

International Civil Aviation Organization NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN OFFICE **CAR Region Search and Rescue (SAR) Meeting/Workshop** Santo Domingo, Dominican Republic, 28 March-01 April 2005

Agenda Item 1: Global and Regional Perspective of the SAR services

1.1 Review of the status of fulfillment of the Recommendations and Conclusions concerning the SAR Service derived from the CAR/SAM/3 RAN and GREPECAS Meetings.

STATUS OF THE OUTSTANDING SAR RECOMMENDATIONS AND CONCLUSIONS

(Presented by the Secretariat)

SUMMARY

This working paper presents for review by the Meeting the status of the outstanding recommendations and conclusions of the CAR/SAM/3 RAN and GREPECAS Meetings.

References:

- Report of the CAR/SAM/3 RAN Meeting, Buenos Aires, Argentina, October 1999.
- Report of the 11th GREPECAS Meeting (Manaus, Brazil, 48 December 2002).

1. Introduction

1.1 The status of the outstanding SAR recommendations and conclusions is included in the **Appendix A** to this paper.

2. **SAR evaluation**

2.1 Appendix B contains a questionnaire with a list of question on each element of the SAR services, in order that States make an assessment of the SAR service provided in its jurisdiction. The States/Territories should provide ICAO Secretariat current reports in order to keep up-to-date the regional information on the search and rescue system.

2. Suggested Action

2.1 The meeting is invited to review the contents of this working paper and to report and record the updated status of the aforementioned outstanding SAR recommendations and conclusions of the aforementioned meetings.

APPENDIX A

FOLLOW-UP TO THE RECOMMENDATIONS OF THE CAR/SAM/3 RAN MEETING – SAR FIELD

ESTADOS CAR – CAR STATES

| | ESTADO | | RECOMENDACIÓN - RECOMMENDATION | | | | | | | OBSERVACIONES - REMARKS | | | | |
|---|--------|-----|--------------------------------|-----|-----|-----|-----|-----|-----|--------------------------------|------|------|------|--|
| | STATE | 6/2 | 6/3 | 6/4 | 6/5 | 6/6 | 6/7 | 6/8 | 6/9 | 6/10 | 6/11 | 6/12 | 7/12 | |
| | | | | | | | | | C | С | | | | |
| ſ | | | | | | | | | C | С | | | | |

Instrucciones para el llenado del formulario - Instructions to fill the form

- Cumplida : colocar C en el casillero correspondiente. / Accomplished : place C in the corresponding box
- En ejecución: colocar O/G (on going) e indicar en "observaciones" la fecha prevista de término./ In execution: place O/G (on going) and indicate under "remarks" the estimated deadline
- No cumplida: colocar N en el casillero correspondiente. Si es necesario hacer comentarios en columna de observaciones/ Not complied: place N in the corresponding box. If necessary make comments in the remarks column.

- A2 -

CONCLUSIONS OF THE ELEVENTH GREPECAS MEETING

(Manaos, Brazil, 3-7 December 2002)

| CONCLUSIÓN | Action by: | STATUS |
|---|---|--------|
| CONCLUSION 11/35 SEARCH AND RESCUE NATIONAL PLAN That the ICAO NACC and SAM Regional Offices encourage those | | Valid |
| CAR/SAM States/Territories/International Organizations that have not yet done so, to: | | |
| a) develop a national search and rescue plan in line with the CAR/SAM ANP; and | ICAO | |
| b) use the guidance material shown in Appendix E to this part of the Report as the basis for the development of said | States /Territories /International | |
| document CONCLUSION 11/36 AMENDMENT TO TABLE SAR 1- | Organizations ICAO | Valid |
| SEARCH AND RESCUE FACILITIES, OF THE ANP, VOLUME II – FASID That the ICAO NACC and SAM Regional Offices begin a process for amending FASID Table SAR 1, as shown in Appendix F to this part of the Report. | | |
| CONCLUSION 11/37 TRANSITION PLAN FOR THE MANDATORY USE OF ELT IN 406 MHz That ICAO NACC and SAM Regional Offices urge CAR/SAM States/Territories and International Organizations to adopt the relevant measures to develop and implement a transition plan to comply with the dispositions contained in ICAO Annexes 6 and 10 on the mandatory use of ELT on 406 MHz. | ICAO | Valid |
| CONCLUSION 11/38 MEASURES TO BE ADOPTED FOR RESOLVING ATM/SAR DEFICIENCIES | | Valid |
| That, a) ICAO NACC and SAM Regional Offices continuously follow-up the deficiencies in their regions; b) the CAR/SAM States/Territories/International Organizations provide the ICAO NACC and SAM Regional Offices with periodical information to enable the updating of the table of deficiencies; c) the States/Territories/International Organizations share with other administrations the tools used to correct the English proficiency deficiency; d) the identification of the deficiency be quantified through percentages, to enable a better understanding of the progress made; and e) the States/Territories/International Organizations use ATS | a) ICAO b), c), d), e): States /Territories / International Organizations | |

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APPENDIX B SEARCH AND RESCUE LIST OF QUESTIONS IN EACH FIELD

The following key indicators must be used to evaluate the level of implementation of SARPs:

A – Not implemented

B – Initial implementation

 \mathbf{C} – Meets Annex 12 requirements (or other relevant ICAO / IMO provisions) in some areas

 \boldsymbol{D} – Meets Annex 12 requirements (or other relevant ICAO / IMO provisions) in most areas

E – Fully meets Annex 12 requirements (or other relevant ICAO / IMO provisions).

Such aspects must be responded with simple 'Yes / No'.

The response **'not evaluated'** does not necessarily imply the existence of a shortcoming, and **'not applicable'** might cover important shortcomings. Additionally comments can be included, as required.

| Code | Reference | Aspect to be evaluated | Implementation | Comment | | | | | |
|---------------|---|---|--|---------|--|--|--|--|--|
| | ORGANISATION | | | | | | | | |
| Legislative A | Acts governing nation | onal SAR activities | | | | | | | |
| Org.act.1 | Annex 12 Chap 2 Doc 8733 Doc 9731 Vol I Chap 1 and 5 | Are there legislative acts governing SAR activities? | A B C D E Not applicable Not evaluated | | | | | | |
| Org.act.2 | Annex 12 Chap 2 Doc 8733 Doc 9731 Vol I Chap 1 and 5 | If there are legislative acts governing SAR activities, are they up-to-date? | | | | | | | |
| Org.act.3 | Annex 12 Chap 2 Doc 8733 Doc 9731 Vol I Chap 1 and 5 | Do the above acts organise SAR services in such a way that tasks and responsibilities are precisely and efficiently distributed? | □ B □ C □ D | | | | | | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment |
|------------|--|---|--|---------|
| SAR Plan - | Administrative SAI | R Units | | |
| Org.1 | Annex 12 Chap 2 para 2.2 Doc 9731 Vol I Chap 2 para 2.3.15 | Are SRR and FIR boundaries coincident? | A B C D E Not applicable Not evaluated | |
| Org.2 | Annex 12 Chap 2 para 2.3 Doc 9731 vol I Chap 2 Para 2.3 | Is the State equipped with a RCC? | A B C D E Not applicable Not evaluated | |
| Org.3 | Annex 12 Chap 2 para 2.3 Doc 9731 vol I Chap 2 Para 2.4 | Is the State equipped with one or several RSC? | A B C D E Not applicable Not evaluated | |
| Org.4 | Annex 12 Chap 3 para 3.2 Doc 8733 | Has a SAR point of contact (SPOC) been designated? | | |
| Org.5 | Annex 12 Chap 2 para 2.4 | Are there radio/coastal stations? | A B C D E Not applicable Not evaluated | |
| Org.6 | Annex 12 Chap 2 para 2.4 | If the answer is positive, are radio/coastal stations known and listed? | A B C D E Not applicable Not evaluated | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment |
|-------------|--|--|--|---------|
| National SA | AR Plan | ▲ | • | |
| Org.pla.1 | Doc 9731 Vol I Chap 5 para 5.2 | Is there a national SAR plan? | A B C D E Not applicable Not evaluated | |
| Org.pla.2 | Doc 9731 Vol I Chap 5 para 5.2 | If the answer is positive, is it up-to-date? | A B C D E Not applicable Not evaluated | |
| Organizatio | nal Authorities in cl | harge of SAR Services | | |
| Org.aut.1 | Chap 1 ^{er} para 1.5 | Has the State designated an Authority to be in charge of SAR services coordination? | B | |
| Org.aut.2 | Annex 12 Chap 2 Doc 8733 Doc 9731 Vol I Chap 1 ^{er} para 1.5 Doc 9731 Vol II Chap 1 ^{er} para 1.2 | Does the above Authority have the legal means to discharge its responsibilities? | | |
| SAR Comm | ittee / Civilian – mil | itary coordination | | |
| Org.coo.1 | Doc 9731 Vol I Chap 5 para 5.2 and 5.3 Doc 9731 Vol I Chap 6 para 6.3 | Has a national SAR Committee been established? | | |
| Org.coo.2 | Doc 9731 Vol I Chap 5 para 5.2 and 5.3 Doc 9731 Vol I Chap 6 para 6.3 | Does the SAR national Committee hold regular meetings? | | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment |
|--------------|--|---|--|---------|
| Org.coo.3 | and 5.3 | Does it include representatives of civilian and military Authorities? | □ Yes □ No | |
| | Doc 9731 Vol I Chap 6 para 6.3 | | Not applicableNot evaluated | |
| Notification | of difference(s) to 1 | ICAO Annex 12 | | |
| Org.not.1 | | Has the State notified any difference to ICAO Annex 12? | | |
| SAR data pu | ublished in AIP | | | |
| Org.aip.1 | Annex 12 Chap 3 para 3.3 Doc 8733 Doc 9731 Vol I Chap 4 para 4.5 | Does the State AIP include SAR data? | A B C D E Not applicable Not evaluated | |
| Aviation / m | aritime SAR coordi | ination | | |
| Org.mar.1 | Doc 9731 | Are there maritime SAR services in the State? | ❑Yes ❑ No ❑ Not applicable ❑ Not evaluated | |
| Org.mar.2 | Annex 12 Chap 3 para 3.2 Doc 8733 | Has a coordination mechanism been established between the aviation and maritime SAR services? | □ A □ B □ C | |
| | INTERNA | ATIONAL SAR AGREEMEN | TS AND CONVENTI | ONS |
| Internationa | al SAR related Conv | ventions | | |
| Acc.conv.1 | Not applicable | Has the State ratified the Convention on International Civil Aviation? | □ No | |
| Acc.conv.2 | Not applicable | Has the State ratified the Safety of Life at Sea (SOLAS) Convention? | | |

CAR/SAR WP/02

| Code | Reference | Aspect to be evaluated | Implementation | Comment |
|--------------|---|---|--|---------|
| Acc.conv.3 | Not applicable | Has the State ratified the International Convention on Maritime Search and Rescue? | Yes No Not applicable Not evaluated | |
| Internationa | Il SAR agreements | | | |
| Acc.acc.1 | Annex 12 Chap 3 para 3.1 Resolution A33- 14 Appendix O Doc 8733 Doc 9731 Vol I Chap f ^{er} para 1.6 and 1.7 Doc 9731 Vol I Chap 5 para 5.1 Doc 9731 Vol I Chap 6 para 6.3.6 | | | |
| | | OPERATIONAL PROC | CEDURES | |
| Aerodrome . | Emergency plan | | | |
| Ops.airp.1 | Annex 14 para 9.1 Doc 9731 Vol II Chap 7 para 7.7 | Are international aerodromes equipped with appropriate emergency plans? | B | |
| Ops.airp.2 | | Are domestic aerodromes equipped with appropriate emergency plans? | | |
| Ops.airp.3 | Doc 9731 Vol II Chap 7 para 7.7 | Is there appropriate coordination between SAR and aerodrome services? | | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment | | | |
|--------------|--|--|----------------|---------|--|--|--|
| National En | nergency plan | - | | | | | |
| Ops.org.1 | Not applicable | Has the State enforced regional or national emergency plans? | | | | | |
| National SA | R Manual | | | | | | |
| Ops.man.1 | Doc 9731 Chap 5 para 5.2.11 to 5.2.18 | responsible for SAR | | | | | |
| RCC operati | ions plans | | | | | | |
| Ops.cond.1 | Annex 12 Chap 4 para 4.2 Doc 9731 Vol I Chap 5 para 5.2 Doc 9731 Vol II Chap 1 ^{er} para 1.5 | plans been developed and | | | | | |
| Procedures / | Alerting phase | | | | | | |
| Ops.aller.1 | para 5.2 | Have special procedures dedicated to alerting phases been implemented? | | | | | |
| | FUNDING | | | | | | |
| Fin.mec.1 | Doc 9731 Vol I Chap 5 para 5.4 | Has the State implemented a SAR activities funding mechanism? | | | | | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment |
|--------------|---|--|--|---------|
| Fin.mec.2 | Doc 9731 Vol I Chap 5 para 5.4 | Does this mechanism ensure adequate funding of SAR services complying with international standards? | □ B □ C | |
| | | EQUIPMENTS | 8 | |
| Compliance | with the Air Navig | ation Plan | | |
| Equ.afi.1 | Doc 8733 | Are available equipments in line with the available equipment list of the CAR/SAM Air navigation plan? | | |
| Navigation | means of the SAR u | nits | | |
| Equ.nav.1 | | Are SAR Units equipped with on-board radio direction-finding stations? | | |
| Survival equ | uipments | | | |
| Equ.surv.1 | para 2.6 Doc 9731 Vol I chap 2 para 2.5 Doc 9731 Vol II chap 6 para 6.4 and 6.5 Doc 9731 Vol II appendix G | Are SAR Units equipped with functional survival equipments? | A B C D E Not applicable Not evaluated | |
| RCC / RSC | equipments | | | |
| Equ.rcc.1 | Doc 9731 Vol I Chap 2 para 2.3 Doc 9731 Vol I Chap 5 para 5.2 Doc 9731 Vol II Chap 1 ^{er} para 1.7 | with SAR technical documentation (IAMSAR Manual and other technical | □ B □ C | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment |
|-----------|--|---|--|---------|
| Equ.rcc.2 | Doc 9731 Vol I Chap 2 para 2.7 Doc 9731 Vol II Chap 1 para 1.11 | Are RCC / RSC equipped with computers and SAR dedicated software? | A B C D E Not applicable Not evaluated | |
| Communica | tions | | | |
| Equ.com.1 | Annex 12 Chap 2 para 2.4 Doc 9731 Vol I Chap 4 Doc 9731 Vol II Chap 2 | Is the RCC equipped with adequate communication means with air traffic services? | B | |
| Equ.com.2 | Annex 12 Chap 2 para 2.4 Doc 9731 Vol I Chap 4 Doc 9731 Vol II Chap 2 | adequate communication | A B C D E Not applicable Not evaluated | |
| Equ.com.3 | Annex 12 Chap 2 para 2.4 Doc 9731 Vol I Chap 4 Doc 9731 Vol II Chap 2 | adequate communication means with position fixing and radio direction-finding | □ B □ C | |
| Equ.com.4 | para 2.4 | Is the RCC equipped with adequate communication means with radio/coastal stations? | B | |
| Equ.com.5 | Annex 12 Chap 2 para 2.4 Doc 9731 Vol I Chap 4 Doc 9731 Vol II Chap 2 | adequate communication | | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment |
|------------|--|---|----------------|---------|
| Equ.com.6 | para 2.4 | Is the RCC equipped with adequate communication means with Rescue teams operations centres? | | |
| Equ.com.7 | Annex 12 Chap 2 para 2.4 Doc 9731 Vol I Chap 4 Doc 9731 Vol II Chap 2 | Is the RCC equipped with adequate communication means with adjacent RCCs? | 🗖 B | |
| Equ.com.8 | para 2.4 | Is the RCC equipped with adequate communication means with MET or MET Watch office? | 🗖 B | |
| Equ.com.9 | Annex 12 Chap 2 para 2.4 Doc 9731 Vol I Chap 4 Doc 9731 Vol II Chap 2 | employed on SAR | □ B □ C | |
| Equ.com.10 | para 2.4 | Is the RCC equipped with HF communication means with SAR Units when employed on SAR operations? | □ B □ C | |
| Equ.com.11 | Annex 12 Chap 2 para 2.4 Doc 9731 Vol I Chap 4 Doc 9731 Vol II Chap 2 | when employed on SAR | 🗖 B | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment |
|---------------|--|--|----------------|---------|
| COSPAS / S | SARSAT | | | |
| Equ.cosp.1 | Doc 8733 Doc 9731 Vol II Chap 2 para 2.15 | Is the State managing and updating a database of Cospas-sarsat users registered on its territory? | B | |
| Equ.cosp.2 | II and III; Annex 10, Vol III, Part II, Chapter 5; Annex 10, Vol V, Chapter 2, para 2.1 | | B | |
| Removal of | wreckage | | | |
| Equ.epav.1 | Annex 12 Chap 4 para 4.5 | Is the State equipped with removal of wreckage facilities? | | |
| | | HUMAN RESOUR | RCES | |
| SAR person | nel | | | |
| Rh.per.1 | | Is SAR personnel sufficient and properly trained in the State? | | |
| Training | | | | |
| Current train | | | | |
| Rh.for.1 | Doc 9731 Vol II Chap 1 ^{er} para 1.8 | Is a training plan currently applied to coordinating SAR mission staff? | | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment |
|---------------|--|--|--|---------|
| Rh.for.2 | Doc 9731 Vol II Chap 5 | Is a training plan currently applied to pilots involved in SAR missions? | A B C D E Not applicable Not evaluated | |
| Rh.for.3 | Doc 9731 Vol II Chap 1 ^{er} para 1.8 | Is a training plan currently applied to staff involved in rescue missions? | | |
| Scheduled tr | raining plans | | | |
| Rh.for.4 | Doc 9731 Vol I Chap 6 Doc 9731 Vol II Chap 1 ^{er} para 1.8 | Has a training plan been scheduled for coordinating SAR mission staff? | | |
| Rh.for.5 | Chap 6 | Has a training plan been scheduled for pilots involved in SAR missions? | 🗖 B | |
| Rh.for.6 | Doc 9731 Vol I Chap 6 Doc 9731 Vol II Chap 1 ^{er} para 1.8 | scheduled for staff involved in rescue missions? | B | |
| Qualification | n / certification proc | redure | | |
| Rh.for.7 | Doc 9731 Vol I Chap 6 Doc 9731 Vol II Chap 1 ^{er} para 1.8 | Qualification / certification | B | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment | | | |
|--------------|---|---|--|---------|--|--|--|
| Training ver | Training venue(s) | | | | | | |
| Rh.for.8 | Doc 9731 Vol I Chap 6 Doc 9731 Vol II Chap 1 ^{er} para 1.8 | Have training venues been certified? | A B C D E Not applicable Not evaluated | | | | |
| English lang | guage proficiency | | | | | | |
| Rh.ang.1 | Doc 9731 Vol II Chap 1 ^{er} para 1.8 | Are RCC and RSC staff proficient in the use of the English language? | | | | | |
| | | QUALITY CONTROL / E | XERCISES | | | | |
| Quality cont | trol procedure | | | | | | |
| Qua.proc.1 | para 5.11 | Has the State established a quality control mechanism for its SAR services? | | | | | |
| Exercises | | | | | | | |
| Qua.ex.1 | para 4.4 Doc 8733 Doc 9731 Vol I Chap 3 para 3.3 Doc 9731 Vol II Chap 1 ^{er} para 1.8 | Does the State organize SAR exercises on a regular basis? | B C D E Not applicable Not evaluated | | | | |
| Qua.ex.2 | Doc 8733 Doc 9731 Vol I Chap 3 para 3.3 Doc 9731 Vol II Chap 1 ^{er} para 1.8 | If the answer is yes, are the SAR exercises conducted in conformity with ICAO recommendations? | | | | | |

| Code | Reference | Aspect to be evaluated | Implementation | Comment | | | | |
|-------------|-----------|---|----------------|---------|--|--|--|--|
| SAR actions | | | | | | | | |
| Qua.pha.1 | para 5.11 | Are reports established and critical analysis conducted about passed SAR actions? | B | | | | | |

- END -