



**Twentieth Meeting of the CAR/SAM Regional Planning and Implementation Group  
 (GREPECAS/20)**

Salvador, Brazil, 16 – 18 November 2022

**Agenda Item 2: Global and Regional Developments**  
 2.3 Programmes and Projects Progress Report

**SAR IMPLEMENTATION SUPPORT PROJECT IN THE CAR/SAM REGIONS**

(Presented by the Secretariat)

| <b>EXECUTIVE SUMMARY</b>   |  |
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| <p>This Working Paper presents the proposal for a project to support SAR implementation in the CAR/SAM Regions, as an interregional collaboration and work initiative for the implementation of Search and Rescue (SAR) services in the CAR/SAM Regions.</p> |  |
| <b>Action:</b>   | Suggested actions are presented in Section 5   |
| <i>Strategic Objectives:</i>   | <ul style="list-style-type: none"> <li>• Air Navigation Capacity and Efficiency</li> </ul>   |
| <i>References:</i>   | <ul style="list-style-type: none"> <li>• Chicago Convention</li> <li>• Annex 12 – Search and Rescue</li> <li>• GREPECAS Procedural Handbook</li> <li>• Final Report of the Nineteenth Meeting of the CAR/SAM Planning and Implementation Regional Group (GREPECAS/19), Online, October 27 – 29, 2021</li> <li>• Draft Report of the Third Meeting of the Search and Rescue (SAR) Task Force of the North American, Central American and Caribbean Working Group (NACC/WG/SAR/TF/3), ICAO NACC Regional Office and online, Mexico City, Mexico, October 17-19, 2022.</li> </ul> |

**1. Introduction**

1.1 Search and Rescue (SAR) services constitute an essential part of Air Navigation Services (ANS), reflected as part of the commitments of the Contracting States of the Chicago Convention.

1.2 The proper establishment of SAR services represents an important means of protecting the lives of those who use aviation as a means of transportation. Additionally, the availability of SAR resources often provides a critical initial response and life-saving relief capability in the early stages of a natural or man-made disaster. Therefore, SAR services are sometimes part of a local, national or regional emergency management system.

## **2. Background**

2.1 The CAR/SAM Regional Planning and Execution Group (GREPECAS) is responsible for the development and maintenance of air navigation plans and provides for the planning and implementation of air navigation systems within specific areas, in accordance with the planning frameworks agreed at global and regional level.

2.2 The GREPECAS is the guidance and coordination body for all activities carried out by ICAO in relation to the air navigation system for the CAR/SAM Regions and its activities are subject to review by the ICAO Council. In other words, it is through GREPECAS that the ICAO Council is informed about the development and implementation of specific issues for air navigation, as well as the regional and emerging air navigation challenges experienced that affect the implementation of the provisions. ICAO Global Guidelines by States and the measures taken or recommended to address them effectively.

2.3 GREPECAS/19/04 Conclusion instructed the ICAO NACC and SAM Regional Offices to evaluate the current challenges regarding the provision of SAR services in the CAR/SAM Regions, identify opportunities for improvement in order to promote the joint work of the SAR between the CAR/SAM Regions and develop a Project proposal that supports SAR activities, for consideration by GREPECAS at the GREPECAS/20 Meeting.

## **3. Analysis**

3.1 The CAR/SAM Regions have experienced significant growth in the flow of operations, as well as in infrastructure and support services for air navigation. Eventually, this expansion has not seen in the provision of SAR services an attention comparable to that of other areas of air navigation.

3.2 In addition, the activities of the Regional Offices for assistance and monitoring of the implementation of SAR services have been significantly reduced in recent years. The support of the States for the participation of their SAR experts has been diminished, leaving very few fora available in which the main issues concerning this service can be discussed, as well as the development of joint collaboration and integration strategies.

3.3 The CAR and SAM Regions have their implementation mechanisms for air navigation, which attend to the implementation of SAR services, separately. GREPECAS would be the ideal means to promote the harmonization of the CAR/SAM Regions in SAR matters.

## **4. Conclusions**

4.1 The Search and Rescue Task Force (SAR/TF) of the North American, Central American and Caribbean Working Group (NACC/WG) considered that interregional linkage with the SAM Region would be a necessity, due to the nature of SAR provision.

4.2 The approval of a SAR project in GREPECAS will enable greater visibility and support for related activities, communicating more objectively to the ICAO Council the progress of SAR implementation in the CAR/SAM Regions. In the same sense, a higher level support will be promoted to meet the signing of SAR agreements. The SAR project proposal is presented in the **Appendix** to this working paper.

**5. Suggested actions**

5.1 The Meeting is invited to:

- a) support the conclusions shown in section 4;
- b) request GREPECAS consensus on the project proposal found in the Appendix, so that it can be submitted for approval by the Programmes and Projects Review Committee(PPRC); and
- c) take any additional action deemed necessary.

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**APÉNDICE/APPENDIX**

**SAR IMPLEMENTATION PROJECTS FOR CAR AND SAM REGIONS/  
PROYECTOS DE IMPLEMENTACIÓN SAR PARA LAS REGIONES CAR Y SAM**

| <i>CAR Region /<br/>Región CAR</i>   | <b>PROJECT DESCRIPTION / DESCRIPCION DEL PROYECTO (DP)</b>   | <b>DP N° XX</b>             |                            |
|--|--|-----------------------------|----------------------------|
| <i>Programme /<br/>Programa</i>  | <b>Title of the Project / Título del Proyecto</b>  | <b>Start / Fecha inicio</b> | <b>End / Fecha término</b> |
| <i>SAR Implementation/<br/>Implementación SAR</i><br>(Programme<br>Coordinator /<br>Coordinador del<br>Programa:<br>Eddian Méndez) | <i>SAR Implementation/<br/>Implementación SAR</i><br><br>Project Coordinator / Coordinador del Proyecto:<br>Calvin Zúniga (COCESNA)  | 2023                        | 2026                       |
| <b>Objective /<br/>Objetivo</b>  | Support the SAR implementation based on the requirements of Annex 12 and the CAR/SAM Regional Air Navigation Plan/<br>Apoyar la implementación SAR con base en los requisitos del Anexo 12 y el Plan Regional de Navegación Aérea CAR/SAM.   |                             |                            |
| <b>Scope /<br/>Alcance</b>   | Implementation of the elements of the search and rescue system that allow to ensure an effective response when the activation of these services is required, promoting continuous improvement towards an efficient use of available resources./<br>Implementación de los elementos del Sistema de búsqueda y salvamento que permitan asegurar una respuesta eficaz cuando la activación de estos servicios sea requerida, promoviendo la mejora continua hacia un uso eficiente de los recursos disponibles.   |                             |                            |
| <b>Metrics /<br/>Métricas</b>  | <ul style="list-style-type: none"> <li>• % of States that have arranged for the establishment and provision of SAR services within its territory and the areas where the State has accepted responsibility to provide SAR on a 24-hour basis in accordance with Annex 12 provisions/ % de Estados que han hecho arreglos para el establecimiento y suministro de servicios SAR dentro de su territorio y las áreas donde el Estado ha aceptado la responsabilidad de proporcionar SAR las 24 horas del día de conformidad con las disposiciones del Anexo 12.</li> <li>• % of States with established RCC or, as applicable, an RSC in each search and rescue region (SRR)/ % de Estados con RCC establecido o, según corresponda, un RSC en cada región de búsqueda y salvamento (SRR).</li> <li>• % of States that have prepared detailed plans of operation for the conduct of SAR operations/% de Estados que han preparado planes de operación detallados para la realización de operaciones SAR.</li> <li>• % of States with operational coordination SAR agreements between their SAR Organization and their neighboring States SAR Organizations/% de Estados con acuerdos SAR de coordinación operativa entre su Organización SAR y las Organizaciones SAR de sus Estados vecinos.</li> </ul> |                             |                            |

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| <p><b>Strategy /<br/>Estrategia</b></p>                         | <p>The implementation activities will be coordinated between Project members, the Project Coordinator and the Programme Coordinator. The Programme Coordinator will coordinate with the Project Coordinator requirements of other projects and NAM/CAR implementation working groups. Experts nominated by States, Territories and International Organizations will be incorporated, as required. /<br/>La ejecución de las actividades será coordinada entre miembros del Proyecto, el Coordinador del Proyecto y el Coordinador del Programa. El coordinador del Programa coordinará con el Coordinador del Proyecto los requerimientos de otros proyectos y Grupos de Trabajo de Implementación NAM/CAR. Se incorporarán expertos nominados por los Estados, Territorios y Organizaciones Internacional, según sea requerido.</p>   |
| <p><b>Targets /<br/>Metas</b></p>                               | <p>80 % of States that have arranged for the establishment and provision of SAR services within its territory and the areas where the State has accepted responsibility to provide SAR on a 24-hour basis in accordance with Annex 12 provisions/ 80 % de Estados que han hecho arreglos para el establecimiento y suministro de servicios SAR dentro de su territorio y las áreas donde el Estado ha aceptado la responsabilidad de proporcionar SAR las 24 horas del día de conformidad con las disposiciones del Anexo 12.</p> <p>80 % of States with established RCC or, as applicable, an RSC in each search and rescue region (SRR)/ 80 % de Estados con RCC establecido o, según corresponda, un RSC en cada región de búsqueda y salvamento (SRR).</p> <p>80 % of States that have prepared detailed plans of operation for the conduct of SAR operations/ 80 % de Estados que han preparado planes de operación detallados para la realización de operaciones SAR.</p> <p>60 % of States with operational coordination SAR agreements between their SAR Organization and their neighboring States SAR Organizations/60 % de Estados con acuerdos SAR de coordinación operativa entre su Organización SAR y las Organizaciones SAR de sus Estados vecinos.</p> |
| <p><b>Justification /<br/>Justificación</b></p>                 | <p>The CAR/SAM ANP includes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of search and rescue (SAR) facilities and services in the Caribbean and South American regions and the assignment of responsibilities to States for the provision of SAR facilities and services within the ICAO CAR and SAM Regions in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300). As such, GREPECAS must provide adequate monitoring and regional support.<br/>El ANP CAR/SAM incluye los requisitos regionales acordados que se consideran los mínimos necesarios para la planificación e implementación efectiva de las instalaciones y servicios de búsqueda y salvamento (SAR) en las regiones del Caribe y Sudamérica y la asignación de responsabilidades a los Estados para la provisión de instalaciones y servicios SAR dentro de las regiones CAR/SAM de la OACI de conformidad con el Artículo 28 del Convenio sobre Aviación Civil Internacional (Doc 7300). Como tal, GREPECAS debe brindar un adecuado seguimiento y apoyo regional.</p>  |
| <p><b>Related Projects /<br/>Proyectos<br/>relacionados</b></p> | <p>No related Project is currently identified.<br/><i>Actualmente no se identifica proyectos relacionados.</i></p>   |

| Entregables del Proyecto   | Relación con el Plan Mundial de navegación aérea | Responsable | Estado de Implantación* | Fecha entrega | Comentarios |
|--|--|-------------|-------------------------|---------------|-------------|
| <p>Plan de acción para fortalecer la operación H24 de los servicios SAR así como otras materias consideradas en los Bloques básicos constitutivos (BBB)</p> <p>Action plan to strengthen the H24 operation of SAR services as well as other matters considered as Basic Building Blocks (BBB).</p> | <p>GADS-B1<br/>GADS-B2</p>                       |             |                         |               |             |
| <p>Actividades para actualizar y fortalecer los Planes de operación SAR de los Estados</p> <p>Activities to update and strengthen SAR Operation Plans of States</p>  | <p>GADS-B1<br/>GADS-B2</p>                       |             |                         |               |             |
| <p>Actividades para actualizar y /o suscribir acuerdos/procedimientos de coordinación operativa entre organizaciones SAR adyacentes.</p> <p>Activities to update and/or sign operational coordination agreements/procedures between adjacent SAR organizations.</p>                                | <p>GADS-B1<br/>GADS-B2</p>                       |             |                         |               |             |

| <i>SAM Region /<br/>Región SAM</i>  | <b>PROJECT DESCRIPTION / DESCRIPCION DEL PROYECTO (DP)</b>   | <b>DP N° XX</b>             |                            |
|---|--|-----------------------------|----------------------------|
| <i>Programme /<br/>Programa</i>   | <b>Title of the Project / Título del Proyecto</b>  | <b>Start / Fecha inicio</b> | <b>End / Fecha término</b> |
| SAR Implementation/<br><i>Implementación SAR</i><br>(Programme<br>Coordinators /<br><i>Coordinadores del<br/>Programa:</i><br>Fernando Hermoza &<br>Roberto Sosa) | SAR Implementation/<br><i>Implementación SAR</i><br><br>Project Coordinator / <i>Coordinador del Proyecto:</i><br><br><b><i>SAM region's Delegate (TBD)</i></b>  | 2023                        | 2026                       |
| <b>Objective /<br/>Objetivo</b>   | Support the SAR implementation based on the requirements of Annex 12 and the CAR/SAM Regional Air Navigation Plan<br><i>Apoyar la implementación SAR con base en los requisitos del Anexo 12 y el Plan Regional de Navegación Aérea CAR/SAM.</i>   |                             |                            |
| <b>Scope /<br/>Alcance</b>  | Implementation of the elements of the search and rescue system that allow ensuring an effective response when the activation of these services is required, promoting continuous improvement towards an efficient use of available resources.<br><br><i>Implementación de los elementos del Sistema de búsqueda y salvamento que permitan asegurar una respuesta eficaz cuando la activación de estos servicios sea requerida, promoviendo la mejora continua hacia un uso eficiente de los recursos disponibles.</i>  |                             |                            |
| <b>Metrics /<br/>Métricas</b>   | <ul style="list-style-type: none"> <li>• % of States that have arranged for the establishment and provision of SAR services within its territory and the areas where the State has accepted responsibility to provide SAR on a 24-hour basis in accordance with Annex 12 provisions</li> <li>• % of States with established RCC or, as applicable, an RSC in each search and rescue region (SRR)</li> <li>• % of States that have prepared detailed plans of operation for the conduct of SAR operations</li> <li>• % of States with operational coordination LOA/MOU between their SAR Organization and their neighboring States SAR Organizations.</li> </ul> <ul style="list-style-type: none"> <li>• <i>% de Estados que han hecho arreglos para el establecimiento y suministro de servicios SAR dentro de su territorio y las áreas donde el Estado ha aceptado la responsabilidad de proporcionar SAR las 24 horas del día de conformidad con las disposiciones del Anexo 12.</i></li> <li>• <i>% de Estados con RCC establecido o, según corresponda, un RSC en cada región de búsqueda y salvamento (SRR).</i></li> <li>• <i>% de Estados que han preparado planes de operación detallados para la realización de operaciones SAR.</i></li> <li>• <i>% de Estados con LOA/MOU de coordinación operativa entre su Organización SAR y las Organizaciones SAR de sus Estados vecinos.</i></li> </ul> |                             |                            |

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| <p><b>Strategy /<br/>Estrategia</b></p>                         | <p>The implementation activities will be coordinated between Project members, the Project Coordinator and the Programme Coordinator. The Programme Coordinator will coordinate with the Project Coordinator requirements of other projects and NAM/CAR implementation working groups. Experts nominated by States, Territories and International Organizations will be incorporated, as required.</p> <p><i>La ejecución de las actividades será coordinada entre miembros del Proyecto, el Coordinador del Proyecto y el Coordinador del Programa. El coordinador del Programa coordinará con el Coordinador del Proyecto los requerimientos de otros proyectos y Grupos de Trabajo de Implementación NAM/CAR. Se incorporarán expertos nominados por los Estados, Territorios y Organizaciones Internacional, según sea requerido.</i></p>  |
| <p><b>Targets /<br/>Metas</b></p>                               | <p>85% of States that have arranged for the establishment and provision of SAR services within its territory and the areas where the State has accepted responsibility to provide SAR on a 24-hour basis in accordance with Annex 12 provisions.<br/> 85 % of States with established RCC or, as applicable, an RSC in each search and rescue region (SRR)<br/> 85 % of States that have prepared detailed plans of operation for the conduct of SAR operations<br/> 70 % of States with operational coordination SAR agreements between their SAR Organization and their neighboring States SAR Organizations.</p> <p><i>85 % de Estados que han hecho arreglos para el establecimiento y suministro de servicios SAR dentro de su territorio y las áreas donde el Estado ha aceptado la responsabilidad de proporcionar SAR las 24 horas del día de conformidad con las disposiciones del Anexo 12.<br/> 85 % de Estados con RCC establecido o, según corresponda, un RSC en cada región de búsqueda y salvamento (SRR).<br/> 85 % de Estados que han preparado planes de operación detallados para la realización de operaciones SAR.<br/> 70 % de Estados con acuerdos SAR de coordinación operativa entre su Organización SAR y las Organizaciones SAR de sus Estados vecinos.</i></p> |
| <p><b>Justification /<br/>Justificación</b></p>                 | <p>The CAR/SAM ANP includes the agreed regional requirements considered to be the minimum necessary for effective planning and implementation of search and rescue (SAR) facilities and services in the Caribbean and South American regions and the assignment of responsibilities to States for the provision of SAR facilities and services within the ICAO CAR and SAM Regions in accordance with Article 28 of the Convention on International Civil Aviation (Doc 7300). As such, GREPECAS must provide adequate monitoring and regional support.</p> <p><i>El ANP CAR/SAM incluye los requisitos regionales acordados que se consideran los mínimos necesarios para la planificación e implementación efectiva de las instalaciones y servicios de búsqueda y salvamento (SAR) en las regiones del Caribe y Sudamérica y la asignación de responsabilidades a los Estados para la provisión de instalaciones y servicios SAR dentro de las regiones CAR/SAM de la OACI de conformidad con el Artículo 28 del Convenio sobre Aviación Civil Internacional (Doc 7300). Como tal, GREPECAS debe brindar un adecuado seguimiento y apoyo regional.</i></p>   |
| <p><b>Related Projects /<br/>Proyectos<br/>relacionados</b></p> | <p>No related Project is currently identified.</p> <p><i>Actualmente no se identifica proyectos relacionados.</i></p>   |



| Entregables del Proyecto   | Relación con el Plan Mundial de navegación aérea | Responsable | Estado de Implantación* | Fecha entrega | Comentarios |
|--|--|-------------|-------------------------|---------------|-------------|
| <p>Plan de acción para fortalecer la operación H24 de los servicios SAR así como otras materias consideradas en los Bloques básicos constitutivos (BBB)</p> <p>Action plan to strengthen the H24 operation of SAR services as well as other matters considered as Basic Building Blocks (BBB).</p> | <p>GADS-B1<br/>GADS-B2</p>                       |             |                         |               |             |
| <p>Actividades para actualizar y fortalecer los Planes de operación SAR de los Estados</p> <p>Activities to update and strengthen SAR Operation Plans of States</p>  | <p>GADS-B1<br/>GADS-B2</p>                       |             |                         |               |             |
| <p>Actividades para actualizar y /o suscribir acuerdos/procedimientos de coordinación operativa entre organizaciones SAR adyacentes.</p> <p>Activities to update and/or sign operational coordination agreements/procedures between adjacent SAR organizations.</p>                                | <p>GADS-B1<br/>GADS-B2</p>                       |             |                         |               |             |