



INTERNATIONAL CIVIL AVIATION ORGANIZATION
South American Regional Office

**MEETING FOR SEARCH AND
RESCUE IMPLEMENTATION IN THE
SAM REGION
SAR/SAM**

SUMMARY

Lima, Peru, 6 – 7 December 2019

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TABLE OF CONTENTS

i - Table of contents..... 1

ii - History..... 1

 Place and duration of the event..... 1

 Secretariat 1

 Working languages 1

 Agenda 1

 Attendance 1

1 Summary of the meeting..... 2

2 Conclusions..... 7

Appendix A: Agenda

Appendix B: List of participants

Appendix C: Updated Annex 1 to SAR LOA RCC Cayenne – RCC Georgetown

Appendix D: (Draft) SAR LOA RCC Cayenne – RCC Atlantico

HISTORY

ii-1 PLACE AND DURATION

The Meeting for search and rescue (SAR) implementation in the SAM Region was held at the ICAO South American Regional Office, Lima, Peru, from 6 to 7 December 2019. The meeting was developed after the CAR/SAM regional civil-military cooperation workshop carried out from 2 to 5 December 2019.

ii-2 SECRETARIAT

Mr. Fernando Hermoza, ICAO SAM ATM/SAR RO, acted as Secretariat, who greeted the participants and acknowledged their continuous support to the regional activities undertaken by the South American Regional Office.

ii-3 WORKING LANGUAGES

The working languages of the event were Spanish and English, with simultaneous interpretation services.

ii-5 AGENDA

The agenda is contained in **Appendix A** to this summary.

ii-6 ATTENDANCE

The event was attended by 21 participants from 10 SAM States (Argentina, Bolivia, Brazil, Chile, Guyana, Panama, Paraguay, Peru, Uruguay and Venezuela) and the Territory of French Guiana. The list of participants appears in **Appendix B**.

1 SUMMARY OF THE MEETING

Presentations were made during the Meeting and the following topics were discussed, in accordance with the agenda approved by the Meeting:

1.1 **Obligations of SAM States under the relevant SAR provisions contained in ICAO Annex 2 – Results of the USOAP on SAR matters**

1.1.1 Delegates presented the legal framework and organization of their SAR services, as well as a summary of technical and operational facilities, and their training activities. State presentations are displayed on the website of the Meeting.

1.1.2 The Meeting analysed ICAO's provisions for compliance with Annex 12 SARPS and the regional context of the USOAP audits, agreeing that some aspects identified by that audit need to be improved, as to critical element 8.

1.1.3 It was noted that there is a progressive deactivation of communications facilities in the HF range that is part of the aeronautical mobile service that supports the Alert Service (ALR) especially in ocean airspaces of the SAM Region

1.1.4 This process is not aligned with the Regional Planning, as Doc 8733 and its electronic version (eANP) still keeps the HF communications requirement for these spaces. On this respect the Meeting formulated a Conclusion shown in Part 2 of this Summary.

1.2 **Status of global and regional coordination of the Space system for search of distress vessels (COSPAS) – Search and rescue satellite-aided tracking (SARSAT)**

1.2.1 The COSPAS/SARSAT system improvements were analyzed regarding the implementation of the MEOSAR medium orbit constellation, which improves service coverage at the global level and would later replace the LEOSAR low orbit system. Brazil reported that has extended its LUT stations and currently operates 6 MEOSAR LUT stations.

1.2.2 The new Return Link application was introduced which is supported by the GALILEO constellation component which allows, in case of an emergency, to inform the occupants of the aircraft that the SAR beacon has been detected by COSPAS/SARSAT.

1.2.3 The Meeting highlighted that the functions of the SPOCs points has been effectively organized with the support of other States in charge of a LUT, such as Chile, supporting Paraguay and Uruguay.

1.3 **Global Aeronautical Distress and Safety System - GADSS**

1.3.1 The Meeting analysed the progress made by regarding GADSS that aims to ensure that the aircraft in emergency can be located and assisted by SAR services. It also suggests that black boxes and records of wrecked aircraft can be recovered. The three components of GADSS were identified and analysed; Aircraft tracking, autonomous relief tracking, and subsequent location/recovery.

1.3.2 The content of ICAO Circular 347 was presented with respect to guidelines for aircraft monitoring implementation.

1.4 **The SAM SAR Plan and the Global Air Navigation Plan – GANP, 6th edition – GADS Module**

1.4.1 It was stated that in other regions such as the Caribbean or Asia-Pacific, where there are States conformed by islands or archipelagoes with small FIR/UIR airspaces, it is advantageous to have SAR Regional Plans that promote a common organization for SAR services and ensure adequate geographical coverage of these services.

1.4.2 In the case of the SAM Region, the FIR Regions feature is based on wide airspaces, leading to the need of SAR facilities adequately equipped in each State, making it more necessary to strengthen aspects of cooperation in the case of SAR operations required in the FIR boundary sectors or where support from other international services may be required.

1.4.3 The web version of the Global Air Navigation Plan – GANP 6th Edition (Doc 9750) was examined as its four levels, such as regional and national level. GADS module was analysed and is foreseen to be developed as part of GANP blocks 1 and 2 (2019-2025).

1.4.4 The Meeting agreed on the importance of preparing and training SAR staff in the Region to participate in the development of Volume III of the e-ANP CAR SAM that will address this matter, and then work on the planning of the relevant National Plan. It was highlighted that this is a special module, because it does not include performance indicators. A conclusion on this agenda item was adopted, as shown in part 2 of this summary.

1.5 **National SAR plans**

1.5.1 The need to develop and keep up-to-date aeronautical SAR plans in States and to consider coordination and interaction with other State land and/or maritime search and rescue plans, as well as disaster response or civil defense plans, were highlighted. This coordination enables the most efficient use of the means, equipment and personnel available for SAR.

1.6 **SAR organisation and planning. SAR Letters of agreement (SAR LOAs)**

1.6.1 The States reviewed the status of their international SAR LOAs, and prepared drafts and/or defined the next steps for the signing/amendment/updating of said letters, for which a Conclusion shown in Part 2 was adopted.

1.6.2 A summary on the status of agreements in each State/Territory, follows:

Argentina

SAR agreements with:

- Paraguay 2018
- Brazil 2018
- Uruguay 2019
- Chile 2019
- South Africa 2006
- Bolivia 2003, coordination was made during the meeting and will be renewed in 2020.
- United Kingdom 1991 (for Malvinas Islands)

Bolivia

LOA SAR in force with:

- Paraguay 17 August 2006
- Chile 1 September 2006
- Brazil 1 January 2007
- Argentina 29 August 2008, SAR Cooperation Agreement
- Peru 1 September 2006, coordination was made during the meeting and will be renewed

Brasil

LOA SAR in force (ARCC Curitiba) with:

- Asuncion 2018
- La Paz 2015
- Ezeiza 2019
- Montevideo will be arranged

LOA SAR in force (ARCC Amazonico) with:

- Georgetown 2016
- Lima 2016
- Maiquetia 2016
- Cayenne 2016, telephone numbers updated during the meeting. See further paragraph of French Guiana
- La Paz 2008
- Bogotá will be arranged

Chile

LoA SAR in force with:

- Bolivia 1 September 2006, RCC Antofagasta and RCC Iquique
- Argentina 23 August 2019
- FIR Auckland maritime LOA SAR
- FIR Tahiti maritime LOA SAR
- Uruguay September 1996, RCC Montevideo with CHMCC Santiago
- Perú 1973, SICOFAA agreement
- Paraguay 1996, RCC DINAC, SAR data transferring

French Guiana

LOA SAR with Guyana

- Delegates analysed the status of the SAR Letter of Agreement which requires to be updated in respect of the SAR communications means. See **Appendix C**.

LOA SAR with Brazil

- Delegates reviewed the status of the SAR Letter of Agreement and noted that LOA between Cayenne SSR and Amazonico SRR requires to be updated. See **Appendix D**.
- Delegates agreed on a draft of SAR LOA between Cayenne SRR and Atlantico SRR with a view to continuing discussions for signing a Letter of Agreement shortly.
- In the wake of the SAM/SAT-SAR-3 (22 to 28th, March 1966, Rio de Janeiro), a document was written by Guyana, French Guiana, Suriname and Brazil, setting forth the conditions for entry of each other's search and rescue units into their respective territories, and this agreement should also provide for expediting entry of such units with the least possible formalities during SAR operations. There is no evidence that this high level multilateral agreement was finally signed and if it entered in validity, as only the French unsigned version was retrieved.
- Cayenne RCC will coordinate with the State bodies of Defense, Foreign Affairs and the civil Aviation Authorities to update or review this document.
- Suriname RSC June 2019, Technical agreement (RCC/RSC)
- Trinidad y Tobago Not available, foreseen for 2020
- Senegal 2016, LOA SAR. Additionally, in August 1998, Technical agreements

Guyana

LOA SAR with:

- Brazil 2016, ARCC Amazonico
- Venezuela Was coordinated during the Meeting by delegates
- Suriname Covered by French Guiana SAR
- Trinidad & Tabago pending.
- French Guiana Delegates reviewed the status of the letter of agreement that need to be updated. **See Appendix C**

LOA SAR with:

- Colombia 1973, SICOFAA, coordination with Aerocivil is expected
- COCESNA LOA in force
- Jamaica Legal aspects in coordination at present.

Paraguay

LOA SAR with:

- Argentina 28 November 2018
- Brazil 30 July 2019
- Chile 1996, SAR data transferring
- Bolivia pending
- Uruguay pending

Peru

SICOFAA Agreement, 1973

- Bolivia
- Brazil
- Chile
- Ecuador
- Colombia

Note. – SAR drills has been Schedule for 2020 with neighbor States.

Uruguay

LOA SAR with:

- Argentina 2019
- Brazil will be arranged
- Chile September 1996, RCC Montevideo with CHMCC Santiago
- South Africa 19 November 2010

Venezuela

LOA SAR with:

- ARCC Amazonico 22 August 2008
- RCC Bogota pending
- RCC Barranquilla pending
- RCC Georgetown pending
- RCC San Juan pending
- RCC Piarco pending
- RCC Curacao pending

1.7 **Regional implementation of SAR drills**

1.7.1 The Meeting identified the need to form a Task Force to promote, among others matters, the implementation of SAR drills at intraregional and interregional (SAM-CAR) level, as described in the following paragraph.

1.8 **Formation of a Regional SAR Task Force (SARSAM/TF)**

1.8.1 Participant States set a SAR Task Force (SARSAM/TF) for the Region that will operate through virtual meetings and/or teleconferences.

1.8.2 The Meeting unanimously elected the delegate of Argentina, Mr. Roberto Gomez, as Rapporteur of the Task Force. The proposal for Terms of Reference (ToR) and the Work

Plan (WP) must be coordinated to be approved at the first teleconference to be carried out on 18 March 2020 at 1400 UTC. The Secretary was responsible for supporting the group's activities, and scheduling teleconferences. Part 2 of this Summary shows the respective conclusion.

1.8.3 It was agreed that the Task Force is open and can incorporate States, Territories, SAR providers and organizations that requires so.

1.9 Other SAR matters

1.9.1 No more SAR matters were discussed.

2 CONCLUSIONS

2.1 Based on the aforementioned analysis and discussions of the Meeting set out above, the following four Conclusions were formulated and approved:

CONCLUSION SAR/SAM-1 Aeronautical communications to facilitate the alert service and the aeronautical search and rescue service	
That: The SAM States/Territory review compliance with the communication requirements of the aeronautical mobile service specified in the CAR/SAM Regional Air Navigation Plan (e-ANP) for the FIRs that cover oceanic and/or remote airspaces, with emphasis on the availability of HF communications in alert services (ALR), and assess, through the Civil Aviation Authority, the implementation of improvements regarding requirements on the use of HF receivers in avionics.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Interregional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To have efficient alert services, and ensure compliance with the SARPs of ICAO Annex 12, the IAMSAR Manual, and the CAR/SAM Regional air navigation plan (e-ANP)	
When: Immediately	Status: Adopted by SAR/SAM
Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Others: Users/Industry	

CONCLUSION SAR/SAM-2 Implementation of the GANP GADS Module	
<p>That:</p> <p>The SAR services of the SAM States/Territory establish planning activities for the implementation of the elements of the GADS module, blocks 1 and 2, coordinating with the focal point designated by the Civil Aviation administration to conduct the tasks of the Regional and National Air Navigation Plans.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Interregional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
<p>Why: To promote regional and national planning and implementation of the GADS module of the GANP, 6th edition, in line with Volume III of the e-ANP CAR/SAM, and as stipulated in the National Air Navigation Plan of each State.</p>	
<p>When: Period 2020-2024</p>	<p>Status: Adopted by SAR/SAM</p>
<p>Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Others: Users/Industry</p>	

CONCLUSION SAR/SAM-3 International SAR Letters of Agreement	
<p>That:</p> <p>SAR services in SAM States/Territory analyse the status of their International SAR Letters of Agreement and, on the basis of that analysis, coordinate with the State bodies of Defence, Foreign Affairs, the Civil Aviation Authority or others involved, the action to be taken for the subscription, updating or review of the SAR letters of agreement with neighbouring States/Territory.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Interregional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
<p>Why: To comply with the SARPs of ICAO Annex 12 and the guidance contained in the IAMSAR Manual, in order to ensure coordination of SAR services between neighbouring States.</p>	
<p>When: Period 2020-2021</p>	<p>Status: Adopted by SAR/SAM</p>
<p>Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Others: Users/Industry</p>	

CONCLUSION SAR/SAM-4 SAM SAR Task Force (SARSAM/TF)	
<p>That:</p> <p>The SAR services of the SAM States/Territory establish a SAR Task Force (SARSAM/TF) to operate based on virtual meetings and teleconferences. The designated rapporteur shall coordinate with the group the proposed terms of references (TOR) and work plan (WP), to be approved at the first teleconference in 2020, to be carried out on 18 March 2020 at 1400 UTC.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Interregional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
<p>Why: To organise and/or coordinate regional and interregional activities to facilitate compliance with the SARPs of ICAO Annex 12, the IAMSAR Manual and the CAR/SAM Air Navigation Plan.</p>	
<p>When: Immediately</p>	<p>Status: Adopted by SAR/SAM</p>
<p>Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input type="checkbox"/> Others: Users/Industry</p>	

- END -

MEETING FOR SEARCH AND RESCUE (SAR) IMPLEMENTATION IN THE SAM REGION**Lima, Peru, 6 – 7 December 2019****PROVISIONAL AGENDA****1. Regional and Global affairs in Search and Rescue (SAR)**

- 1.1 Responsibilities of SAM States under relevant SAR provisions from ICAO Annex 12
USOAP results in SAR matters
- 1.2 Global and Regional coordination status of the (Space System for the Search of Distressed
Vessels (COSPAS), and SARSAT (Search & Rescue Satellite Aided Tracking System)
- 1.3 SAM Regional SAR Plan
- 1.4 Local SAR Plans

2. SAR Agreements

- 2.1 SAR Organizations and planning. SAR Letters of agreement (LOA)
- 2.2 Regional implementation of SAR exercises
- 2.3 Operational concept of the Global Aeronautical Distress and Safety System (GADSS)
- 2.4 Global Air Navigation Plan – GANP 6th Edition. Module GADS

3. Other Matters

Tentative Programme

Hour	Session Day 1 Friday, 6 December 2019
0800-0900	Registration of participants
0900-0930	Opening session
0930-1020	Responsibilities of SAM States under relevant SAR provisions from ICAO Annex 12 USOAP results in SAR matters
1020-1040	Pause
1040-1230	Global and Regional coordination status of the (Space System for the Search of Distressed Vessels (COSPAS), and SARSAT (Search & Rescue Satellite Aided Tracking System)
1230-1330	Pause
1330-1430	SAM Regional SAR Plan
1430-1530	Local SAR Plans
1530-1550	Pause
1550-1650	SAR Organizations and planning. SAR Letters of agreement (LOA)

Hour	Session Day 2 Saturday, 7 December 2019
0900-1030	Operational concept of the Global Aeronautical Distress and Safety System (GADSS)
1030 -1100	Pause
1100 -1210	Global Air Navigation Plan – GANP 6th Edition. Module GADS
1210-1320	Other SAR matters
1320	Closure

- END -

LISTA DE PARTICIPANTES / LIST OF PARTICIPANTS**ARGENTINA**

1. Roberto Julio Gomez

BOLIVIA

2. Daniel Cacio Bustamante Leyton

BRASIL / BRAZIL

3. Fabio Cesar Silva de Oliveira
4. Manoel Antonio Lopes Tavares

CHILE

5. Osvaldo E. Alvarado
6. Maximiliano A. Cortes

FRENCH GUIANA

7. Frederic Danloux

GUYANA

8. Roy Sookhoo

PANAMÁ

9. Sergio Emilio Rodríguez Pretelt

PARAGUAY

10. Liz Rocío Portillo Castellanos
11. Estela Martinez
12. Fabio Gomez

PERÚ

13. Jose Víctor Mondragón Hernández
14. Francisco Javier Burgos Zavaleta
15. Eriko Gustavo Mauricio Jaramillo
16. Luis Espino Suarez
17. Jorge Eduardo Merino Rodríguez

URUGUAY

18. Mauro Urruty
19. Esteban Poiso

VENEZUELA

20. Caleb Castro Cruz
21. Juan Arias

OACI

22. Fernando Hermoza Hubner

SEARCH AND RESCUE INTERNATIONAL AGREEMENT BETWEEN
GEORGETOWN RCC / GUYANA AND CAYENNE RCC / FRENCH GUIANA

ANNEX 1

MEANS OF SAR COMMUNICATIONS

MEAN	GEORGETOWN RCC	CAYENNE RCC
REDDIG	9051(ACC)	9254 (ACC) 9255 (ACC)
TELEPHONE NUMBERS	+592 261 4356(RCC)	+594 594 357 200 +594 594 359 373
FAX	+592 261 2279	+594 594 357 273
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CELLULAR	+592 685 4271 +592 608 5545(MANAGER ATM)	+594 694 916262 (DUTY OFFICER) +594 694 204208 (HEAD OF CAYENNE CENTER)
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SEARCH AND RESCUE LETTER OF AGREEMENT BETWEEN
ATLANTICO RCC / BRAZIL AND
CAYENNE RCC / FRENCH GUIANA
(DRAFT)

1- INTRODUCTION

In order to execute the norms and recommended methods of the International Civil Aviation Organization (OACI), related to the benefit of help among the SAR services of neighboring States, the SAR services of Atlantico RCC /Brazil and Cayenne RCC / French Guiana, agree to establish direct communications for SAR coordination purposes.

2- EFFECTIVE DATE

The present Operational Agreement will enter in validity **1st January 2020**

3- OBJECTIVE

The objective of this Letter of Agreement is to establish procedures for direct communications between Atlantico and Cayenne Rescue Coordination Centers (RCC), according to the conclusions of the SAM/SAR Meeting for Search and Rescue Implementation for the South America Region, carried out from 6 until 7 December of 2019, in Lima.

4- REACH

The procedures contained in this Letter of Agreement have the purpose of giving fluency and effectiveness to the coordination between Atlantico RCC and Cayenne RCC. These RCC will establish the necessary coordination on the operations of Search and Rescue that are developed along their common national frontiers, using for this systems presented in Annex 1 to this Letter of Agreement. This Annex will be updated directly by the involved RCC, whenever alterations arise in the presented data.

5- TERMS OF THE AGREEMENT

- The Coordination between Atlantico RCC and Cayenne RCC will be executed in accordance with the norms, recommended methods and foreseen procedures of the IAMSAR manual.
- The assigned RCCs will have the obligation to acknowledge of receipt and to give answer to the outlined information.
- The language to be used is English.
- Each RCC will notify any damage in its systems and should inform the other RCC, in what way they will keep the communications while this damage is repaired.
- The signer RCCs commit to maintain the teams and the necessary technology for the good operation of this agreement.
- The authorities responsible for the SAR Services of each State, or people designated by them, will execute the revision of the present agreement during the realization of the meetings of the Regions (SAM), or when any of the parts consider it as necessary.

6- INFORMATIONS TO BE EXCHANGED BETWEEN THE ASSIGNED RCC'S

- Interceptions or escort of aircrafts in situations of declared emergency.
- Situation of emergency of retarded aircrafts or any other event.
- Alerts of civil aircrafts.
- Means to support SAR missions.
- SAR events.
- Emergencies declared by transponder code of aircrafts.
- COSPAS –SARSAT System Alerts.

- Air transportation of sick and injured persons.
- Procedures for aircrafts crossing, in attention to emergencies and SAR cases.
- Natural disasters.
- Coordination to carry out Search and Rescue Operations.

7 - REVISION

The present Letter of Agreement will be revised when the procedures indicated on it are affected by amendments to the norms, recommended methods, regional procedures implanted by the OACI, or when new communications means are enabled and can affect these procedures. In the case that changes arise in the regulations of the OACI, the Atlantico RCC or Cayenne RCC will initiate the amendment of this agreement.

8- PUBLICATIONS

The dissemination of the present agreement will be carried out as they are required to each State resolution.

9- CANCELLATION

The cancellation of the present Agreement will be made when some of the parts consider it this way and should make the necessary notification in writing.

10- VALIDITY

The present Operational Agreement will be in validity from its signature, by the corresponding authorities.

SIGNATURES

<p>FRENCH GUYANA REPRESENTATIVE</p>	<p>BRAZIL REPRESENTATIVE</p>
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SEARCH AND RESCUE INTERNATIONAL AGREEMENT
BETWEEN ATLANTICO RCC / BRAZIL AND CAYENNE RCC /
FRENCH GUIANA

ANNEX 1

MEANS OF SAR COMMUNICATIONS

MEAN	ATLANTICO RCC	CAYENNE RCC
REDDIG	----	9254 (ACC) 9255 (ACC)
TELEPHONE NUMBERS	+55 81 2129 8102	+594 594 357 200 +594 594 359 373
FAX	+55 81 3462 4927	+594 594 357 273
SPOC	BRMCC +55 61 3364 8395 +55 61 3365 2964	(MRCC - CROSS/AG, MARTINIQUE FWI) +596 596 709 292
CELLULAR	+55 81 8814 4275	+594 694 916262 (DUTY OFFICER) +594 694 204208 (HEAD OF CAYENNE CENTER)
AMHS/AFTN	SBAOYCYX	SOOOYCYX
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