	Mexico	MMMX	Y	N	Y	T	Y	F
	MINATITLAN/ Minatitlan	MMMT	RS	Mexico	MMMX	Y	N	N	T	Y	P
	MONCLOVA/ Venustiano Carranza	MMMV	RS		MMMX	Y	N	N	T	Y	P
	MONTERREY/Del Norte Intl.	MMAN	RG&AS	Mexico	MMMX	Y	N	N	T	Y	P
	MONTERREY/ Gral. Mariano Escobedo Intl	MMMY	RS	Mexico	MMMX	Y	N	N	T	Y	F
	MORELIA/Gral. Francisco J. Mujica Intl	MMMM	RS	Mexico	MMMX	Y	N	N	T	Y	P
	NUEVO LAREDO/ Aeropuerto Internacional Quetzalcóatl	MMNL	RG	Mexico	MMMX	Y	N	N	T	Y	P
	OAXACA/Xoxocotlán	MMOX	RS	Mexico	MMMX	Y	N	N	T	Y	P
	PIEDRAS NEGRAS/Piedras Negras Intl	MMPG	RG	Mexico	MMMX	Y	N	N	T	Y	P
	PUEBLA/Hermanos Serdán	MMPB	RS	Mexico	MMMX	Y	N	N	T	Y	P
	PUERTO ESCONDIDO/Puerto Escondido	MMPS	AS	Mexico	MMMX	Y	N	N	T	Y	P
	PUERTO VALLARTA/Lic. Gustavo Diaz Ordaz Intl	MMPR	RS	Mexico	MMMX	Y	N	N	T	Y	F
	QUERETARO/Intercontinental De Querétaro	MMQT	RS	Mexico	MMMX	Y	N	N	T	Y	P
	Reynosa/Gral. Lucio Blanco Intl	MMRX	RG	Mexico	MMMX	Y	N	N	T	Y	P
	SALTILLO/Plan De Guadalupe	MMIO	RS	Mexico	MMMX	Y	N	N	T	Y	P
	SAN LUIS POTOSÍ/Ponciano Arriaga	MMSP	RS	Mexico	MMMX	Y	N	N	T	Y	P
	SAN JOSE DEL CABO/ Aeropuerto Intl Los Cabos	MMSD	RS	Mexico	MMMX	Y	N	N	T	Y	P
	TAMPICO/ Gral. Franciso Javier Mina Intl	MMTM	RS	Mexico	MMMX	Y	N	N	T	Y	P

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State	Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					METAR/SPECI and TAF availability
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn	
1	2	3	4	5	6	7	8	9	10	11	12
	TAPACHULA/ Tapachula Intl	MMTP	RS	Mexico	MMMX	Y	N	N	T	Y	P
	TIJUANA/Gral. Abelardo L. Rodriguez Intl	MMTJ	RS	Mexico	MMMX	Y	N	N	T	Y	F
	TOLUCA/Jose María Morelos y Pavón	MMTO	RNS	Mexico	MMMX	Y	N	N	T	Y	F
	TORREÓN/Francisco Sarabia	MMTC	RS	Mexico	MMMX	Y	N	N	T	Y	P
	TUXTLA GUTIERREZ/Angel Albino Corzo	MMTG	RS	Mexico	MMMX	Y	N	N	T	Y	P
	VERACRUZ/Gral. Heriberto Jara Intl	MMVR	RS	Mexico	MMMX	Y	N	N	T	Y	F
	VILLAHERMOSA/Capitán P.A. Carlos Rovirosa	MMVA	RS	Mexico	MMMX	Y	N	N	T	Y	P
	CIUDAD ACUÑA/Cuidad Acuña Intl.	MMMC	RG								
	CUERNAVACA/General Mariano Matamoros	MMCB	RS								
	NOGALES/Nogales Intl.	MMNG	RG								
	PALENQUE/Palenque	MMPQ	RS								
	PUERTO PEÑASCO/Aeropuerto del Mar de Cortes	MMPE	RS								
	SAN FELIPE/San Felipe Intl.	MMSF	RG								
	TEPIC/Tepic Intl	MMEP	RS								
	URUAPAN/General Ignacio López Rayón	MMPN	RS								
	ZACATECAS/Aeropuerto General Leobardo C. Ruiz Intl.	MMZC	RS	Mexico	MMMX	Y	N	N	T	Y	F
Monserrat (United Kingdom)	GERALD'S/John A. Osborne Intl	TRPG	RS	V. C. Bird, Antigua	TRPG	Y	N	N	T	Y	P
Netherlands	KRALENDIJK/Flamingo, Bonaire I.	TNCB	RS	De Bilt, The Netherlands	EHDB	Y	N	N	X	Y	P
	ORANJESTAD/F. D. Roosevelt, Saint Eustatius I.	TNCE	RS	De Bilt, The Netherlands	EHDB	N	N	N	N	N	N
	THE BOTTOM/Juancho E. Yrausquin, Saba	TNCS	RS	De Bilt, The Netherlands	EHDB	N	N	N	N	N	N
Nicaragua	MANAGUA/ Augusto Cesar Sandino Intl	MNMG	RS	Managua/ Augusto Cesar Sandino Intl	MNMG	Y	N	Y	T	Y	F
Panamá	BOCAS DEL TORO/ Bocas Del Toro	MPBO	RG&AS	Panama/ Tocumen Intl	MPTO	Y	N	N	T	Y	P
	PANAMA/Panamá Pacifico	MPPA	AS	Panama/ Tocumen Intl	MPTO	Y	N	Y	X	Y	P
	DAVID/ Enrique Malek	MPDA	RS	Panama/ Tocumen Intl	MPTO	Y	N	N	T	Y	P

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State	Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn	METAR/SPECI and TAF availability
1	2	3	4	5	6	7	8	9	10	11	12
	PANAMA/ Marcos A. Gelabert	MPMG	RNS&AS	Panama/ Tocumen Intl	MPTO	Y	N	Y	T	Y	P
	PANAMA/Cap. Scarlett Martínez	MPSM	AS	Panama/ Tocumen Intl	MPTO	Y	N	Y	X	Y	P
	PANAMA/Tocumen Intl	MPTO	RS	Panama/Tocumen Intl	MPTO	Y	N	Y	X	Y	F
Paraguay	LUQUE/ Silvio Pettirossi Intl	SGAS	RS	Luque/ Silvio Pettirossi Intl	SGAS	Y	N	N	T	Y	F
	MINGA GUAZÚ/ Guarani Intl	SGES	RS	Luque/ Silvio Pettirossi Intl	SGAS	Y	N	N	T	Y	F
Peru	AREQUIPA/ Intl. Alfredo Rodriguez Ballon	SPQU		Arequipa/ Intl. Alfredo Rodriguez Ballon	SPQU	Y	N	Y	T	Y	F
	CHICLAYO/ Intl. Capitan Jose Abelardo Quinones Gonzales, Gran General Del Aire Del Peru	SPHI	AS	Lima-Callao/ Intl. Jorge Chavez	SPJC	Y	N	Y	T	Y	F
	CUSCO/Intl. Teniente Fap Alejandro Velazco Astete	SPZO	AS	Cusco/Intl. Teniente Fap Alejandro Velazco Astete	SPZO	Y	N	Y	T	Y	F
	IQUITOS/Intl. Coronel Fap Francisco Secada Vignetta	SPQT	RS	Iquitos/Intl. Coronel Fap Francisco Secada Vignetta	SPQT	Y	N	Y	T	Y	F
	LIMA-CALLAO/Intl. Jorge Chavez	SPJC	RS	Lima-Callao/Intl. Jorge Chavez	SPJC	Y	N	N	T	Y	F
	PISCO/Intl. Pisco	SPSO	AS	Lima-Callao/Intl. Jorge Chavez	SPJC	Y	N	N	T	Y	F
	TACNA/Intl. Coronel Fap Carlos Ciriani Santa Rosa	SPTN	RG	Lima-Callao/Intl. Jorge Chavez	SPJC	Y	N	N	T	Y	F
	TRUJILLO/Intl. Capitan Carlos Martinez De Pinillos	SPRU	AS	Lima-Callao/Intl. Jorge Chavez	SPJC	Y	N	N	T	Y	F
Puerto Rico (United States)	AGUADILLA/Rafael Hernandez Intl.	TJBQ	RS	Washington (Nws National Met Center), Dc.	KWBC	Y	N	N	T	Y	P
	FAJARDO/Diego Jimenez Torres	TJFA	RS	Washington (Nws National Met Center), Dc.	KWBC	N	N	N	N	N	N
	PONCE/Ponce-Mercedita	TJPS	AS	Washington (Nws National Met Center), Dc.	KWBC	Y	N	Y	T	Y	F
	SAN JUAN/Luis Munoz Marin Intl	TJSJ	RS	Washington (Nws National Met Center), Dc.	KWBC	Y	N	Y	T	Y	F
	VIEQUES/Antonio Rivera	TJVQ	RS	Washington (Nws National Met Center), Dc.	KWBC	N	N	N	N	N	N
Saint Kitts and Nevis	BASSETERRE/Robert L. Bradshaw, Saint Kitts I.	TKPK	RS	Washington (Nws National Met Center), Dc.	KWBC	Y	N	N	T	Y	P
	CHARLESTOWN/Vance Winkworth Amory	TKPN	RS	Saint Johns/ V.C. Bird International Airport	TAPA	Y	N	N	T	Y	P
Saint Lucia	CASTRIES/George F. L. Charles	TLPC	RS	Vieux-Fort/Hewanorra Intl Vieux-Fort/Hewanorra Intl	TLPL	Y	N	N	T	Y	P
	VIEUX-FORt/Hewanorra Intl	TLPL	RS	Vieux-Fort/ Hewanorra Intl Vieux-Fort/ Hewanorra Intl	TLPL	Y	N	N	T	Y	F

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State	Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn	METAR/SPECI and TAF availability
1	2	3	4	5	6	7	8	9	10	11	12
Sint Maarten (Kingdom of Netherlands)	PHILIPSBURG/Princess Juliana, Sint Maarten I.	TNCM	RS	San Juan Weather Forecast Office	TSJS	Y	N	N	T	N	F
Saint Vincent and the Grenadines	CANOUAN/ Canouan	TVSC	RS			N	N	N	N	N	N
	KINGSTOWN/ E.T. Joshua	TVSV	RS	Bridgetown/ Grantley Adams, Barbados Intl.	TBPB	Y	N	N	T	Y	P
	BEQUIA/J.F. Mitchell	TVSB	RS			N	N	N	N	N	N
	MUSTIQUE/ Mustique	TVSM	RNS			N	N	N	N	N	N
	UNION ISLAND/ Union Island	TVSU	RS			N	N	N	N	N	N
Suriname	ZANDERY/ Johan Adolf Pengel Intl	SMJP	RS	Zandery/ Johan Adolf Pengel Intl	SMJP	Y	N	N	T	Y	F
	~~PARAMARIBO/Zorg En Hoop~~	~~SMZO~~	~~RG~~	~~Zandery/ Johan Adolf Pengel Intl~~	~~SMJP~~	~~Y~~	~~N~~	~~N~~	~~T~~	~~Y~~	~~P~~
Trinidad and Tobago	SCARBOROUGH/ Crown Point, Tobago I.	TTCP	RS	Port Of Spain/Piarco Intl., Trinidad I.	TTPP	Y	N	N	T	Y	F
	PORT OF SPAIN/Piarco Intl., Trinidad I.	TTPP	RS	Port Of Spain/Piarco Intl., Trinidad I.	TTPP	Y	N	N	T	Y	F
Turks and Caicos Islands (United Kingdom)	GRAND TURK/Grand Turk Intl	MBGT	RS	Lynden Pindling International	MYNN	Y	N	N	T	Y	P
	PROVIDENCIALES/ Providenciales Intl	MBPV	RS	Lynden Pindling International	MYNN	Y	N	N	T	Y	P
	SOUTH CAICOS/South Caicos Intl	MBSC	RS	Lynden Pindling International	MYNN	Y	N	N	T	Y	P
Uruguay	MALDONADO/ Intl C/C Carlos A. Curbelo "Laguna Del Sauce"	SULS	RS	Montevideo/Intl De Carrasco "Gral. Cesareo L. Berisso"	SUMU	Y	N	N	T	Y	F
	MONTEVIDEO/ Intl De Carrasco "Gral. Cesareo L. Berisso"	SUMU	RS	Montevideo/ Intl De Carrasco "Gral. Cesareo L. Berisso"	SUMU	Y	N	Y	T	Y	F
Venezuela	BARCELONA/ Gral. José Antonio Anzoategui Intl	SVBC	RNS	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI	Y	N	N	T	Y	F
	MAIQUETÍA/Simón Bolívar Intl	SVMI	RS	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI	Y	N	Y	T	Y	F
	MARACAIBO/ La Chinita Intl	SVMC	RS	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI	Y	N	N	T	Y	F
	MARGARITA/ Intl Del Caribe Gral. Santiago Marino	SVMG	RS	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI	Y	N	N	T	Y	F
	PARAGUANA/ Josefa Camejo Intl	SVJC	RS	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI	Y	N	N	T	Y	P
	SAN ANTONIO DEL TACHIRA/Gral. Juan Vicente Gómez Intl	SVSA	RG	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI	Y	N	N	T	Y	P
	BARQUISIMETO/Gral. Jacinto Lara Intl	SVBM	RS	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI	Y	N	N	T	Y	F
	PUERTO ORDAZ/Gral. Manual Carlos Piar Intl	SVPR	RS	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI						

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State	Aerodrome where meteorological service is to be provided			Responsible aerodrome meteorological office		Observations and forecasts to be provided					METAR/SPECI and TAF availability
	Name	ICAO Location Indicator	Use	Name	ICAO Location Indicator	METAR/SPECI	State of the runway	Trend forecast	TAF	Temperature Tx/Tn	
1	2	3	4	5	6	7	8	9	10	11	12
	SANTO DOMINGO DEL TACHIRA/May. Buenaventura Vivas Intl.	SVSO	RG	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI	Y	N	N	T	Y	F
	CARACAS/Oscar Machado Zuloaga Intl.	SVCS	RG	Caracas/ Simon Bolivar Intl Maiquetia,	SVMI						
	VALENCIA/ Arturo Michelena Intl	SVVA	RS	Valencia, Carabobo	SVVA	Y	N	N	T	Y	P
Virgin Islands (United Kingdom)	ROADTOWN/Beef Island	TUPJ	RS	V. C. Bird, Antigua	TJSJ	Y	N	N	T	Y	P
	VIRGIN GORDA I./ Virgin Gorda	TUPW	RS	V. C. Bird, Antigua	TJSJ	N	N	N	N	Y	N
Virgin Islands (United States)	SAINT THOMAS/ Cyril E. King	TIST	RS	Washington (Nws National Met Center), Dc.	KWBC	Y	N	N	T	Y	F
	CHRISTIANSTED/ Henry E. Rohlsen, St. Croix	TISX	RS	Washington (Nws National Met Center), Dc.	KWBC	Y	N	N	T	Y	F

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TABLE MET II-3 – VOLMET BROADCASTS

EXPLANATION OF THE TABLE

The transmitting station appears at the top of each block.

Names in lower case letters indicate aerodromes for which reports (routine or selected special) are required.

Names in upper-case letters indicate aerodromes for which forecasts are required.

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TABLE MET II-3 – VOLMET BROADCASTS

Note: To be completed

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CAR/SAM ANP, VOLUME II

PART VI - SEARCH AND RESCUE (SAR)

1. INTRODUCTION

1.1 This part of the Caribbean and South American ANP, Volume II, complements the provisions in ICAO SARPs and PANS related to search and rescue (SAR). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of SAR facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to the SAR facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

2.1 The Rescue Coordination Centres (RCCs) and Rescue Sub-centres (RSCs) for the Caribbean and South American Regions are listed in Table SAR II-1 and depicted in Chart SAR I-1.

2.2 In cases where the minimum SAR facilities are temporarily unavailable, alternative suitable means should be made available.

2.3 In cases where a SAR alert is proximate to a search and rescue region (SRR) boundary (e.g. 50 NM or less), or it is unclear if the alert corresponds to a position entirely contained within an SRR, the adjacent RCC or RSC should be notified of the alert immediately.

3. SPECIFIC REGIONAL REQUIREMENTS

None

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TABLE SAR II-1 - SEARCH AND RESCUE FACILITIES IN THE CARIBBEAN AND SOUTH AMERICAN REGIONS

EXPLANATION OF THE TABLE

Column

1	State
2	Name of the Rescue Coordination Centre (RCC) and Rescue Sub-centre (RSC).
3	SAR points of contact (SPOC). Name of the SPOC.
4	Remarks. Supplementary information such as the type of RCC (e.g. maritime or aviation or joint).

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TABLE SAR II-1 - SEARCH AND RESCUE FACILITIES IN THE *CARIBBEAN AND SOUTH AMERICAN* REGIONS

State	Name of and RCC/RSC	SPOC	Remarks
1	2	3	4
ANTIGUA AND BARBUDA	ANTIGUA SRC	Piarco RCC (Trinidad and Tobago)	
ARGENTINA	COMODORO RIVADAVIA RCC Base Marambio Comodoro Rivadavia Río Gallegos CORDOBA RCC Córdoba Salta EZEIZA RCC San Carlos de Bariloche MENDOZA RCC Mendoza RESISTENCIA RCC Resistencia	 ARMCC Buenos Aires	PRU PRU MRU PRU MRU MCC PRU MRU MRU PRU
ARUBA (Kingdom of Netherlands)	Aruba RSC	Curacao RCC	
BAHAMAS	Nassau RSC	Miami RCC	
BARBADOS	Bridgetown RSC	Piarco RCC (Trinidad and Tobago)	
BELIZE	Belize RSC	Central American RCC (Tegucigalpa, Honduras – COCESNA)	
BERMUDA	New York Oceanic West RCC	New York Oceanic West RCC	
BOLIVIA	LA PAZ RCC El Alto RSC Cochabamba RSC Santa Cruz RSC Beni RSC Pando RSC Tarija RSC	ACC - LA PAZ El Alto	 MRU PRU
BRAZSIL	AMAZONICO ARCC Belem Manaus Porto Velho ATLANTICO ARCC BRAZILIA ARCC CURITIBA ARCC Campo Grande Florianópolis Rio Grande Santa María Rio de Janeiro RECIFE ARCC Natal Salvador	 BRMCC - Brazilia Brazilia	 MCC PRU Aircraft and marine craft will be made available at Amazonico ARCC; Brazilia ARCC; Curitiba ARCC; Recife ARCC, as required
	IQUIQUE RCC Iquique		

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Commented [FHH9]: Due letter DGAC 1497/2017, and Mr Cusi, head of ATM/SAR email 17/5/17, Bolivia request to add for sub centres 'RSC' in row 2, and to fill ACC LA PAZ in row 3.

Commented [FHH10]: Via messages MSJ N° 008/CERNAI/2016 y MSJ N° 133/CERNAI/6526, Brazil request the use in this table of the names Brazil and Brazilia, in english.

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State	Name of and RCC/RSC	SPOC	Remarks
1	2	3	4
CHILE	ANTOFAGASTA RCC PUERTO MONTT RCC Puerto Mont PUNTA ARENAS RCC Punta Arenas Tte Marsh SANTIAGO RCC Santiago ISLA DE PASCUA RCC Isla de APscua	 CHMCC Santiago	
COLOMBIA	BOGOTA RCC BOG - Bogotá BAQ- Barranquilla SPP- San Andrés Isla RNG- Rionegro PQE- Puerto Salgar GBT- Cali MEL- Melgar EYP- Yopal APY- Villavicencio MDU- Marandúa TQS- Tres Esquinas LET- Leticia CAR- Cartagena PAC- Bahía Málaga	BOGOTA RCC	
CURACAO (Kingdom of Netherlands)	Curacao RCC	Curacao RCC	
CUBA	Habana RCC	Habana RCC	
DOMINICAN REPUBLIC	Santo Domingo RCC	SANTO DOMINGO RCC	
ECUADOR	GUAYAQUIL RCC Guayaquil Quito	GUAYAQUIL	
FRENCH ANTILLES (FRANCE)	Fort-de-France RSC / Pointe-a-Pitre RSC	Piarco RCC (Trinidad and Tobago)	
FRENCH GUIANA	CAYENNE RCC Cayenne Saint Laurene de Maroni	CAYENNE	
GRENADA	Pointe Salines SRC	Piarco RCC (Trinidad and Tobago)	
GUATEMALA	Guatemala RSC	Central American RCC (Tegucigalpa, Honduras – COCESNA)	
GUYANA	GEORGETOWN RCC Georgetown		
HAITI	Port-Au-Prince RCC	Port-Au-Prince RCC	
HONDURAS	Tegucigalpa RSC	Central American RCC (Tegucigalpa, Honduras – COCESNA)	
JAMAICA	Kingston RCC	Kingston RCC	
MEXICO	Mexico RCC	Mexico RCC	
NICARAGUA	Managua RSC	Central American RCC (Tegucigalpa, Honduras – COCESNA)	
PANAMA	PANAMA RCC Panama DAVID RSC Enrique Malek	PANAMA	 MRU MRU

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State	Name of and RCC/RSC	SPOC	Remarks
1	2	3	4
PARAGUAY	ASUNCION RCC	PARASPOC	
PERU	LIMA RCC Lima Piura Callao Arequipa Juanjui Iquitos	LIMA	MCC
PUERTO RICO	San Juan RSC	Miami RCC	
SAINT KITTS AND NEVIS	Antigua RSC	Piarco RCC (Trinidad and Tobago)	
SAINT LUCIA	Fort-De-France RSC	Piarco RCC (Trinidad and Tobago)	
SINT MAARTEN (Kingdom of Netherlands)	San Juan RSC	Miami RCC	
SAINT VINCENT AND THE GRENADINES	Saint Vincent And The Grenadines SRC	Piarco RCC (Trinidad and Tobago)	
SURINAME	CAYENNE RCC Zandery RSC	CAYENNE	
TRINIDAD AND TOBAGO	Piarco RCC	Piarco RCC	
UNITED STATES	Miami RCC	Miami RCC	
URUGUAY	CARRASCO RCC Carrasco	CARRASCO	
VENEZUELA	MAIQUETIA RCC Maiquetia Vargas MARCAIBO RSC Maracaibo Zulia CIUDAD BOLIVAR RSC Bolivar BARCELONA RSC Barcelona PUERTO AYACUCHO RSC Puerto Ayacucho BARQUISIMETO RSC Barquisimeto	MAIQUETIA	 MRU MRU MRU MRU MRU
VIRGIN ISLANDS (UNITED KINGDOM)	San Juan RSC	Miami RCC	

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CAR/SAM ANP, VOLUME II

PART VII - AERONAUTICAL INFORMATION MANAGEMENT (AIM)

1. INTRODUCTION

1.1 This part of the Caribbean and South American ANP, Volume II, complements the provisions in ICAO SARP's and PANS related to AIS/AIM and aeronautical charts (MAP). It contains dynamic plan elements related to the assignment of responsibilities to States for the provision of AIS/AIM facilities and services within a specified area in accordance with Article 28 of the *Convention on International Civil Aviation* (Doc 7300); and mandatory requirements related to the AIS/AIM facilities and services to be implemented by States in accordance with regional air navigation agreements. Such agreement indicates a commitment on the part of the State(s) concerned to implement the requirement(s) specified.

2. GENERAL REGIONAL REQUIREMENTS

2.1 The responsibility for the provision of AIS/AIM facilities and services in the Caribbean and South American Regions, is reflected in the Caribbean and South American Table AIM II-1, which shows the list of designated international NOTAM Office (NOF), designated State for AIP production, designated State for aeronautical charts (MAP) production, designated State for the provision of the authoritative Integrated Aeronautical Information Database (IAID) and designated State for the provision of the pre-flight information services.

2.2 States should designate and implement an authoritative Integrated Aeronautical Information Database (IAID) where data sets are integrated and used to produce current and future AIS/AIM products and services, which is a fundamental step in the transition to AIM. The designation of authoritative databases should be clearly stated in the electronic Integrated Aeronautical Information Package eIAIP.

2.3 The national plans for the transition from AIS to AIM identifying clearly the timelines for the implementation of the different elements of the ICAO Roadmap for the transition from AIS to AIM should be submitted by States to the ICAO NACC and SAM Regional Offices. States should also inform the ICAO NACC and SAM Regional Offices of any update.

2.4 States should take necessary measures to ensure that aeronautical information and data they provide meet the ISO-9001 regulatory Aeronautical Data quality requirements.

2.5 The Quality Management System (QMS) in AIS/AIM should define procedures and processes to meet the safety objectives associated with the management of aeronautical data and information.

2.6 Recognizing the need to maintain or enhance existing safety levels of operations, States should ensure that any change to the existing software systems or the introduction of new software systems used for processing aeronautical data and/or information are preceded by a safety assessment.

2.7 Technical Air Navigation services responsible for origination of the raw aeronautical information should be acquainted with the requirements for promulgation and advance notification of changes that are operationally significant as established in Annexes 11, 4 and 14, 15 and other relevant ICAO documentation. They should take due account of the time needed by AIS/AIM for the preparation, production and issue of the relevant material, including the compliance with the AIRAC system.

2.8 AIS/AIM personnel should be involved in the air navigation planning processes. This should ensure the timely preparation of appropriate AIS/AIM documentation and that the effective dates for changes to the air navigation system and procedures are satisfied.

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2.9 States should produce relevant aeronautical charts required for civil air operations employing visual air navigation independently or in support of other forms of air navigation. The production responsibility for electronic sheets of the World Aeronautical Chart (WAC) — ICAO 1: 1 000 000 or Aeronautical Chart — ICAO 1: 500 000 (as an alternative to the World Aeronautical Chart — ICAO 1:1 000 000) is set out in Table AIM II-2.

3. SPECIFIC REGIONAL REQUIREMENTS

None

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TABLE AIM II-1 - RESPONSIBILITY FOR THE PROVISION OF AIS/AIM FACILITIES AND SERVICES

EXPLANATION OF THE TABLE

Column:

1	Name of the State or territory
2	Designated international NOTAM Office (NOF)
3	Designated State for eAIP production
4	Designated State for electronic aeronautical charts (eMAP) production
5	Designated State for the provision of the authoritative Integrated Aeronautical Information Database (IAID)
6	Designated State for the provision of pre-flight information services
7	Remarks — additional information, as appropriate.

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TABLE AIM II-1 - RESPONSIBILITY FOR THE PROVISION OF AIS/AIM FACILITIES AND SERVICES

State	NOF	AIP	MAP	IAID	Pre-flight briefing	Remarks
1	2	3	4	5	6	7
Anguilla (United Kingdom)	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Anguilla (United Kingdom)	For columns 3, 4 and 5 under agreement with Trinidad and Tobago
Antigua and Barbuda	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Antigua and Barbuda	For columns 3, 4 and 5 under agreement with Trinidad and Tobago
Argentina	Buenos Aires	Argentina	Argentina	Argentina	Argentina	
Aruba (Kingdom of Netherlands)	Curaçao (Kingdom of Netherlands)	Aruba (Kingdom of Netherlands)	Aruba (Kingdom of Netherlands)	Aruba (Kingdom of Netherlands)	Aruba (Kingdom of Netherlands)	
Bahamas	Nassau	Bahamas	Bahamas	Bahamas	Bahamas	For columns 3, 4 and 5 under contract with JEPPESEN
Barbados	Port of Spain	Barbados	Barbados	Barbados	Barbados	
Belize	Tegucigalpa	Belize	Belize	Belize	Belize	For columns 3, 4 and 5 under agreement with COCESNA
Bermuda (United Kingdom)	Bermuda	Bermuda	Bermuda	Bermuda	Bermuda	For columns 3, 4 and 5 under contract with JEPPESEN
Bolivia	La Paz	Bolivia	Bolivia	Bolivia	Bolivia	
Brazil	Rio de Janeiro	Brazil	Brazil	Brazil	Brazil	
Cayman Islands (United Kingdom)	Kingston	United Kingdom	United Kingdom	United Kingdom	Cayman Islands (United Kingdom)	
Chile	Santiago	Chile	Chile	Chile	Chile	
Colombia	Bogota	Colombia	Colombia	Colombia	Colombia	
Costa Rica	Tegucigalpa	Costa Rica	Costa Rica	Costa Rica	Costa Rica	
Curacao(Kingdom of Netherlands)	Curacao (Kingdom of Netherlands)	Curacao (Kingdom of Netherlands)	Curacao (Kingdom of Netherlands)	Curacao (Kingdom of Netherlands)	Curacao (Kingdom of Netherlands)	
Cuba	La Habana	Cuba	Cuba	Cuba	Cuba	
Dominica	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Dominica	For columns 3, 4 and 5 under agreement with Trinidad and Tobago

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State	NOF	AIP	MAP	IAID	Pre-flight briefing	Remarks
1	2	3	4	5	6	7
Dominican Republic	Santo Domingo	Dominican Republic	Dominican Republic	Dominican Republic	Dominican Republic	
Ecuador	Guayaquil	Ecuador	Ecuador	Ecuador	Ecuador	
El Salvador	Tegucigalpa	El Salvador	El Salvador	El Salvador	El Salvador	For columns 3, 4 and 5 under agreement with COCESNA
French Antilles (France)	Port of Spain	French Antilles (France)	French Antilles (France)	French Antilles (France)	French Antilles (France)	
French Guiana	Cayenne	French Guiana	French Guiana	French Guiana	French Guiana	
Grenada	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Grenada	For columns 3, 4 and 5 under agreement with Trinidad and Tobago
Guatemala	Tegucigalpa	Guatemala	Guatemala	Guatemala	Guatemala	
Guyana	Georgetown	Guyana	Guyana	Guyana	Guyana	
Haiti	Port au Prince	Haiti	Haiti	Haiti	Haiti	
Honduras	Tegucigalpa	Honduras	Honduras	Honduras	Honduras	For columns 3, 4 and 5 under agreement with COCESNA
Jamaica	Kingston	Jamaica	Jamaica	Jamaica	Jamaica	
Mexico	Mexico	Mexico	Mexico	Mexico	Mexico	
Montserrat (United Kingdom)	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Montserrat	For columns 3, 4 and 5 under agreement with Trinidad and Tobago
(Bonaire, St Eustatius and Saba)	Curaçao	Curaçao	Curaçao	Curaçao	Netherlands (Bonaire, St Eustatius and Saba)	For columns 3, 4 and 5 under contract with Curacao (Kingdom of Netherlands)
Nicaragua	Tegucigalpa	Nicaragua	Nicaragua	Nicaragua	Nicaragua	
Panama	Tocumen	Panama	Panama	Panama	Panama	
Paraguay	Asuncion	Paraguay	Paraguay	Paraguay	Paraguay	
Peru	Lima	Peru	Peru	Peru	Peru	
Puerto Rico (United States)	Washington (United States)	Puerto Rico (United States)	Puerto Rico (United States)	Puerto Rico (United States)	Puerto Rico (United States)	

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State	NOF	AIP	MAP	IAID	Pre-flight briefing	Remarks
1	2	3	4	5	6	7
Saint Kitts and Nevis	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Saint Kitts and Nevis	For columns 3, 4 and 5 under agreement with Trinidad and Tobago
Saint Lucia	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Saint Lucia	For columns 3, 4 and 5 under agreement with Trinidad and Tobago
Saint Vincent and the Granadines	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Saint Vincent and the Granadines	For columns 3, 4 and 5 under agreement with Trinidad and Tobago
Sint Maarten (Kingdom of Netherlands)	Curacao (Kingdom of Netherlands)	Curaçao (Kingdom of Netherlands)	Curaçao (Kingdom of Netherlands)	Curaçao (Kingdom of Netherlands)	Sint Maarten (Kingdom of Netherlands)	For columns 3, 4 and 5 under contract with Curacao
Suriname	Paramaribo	Suriname	Suriname	Suriname	Suriname	
Trinidad and Tobago	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	
Turks and Caicos Islands (United Kingdom)	Miami (United States)	Turks and Caicos Islands (United Kingdom)	Turks and Caicos Islands (United Kingdom)	Turks and Caicos Islands (United Kingdom)	Turks and Caicos Islands (United Kingdom)	
Uruguay	Montevideo	Uruguay	Uruguay	Uruguay	Uruguay	
Venezuela	Maiquetia	Venezuela	Venezuela	Venezuela	Venezuela	
Virgin Islands (United Kingdom)	Port of Spain	Trinidad and Tobago	Trinidad and Tobago	Trinidad and Tobago	Virgin Islands (United Kingdom)	
Virgin Islands (United States)	Washington (United States)	Virgin Islands (United States)	Virgin Islands (United States)	Virgin Islands (United States)	Virgin Islands (United States)	

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TABLE AIM II-2 - PRODUCTION RESPONSIBILITY FOR SHEETS OF THE WORLD AERONAUTICAL CHART - ICAO 1:1000000 OR AERONAUTICAL CHART — ICAO 1:500000

EXPLANATION OF THE TABLE

Column:

1 Name of the State accepting production responsibility.

2 World Aeronautical Chart — ICAO 1:1 000 000/Aeronautical Chart — 1: 500 000 sheet number(s) for which production responsibility is accepted.

3 Remarks.

Note — In those instances where the production responsibility for certain sheets has been accepted by more than one State, these States by mutual agreement should define limits of responsibility for those sheets. This should be reflected in the Remarks column

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TABLE AIM II-2 - PRODUCTION RESPONSIBILITY FOR SHEETS OF THE WORLD AERONAUTICAL CHART - ICAO 1:1 000 000 OR AERONAUTICAL CHART — ICAO 1: 500 000

State	Sheet number(s)	Remarks
1	2	3
Anguilla (United Kingdom)	2649*	
Antigua and Barbuda	2649*	
Argentina	3259, 3260, 3314, 3315, 3316, 3381, 3382, 3383, 3434, 3435, 3436, 3490, 3491, 3492, 3537, 3538, 3585, 3625, 3627, 3668, 3672, 3699, 3737, 3738, 3762, 3789	
Aruba (Kingdom of Netherlands)	2707*	
Bahamas	2526, 2585*	
Barbados	2705*	
Belize	2645*	
Bermuda (United Kingdom)	2412*	
Bolivia	3193	
Brazil	2825*, 2826, 2827*, 2892, 2893, 2894, 2895, ~~2943~~, 2944, 2945, 2946, 2947, 2948, 2949, 3012* 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3066, 3067, 3068, 3069, 3070, 3071, 3072*, 3137, 3138, 3139, 3140, 3141, 3189, 3190, 3191, 3192, 3260*,3261, 3262, 3263, ~~3265~~, 3313, 3314*, 3383*, 3384, , 3434*.	Continental territory and territorial waters covered by Charts 1:500.000 and 1:250.000.
Cayman Islands (United Kingdom)	2646	
Chile	3194, 3258, 3317, 3381, 3436, 3437, 3490, 3538, 3585, 3627, 3668, 3737, 3762, 3789	
Colombia	2769, 2770, 2828, 2829, 2890, 2891*	
Costa Rica	2768*	
Cuba	2587*, 2586, 2585*	
Curacao	2707	
Dominica	2705	
Dominican Republic	2648*	
Ecuador	2888, 2890*, 2951, 2953	
El Salvador	2710*	
French Antilles (France)	2705	
French Guiana	2825	Chart at 1: 740 000 covering French Guiana is published.
Grenada	2772	
Guatemala	2644*, 2645*, 2710	
Guiana	No information available	
Haiti	2647, 2648*	
Honduras	2710*, 2709*, 2645*	
Jamaica	2647*	
Mexico	2404*, 2472, 2471*, 2470*, 2469*, 2519, 2520, 2521, 2522*, 2591, 2589, 2588, 2587*, 2641, 2642, 2643, 2644*, 2645*, 2711	Mexico does not comply with the designation numbers and area covered by each WAC 1:1000000
Montserrat (United Kingdom)	2649*	
Netherlands (Bonaire, St Eustatius and Saba)	2649*, 2707*	
Nicaragua	2710*, 2709*, 2768*	

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State 1	Sheet number(s) 2	Remarks 3
Panama	2769, 2830	Covered by Aeronautical Chart - ICAO 1:500 000, to cover its own continental territory and territorial waters.
Paraguay	3260, 3314	
Peru	2950*, 3011*, 3012, 3072, 3073*, 3135*, 3136*, 3194*	
Puerto Rico (United States)	2649*	
Saint Kitts and Nevis	2649*	
Saint Lucia	2705*	
Saint Vincent and the Grenadines	2705*	
Sint Maarten	2649*	
Suriname		
Trinidad and Tobago	2772*	
Turks and Caicos Islands (United Kingdom)	2585*	
Uruguay	3434*	
Venezuela	2707, 2770, 2771, 2772, 2827, 2828*	
Virgin Islands (United Kingdom)	2649*	
Virgin Islands (United States)	2649*	

** Only to cover its own territory*

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