

FINAL VERSION



INTERNATIONAL CIVIL AVIATION ORGANIZATION
CAR/SAM REGIONAL PLANNING AND IMPLEMENTATION GROUP
(GREPECAS)

**FIFTH MEETING OF THE GREPECAS AERODROMES AND GROUND AIDS/
AERODROME OPERATIONAL PLANNING SUBGROUP**

(AGA/AOP/SG/5)

REPORT

Montevideo, Uruguay
20-24 November 2006

November 2006

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HISTORICAL

ii.1 **Duration and Site of the Meeting**

The Fifth Meeting of the GREPECAS Aerodromes and Ground Aids/Aerodrome Operational Planning Subgroup (AGA/AOP/SG/5) was held in the premises of the Dirección Nacional de Aviación Civil e Infraestructura Aeronáutica (DINACIA), Montevideo, Uruguay, from 20 to 24 November 2006.

ii.2 **Opening Ceremony**

Dr. Samuel H. Cardoso, Secretary of the AGA/AOP Subgroup, welcomed the participants on behalf of Mr. José Miguel Ceppi, Regional Director of the ICAO SAM Regional Office and Secretary of GREPECAS, thanking them for their attendance and wishing them the best success in their deliberations during the course of the event.

Brig. Gral. (Av.) José L. Vilardo, Director General of Civil Aviation and Aeronautical Infrastructure (DINACIA) of Uruguay attended the Opening Session of the Fifth Meeting of the GREPECAS Aerodromes and Ground Aids/Aerodrome Operational Planning Subgroup (AGA/AOP/SG/5), also were present Col. (Av.) Hugo Dávila, Director General of Aeronautical Infrastructure (DGIA) and Col. (Av.) Daniel Olmedo, Director General of Civil Aviation (DGCA), who spoke on behalf of the DINACIA Director.

ii.3 **Organization, Officers and Secretariat**

Mr. Gilberto Vázquez Alanís (México), the Subgroup Chairman, presided over the Meeting throughout its duration. Dr. Samuel Cardoso, Regional Officer, Aerodromes and Ground Aids of the ICAO SAM Regional Office was Secretary of the Meeting and was assisted by Eng. Samuel Véliz, Regional Officer, Aerodromes and Ground Aids of the ICAO NACC Regional Office.

ii.4 **Working Languages**

The working languages of the Meeting were Spanish and English. The documentation and the Report of the Meeting were available to participants in both languages.

ii.5 **Agenda**

Agenda Item 1 Approval of the Meeting Agenda and Schedule

Agenda Item 2 Review of the GREPECAS/13 Conclusions and Decisions

- Agenda Item 3** Review of AGA Deficiencies
- 3.1 AGA Area Deficiencies Database
 - 3.2 AGA Deficiencies and Action Plans
 - 3.3 Airfield Maintenance/Translation of the ICAO Regional Manual on Airports Maintenance
 - 3.4 Emergency Plans and Emergency Operations Centres (EOC)
 - 3.5 Aerodrome Certification/Safety Management Systems (SMS)
 - 3.6 Annex 14 and the audits of the ICAO Universal Safety Oversight Audit Programme (USOAP)
 - 3.7 Information of Latin American and Caribbean Association on Airfield Pavement (ALACPA) Activities
 - 3.8 Information of the CAR/SAM Regional Bird Hazard/Wildlife Prevention Committee (CARSAMPAF) Activities
- Agenda Item 4** Review of Air Navigation Plan Matters
- 4.1 Airport Traffic Forecasts
 - 4.2 CAR/SAM Regional Air Navigation Plan Amendments
- Agenda Item 5** Review of Task Forces Activities
- 5.1 Runway Strips & Runway End Safety Areas Task Force Report
 - 5.2 Runway Incursion Prevention Task Force Report
 - 5.3 Demand/Capacity Task Force Report
 - 5.4 Emergency Plans/Emergency Operations Centres Task Force Report (EOC)
- Agenda Item 6** Review of other Technical Matters
- 6.1 The ICAO Global Air Navigation Plan (Global Plan)
 - 6.2 Application of Amendments 7, 8 and 9 to Annex 14
 - 6.3 Progress of the AGA/AOP Subgroup on the RAN CAR/SAM/3 Meeting Conclusions and Other Important Issues for the CAR/SAM Regions
 - 6.4 Airport Environmental Management System
 - 6.5 Relevant aspects of Annex 14
- Agenda Item 7** Administrative Matters
- 7.1 AGA/AOP/SG Terms of Reference, Work Programme and Composition
 - 7.2 ICAO Global and Regional AGA Activities
 - 7.3 Next Meeting site, date and duration
- Agenda Item 8** Any other business

ii.6 **Attendance**

The Meeting was attended by 46 participants from 16 Member States and 3 International Organizations, and 2 States, located or having territories in the CAR/SAM Regions. A list of participants is shown in page iii-1.

ii.7 **List of Working Papers**

Number	Agenda Item	Title	Date	Prepared and Presented by
WP/01	1	Approval of the Meeting Agenda and Schedule (Rev.2)	19/10/06	Secretariat
WP/02	2	Review of the GREPECAS/13 Conclusions and Decisions	19/10/06	Secretariat
WP/03	3.1	AGA Area Deficiencies Database	19/10/06	Secretariat
WP/04	3.2	AGA Deficiencies and Action Plans	19/10/06	Secretariat
WP/05	3.2	Solution for the Declaration of Runway Strips and Runway End Safety Areas (RESAs) in Airports with Terrain Restrictions	20/10/06	Cuba
WP/06	3.3	Review/Translation of the ICAO Regional Manual on Airport Maintenance	18/10/06	ALACPA
WP/07	3.4	Emergency Plans and Emergency Operations Centres (EOC)	16/10/06	Secretariat
WP/08	3.5	Aerodromes Certification and Safety Management Systems	16/10/06	Secretariat
WP/09	3.5	Experiences on Aerodromes Certification and Implementation of SMS in Cuba	20/10/06	Cuba
WP/10	3.6	Annex 14 and the ICAO USOAP Audits	24/10/06	Secretariat
WP/11	3.7	2005 – 2006 Report on ALACPA’s Activities	15/11/06	ALACPA
WP/12	3.8	Report of the CARSAMPAF activities	19/07/06	CARSAMPAF
WP/13	4.1	Airport Traffic Forecasts	31/10/06	Secretariat
WP/14	4.2	Amendments to the CAR/SAM Regional Air Navigation Plan in 2005 and 2006 (Rev.)	20/10/06	Secretariat
WP/15	5.1	Runway Strips & Runway End Safety Areas Task Force	31/10/06	Rapporteur
WP/16	5.2	Report of the Runway Incursion Prevention Task Force	20/10/06	Rapporteur
WP/17	5.3	Demand/Capacity Task Force Report	06/11/06	Rapporteur
WP/18		Report of the Emergency Plans/Emergency Operations Centre (EOC) Cancelled	Cancelled	Cancelled
WP/19	6.1	The ICAO Global Air Navigation Plan (Global Plan)	18/10/06	Secretariat
WP/20	6.2	Application of Amendments 7, 8 and 9 to Annex 14	24/10/06	Secretariat

Number	Agenda Item	Title	Date	Prepared and Presented by
WP/21	6.3	Progress of the AGA/AOP Subgroup on the RAN CAR/SAM/3 Meeting Conclusions and Other Important issues for the CAR/SAM Regions	20/10/06	Secretariat
WP/22	6.3	Proposal of a Cooperation Project to be presented by the CAR/SAM Regional Bird Strike and Wildlife Hazard Prevention Committee (CAR/SAMPAPF) and the Regional Safety Oversight System (SRVSOP)	18/10/06	CARSAMPAPF
WP/23	6.4	Airport Environmental Management System	30/10/06	Secretariat
WP/24	6.5	Down Slope of the Runway Strip located beyond the levelled portion	18/10/06	Dominican Republic
WP/25	6.5	Width of the aiming point marking for runways less than 30 m wide	18/10/06	Dominican Republic
WP/26	7.1	AGA/AOP/SG Terms of Reference, Work Programme and Composition	23/10/06	Secretariat
WP/27	7.2	ICAO Global and Regional AGA Activities	18/10/06	Secretariat
WP/28	7.3	Tentative Meeting Schedule for GREPECAS and its Contributory Bodies for 2007	24/10/06	Secretariat
WP/29	8	Election of AGA/AOP/SG Subgroup Chairman and Vice-Chairman	24/10/06	Secretariat
WP/30		Cancelled		
NE/31	4.2	Inclusión de Datos de Pista en el Doc 8733 <i>Spanish only</i>	14/11/06	Brazil
NE/32	4.2	Enmienda en el ANP (Doc 8733) <i>Spanish only</i>	14/11/06	Brazil
NE/33	4.2	Inclusión de Datos de Pista en el Doc 8733 <i>Spanish only</i>	16/11/06	Brazil
NE/34	3.6	Método adoptado por Brasil con relación al Cap. 4 del Anexo 14 <i>Spanish only</i>	16/11/06	Brazil
NE/35	4.2	Inclusión de datos a Tabla AOP1 del ANP <i>Spanish only</i>	21/11/06	Brazil
WP/36	4	Proposal to rectify reported discrepancy for the level of rescue and fire fighting service <i>English only</i>	17/11/06	United States

ii.8 **List of Information Papers**

INFORMATION PAPERS				
Number	Agenda Item	Title	Date	Prepared and Presented by
IP/01	--	General Information	31/08/06	Secretariat
IP/02	--	List of Working, Information Papers and Flimsies (Rev. 3)	19/11/06	Secretariat
NI/03	3.1	Actualización del Listado de Deficiencias AGA en Colombia <i>Spanish only</i>	20/10/06	Colombia
NI/04	3.2	Actualización del Plan de Acción para Eliminar las Deficiencias de Cuba a la Navegación Aérea <i>Spanish only</i>	20/10/06	Cuba
NI/05	3.5	Informes de Inspección de Diseño y Servicios Operacionales de Aeródromo <i>Spanish only</i>	18/10/06	El Salvador
IP/06	8	Demand and Capacity Balancing <i>English only</i>	19/10/06	Secretariat
NI/07	8	Caso de Estudio de Demanda y Capacidad Aeropuerto “Viru Viru” <i>Spanish only</i>	31/10/06	Bolivia
IP/08	5.1	Status of Engineered Materials Arresting Systems (EMAS) Installations in the United States <i>English only</i>	31/10/06	United States
IP/09	5.1	Runway Safety Area Improvements in the United States <i>English only</i>	31/10/06	United States
IP/10	3.5	U.S. Approach to Safety Management Systems (SMS) Implementation at Airports <i>English only</i>	31/10/06	United States
NI/11	8	Research Activities for Managing Wildlife Hazards to Aircraft <i>English only</i>	31/10/06	United States
NI/12	3.5	Certificación de Aeródromos <i>Spanish only</i>	07/11/06	Venezuela
NI/13	3.2	Modernización de Aeropuertos y Gestión del Tránsito Aéreo (MAGTA) <i>Spanish only</i>	07/11/06	Venezuela
NI/14	3.4	Planes de Emergencia y Centros de Operaciones de Emergencia (COE) <i>Spanish only</i>	09/11/06	Chile
NI/15	8	Habilitación de un Nuevo Aeródromo en la Zona Norte de Chile <i>Spanish only</i>	09/11/06	Chile
NI/16	6.1	Draft Amendment to the CAR/SAM Regional Plan for the Implementation of CNS/ATM	19/11/06	ATM Committee

ii.9 **List of Flimsies**

DISCUSSION PAPERS

Number	Agenda Item	Title	Date	Prepared and Presented by
Flimsy 1	3.2	Propuesta de Fundamentación del Grupo de Tarea para la Realización de un Taller sobre RESAs y Franjas de Pista Organizado por la OACI <i>Spanish only</i>	22/11/06	Ad Hoc Group
Flimsy 2	3.6	Creación de un Grupo de Tarea sobre Estudios Aeronáuticos en el Ámbito AGA <i>Spanish only</i>	23/11/06	Ad Hoc Group

ii.10 **Draft Conclusions, Draft Decisions and Decisions**

The AGA/AOP Subgroup records its activities in the form of Draft Conclusions, Draft Decisions, and Decisions, as follows:

Draft Conclusions: *Conclusions that require approval by GREPECAS prior to their implementation.*

Draft Decisions: *Decisions that require approval by GREPECAS prior to their implementation*

Decisions: *Decisions that deal with matters of concern to the AGA/AOP Subgroup.*

ii.10.1 **Draft Conclusions**

Number	Title	Page
05/01	English Speaking Workshop on Emergency Plans and Emergency Operations	3 - 2
05/02	Proposal to identify possible differences between level of protection for the rescue and fire fighting service (Table AOP-1)	3 - 3
05/03	Aerodrome Certification/Safety Management Systems (SMS)	3 - 4
05/05	Seminar/Workshop on Aeronautical Studies for RESAs, Runway Strips and Obstacles	3 - 5
05/07	Amendments to the CAR/SAM Air Navigation Plan	4 - 1
05/10	Meetings of the Task Force	6 - 2
05/11	Creation of a Fund for Bird/Wildlife Prevention (CARSAMPAF TECHNICAL MISSIONS PROPOSAL ATTACHED)	6 - 2
05/12	Down slope of the Runway Strip located beyond the leveled portion	6 - 4

Number	Title	Page
05/13	Aiming Point Marking Strips Width for Runways less than 30 M Wide	6 - 4
ii.10.2	Draft Decisions	
Number	Title	Page
05/14	Terms of Reference, Work Programme and Composition of the AGA/AOP Subgroup	7 - 1
ii.10.3	Decisions	
Number	Title	Page
05/04	Task Force on Aeronautical Studies in the AGA Area	3 - 5
05/06	Activities of ALACPA	3 - 6
05/08	Guide for the Prevention of Runway Incursion and Bird/Wildlife Hazard	5 - 1
05/09	Activities of the Demand and Capacity Task Force	5 - 2
05/15	Terms of Reference, Work Programme and Composition of the AGA/AOP Subgroup	7 - 1
05/16	Emergency Plans/Emergency Operations Centre New Rapporteur	7 - 1

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Agenda Item 2:

Review of the GREPECAS/13 Conclusions and Decisions

2.1 The Secretariat presented WP/02 inviting the Meeting to review the GREPECAS/13 Meeting Conclusions and Decisions which are relevant to the AGA/AOP/SG and to consider those with pending actions in its deliberations throughout the Meeting duration. The status of the conclusions and decisions at the end of the Meeting is presented in the **Appendix** to this part of the Report.

2.2 Upon examining Decision 13/35 – *Training and terms of reference of person responsible for wildlife management*, the CARSAMPAF President informed that, due to the complexity of this matter and in view that this Decision continues valid, other alternatives will be searched for to solve the professional level training of the persons in charge of wildlife management at the aerodromes of the CAR/SAM States and Territories.

CONCLUSION/DECISION	ACTION FOR	COMMENTS AND FOLLOW UP	STATUS	REQUIRED ACTION
<p>CONCLUSION 13/32 INFORMATION ON CERTIFIED AERODROMES IN AIP</p> <p>That ICAO consider taking the necessary actions to create a section within the AIP in order to include the information regarding certified aerodromes, all in accordance with paragraph 4.6 of Doc 9774 AN/969 <i>Manual on Certification of Aerodromes</i>, First Edition, 2001, “Promulgation in the AIP of the Certified Status and details of the aerodrome.”</p>	ICAO	Under study at ICAO Headquarters	Underway	Take note
<p>CONCLUSION 13/33 EMERGENCY PLANS AND EMERGENCY OPERATIONS CENTRES (EOC) WORKSHOPS</p> <p>That ICAO,</p> <p>a) consider coordinating the development of workshops in English and Spanish, related to the minimum requirements of emergency plans and emergency operations centres (EOC) and the corresponding implementation at airports within the NAM/CAR/SAM Regions;</p> <p>b) hold a Spanish language workshop in Santiago, Chile, in 2006, in accordance with the offer made by the Chilean Delegation; and</p> <p>c) urge States/Territories and International Organizations to send participants to the workshop.</p>	CAR Region for Workshop in English	CAR/SAM Workshop on Emergency Plans and Emergency Operational Centres (Santiago, Chile, 13 to 17 November 2006)	Underway	Take note
<p>DECISION 13/34 CONTINUATION OF ATS PROCEDURES AND GROUND OPERATION ANALYSIS IN THE WILDLIFE MANAGEMENT</p> <p>That the Secretaries of the AGA/AOP Subgroup and ATM Committee of the ATM/CNS Subgroup continue monitoring the status of progress of the recommendations on ATS procedures and ground operation for the bird hazard prevention.</p>	AGA/AOP/SG Subgroup and ATM Committee of the ATM/CNS Subgroup	The co ordinations are being carried out	Underway	Take note

CONCLUSION/DECISION	ACTION FOR	COMMENTS AND FOLLOW UP	STATUS	REQUIRED ACTION
<p>DECISION 13/35 TRAINING AND TERMS OF REFERENCE OF PERSON RESPONSIBLE FOR WILDLIFE MANAGEMENT</p> <p>That the Subgroup, in coordination with the CAR/SAM Regional Bird Hazard Prevention Committee, fosters the professional level training of the persons in charge of wildlife management at the aerodromes of the CAR/SAM States and Territories, whose current terms of reference regarding bird hazard prevention should gradually incorporate measures for the prevention and mitigation of the different wildlife species existing within the airports and their vicinity.</p>	CARSAMPAF	Activities underway	Underway	Take note
<p>CONCLUSION 13/36 CLARIFICATION ON THE APPLICATION OF THE EXPRESSION “WHEREVER PRACTICABLE” IN ANNEX 14, VOLUME I</p> <p>That,</p> <p>a) ICAO clarifies the application of the expression “wherever practicable” mentioned in standards; and</p> <p>b) if possible, indicate some cases where this expression could be applied and/or if this expression is only referred to physical and topographical limitations.</p>	ICAO	Under study at ICAO Headquarters	Underway	Take note
<p>CONCLUSION 13/37 EVENTS ON AIRFIELD PAVEMENTS</p> <p>That ICAO</p> <p>a) urge the States/Territories and International Organizations to send their technicians to the events on pavements and their maintenance, as the subjects are very complex and with little or no specific training offered on them in the NAM/CAR/SAM Regions; and</p> <p>b) study a mechanism for the evaluation of the efficiency and effectiveness of the events provided to the States/Territories so that the knowledge transfer methodologies may be adopted to each specific situation needed in the Regions, mainly those related with the deficiencies, their corrections and their correlation with the air navigation field and safety.</p>	ICAO	---	Underway	Take note

3.4 **Emergency Plans and Emergency Operations Centres (EOC)**

3.4.1 When examining the Tables presented by the Secretariat, in WP/07, on the results of the surveys to States/Territories CAR/SAM on emergency plans and EOC, note was taken that a great number of the States/Territories had not replied. The Tables are presented in **Appendix A** to this part of the report. During the discussions, some inconsistencies were observed due to lack of information. Upon examining these tables, the Meeting took knowledge of an increment of around 12% and 24%, respectively, in the implementation of emergency plans and emergency operations centres in the CAR Region, while in the SAM Region, these increments were of 15% and 11%.

3.4.2 In addition, the Meeting was informed of the CAR/SAM Workshop on Emergency Plans and Emergency Operations Centres held in Santiago, Chile, from 13 to 17 November 2006, with the assistance of 88 participants from 13 CAR/SAM States, and one international organization. As a result of this Workshop, the Meeting was informed that a guide for the implementation of emergency plans will be prepared, which is currently in process of elaboration for its later presentation to the GREPECAS, to be forwarded to the Regional Offices in order to be circulated among the States. Also, it was distributed, during the event, of a CD containing all the material of the Workshop, as well as to the participants of this Meeting.

3.4.3 The Meeting was informed that, regrettably, States in greater need of these plans did not participate in this workshop; therefore, the ICAO NACC and SAM Regional Offices should intensify their tasks with the aim that States participate in these events.

3.4.4 With regard to the above mentioned, the Meeting formulated the following Draft Conclusion:

DRAFT
CONCLUSION 05/01 **ENGLISH SPEAKING WORKSHOP ON EMERGENCY PLANS AND EMERGENCY OPERATIONS CENTRES (EOC)**

That ICAO,

- a) coordinate the convening of an English Speaking Workshop on Emergency Plans and Emergency Operations Centre (EOC), in accordance with GREPECAS Conclusion 13/33, and to be conducted by the NACC Office, in view that most of their States are English Speaking.
- b) urge States/Territories to reply to the survey on emergency plan and emergency operation centres, and that they send said information to the ICAO NACC and SAM Regional Offices as soon as possible; and
- c) urge States/Territories to participate in events of this type in a more active manner.

3.4.5 United States indicated, through WP/36, on possible data conflicts between CAR/SAM ANP FASID, Table AOP-1, columns 3 and 9. Column 3 provides a protection level for rescue and fire fighting, as established in Annex 14, Volume I. Meanwhile, a great amount of protection services levels registered in this column seems to be based on information from column 9, which indicates the type of critical aircraft with regard to the pavement support capacity. The practical consequences are less quantity of extinguishing agents and insufficient number of fire fighting vehicles. In this sense, the Meeting formulated the following draft Conclusion:

DRAFT

CONCLUSION 05/02

PROPOSAL TO IDENTIFY POSSIBLE DIFFERENCES BETWEEN LEVEL OF PROTECTION FOR THE RESCUE AND FIRE FIGHTING SERVICE (TABLE AOP-1)

That:

- a) ICAO study the possibility to modify and incorporate data for column 3 in the *ICAO Air Navigation Plan, Doc 8733, Volume II - FASID, Part III – AOP*, by including new text that the aircraft type with its respective model, be used to determine the RFF CAT to be included as an additional data entry. That is, column 3 will consider two data entries (RFF category and aircraft type/model), not one; and
- b) States/Territories review current data in column 3 on rescue and fire fighting category, taking into account the type and model of the aircraft.

3.4.6 Under this Agenda Item, Chile presented IP/14 on the application of a new ISO 9001-2000 standard for RFF services and their modernization in that State.

3.5 Aerodrome Certification/Safety Management Systems (SMS)

3.5.1 Regarding this agenda item, the Meeting reviewed WP/08, which presents a summary of the status of implementation of the aerodromes certification and implementation of the Safety Management Systems (SMS) in the CAR/SAM Regions, taking into account the advance in the basic documentation for aerodrome certification in the CAR/SAM Regions, which are presented in **Appendices B and C**, respectively, to this part of the report.

3.5.2 The Meeting had the opportunity to consider the actions required by ICAO and by the States, in order to complete the certification of their respective international operations aerodromes and implementation of the safety management systems (SMS) and pointed out the need of complementary specific training

3.5.3 In the light of the discussions, the Secretariat observed some inconsistencies with regard to the aerodrome certification implementation tables in the CAR/SAM States/Territories, same which are possible due to communications, reception and/or remittance problems, etc. Therefore, the Meeting expressed the following Draft Conclusion:

DRAFT

CONCLUSION 05/03

**AERODROME CERTIFICATION/SAFETY MANAGEMENT
SYSTEMS (SMS)**

That:

- a) ICAO re circulate the surveys on Aerodrome Certification/Safety Management Systems (SMS) among the States/Territories during the first semester of 2007.
- b) the States/Territories duly complete and send the surveys on Aerodrome Certification/Safety Management Systems (SMS), as soon as possible, and no later than two months after the circulation date.

3.5.4 Upon discussing WP/09 presented by Cuba related with their experiences in aerodrome certification and SMS implementation, the Secretariat highlighted the achievements reached by that Administration with regard to this subject.

3.5.5 El Salvador, through IP/05 informed on a model on design inspection and operational services report, which facilitates the operator to identify effectively ICAO SARPs non compliance, and gives associated follow-up to aerodromes certification.

3.5.6 United States presented IP/10 related with its approach towards safety management system implementation in airports of its Administration.

3.5.7 Venezuela provided information on actions taken with views to aerodromes certification in that State, through IP/12.

3.6 Annex 14 and the audits of the ICAO Universal Safety Oversight Audit (USOAP) Programme

3.6.1 After discussion of WP/10 and taking into consideration Assembly Resolution A35-6, which establishes the development of a global transition to a comprehensive systems approach for audits in the ICAO Universal Safety Oversight Audit Programme (USOAP), the Meeting observed that the aforementioned programme has been implemented for one year and ten months now under the mentioned approach; and the foreseen compliance has been effective. Furthermore, States and Territories have made significant progress in their local safety oversight standards, together with the preparation and publication of their corrective action plans; which has shown that they have a clear and definitive commitment to carry out proper safety oversight practices.

3.6.2 Brazil presented, through WP/34, a method used by this State to solve non compliance of Annex 14, Volume I, Chapter 4, regarding obstacles based on aeronautical studies.

3.6.3 In this regard, as a result of discussion on this working paper and WP/05, discussed in para. 3.2.3, the Meeting considered it pertinent to establish an “ad hoc” Group to study the possibility of creating a Task Force on Aeronautical Studies in the AGA Area. In addition, this “ad hoc” Group was requested to indicate the possible terms of reference and work programme of the future Task Force. Therefore, the Meeting formulated the following Decision and Draft Conclusion:

DECISION 05/04 **TASK FORCE ON AERONAUTICAL STUDIES IN THE AGA AREA**

That, an AGA Aeronautical Studies Task Force be created according to the Terms of Reference and respective Composition indicated in **Appendix C** to the Agenda Item 7 of this Report to prepare a guidance material to apply where specifically permitted by Annex 14 and ICAO Document 9774 (Manual on Certification of Aerodromes).

DRAFT
CONCLUSION 05/05 **SEMINAR/WORKSHOP ON AERONAUTICAL STUDIES FOR RESAs, RUNWAY STRIPS AND OBSTACLES**

That ICAO:

- a) encourage CAR/SAM States/Territories to attend the Seminar/Workshop on Aeronautical Studies, being programmed by the ICAO NACC Regional Office, to serve as a forum to discuss aeronautical studies in the AGA area, mainly regarding RESAs, runway strips and obstacles.
- b) study the possibility to consider the first two days of the Seminar/Workshop to study the specific problems regarding RESAs and runway strips, where specifically permitted by Annex 14.

3.7 **Information of Latin American and Caribbean Association of Airfield Pavement (ALACPA) Activities**

3.7.1 With respect to WP/11 ALACPA presented a summary of activities during the period 2005-2006, indicated as follows:

- a) Translation of the *Handbook of Airport Infrastructure Maintenance Management* from Spanish to English;
- b) Airport Pavements Maintenance Study;
- c) Professional background poll, involving technical personnel performing airside pavement planning, design, construction, evaluation and maintenance functions, in the aerodromes of the CAR/SAM Regions;
- d) Holding of the Airport Pavement Design Seminar and Short Course on Annex 14, Vol. I, Bogota, Colombia 2005 together with ICAO and FAA; and
- e) Association's web page is underway and it will be ready in May 2007.

3.7.2 After deliberations on WP/11, the Meeting was informed that regrettably ALACPA had not kept close coordination with the Secretariat, even though this Association had been established by the AGA/AOP Subgroup.

3.7.3 In this sense, the Meeting proposed the following Decision:

DECISION 05/06 ACTIVITIES OF ALACPA

That ALACPA:

- a) take note of the need to keep a close coordination with the AGA/AOP Subgroup; and
- b) make a better dissemination among its members on the event programme of the Association.

3.8 **Information of the CAR/SAM Regional Bird/Wildlife Hazard Prevention Committee (CARSAMPAF)**

3.8.1 CARSAMPAF presented WP/12 informing of the main activities developed by the Committee between December 2004 and June 2006.

3.8.2 Among the main objectives and goals of the general programmes of the Regional Committee for the period under study are the following:

- a) Foster the creation of the National Bird Hazard Committees and Airport Committees in CAR/SAM States/Territories;
- b) Increase the number of records and reports of strikes between aircraft and wildlife in all CAR/SAM States/Territories;
- c) CARSAMPAF web page administration;
- d) Distribution of Official bulletin of the CARSAMPAF Committee;
- e) The exchange of knowledge among specialists via e-mail;
- f) Organisational arrangements for the next Fourth International Conference on Bird/Wildlife Hazard Prevention, Panama, 4 – 7 December 2006; and
- g) Preparation of the Wildlife Safety Management System Guidance Manual as part of the Safety Management Systems (SMS).

RESULTS OF THE EMERGENCY PLAN AND EMERGENCY OPERATION CENTRES (EOC) SURVEY TO STATES/TERRITORIES

AERODROMES INCLUDED IN THE AIR NAVIGATION REGIONAL PLAN (ANP)

Table 01 – Survey Results CAR Region

STATE/ TERRITORY	NO. OF AERODROMES	EMERGENCY PLANS				EOC		
		How many		Updated exercises		How many	Updated (1)	Planned
		Have	Updated (1)	Full (2)	Partials (3)			
Anguila	1	1	1	1	1	1		
Antigua y Barbuda	1							
Aruba	1							
Bahamas	11							
Barbados	1	1	1	1	1	1		
Belize	1	1	1	1	1	1		
Bermuda	3							
British Virgen Islands	2	2	2	2	2	2		
Cayman Islands	2							
Costa Rica	4	4	4	4	4	4		
Cuba	7	7	7	7	7	7		
Domican Republic	7							
El Salvador	2							
French Antilles	4	4	4			4		
Grenada	2							
Guatemala	4							
Haiti	2							
Honduras	4	4	4	4	4	4		
Jamaica	2	2	2	2	2	2		

STATE/ TERRITORY	NO. OF AERODROMES	EMERGENCY PLANS				EOC		
		How many		Updated exercises		How many	Updated (1)	Planned
		Have	Updated (1)	Full (2)	Partials (3)			
Mexico	42	33	33	33	33	33	33	
Montserrat	1	1	1	1	1	1	1	
Netherlands Antilles	5	3	3	3	3	3	3	
Nicaragua	2							
Saint Kitts and Nevis	2	2	2			2	2	
Saint Lucia	2	1	1			1	1	
Saint Vicent and Grenadines	5							
Trinidad and Tobago	2	2	2			2	2	
Turks and Caicos Islands	3	3	3			3	3	
United States	7	7	7	7	7	7	7	
Dominica	2	1	1			1	1	
TOTAL	134	80	80	66	66	80	80	0
TOTAL (2004)	134	70	65	66	66	61	61	3
Increase (%) respect to 2004	---	12.5	18.8	---	---	23.8	23.8	0

- (1) Have not been updated for more than 5 years (before 2001)
(2) Every two years
(3) In the year subsequent to the complete exercise (confusion on behalf of States and Territories)

Table 02 – Results of the inquiry (SAM Region)

STATE/ TERRITORY	NO. OF AERODROMES	EMERGENCY PLANS				EOC		
		How many		Updated exercises		How many	Updated (1)	Planned
		Have	Updated (1)	Full (2)	Partials (3)			
Argentina	16	16	16	16	16	16	16	---
Bolivia	05	03	03	03	02	03	03	---
Brazil	26	26	26	26	21	21	21	---
Chile	08	08	08	08	08	08	08	---
Colombia	08	08	05	05	05	07	06	---
Ecuador	04	04	03	03	03	03	02	---
Guyana	01							
French Guyana	01							
Panama	05							
Paraguay	02	01	01	00	01	01	01	---
Peru	08	08	08	08	00	08	08	---
Surinam	03							
Uruguay	06	06	06	02	04	01	01	---
Venezuela	07							
TOTAL (2006)	100*	85	77	73	64	73	71	---
TOTAL (2004)	105	70	65	66	53	61	60	3
Increase (%)	0	14.29	16.92	7.58	13.21	11.48	10.00	---

(1) Not updated in the last 5 years (before 2001)

(2) Every 2 years

(3) In the year immediately the year of the full exercise (confusion on behalf of States/Territories)

IMPLEMENTATION OF AERODROME CERTIFICATION IN THE STATES/TERRITORIES OF THE CAR REGION

AERODROMES INCLUDED IN THE REGIONAL AIR NAVIGATION PLAN (ANP)

Table 01 – Progress of the basic documentation for aerodrome certification (CAR Region)

STATE/TERRITORY	N° OF AERODROMES	BASIC DOCUMENTATION FOR CERTIFICATION					
		Responsible body	Finalized	On-going		Planned	
			Published in:	Started in:	Publication foreseen for:	Started in:	Finalization:
Anguilla	1	CAA	---				
Antigua and Barbuda	1	OECS/CAD	---				
Aruba	1	DCA	1998				
Bahamas	11	DCA	---				
Barbados	1	TDA	2004				
Belize	1	CAD	---				
Bermuda	3	CAA	---				
British Virgin Islands	2	CAA	---				
Cayman Islands	2	CAD	---				
Costa Rica	4	DGAC	2004				
Cuba	7	IACC	2003				
Dominican Republic	7	DGAC	2004				
El Salvador	2	AAC	2005				
French Antilles	4	DRAC	2002				
Grenada	2	OECS/CAD	---				
Guatemala	4	DGAC	---				
Haiti	2	OFNAC	---				
Honduras	4	DGAC	2004				
Jamaica	2	JCAA	2003				
Mexico	42	DGAC	2005				
Montserrat	1	CAA	---				
Netherlands Antilles	5	CANA	1998				
Nicaragua	2	DGAC	2005				
Saint Kitts and Nevis	2	OECS/CAD	---				
Saint Lucia	2	OECS/CAD	---				

STATE/TERRITORY	N° OF AERODROMES	BASIC DOCUMENTATION FOR CERTIFICATION					
		Responsible body	Finalized	On-going		Planned	
			Published in:	Started in:	Publication foreseen for:	Started in:	Finalization:
Saint Vincent and the Grenadines	5	OECS/CAD	---				
Trinidad and Tobago	2	TTCAA	2005				
Turks and Caicos Islands	3	CAA	---				
United States	7	FAA	1972				
Dominica	2	OECS/CAD	---				
TOTAL	134						

Table 02 – Progress on certification of aerodromes included in Doc 8733/FASID (CAR Region)

STATE/ TERRITORY	N° OF AERODROMES	RESPONSIBLE BODY	NUMBER OF CERTIFIED AERODROMES /ON-GOING/PLANNED		
			Certified	On-going	Planned
Anguilla	1	CAA	---	---	---
Antigua and Barbuda	1	OECS/CAD	---	---	---
Aruba	1	DCA	1	---	---
Bahamas	11	DCA	---	---	---
Barbados	1	TDA	---	1	---
Belize	1	CAD	---	---	---
Bermuda	3	CAA	---	---	---
British Virgin Islands	2	CAA	---	---	---
Cayman Islands	2	CAD	---	---	---
Costa Rica	4	DGAC	---	1	---
Cuba	7	IACC	2	---	---
Dominican Republic	7	DGAC	---	6	---
El Salvador	2	AAC	---	---	---
French Antilles	7	DRAC	7	---	---
Grenada	2	OECS/CAD	---	---	---
Guatemala	4	DGAC	---	---	---
Haiti	2	OFNAC	---	---	---

STATE/ TERRITORY	N° OF AERODROMES	RESPONSIBLE BODY	NUMBER OF CERTIFIED AERODROMES /ON-GOING/PLANNED		
			Certified	On-going	Planned
Honduras	4	DGAC	---	---	---
Jamaica	2	JCAA	---	---	---
Mexico	42	DGAC	---	---	---
Montserrat	1	CAA	---	---	---
Netherlands Antilles	5	CANA	5	---	---
Nicaragua	2	DGAC	---	---	---
Saint Kitts and Nevis	2	OECS/CAD	---	---	---
Saint Lucia	2	OECS/CAD	---	---	---
Saint Vincent and the Grenadines	5	OECS/CAD	---	---	---
Trinidad and Tobago	2	TTCAA	---	---	---
Turks and Caicos Islands	3	CAA	---	---	---
United States	7	FAA	7	---	---
Dominica	2	OECS/CAD	---	---	---
TOTAL	134		22	8	0

IMPLEMENTATION OF AERODROME CERTIFICATION IN THE STATES/TERRITORIES OF THE SAM REGION

AERODROMES INCLUDED IN THE REGIONAL AIR NAVIGATION PLAN (ANP)**Table 03** – Progress of the basic documentation for aerodrome certification (SAM Region)

STATE/ TERRITORY	N° OF AERODROME S	BASIC DOCUMENTATION FOR CERTIFICATION					
		Responsible Body	Finalized	On-going		Planned	
			Published in	Started in	Publication scheduled for:	Start in:	End
Argentina	16	FAA	September 2004	---	---	---	---
Bolivia	05	DGAC	October 2004	---	---	---	---
Brazil	26	DAC	---	---	---	---	---
Chile	08	DGAC	April 2003	---	---	---	---
Colombia	08	AEROCIVIL	---	---	---	---	---
Ecuador	04	DGAC	February 2005	---	---	---	---
Guyana	01	CAA	June 2004	---	---	---	---
French Guyana	01	CAA	---	---	---	---	---
Panama	05	DGAC	---	---	---	---	---
Paraguay	02	DINAC	October 2002	---	---	---	---
Peru	08	DGAC	February 2005	---	---	---	---
Suriname	03	CAA	---	---	---	---	---
Uruguay	06	DINACIA	---	---	---	---	---
Venezuela	07	DGAC	---	---	---	---	---
TOTAL	100	---	---	---	---	---	---

Table 04 – Progress on certification of aerodromes included in Doc 8733/FASID (SAM Region)

STATE/ TERRITORY	N° OF AERODROME S	RESPONSIBLE BODY	NUMBER OF CERTIFIED AERODROMES/IN PROCESS/PLANNED				
			Certified	On-going		Planned	
				Started in:	Publication scheduled for:	Start in:	End
Argentina	16	FAA	01	---	---	15 in 2006	*ND
Bolivia	05	DGAC	03	---	---	---	---
Brazil	26	DAC	---	---	---		
Chile	08 ⁽¹⁾	DGAC	---	---	---	1 in 2006, 2 en 2007, 2 in 2008, 2 in 2009	1 in 2006
Colombia	08	AEROCIVIL	---	---	---		
Ecuador	04	DGAC	01	---	---	1 in 2005, 2 in 2006	2 in 2006, 1 in 2007
Guyana	01	CAA	01	---	---		
French Guyana	01	CAA	---	---	---		
Panamá	05	DGAC	---	---	---		
Paraguay	02	DINAC	---	02	---		
Peru	08	DGAC	08	---	---		
Suriname	03	CAA	---	---	---		
Uruguay	06	DINACIA	---	---	---		
Venezuela	07	DGAC	---	---	---		
TOTAL	100	---	14	02	---	25 (2005-2009)	04 (2006-2007)

*ND – Not defined

⁽¹⁾ All the airports were submitted to a pre-certification in 2003, except TEMUCO/Manquehue because the construction of a new airport is being planned for TEMUCO

RESULTS OF THE INQUIRY CARRIED OUT IN THOSE AERODROMES USED FOR INTERNATIONAL OPERATIONS ON SAFETY MANAGEMENT SYSTEM (SMS) IN THE CAR REGION

AERODROMES INCLUDED IN THE REGIONAL AIR NAVIGATION PLAN (ANP)

Table 01 – Progress of the basic documentation for SMS implementation (CAR Region)

STATE/TERRITORY	N° OF AERODROMES	BASIC DOCUMENTATION FOR SMS					
		Responsible body	Finalized Published in:	On-going		Planned	
				Started in:	Publication foreseen for:	Started in:	Finalization:
Anguilla	1	CAA	---	---	---	---	---
Antigua and Barbuda	1	OECS/CAD	---	---	---	---	---
Aruba	1	DCA	---	---	---	---	---
Bahamas	11	DCA	---	---	---	---	---
Barbados	1	TDA	2005	2006	---	---	---
Belize	1	CAD	---	---	---	---	---
Bermuda	3	CAA	---	---	---	---	---
British Virgin Islands	2	CAA	---	---	---	---	---
Cayman Islands	2	CAD	---	---	---	---	---
Costa Rica	4	DGAC	2005	2006	---	---	---
Cuba	7	IACC	2004	2006	---	---	---
Dominican Republic	7	DGAC	---	---	---	---	---
El Salvador	2	AAC	2005	2006	---	---	---
French Antilles	4	DRAC	---	---	---	---	---
Grenada	2	OECS/CAD	---	---	---	---	---
Guatemala	4	DGAC	---	---	---	---	---
Haiti	2	OFNAC	---	---	---	---	---
Honduras	4	DGAC	---	---	---	---	---
Jamaica	2	JCAA	---	---	---	---	---
Mexico	42	DGAC	2005	---	---	---	---
Montserrat	1	CAA	---	---	---	---	---
Netherlands Antilles	5	CANA	---	---	---	---	---
Nicaragua	2	DGAC	---	---	---	---	---

STATE/TERRITORY	N° OF AERODROMES	BASIC DOCUMENTATION FOR SMS					
		Responsible body	Finalized Published in:	On-going		Planned	
				Started in:	Publication foreseen for:	Started in:	Finalization:
Saint Kitts and Nevis	2	OECS/CAD	---	---	---	---	---
Saint Lucia	2	OECS/CAD	---	---	---	---	---
Saint Vincent and the Grenadines	5	OECS/CAD	---	---	---	---	---
Trinidad and Tobago	2	TTCAA	---	---	---	---	---
Turks and Caicos Islands	3	CAA	---	---	---	---	---
United States	7	FAA	2006	2007	---	---	---
Dominica	2	OECS/CAD	---	---	---	---	---
TOTAL	134						

Table 02 – Progress of the basic documentation for SMS implementation in the aerodromes included in Doc 8733/FASID (CAR Region)

STATE/TERRITORY	N° OF AERODROMES	BASIC DOCUMENTATION FOR SMS					
		Responsible body	With SMS	On-going		Planned	
				Started in:	Publication foreseen for:	Started in:	Finalization:
Anguilla	1	CAA	---	---	---	---	---
Antigua and Barbuda	1	OECS/CAD	---	---	---	---	---
Aruba	1	DCA	---	---	---	---	---
Bahamas	11	DCA	---	---	---	---	---
Barbados	1	TDA	---	---	---	2006	---
Belize	1	CAD	---	---	---	---	---
Bermuda	3	CAA	---	---	---	---	---
British Virgin Islands	2	CAA	---	---	---	---	---
Cayman Islands	2	CAD	---	---	---	---	---
Costa Rica	4	DGAC	---	---	---	2006	---
Cuba	7	IACC	---	---	---	2006	---
Dominican Republic	7	DGAC	---	---	---	---	---
El Salvador	2	AAC	---	---	---	2006	---

STATE/TERRITORY	N° OF AERODROMES	BASIC DOCUMENTATION FOR SMS					
		Responsible body	With SMS	On-going		Planned	
				Started in:	Publication foreseen for:	Started in:	Finalization:
French Antilles	4	DRAC	---	---	---	---	---
Grenada	2	OECS/CAD	---	---	---	---	---
Guatemala	4	DGAC	---	---	---	---	---
Haiti	2	OFNAC	---	---	---	---	---
Honduras	4	DGAC	---	---	---	---	---
Jamaica	2	JCAA	---	---	---	---	---
Mexico	42	DGAC	1 (TLC)	---	---	---	---
Montserrat	1	CAA	---	---	---	---	---
Netherlands Antilles	5	CANA	---	---	---	---	---
Nicaragua	2	DGAC	---	---	---	---	---
Saint Kitts and Nevis	2	OECS/CAD	---	---	---	---	---
Saint Lucia	2	OECS/CAD	---	---	---	---	---
Saint Vincent and the Grenadines	5	OECS/CAD	---	---	---	---	---
Trinidad and Tobago	2	TTCAA	---	---	---	---	---
Turks and Caicos Islands	3	CAA	---	---	---	---	---
United States	7	FAA	---	---	---	2007	---
Dominica	2	OECS/CAD	---	---	---	---	---
TOTAL	134						

**RESULTS OF THE INQUIRY CARRIED OUT WITH THE STATES ON SAFETY MANAGEMENT SYSTEMS (SMS)
IMPLEMENTATION IN THE SAM REGION**

AERODROMES OF THE REGIONAL AIR NAVIGATION PLAN (ANP)

Table 03 – Progress of the basic documentation for SMS implementation (SAM Region)

STATE	N° OF AERODROMES	BASIC DOCUMENTATION FOR SMS					
		Responsible Body	Finalized	On-going		Planned	
			Published in:	Started in:	Publication scheduled for:	Start in:	End in:
Argentina	16	FAA	September 2004	---	---	---	---
Bolivia	05	DGAC	---	---	---	NOV 2006	FEB2007
Brazil	26	DAC	---	---	---	---	---
Chile	08	DGAC	---	---	DEC 2006	---	---
Colombia	08	AEROCIVIL	---	---	---	---	---
Ecuador	04	DGAC	February 2005	---	---	---	---
Guyana	01	CAA	---	---	---	---	---
French Guyana	01	CAA	---	---	---	---	---
Panama	05	DGAC	---	---	---	---	---
Paraguay	02	DINAC	---	---	---	---	---
Peru	08	DGAC	---	---	---	---	---
Suriname	03	CAA	---	---	---	---	---
Uruguay	06	DINACIA	---	---	---	---	---
Venezuela	07	DGAC	---	---	---	AUG 2006	DEC 2006
TOTAL	100	---	2	---	1	2	2

Table 04 – Progress of the SMS implementation in the aerodromes included in Doc 8733/FASID (SAM Region)

STATE	N° OF AERODROMES	RESPONSIBLE BODY	NUMBER OF AERODROMES WITH SMS/IN PROCESS/PLANNED				
			With SMS	In process		Planned	
				Started in:	End	Start in:	End
Argentina	16	FAA	---	---	---	3 in 2007	*ND
Bolivia	05	DGAC	03	---	---	---	---
Brazil	26	DAC	---	---	---		
Chile	08 ⁽¹⁾	DGAC	---	---	---	3 in 2007, 4 in 2008	3 in 2007, 4 in 2008
Colombia	08	AEROCIVIL	---	---	---		
Ecuador	04	DGAC	01	---	---	---	---
Guyana	01	CAA	---	---	---		
French Guyana	01	CAA	---	---	---		
Panamá	05	DGAC	---	---	---		
Paraguay	02	DINAC	---	---	---		
Peru	08	DGAC	---	---	---		
Surinam	03	CAA	---	---	---		
Uruguay	06	DINACIA	---	---	---		
Venezuela	07	DGAC	---	---	---	1 in 2006, 4 in 2007, 2 in 2008	5 in 2007, 2 in 2008
TOTAL	100	---	04	---	---	17 (2006-2008)	14 (2007-2008)

*ND – No defined

⁽¹⁾ Regarding TEMUCO/Manquehue, it is planned the construction of a new aerodrome

- b) Conclusions 4/4 and 4/11: no actions were carried out by the Subgroup; and
- c) Conclusion 4/9: no action was taken by the Task Force.

6.3.2 As mentioned before and to optimize tasks and preventive actions of the Task Forces, the Subgroup considered this subject of high importance, formulating the following Draft Conclusion:

**DRAFT
CONCLUSION 05/10 MEETINGS OF THE TASK FORCE**

That:

- a) ICAO urge the States/Territories to support the Task Force to meet at least once a year in the ICAO NACC or SAM Regional Offices;
- b) the Task Force present to the members of the Subgroup and respective States/Territories, a definite agenda with the items to be discussed; and
- c) the Task Force make all necessary previous coordination with the members, Secretariat and/or AGA Regional Officers.

6.3.3 The CARSAMPAF, though its WP/22, informed the Meeting on a proposal to expand the assistance and support to CAR/SAM States/Territories through the inclusion of the wildlife hazard problem in the SRVSOP so as to include the issue of wildlife hazard at aerodromes to ensure a better and greater integration of technical areas, a greater international acknowledgment, and a higher level of safety of the operational system in the Region.

6.3.4 The Meeting unanimously emphasized the high economical loss that airlines have suffered due to collisions between bird/fauna and aircraft. As an example, it was mentioned that there is an annual loss affecting the aeronautical industry, of about two billion American Dollars, due to this type of collisions. In addition, it presented IP/11 related with management activities on hazards of wildlife to aircraft.

6.3.5 Regarding this matter, the Meeting decided to promulgate the following Draft Conclusion:

**DRAFT
CONCLUSION 05/11 CREATION OF A FUND FOR BIRD/WILDLIFE PREVENTION
(CARSAMPAF TECHNICAL MISSIONS PROPOSAL
ATTACHED)**

That:

- a) GREPECAS study the possibility of consulting IATA, and the airlines, regarding the feasibility to create a fund for bird/wildlife prevention, as regards support to CARSAMPAF, to develop specific missions to States/Territories, in accordance with the proposal of issues and activities elaborated by CARSAMPAF according to **Appendix** to this part of the Report;

- b) if IATA obtains the funds for this project, the handling of money would be administrated by IATA or whoever it designates;
- c) under no circumstances whatsoever will the funds be administrated by CARSAMPAF;
- d) for each of the missions proposed by CARSAMPAF, according to the Appendix mentioned in a) to this part of the Report, there will be a previously elaborated project and a preliminary allotment; and
- e) in the event the actions described in a) above are impossible, GREPECAS study the possibility of registering CARSAMPAF under the Regional Safety Oversight System (SRVSOP) project, to incorporate the aerodrome bird/wildlife hazard issue and guarantee a better and greater integration in the technical areas, systemic approach, achieve international recognition from the groups and improve the Region's operational safety level.

6.4 **Airport Environmental Management System**

6.4.1 The Meeting was informed (WP/23) by the Secretariat on the need to identify environmental aspects and impacts, and the consequent implementation of an environmental management system with its corresponding monitoring, since it is essential to keep a harmonious relationship and of mutual benefit. In this context, it was indicated that joint, coordinated and effective work is of vital for national, municipal, civil aviation and airport environmental authorities to act in a a rapid and objective manner, with the aim to opportunely minimize environmental effect impacts, keeping due harmony between the operation of the aeronautical system and the activities of the neighbouring community.

6.4.2 In this sense, the Meeting took note that the ICAO Committee on Aviation Environmental Protection (CAEP) has the responsibility of minimize worldwide environmental civil aviation hazardous effects.

6.5 **Relevant Aspects of Annex 14**

6.5.1 Dominican Republic, through WP/24, referred to the Meeting regarding the recommendations of ICAO Annex 14, Volume I, Chapter 3, paragraph 3.4.15, that clearly indicates the maximum allowable up slope in the area beyond the levelled portion of runway strips, but provides no limit for the down slope in this part of the strip.

6.5.2 In this respect, the Meeting deemed it convenient to establish a maximum down slope limit in a section of the runway strip located beyond the portion that has to be levelled.

6.5.3 ICAO Annex 14, Volume I, Chapter 3, para. 3.4.15, establishes that transversal slopes in any part of a strip, further to the segment to be levelled, should not exceed a 5% ascending slope, measured in the sense of runway distancing. This chapter does not establish the values of said slope in the descending sense specifically and, by analogy, with that established in para. 3.5.10 regarding RESA, where it is included that transversal slopes should not overpower a 5% "ascending or descending" slope. The Meeting formulated the following Draft Conclusion:

DRAFT

CONCLUSION 05/12

**DOWN SLOPE OF THE RUNWAY STRIP LOCATED BEYOND
THE LEVELLED PORTION**

That ICAO study, if thought timely, the indication of the maximum up and down slope further to the segment to be levelled in the runway strips, measured in the sense of runway distancing, contained in Annex 14, Volume I, Chapter 3.

6.5.4 Likewise, WP/25 also of Dominican Republic, presented the difficulty found in the placement of the aiming point marking on runways less than 30 m wide, due to the fact that if the standard contained in ICAO Annex14, Table 5-1, on placement and size of the aiming point marking, were followed, when leaving the internal lateral spacing between strips and assigning them the recommended width, there would be an overlap between this marking and the runway side stripe marking. In this sense, the Meeting formulated the following Draft Conclusion:

DRAFT

CONCLUSION 05/13

**AIMING POINT MARKING STRIPS WIDTH FOR RUNWAYS
LESS THAN 30 M WIDE**

That ICAO study, if considered timely, the standard regarding aiming point marking strips width that overlap with the runway lateral strip when these are less than 30 m wide.

APPENDIX TO THE DRAFT CONCLUSION 05/11

CARSAMPAF TECHNICAL MISSIONS PROPOSAL

Functional objective	Activities	States/Territories	Coordinator in charge
<p>Promote the creation of National aerodrome Bird Strike and Wildlife Hazard Committees in the States/Territories of the Region.</p>	<p>Short technical missions to have a technical exchange with experts, officials and national coordinators/representatives of bird strike and wildlife hazard prevention designated by the aeronautical authorities of the various States/Territories and aerodrome operators of the sub-regions, in order to achieve the functional objective.</p>	<p align="center">NACC:</p> <p>Antigua and Barbuda, Bahamas, Barbados, Belize, Dominican Republic, El Salvador, Grenada, Haiti, Honduras, Jamaica, Saint Kitts and Nevis, Saint Lucia, Saint Vincent, the Grenadines, French Antilles, Netherlands Antilles, English Antilles, Puerto Rico and the Virgin Islands.</p> <p align="center">SAM:</p> <p>Bolivia, Chile, Ecuador, Guyana, Paraguay, Peru, Suriname, French Guiana and the Falkland Islands.</p>	<p>Coordinators of the Sub-Regions:</p> <p>Central America:</p> <p>Mexico / Ms. Magdalena Colunga.</p> <p>Caribbean:</p> <p>Trinidad & Tobago/Mr. Emeral Oree.</p> <p>South America :</p> <p>Brazil/Mr. Flavio Antonio Coimbra.</p>

Functional objective	Activities	States/Territories	Coordinator in charge
Increase the number of records and reports of strikes between aircraft and wildlife in all the States/Territories of the Region	Short technical missions to give lectures and make presentations to encourage States/Territories of the Region and aerodrome operators to submit bird strike reporting forms of the proper quality to ICAO.	<u>That do not comply with IBIS</u>	<u>Coordinator of the Statistics Group:</u> Cuba / Mrs. Maritza Sierra.
	Short technical missions to exchange database information with IBIS specialists from ICAO Headquarters.	Canada Cuba	Cuba / Mrs. Maritza Sierra Panama / Mr. Esteban Godinez

Functional objective	Activities	States/Territories	Coordinator in charge
Create and manage the web site of the Regional Bird Strike and Wildlife Hazard Committee (CARSAMPAF)	Coordinate with an IT company to cover the cost of hosting, maintaining and updating an independent web site to be used as a means of communication and interaction (chat) among Board Coordinators and regional experts	Argentina	<u>Coordinator of the Aerodrome Group</u> ACI-LAC / Mr. Fabián Bustos
	Include the full-time salary of an expert to act as Webmaster, to ensure a permanent flow of information to update the web site.	Colombia	<u>Web site Coordinator</u> Colombia / Mrs. Ángela Páez.

Functional objective	Activities	States/Territories	Coordinator in charge
Consolidate the functionality of the Official Bulletin of the CARSAMPAF Regional Committee.	Coordinate with an advertising company the payment for the drafting and editing of a bulletin in the web site of the Regional Committee, as a means of disseminating information on relevant news about the activities carried out by the Board and the CAR/SAM National Bird Strike Committees.	Colombia	Web site Coordinator Colombia / Mrs. Ángela Páez

Functional objective	Activities	States/Territories	Coordinator in charge
Strengthen the exchange of experiences and knowledge among experts, technicians, pilots and/or professionals working in the prevention of bird strike and wildlife hazard	Coordinate administrative matters with the Regional Project and ICAO Regional Offices so as to cover the cost of the activities required for holding international bird strike and wildlife hazard conferences in the CAR/SAM Regions, in keeping with ICAO requirements.	Argentina Chile Panama Peru Mexico	<p style="text-align: center;"><u>Chairmanship</u></p> <p>Panama / Mr. Esteban Godinez.</p> <p style="text-align: center;"><u>Secretariat Coordinator</u></p> <p>Chile / Mr. Roberto Cardoza</p> <p style="text-align: center;"><u>Executive Secretary</u></p> <p>Chile / Mr. Carlos Aliaga</p>
	Coordinate the possibility of holding meetings of CARSAMPAF and SRVSOP experts on the topics of safety and bird and fauna hazard.		<p style="text-align: center;"><u>Coordinator of the Aerodrome Group</u></p> <p>(ACI-LAC) Mr. Fabián Bustos</p>

Functional objective	Activities	States/Territories	Coordinator in charge
Strengthen the exchange of experiences and knowledge among experts, technicians, pilots and/or professionals working in the prevention of bird and wildlife hazard	Coordinate with the Regional Offices of ICAO, ACI, IFALPA and IATA the inclusion of the bird and wildlife hazard topic in the safety training courses scheduled by those international institutions.		<p>Vice Chairmanship</p> <p>Argentina / Mr. Gentile</p> <p>IATA / Mr. Mauricio Morán</p>

Agenda Item 7: Administrative Matters

7.1 AGA/AOP/SG Terms of Reference, Work Programme and Composition

7.1.1 The Secretariat, through WP/26, invited the Meeting to examine the Terms of Reference, Work Programme and Composition of the Subgroup.

7.1.2 The Meeting reviewed and updated the Work Programme and Composition in order to reflect the changes of dates for the finalization of tasks and the membership of the Subgroup. Therefore, the Meeting adopted the following Draft Decision and Decisions:

DRAFT

DECISION 05/14 TERMS OF REFERENCE, WORK PROGRAMME AND COMPOSITION OF THE AGA/AOP SUBGROUP

That the Terms of Reference, Work Programme and Composition of the AGA/AOP Subgroup be adopted as presented in **Appendices A and B** to this part of the report.

DECISION 05/15 TERMS OF REFERENCE, WORK PROGRAMME AND COMPOSITION OF THE TASK FORCES OF THE AGA/AOP SUBGROUP

That the AGA/AOP Subgroup adopts the Terms of Reference, Work Programme and Composition of its Task Forces as presented in **Appendix C** to this part of the report.

DECISION 05/16 EMERGENCY PLANS/EMERGENCY OPERATIONS CENTRE NEW RAPPORTEUR

That the Rapporteur of the Task Force on Emergency Plan/Emergency Operations Centre, Mr. Wainsworth Small, from Jamaica be replaced by Mr. Juan Carlos Gonzalez, from Argentina.

7.2 ICAO Global and Regional AGA Activities

7.2.1 The Secretariat presented WP/27, informing on the Resolutions adopted at the 35th Session of the Assembly in 2004, which produced an intensive schedule of activities at ICAO Headquarters for 2006-2009, having as the ultimate objective compliance with the Global Air Navigation Plan.

7.2.2 It was indicated that the above was based on the ICAO Strategic Objectives, which will be achieved through the Business Plan developed for this purpose. This Plan establishes in detail a series of activities for each of the Strategic Objectives. In addition, the main activities in the AGA field to take place during the abovementioned years at Headquarters, as well as at regional level (NACC/SAM) were presented.

7.3 Next Meeting site, date and duration

7.3.1 The Secretariat presented WP/28 on the tentative meeting schedule for GREPECAS and its contributory bodies for 2007, to be taken into consideration in establishing the proposed dates for the 6th Meeting of the AGA/AOP/SG meeting to be held in the CAR Region in 2008. The Meeting agreed that the AGA/AOP/SG/6 be convened in June/July 2008, possibly in Cuba or Trinidad & Tobago.

7.3.2 Cuba reiterated the Meeting its intention to host the next AGA/AOP/SG/6 in 2008, subject to approval from its authorities. In addition, Trinidad & Tobago expressed the possibility, depending on consultation to higher authorities, to be an alternative site in the event Cuba cannot carry out the Meeting.

7.3.3 In addition, Argentina and Costa Rica indicated their intentions to be hosting States for the AGA/AOP/SG/7 Meeting.

APPENDIX A

**AERODROMES AND GROUND AIDS/AERODROME OPERATIONAL PLANNING
SUBGROUP (AGA/AOP/SG)**

1. Terms of reference

- a) To promote and follow-up the implementation of the AOP requirements of the CAR/SAM ANP and to place special emphasis on identifying, evaluating and proposing, according to established procedures, the corresponding timely corrective actions to the deficiencies affecting aircraft and airport operations.
- b) Develop the planning for the AOP Part of the CAR/SAM ANP.
- c) To carry out permanent co-ordination with GREPECAS Contributory Bodies in order to ensure appropriate integration of all tasks contributing to the implementation of the CAR/SAM ANP.
- d) To review the requirements of the AOP Part of the CAR/SAM Regional Air Navigation Plan with a view to developing any changes required to comply with new technological developments including environmental impact aspects.

2. Work Programme

TASK NUMBER	TASK DESCRIPTION	PRIORITY	DATE	
			START	END
AGA/AOP/2	Review and update the Table AOP 1 of the AOP Part of the ANP/FASID CAR/SAM at regular intervals based on the greater demands on airports in relation to air traffic growth and the accommodation of aircraft with more onerous physical requirements	B	1 st Meeting	Continuous
AGA/AOP/3	Review and follow-up the implementation of corrective actions for AGA deficiencies including: <ul style="list-style-type: none"> ▪ Objects and depressions in runway strips, principally in the graded areas ▪ Runway and taxiway separations ▪ Runway and taxiway slopes ▪ Obstacles ▪ Secondary power supply ▪ Visual aids ▪ Fencing and perimeter roads ▪ Rescue and fire-fighting services ▪ Aerodrome emergency plans ▪ Runway surface conditions ▪ Runway strips and runway end safety areas Refer urgent (U) priority deficiencies, with proposed corrective actions, to the Aviation Safety Board.	A	1 st Meeting	Continuous
AGA/AOP/6	Review demand/capacity problems at airports and develop options for alleviating airport congestion.	B	1 st Meeting	Continuous

TASK NUMBER	TASK DESCRIPTION	PRIORITY	DATE	
			START	END
AGA/AOP/7	Review runway incursion incidents at airports and develop guidance to reduce their occurrence in coordination with ATM and OPS.	A	1 st Meeting	6 th Meeting
AGA/AOP/8	Development of samples that include the necessary minimum requirements for Emergency Plans and Emergency Operation Centres (EOC) of the aerodromes included in the ANP and online follow-up of their implementations, updating of complete and partial exercises in order to increase the safety of airports/aircraft	A	4 th Meeting	Continuous
AGA/AOP/9	On-line follow-up to the implementation of the aerodrome certification process (basic documentation and certification of every aerodrome included in the ANP) with the corresponding implementation of Safety Management Systems, as a method to identify and resolve the deficiencies that compromise the implementation of these processes	A	4 th Meeting	Continuous
AGA/AOP/10	On-line follow up of the maintenance at ANP aerodromes (runways), of the action plans and of the resolution of these deficiencies	A	4 th Meeting	Continuous

3. **Priority**

- A** High priority tasks, on which work should be speeded up.
- B** Medium priority tasks, on which work should commence as soon as possible, but without detriment to priority **A** tasks.
- C** Tasks of lesser priority, on which work should commence as time and resources allow, but without detriment to Priority **A** and **B** tasks.

4. **Composition**

Argentina, Barbados, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, **Dominican Republic****, Ecuador, **El Salvador***, Guatemala, Haiti, Honduras, Mexico, **Panama***, Paraguay, Peru, Trinidad and Tobago, United States, Uruguay, Venezuela, ACI, ALACPA, CARSAMPAF, IATA, IFALPA and IFATCA.

5. **Chairpersons**

Chairman Norberto Cabrera (Cuba)
Vice-Chairman Alberto Palermo (Argentina)

NOTE: The Chairman and Vice-Chairman were elected for the period 2007-2009 (See Agenda Item 8).

* States that missed two consecutive AGA/AOP/SG meetings.

**State to be incorporated in the AGA/AOP/SG depending upon the confirmation of interest by its Administration and the indication of the representative.

APPENDIX B

**AERODROME AND GROUND AIDS/AERODROME OPERATIONAL
PLANNING SUBGROUP (AGA/AOP/SG)**

COMPOSITION

Argentina, Barbados, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, ~~El Salvador~~, Guatemala, Honduras, Mexico, Panama, Paraguay, Peru, Trinidad and Tobago, United States, Uruguay, Venezuela, ACI, ALACPA, CARSAMPAF, IATA, IFALPA and IFATCA.

Member State/Organisation	Representative
Argentina	José Alberto Palermo
Barbados	Karen Walkes <u>To be defined</u>
Bolivia	Jaime Calderón
Brazil	Paulo Jorge de Medeiro Viera
Chile	Sergio Gallo Rosales
Colombia	Aldemar Pinzón
Costa Rica	Luis Gustavo González Trigo
Cuba	Norberto Cabrera Alonso
<u>Dominican Republic</u>	To be defined
Ecuador	To be defined
El Salvador (missed the last 2 Meetings)	Jorge Alberto Puquirre
Guatemala	To be indicated
Haiti	Jacques Boursiquot
Honduras	Geovany Saucedo
Mexico	Gilberto Vázquez Alanís
Panama (missed the last 2 Meetings)	Abdiel Guardia
Paraguay	Francisco Méndez Maldonado
Peru	Luis Melgarejo
Trinidad and Tobago	Ronald Gittens
United States	George Legarreta
Uruguay	<u>Jesús Iglesias or Arturo Forteza</u>
Venezuela	To define or confirm
ACI	Juan Salas
ALACPA	José Cuadrado
CARSAMPAF	Esteban Godínez
IATA	Peter Cerda
IFALPA	Wayne Adamira <u>Heriberto Salazar</u>
IFATCA	Cedric Murrell

APPENDIX C

**AERODROME AND GROUND AIDS / AERODROME OPERATIONAL
PLANNING SUBGROUP (AGA/AOP/SG)**

TASK FORCES

Runway Strips and Runway End Safety Areas

Tasks:

- a) Analyze case studies submitted by States of airports with land constraints to provide runway strips and RESAs and provide guidance
- b) Analyze annually the runway strip and RESA deficiencies and present the results to the AGA/AOP/SG Meetings

Programme:

Task Force to report results at the AGA/AOP/SG/6 Meeting

Composition:

George Legarreta (United States) – Rapporteur
Jose Alberto Palermo (Argentina)
Aldemar Pinzon (Colombia)
Norberto Cabrera Alonso (Cuba)
Peter Cerda (IATA)
Edgar Garantón (Venezuela)
Heriberto Salazar (IFALPA)

Airport Demand/Capacity

Tasks:

Analyze case studies presented by States of airports with congestion problems and provide guidance for demand management and capacity enhancement to alleviate congestion

Programme:

Task Force to report results at the AGA/AOP/SG/6 Meeting

Composition:

Jaime Calderón (Bolivia)
Sergio Gallo (Chile) – Rapporteur
To be nominated (ACI)
José Cuadrado (ALACPA)

Peter Cerda (IATA)
Salvador Lizana (IFALPA)
Alfonso Cruz (IFATCA)

Runway Incursions Prevention

Tasks:

To undertake activities to support States in the prevention of runway incursions through the implementation of runway incursion prevention programmes at aerodromes.

Programme:

- a) Convene a Task Force Meeting in conjunction with the planned CAR/SAM Runway Safety Seminar (September 2004);
- b) Monitor and review global, regional and national developments in relation to runway incursion prevention;
- c) Develop a standard format for and collect runway incursion incident reports from States;
- d) Develop a database of incident reports;
- e) Analyse data to establish causal and contributory factors;
- f) Identify measures for reducing runway incursions;
- g) Develop a regional action plan for the prevention of runway incursions;
- h) Develop regional guidance for States in the implementation of runway incursion programmes at aerodromes; and
- i) Initiate the holding of regional educational events on runway incursion prevention.

Composition:

Argentina	José Alberto Palermo Juan Carlos González
Brazil	Afonso Heleno de Oliveira Gomes
Chile	Sergio Gallo
Colombia (<i>Rapporteur</i>)	Aldemar Pinzón
Haiti	Jacques Boursiquot
Mexico	Conrado Macias
Panama	Abdiel Guardia
Paraguay	Emilio Rodriguez
Uruguay	Roque Buroni
IATA	Peter Cerda
IFALPA	Salvador Lizana and Heriberto Salazar
IFATCA	Alfonso Cruz
<i>ACI to be invited</i>	

Emergency Plans/Emergency Operation Centres (EOC)

Tasks:

- a) To carry out activities to support States in the implementation of emergency plans and emergency operation centres at international aerodromes in order to increase the safety of aerodromes/aircraft;
- b) To develop, from ICAO Documentation, minimum standards to be reached on a regional level for the preparation, implementation, updating and maintenance of standards related to emergency plans and EOC in order to increase the aerodrome/airport safety.

Programme:

- a) To contribute in the preparation of a database on emergency plans and EOC for the NAM/CAR/SAM Regions and to have it on-line;
- b) Develop guidelines, based on ICAO documentation, for the preparation and implementation of emergency plans and EOC, striving for a minimum standardization to improve the safety of aerodromes/aircraft;
- c) To study training alternatives for States/Territories in the preparation and implementation of emergency plans and EOC.
- d) To adjust this work programme as the Task Force makes progress on its work and as it becomes necessary.

Composition

Bolivia	Jaime Calderón
Chile	Roberto Cardoza
Colombia	Aldemar Pinzón
Honduras	Geovany Saucedo
Argentina (<i>Rapporteur</i>)	Juan Carlos González*
United States	George Legarreta
IATA	Mauricio Morán

*Note: In replace of Mr. Wainsworth Small of Jamaica.

Task Force on AGA Aeronautical Studies

Tasks:

- a) Provide technical material to AGA/AOP members to identify, in accordance with Annex 14 and Doc 9774 (Aerodromes Certification) and ICAO Document 9137, Part 6, the subjects that might require aeronautical studies in the AGA field, mainly in terms of RESAS, runway strips, obstacles, etc.
- b) Provide the AGA/SOP/SG the necessary mechanisms to establish the required interphases between the different areas that must participate in the AGA aeronautical studies, mainly with views to SMS implementation..

Programme:

- a) Indicate methodology and parameters necessary for the aeronautical studies in the AGA field;
- b) Indicate relationship of motives leading to the aeronautical study;
- c) Indicate steps for an aeronautical study;
- d) Provide an example of an aeronautical study on the AGA area.
- e) Elaboration of a guide on aeronautical studies for application in the AGA field, in accordance with ICAO Annex 14 and Doc 9774, with interfaces with other related areas that affect the aerodromes operations, to evaluate the obstacles around aerodromes, so as to, in a specific situation and always that there is a difference with the Annex, present areas and surfaces that enable instrument operations in accordance with critical aircraft. Annex 14 and Doc 9136, Part 6, are basic material and, if possible, should serve as guides in the study. In addition, RESAs and runway strips should be considered in this Guide.

Composition:

Argentina	José Alberto Palermo
Brazil	Paulo Jorge de Medeiros Viera
Colombia	Aldemar Pinzón
Costa Rica	Sidney Castellón Camacho/Miguel Cerdas
Cuba	Iraida Alfonso Valdez
Dominican Republic	Francia Peña
Haiti	Jacques Boursiquot
Paraguay	Roque Florentín
Venezuela	Edgar Garantón, Jaime Marquina, Cornelio Trijillo
Mexico (<i>Rapporteur</i>)	Gilberto Vásquez Alanís
Trinidad and Tobago	Ronald Gittens

Agenda Item 8: Any other business

8.1 Election of Chairman and Vice-Chairman of the AGA/AOP/SG

8.1.1 The Secretariat informed the Meeting that the Chairmanship and Vice-Chairmanship of the Subgroup had been carried out by Messrs. Gilberto Vásquez Alanís, from México and Richard Saurina, from Uruguay, since the AGA/AOP/SG/1 Meeting. In addition, that due to personal issues, Mr. Richard Saurina vacated the Vice-Chairman in 2004, since being no longer member of the Subgroup.

8.1.2 In view that the GREPECAS Procedural Manual establishes that the Chairman and Vice-Chairman of a contributory body should act for a three-year period, the Meeting elected Mr. Norberto Cabrera, from Cuba as Chairman, and Mr. Alberto Palermo, from Argentina, as Vice-Chairman, during 2007-2009.