



International Civil Aviation Organization

CAR/SAM Regional Planning and Implementation Group (GREPECAS)

**Tenth Meeting of the GREPECAS Aeronautical Information Services Subgroup (AIS/MAP/SG/10)**

Caracas, Venezuela, 26 February - 02 March 2007

AIS/MAP/SG/10-WP/03

25/01/07

**Agenda Item 4:**

**Review of Implementation Aspects**

**4.2 Inventory of the CAR/SAM States Action Plans received by the NACC and SAM Regional Offices and review of the actions adopted by the States concerning the solution of the existing deficiencies in the AIS/MAP fields; and assessment of the implications of the “U” deficiencies and their possible re-priorization**

**RECLASSIFICATION OF “U” DEFICIENCIES**

(Presented by the Secretariat)

**SUMMARY**

This working paper evaluates the problems with the implementation of AIS/MAP requirements in the CAR/SAM Regions, as well as the need for an assessment on the implications of the “U” deficiencies and their possible re-priorization.

**References:**

- AIS/MAP/SG/9 Meeting (Santo Domingo, Dominican Republic, 13 - 17 June 2005).
- Report on the GREPECAS/13 Meeting (Santiago, Chile, 14 - 18 November 2005).

**1. Introduction**

1.1 Taking into consideration that both, the ICAO Regional Office concerned, and the CAR/SAM Regional Planning and Implementation Group, GREPECAS, have the responsibility to periodically examine the deficiencies in the air navigation field, not only regarding their level of compliance and implementation by the States concerned and the application of the corresponding action plans, but also concerning the assessment of the category assigned to those deficiencies, in order to determine at any time if the categories assigned correspond to the direct implications of each deficiency in relation to the safety of air operations. Within the responsibilities of each ICAO Regional Office, together with GREPECAS, to assess the existing deficiencies, there is a particular task that is to periodically examine and recommend the pertinent actions for the solution of urgent deficiencies “(U)” in the CAR/SAM Regions.

## 2. Discussion

2.1 It is important that the Meeting notes that the updated list of deficiencies in the air navigation field is periodically circulated among States, and many of such deficiencies have persisted for several years, becoming a potential threat to operational safety, despite the efforts being carried out by the Regional Offices concerned, and mainly the insistence of requiring CAR/SAM States the periodic presentation and update of the corresponding action plans for the solution of the deficiencies.

2.2 Although WP/12 deals with the whole set of deficiencies, Urgent “U”, deficiencies of high priority “A”, as well as deficiencies of medium priority “B” affecting regularity and efficiency of the air navigation, many of the deficiencies considered Urgent “U”, although having a particular and special treatment by the GREPECAS ASB Group, are still outstanding several years ago.

2.3 Based on paragraph 2.2 above, it is worth to mention the need that the AIS/MAP Subgroup could make a detailed assessment regarding the current classification of AIS/MAP deficiencies considered as Urgent “U”, since several of them have maintained outstanding for a long period of time. Likewise, and considering that the need to establish a better identification and solution of the deficiencies in the air navigation field is an important element within the ICAO Global Aviation Safety Plan (GASP), approved by Resolution A33-16 of the Assembly, it could then be possible that the AIS/MAP Subgroup reviews the current classification of this type of deficiencies, in order to determine if it is worth maintaining the current classification of AIS/MAP Urgent “U” deficiencies or, in any event, to determine which ones should change the current classification “U” into a new classification “A” and/or “B”, as necessary.

2.4 In addition to the above, it is important to mention that currently and under classification “U” are, among others, the requirements such as the lack of updating of the AIP, high priority for AIS publications, distribution of NOTAM information, production of aerodrome obstacle chart-ICAO Type A, production of VFR Charts 1:1000,000, the implementation of AIS quality systems, integrity in aeronautical data, implementation of WGS-84 system and the production of aerodrome/heliport plans under the WGS-84 system. In this regard, it should be considered if these requirements could actually be under the classification of “U” deficiencies, and/or if they should be changed to classification “A and/or “B”.

## 3. Proposal

3.1 Regarding the above paragraphs about the possible re-classification of the current deficiencies in the air navigation field, classified as Urgent “U” and presented in the **Appendix** to this working paper, the Meeting is proposed to make the corresponding study.

## 4. Suggested Action

4.1 After the analysis of this working paper and its Appendix A, the Meeting is invited to decide whether a re-classification of AIS/MAP deficiencies currently classified as Urgent “U” is required.

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# OUTSTANDING DEFICIENCIES (U)

## REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE CAR REGION

Identification		Deficiencies			Corrective Action				
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
<b>AIS Aruba</b>									
AIS 29 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Aruba	Implementation of the WGS-84 is on going	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System	State	30/11/05	U
AIS 96 C	Doc. 8733 Basic ANP, Part VIII, Paras. 9 to 12	Aruba	Lack of highest priority for printing of AIS publications.	18/09/96	Records/files NACC RO; GREPECAS reports	Need to provide a higher priority for the printing of AIS publications	State	TBD	U
<b>AIS Bahamas</b>									
AIS 7 C	Annex 15, Chap. 4, Para. 4.2.9; Doc. 8733, Basic ANP, Part VIII, Paras 33 to 37	Bahamas	Lack of regular and effective updating of the AIP Document	24/10/00	GREPECAS AIS/MAP Subgroup	Need to keep updated the information/data contained in the AIP	State	TBD	U
AIS 17 C	Annex 15, Chapter 3, Paras. 3.1.5 and 3.1.6; Chapter 5, Paras. 5.1.1.1 and Sec. 5.3	Bahamas	Timely distribution of the information through NOTAM	25/10/00	GREPECAS AIS/MAP Subgroup	Need to disseminate on time all operational information through NOTAM	State	TBD	U
AIS 30 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Bahamas	Implementation of the WGS-84 is on going	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System	State	30/11/05	U
AIS 97 C	Doc. 8733 Basic ANP, Part VIII, Paras. 9 to 12	Bahamas	Lack of highest priority for printing of AIS publications.	18/09/96	Records/files NACC RO; GREPECAS reports	Need to provide a higher priority for the printing of AIS publications	State	TBD	U
<b>AIS Belize/Belice</b>									
AIS 31 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Belize	Lack of implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System	State	30/11/06	U
AIS 273 C	Doc. 8733 Basic ANP, Part VIII, Paras. 9 to 12	Belize	Lack of highest priority for printing of AIS publications.	27/04/01	Records/files in NACC R0; ICAO visit April 2001	Need to provide a higher priority for the printing of AIS publications	State	TBD	U
<b>AIS British Virgin Islands/Islas Vírgenes Británicas</b>									
AIS 216 C	Annex 4 Chap. 3; Doc. 8733 Basic ANP, Part VIII, Paras. 59 a) and 64 1); FASID Table AIS 6	British Virgin Islands	Partial application of ICAO requirements for the production of Aerodrome obstacle chart-ICAO Type A.	06/01/94	Records/files in NACC RO; GREPECAS and AIS/MAP/SG reports.	Need for effective production of aeronautical charts of this series according to the ICAO specifications.	State	TBD	U
<b>AIS CAR/SAM</b>									
AIS 309 C	Complete WGS-84 implementation	This problem exists in the CAR/SAM Regions	Lack of completion o the WGS-84 system implementation	1998	GREPECAS AIS/MAP/SG	Need to implement the WGS-84 Geodetic System	States	TBD	U

# OUTSTANDING DEFICIENCIES (U)

AIS/MAP/SG/10  
WP/03  
APPENDIX

## REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE CAR REGION

Identification		Deficiencies			Corrective Action				
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
AIS 308 C	Effective and regular updating of the AIS/MAP Integrated Aeronautical Information Package	This problem exists in the CAR/SAM Regions	Deficiencies in updating aeronautical information/data	2000	GREPECAS AIS/MAP/SG	Follow-up through meetings and letters to States. Implementation of AIS Quality System	States	In course	U
<b>AIS Costa Rica</b>									
AIS 33 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Costa Rica	Partial implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System	State	30/11/06	U
<b>AIS Cuba</b>									
AIS 205 C	Annex 4 Chap. 3; Doc. 8733 Basic ANP, Part VIII, Paras. 59 a) and 64 1); FASID Table AIS 6	Cuba	Partial application of ICAO requirements for the production of Aerodrome obstacle chart-ICAO Type A.	06/01/94	Records/files in NACC RO; GREPECAS and AIS/MAP/SG reports.	Action Plan: Publish the ICAO Type-A aerodrome obstacle charts for those international aerodromes with air navigation obstacles pending publication.	State	End 2006	U
<b>AIS Dominican Republic/República Dominicana</b>									
AIS 34 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Dominican Republic	Partial implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States, Was informed on a new WGS 84 suvey project (enc. 131 file NE-58-3/mar-15-2002)	Need to implement the WGS-84 Geodetic System. Action Plan: 90% completed.	State	30/11/04	U
AIS 272 C	Doc. 8733 Basic ANP, Part VIII, Paras. 61 to 64, FASID Table AIS 7	Dominican Republic	Lack of production of the World Aeronautical Chart ICAO 1:1000 000	01/11/94	Records/files NACC RO; GREPECAS reports	Need of production of the World Aeronautical Chart ICAO 1:1000 000. Action Plan: on-going. Aeronautical and topographic charts are nowadays being modified and updated.	State	11/04	U
<b>AIS El Salvador</b>									
AIS 10 C	Annex 15, Chap. 4, Para. 4.2.9; Doc. 8733, Basic ANP, Part VIII, Paras 36 to 37	El Salvador	Lack of regular and effective updating of the AIP Document	24/10/00	GREPECAS AIS/MAP Subgroup	Need to keep updated the information/data contained in the AIP	State	TBD	U
AIS 35 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	El Salvador	Partial implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System	State	30/11/06	U
AIS 98 C	Doc. 8733 Basic ANP, Part VIII, Paras. 9 to 12	El Salvador	Lack of highest priority for printing of AIS publications.	18/09/96	Records/files NACC RO; GREPECAS reports	Need to provide a higher priority for the printing of AIS publications	State	TBD	U

## OUTSTANDING DEFICIENCIES (U)

AIS/MAP/SG/10  
WP/03  
APPENDIX

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE CAR REGION

Identification		Deficiencies			Corrective Action				
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
<b>AIS Guatemala</b>									
AIS 11 C	Annex 15, Chap. 4, Para. 4.2.9; Doc. 8733, Basic ANP, Part VIII, Paras 36 to 37	Guatemala	Lack of regular and effective updating of the AIP Document	24/10/00	GREPECAS AIS/MAP Subgroup	Need to keep updated the information/data contained in the AIP	State	TBD	U
AIS 36 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Guatemala	Partial implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System	State	30/11/06	U
AIS 207 C	Annex 4 Chap. 3; Doc. 8733 Basic ANP, Part VIII, Paras. 59 a) and 64 1); FASID Table AIS 6	Guatemala	Partial application of ICAO requirements for the production of Aerodrome obstacle chart-ICAO Type A.	06/01/94	Records/files in NACC RO; GREPECAS and AIS/MAP/SG reports.	Need for effective production of aeronautical charts of this series according to the ICAO specifications.	State	TBD	U
AIS 99 C	Doc. 8733 Basic ANP, Part VIII, Paras. 9 to 12	Guatemala	Lack of highest priority for printing of AIS publications.	18/09/96	Records/files NACC RO; GREPECAS reports	Need to provide a higher priority for the printing of AIS publications	State	TBD	U
<b>AIS Honduras</b>									
AIS 13 C	Annex 15, Chap. 4, Para. 4.2.9; Doc. 8733, Basic ANP, Part VIII, Paras 36 to 37	Honduras	Lack of regular and effective updating of the AIP Document	24/10/00	GREPECAS AIS/MAP Subgroup	Need to keep updated the information/data contained in the AIP	State	TBD	U
AIS 267 C	Doc 8733 Basic ANP, Part VIII, Paras. 59 k), 61, 62, 64 7) and FASID Table AIS 7.	Honduras	Lack of production of the World Aeronautical Chart ICAO 1:1000 000	06/01/94	Records/files NACC RO; GREPECAS reports	Need to produce the chart.	State	TBD	U
AIS 101 C	Doc. 8733 Basic ANP, Part VIII, Paras. 9 to 12	Honduras	Lack of highest priority for printing of AIS publications.	18/09/96	Records/files NACC RO; GREPECAS reports	Need to provide a higher priority for the printing of AIS publications	State	TBD	U
<b>AIS Jamaica</b>									
AIS 14 C	Annex 15, Chap. 4, Para. 4.2.9; Doc. 8733, Basic ANP, Part VIII, Paras 36 to 37	Jamaica	Lack of regular and effective updating of the AIP Document	24/10/00	GREPECAS AIS/MAP Subgroup	Need to keep updated the information/data contained in the AIP	State	TBD	U
AIS 25 C	Annex 15, Chapter 3, Paras. 3.1.5 and 3.1.6; Chapter 5, Paras. 5.1.1.1 and Sec. 5.3	Jamaica	Timely distribution of the information through NOTAM	25/10/00	GREPECAS AIS/MAP Subgroup	Need to disseminate on time all operational information through NOTAM	State	TBD	U
AIS 39 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Jamaica	Lack of implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System	State	30/11/06	U
AIS 102 C	Doc. 8733 Basic ANP, Part VIII, Paras. 9 to 12	Jamaica	Lack of highest priority for printing of AIS publications.	18/09/96	Records/files NACC RO; GREPECAS reports	Need to provide a higher priority for the printing of AIS publications	State	TBD	U

## OUTSTANDING DEFICIENCIES (U)

AIS/MAP/SG/10  
WP/03  
APPENDIX

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE CAR REGION

Identification		Deficiencies			Corrective Action				
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
<b>AIS Mexico</b>									
AIS 15 C	Annex 15, Chap. 4, Para. 4.2.9; Doc. 8733, Basic ANP, Part VIII, Para. 33 to 35	Mexico	Lack of regular and effective updating of the AIP Document	24/10/00	GREPECAS AIS/MAP Subgroup	Need to keep updated the information/data contained in the AIP	State	TBD	U
AIS 26 C	Annex 15, Chapter 3, Paras. 3.1.5 and 3.1.6; Chapter 5, Paras. 5.1.1.1 and Sec. 5.3	Mexico	Timely distribution of the information through NOTAM	25/10/00	GREPECAS AIS/MAP Subgroup	Need to disseminate on time all operational information through NOTAM	State	TBD	U
AIS 311 C	Annex 15, Chapter 4, Paras. 4.2.8 and 4.3.4., Chapter 6; Doc 8733 Basic ANP Part VIII, Paras. 45 to 49	Mexico	Lack of effective compliance with the AIRAC system requirement	06/06/04	Records/files NACC RO	Need for an efficient application of AIRAC requirements.	State	TBD	U
AIS 40 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Mexico	Lack of implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System	State	TBD	U
AIS 210 C	Annex 4 Chap. 3; Doc. 8733 Basic ANP, Part VIII, Paras. 59 a) and 64 1); FASID Table AIS 6	Mexico	Partial application of ICAO requirements for the production of Aerodrome obstacle chart-ICAO Type A.	06/01/94	Records/files in NACC RO; GREPECAS and AIS/MAP/SG reports.	Need for effective production of aeronautical charts of this series according to the ICAO specifications.	State	TBD	U
AIS 271 C	Doc. 8733 Basic ANP, Part VIII, Paras. 61 to 64, FASID Table AIS 7	Mexico	Lack of production of the World Aeronautical Chart ICAO 1:1000 000	01/11/94	Records/files NACC RO; GREPECAS reports	Need of production of the World Aeronautical Chart ICAO 1:1000 000	State	TBD	U
<b>AIS Netherlands Antilles/Antillas Neerlandesas</b>									
AIS 268 C	Annex 15, Chapter 4, Para. 4.2.9; Doc. 8733, ANP, Part VI, 3.2	Netherlands Antilles	Lack of regular and effective updating of the AIP Document	24/10/00	GREPECAS AIS/MAP Subgroup	Need to keep updated the information/data contained in the AIP	State	TBD	U
AIS 41 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Netherlands Antilles	Lack of implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System	State	30/11/04	U
AIS 211 C	Annex 4 Chap. 3; Doc. 8733 Basic ANP, Part VIII, Paras. 59 a) and 64 1); FASID Table AIS 6	Netherlands Antilles	Partial application of ICAO requirements for the production of Aerodrome obstacle chart-ICAO Type A.	06/01/94	Records/files in NACC RO; GREPECAS and AIS/MAP/SG reports.	Need for effective production of aeronautical charts of this series according to the ICAO specifications.	State	TBD	U
AIS 104 C	Doc. 8733 Basic ANP, Part VIII, Paras. 9 to 12	Netherlands Antilles	Lack of highest priority for printing of AIS publications.	18/09/96	Records/files NACC RO; GREPECAS reports	Need to provide a higher priority for the printing of AIS publications	State	TBD	U

## OUTSTANDING DEFICIENCIES (U)

AIS/MAP/SG/10  
WP/03  
APPENDIX

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE CAR REGION

Identification		Deficiencies			Corrective Action				
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
<b>AIS Nicaragua</b>									
AIS 16 C	Annex 15, Chapter 4, Para. 4.2.9; Doc. 8733, Basic ANP, Part VIII, Paras 33 to 37	Nicaragua	Lack of regular and effective updating of the AIP Document	24/10/00	GREPECAS AIS/MAP Subgroup	Need to keep updated the information/data contained in the AIP. Action Plan: The distribution of amendments and rest of the integrated documentation allows to update all the AIP information.	State	02/04	U
AIS 42 C	Annex 15, Para. 3.6.4; Annex 4, Para. 2.18; Doc. 8733, Basic ANP, Part VIII, Paras 50 to 58, FASID Table AIS 5	Nicaragua	Lack of implementation of the WGS-84	01/01/98	GREPECAS AIS/MAP Subgroup Survey to States	Need to implement the WGS-84 Geodetic System. Action Plan: Surveys have been performed at the main aerodromes of the country.	State	30/11/04	U
<b>AIS Turks and Caicos/Islas Turcas y Caicos</b>									
AIS 28 C	Annex 15, Chapter 3, Paras. 3.1.5 and 3.1.6; Chapter 5, Paras. 5.1.1.1 and Sec. 5.3	Turks and Caicos Islands	Timely distribution of the information through NOTAM	25/10/00	GREPECAS AIS/MAP Subgroup	Need to disseminate on time all operational information through NOTAM	State	TBD	U
AIS 105 C	Doc. 8733 Basic ANP, Part VIII, Paras. 9 to 12	Turks and Caicos Islands	Lack of highest priority for printing of AIS publications.	18/09/96	Records/files NACC RO; GREPECAS reports	Need to provide a higher priority for the printing of AIS publications	State	TBD	U

## OUTSTANDING DEFICIENCIES (U)

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE SAM REGION

AIS/MAP/SG/10  
WP/03  
Appendix A

Identification			Deficiencies			Corrective Action				
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action		
<b>AIS Argentina</b>										
AIS 162 S	Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Argentina		It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	It is indicated in the action Plan (2006) that relevant actions on the matter, are being taken as required. Internal auditories are carried out at the AIS.	Indicated State	TBD	U
AIS 178 S	ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Argentina		Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	# implementation Plan (2006) indicated that relevant action is being taken on the matter.	Indicated States	TBD	U
AIS 219 S	CAR-SAM ANP Part VIII (AIS); Para. 65, 66, 67, 68 AND 69. Regional AIS automated system	Argentina		Requirement for implementation of automated system at the AIS services, in agreement with the indicated in the CAR/SAM Air Navigation Plan..	1989	Records SAM Office.	# Action Plan (2006) indicated that relevant proposed system is under development.	Indicated State	TBD	U
<b>AIS Bolivia</b>										
AIS 163 S	Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Bolivia		It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and ruel are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	I action Plan (2006) working are being carried out on the matter.	Indicated State	TBD	U
AIS 179 S	ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Bolivia		Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action Plan (2006).	Indicated States	TBD	U
AIS 220 S	CAR-SAM ANP Part VIII (AIS); Para. 65, 66, 67, 68 AND 69. Regional AIS automated system	Bolivia		Requirement for implementation of automated system at the AIS services, in agreement with the indicated in the CAR/SAM Air Navigation Plan..	1989	Records SAM Office.	Action Plan (2006) 10% implemented	Indicated State	TBD	U
AIS 7 S	ICAO Annex 15, Para. 3.4.4.1 WGS-84.Geodetic System	Bolivia		Need to comply with effective and total implementation of the WGS-84.	1998	SAM RO Records..	Action Plan (2006) 40% implemented	Indicated State	TBD	U
AIS 16 S	ICAO Annex 4. WGS-84.Geodetic System	Bolivia		.Need for production of all required aeronautical charts under the WGS-84 system.	1998	SAM RO records.	Action Plan (2006) 40% implemented	Indicated State	TBD	U

## OUTSTANDING DEFICIENCIES (U)

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE SAM REGION

AIS/MAP/SG/10  
WP/03  
Appendix A

Identification			Deficiencies			Corrective Action				
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action		
<b>AIS Brazil/Brasil</b>										
AIS 164 S	Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Brazil		It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action Plan 2004. Ongoing	Indicated State	TBD	U
AIS 180 S	ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Brazil		Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action Plan (2004). Ongoing	Indicated States	TBD	U
AIS 97 S	Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	Brazil		Need for the inclusion of geoid undulation in the Aerodrome/Heliport Chart - ICAO.	2001	SAM OfficeRecords.	# In action plan (2004) it is indicated that measures should be taken as required.	Indicated State	TBD	U
<b>AIS Chile</b>										
AIS 165 S	Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Chile		It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action Plan 2006. 50% implemented	Indicated State	TBD	U
AIS 181 S	ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Chile		Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action Plan 2006.	Indicated States	TBD	U
AIS 131 S	Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	Chile		Requirement to effectively satisfy the specification on the inclusion of geoid undulation in the Aerodrome/Heliport Chart - ICAO.	2001	Records SAM Office.	It is indicated in Action Plan (2006) that difference with respect to the ICAO Annex 4 has been reported.	Indicated State	TBD	U
<b>AIS Colombia</b>										
AIS 166 S	Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Colombia		It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action Plan 2006. 30% implemented	Indicated State	TBD	U

## OUTSTANDING DEFICIENCIES (U)

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE SAM REGION

AIS/MAP/SG/10  
WP/03  
Appendix A

Identification			Deficiencies			Corrective Action			
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
AIS 182 S ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Colombia	Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action Plan (2006) action is being taken on the matter.	Indicated States	TBD	U	
AIS 132 S Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	Colombia	Requirement to effectively satisfy the specification on the inclusion of geoid undulation in the Aerodrome/Heliport Chart - ICAO.	2001	Records SAM Office.	Action Plan (2006) 20% implemented.	Indicated State	TBD	U	
<b>AIS Ecuador</b>									
AIS 167 S Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Ecuador	It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action plan 2006 30% implemented	Indicated State	TBD	U	
AIS 183 S ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Ecuador	Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action plan 2006.	Indicated States	TBD	U	
AIS 133 S Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	Ecuador	Requirement to effectively satisfy the specification on the inclusion of geoid undulation in the Aerodrome/Heliport Chart - ICAO.	2001	Records SAM Office.	Action plan 2006 80% implemented	Indicated State	TBD	U	
<b>AIS Guyana</b>									
AIS 169 S Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Guyana	It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action plan 2004 action should be taken as required	Indicated State	TBD	U	
AIS 185 S ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Guyana	Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action plan 2004 action should be taken as required	Indicated States	TBD	U	
AIS 134 S Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	Guyana	Requirement to effectively satisfy the specification on the inclusion of geoid undulation in the Aerodrome/Heliport Chart - ICAO.	2001	Records SAM Office.	Action Plan 2004 50% implemented.	Indicated State	TBD	U	

## OUTSTANDING DEFICIENCIES (U)

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE SAM REGION

AIS/MAP/SG/10  
WP/03  
Appendix A

Identification			Deficiencies			Corrective Action			
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
AIS 225 S	CAR-SAM ANP Part VIII (AIS); Para. 65, 66, 67, 68 AND 69. Regional AIS automated system	Guyana	Requirement for implementation of automated system at the AIS services, in agreement with the indicated in the CAR/SAM Air Navigation Plan..	1989	Records SAM Office.	Action Plan 2004 20% implemented.	Indicated State	TBD	U
AIS 9 S	ICAO Annex 15, Para. 3.4.4.1 WGS-84.Geodetic System	Guyana	Need to comply with effective and total implementation of the WGS-84.	1998	SAM RO Records..	Actiona Plan (2004 60% implemented	Indicated State	TBD	U
AIS 20 S	ICAO Annex 4. WGS-84.Geodetic System	Guyana	Need for production of all required aeronautical charts under the WGS-84 system.	1998	SAM RO records.	Action Plan (2004) 80% implemented.	Indicated State	TBD	U
<b>AIS Panama</b>									
AIS 170 S	Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Panama	It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action plan 2006 Action is being taken.	Indicated State	TBD	U
AIS 186 S	ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Panama	Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action plan 2006 Action is being taken.	Indicated States	TBD	U
AIS 226 S	CAR-SAM ANP Part VIII (AIS); Para. 65, 66, 67, 68 AND 69. Regional AIS automated system	Panama	Requirement for implementation of automated system at the AIS services, in agreement with the indicated in the CAR/SAM Air Navigation Plan..	1989	Records SAM Office.	Action Plan (2006) Ongoing	Indicated State	TBD	U
<b>AIS Paraguay</b>									
AIS 171 S	Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Paraguay	It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action plan 2006 20% implemented	Indicated State	TBD	U
AIS 187 S	ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Paraguay	Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action Plan 2006 Ongoing	Indicated States	TBD	U
AIS 201 S	Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	Paraguay	Need for the inclusion of geoid undulation in the Aerodrome/Heliport Chart - ICAO.	2001	Records SAM Office.	Action Plan (2006) 80% implemented.	Indicated State	TBD	U

## OUTSTANDING DEFICIENCIES (U)

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE SAM REGION

AIS/MAP/SG/10  
WP/03  
Appendix A

Identification			Deficiencies			Corrective Action			
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
AIS 227 S	Paraguay	CAR-SAM ANP Part VIII (AIS); Para. 65, 66, 67, 68 AND 69. Regional AIS automated system	1989	Records SAM Office.	Action Plan (2006) 25% implemented.	Indicated State	TBD	U	
<b>AIS Peru</b>									
AIS 172 S	Peru	Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action plan 2006 30% implemented	Indicated State	TBD	U	
AIS 188 S	Peru	ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	2000	Registro Oficina SAM	Action Plan (2006) Ongoing	Indicated States	TBD	U	
AIS 202 S	Peru	Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	2001	Records SAM Office.	Action Plan (2006) Ongoing	Indicated State	TBD	U	
<b>AIS Suriname</b>									
AIS 173 S	Suriname	Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action plan 2005 Ongoing	Indicated State	TBD	U	
AIS 189 S	Suriname	ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	2000	Registro Oficina SAM	Action plan 2005 Ongoing	Indicated States	TBD	U	
AIS 203 S	Suriname	Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	2001	Records SAM Office.	Action plan 2006 70% implemented	Indicated State	TBD	U	
AIS 229 S	Suriname	CAR-SAM ANP Part VIII (AIS); Para. 65, 66, 67, 68 AND 69. Regional AIS automated system	1989	Records SAM Office.	Action Plan (2005) Ongoing.	Indicated State	TBD	U	

## OUTSTANDING DEFICIENCIES (U)

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE SAM REGION

AIS/MAP/SG/10  
WP/03  
Appendix A

Identification			Deficiencies			Corrective Action			
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
AIS 13 S ICAO Annex 15, Para. 3.4.4.1 WGS-84.Geodetic System	Suriname	Need to comply with effective and total implementation of the WGS-84.	1998	SAM RO Records..	Action plan 2005. Ongoing	Indicated State	TBD	U	
AIS 24 S ICAO Annex 4. WGS-84.Geodetic System	Suriname	Need for production of all required aeronautical charts under the WGS-84 system.	1998	SAM RO records.	Action Plan (2005 Ongoing.	Indicated State	TBD	U	
<b>AIS Uruguay</b>									
AIS 174 S Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Uruguay	It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action plan 2005 Ongoing	Indicated State	TBD	U	
AIS 190 S ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Uruguay	Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action plan 2005 Ongoing	Indicated States	TBD	U	
AIS 204 S Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	Uruguay	Need for the inclusion of geoid undulation in the Aerodrome/Heliport Chart - ICAO.	2001	Records SAM Office.	Action plan 2005 80% implemented	Indicated State	TBD	U	
<b>AIS Venezuela</b>									
AIS 175 S Annex 15, Para. 3.2 Implementation of Quality system (QS) at the AIS	Venezuela	It is required the implementation of a quality system (QS); as well as, of the quality assurance and quality control procedures at the AIS/MAP services.	2003	Relevant technical documentation and rules are being prepared by the GREPECAS AIS/MAP Subgroup, in order to assist the CAR/SAM States to achieve this objective	Action plan 2006 Ongoing	Indicated State	TBD	U	
AIS 191 S ANNEX 15; Chap 3, 3.2.8, and 3.2.10 Integrity of aeronautical information/data.	Venezuela	Need that quality control (QC) system be implemented by the States, to ensure the required level of integrity of the aeronautical information/data issued and/or available. Application of cyclic redundancy check (CRC).	2000	Registro Oficina SAM	Action plan 2006 Ongoing	Indicated States	TBD	U	
AIS 205 S Annex 4, Chap 13, Para 13.6.1 C). Aerodrome/Heliport Chart - ICAO.	Venezuela	Need for the inclusion of geoid undulation in the Aerodrome/Heliport Chart - ICAO.	2001	Records SAM Office.	Action Plan (2006) 50% implemented.	Indicated State	TBD	U	
AIS 14 S ICAO Annex 15, Para. 3.4.4.1 WGS-84.Geodetic System	Venezuela	Need to comply with effective and total implementation of the WGS-84.	1998	SAM RO Records..	Action plan (2006) Ongoing	Indicated State	TBD	U	

## OUTSTANDING DEFICIENCIES (U)

### REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE AIS FIELD IN THE SAM REGION

AIS/MAP/SG/10  
WP/03  
Appendix A

Identification			Deficiencies			Corrective Action			
Requirements	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Date of completion	Priority for action	
AIS 26 S ICAO Annex 4. WGS-84.Geodetic System	Venezuela	Need for production of all required aeronautical charts under the WGS-84 system.	1998	SAM RO records.	Action Plan (2006) 60% implemented	Indicated State	TBD	U	