



**SAM/AIM/14**

**INTERNATIONAL CIVIL AVIATION ORGANIZATION  
SOUTH AMERICAN REGIONAL OFFICE**

**FOURTEENTH MULTILATERAL WORKSHOP/MEETING OF THE  
SAM REGION FOR THE TRANSITION OF AIS TO AIM  
(SAM/AIM/14)**

**FINAL REPORT**

**Virtual, 6 to 10 September 2021**

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## **HISTORY OF THE MEETING**

### **ii-1 PLACE AND DURATION OF THE MEETING**

The Fourteenth Multilateral Workshop/Meeting of the SAM Region for the transition of AIS to AIM (SAM/AIM/14) was virtually held, from 6 to 10 September 2021.

### **ii-2 OPENING CEREMONY AND OTHER MATTERS**

Mr. Fabio Rabbani, Regional Director of the ICAO South American Regional Office (SAM), welcomed all the delegates of the States and the representatives of the organizations and the industry present. Likewise, he reiterated his gratitude for the continuous support to the regional activities undertaken by the Regional Office,

It was highlighted that the condition of the COVID-19 pandemic forces us to reconvert ourselves and look for means that allow us to carry out the follow-up of the implementations and the construction of capacities in the AIM area.

The Secretariat has sought alternatives to continue supporting the States in the preparation of the implementation of Phase II of the “Roadmap for the transition from AIS to AIM”, and to follow up on the Implementation Plans of the Management of Aeronautical Information; which has undergone an unprecedented global scenario change, and considered using the technologies applicable to communication in real time in multimedia support and carried out the present meeting in virtual mode.

The Meeting agreed that carrying out a virtual meeting is a challenge, but at the same time it has been a great opportunity to achieve greater participation by the delegates of all the States of the SAM-AIM Region who, due to financial resources, are limited before a face-to-face meeting.

After observing that the planned agenda has been developed in this modality, and the participation of the States and invited experts has been excellent, both orally, visually and documentary; all in real time, the Meeting agreed that once the current contingent crisis generated by the SARS2-CoV has been overcome, priority should be given to face-to-face meetings, and at the same time continue with this virtual modality, simultaneously, for which the organization of the event will determine the rules and scope of the proposed new virtual part, guaranteeing the normal distribution of documents, presentations, chat for virtual participants, and recordings of the corresponding sessions.

The Meeting appreciates the contribution made by the industry (GroupEAD, M-AIS, ATECH and IFAIMA), through the presentations that made mention of e-AIP, Digital Data Set, Data Catalog, Strategies for the transition to e-AIP and SWIM).

ii-3        **SCHEDULE, ORGANISATION, WORKING METHODS, OFFICERS AND SECRETARIAT**

The Meeting agreed to hold its sessions from 08:00 to 14:00, with appropriate breaks.

Mrs. Ivette Iturrado acted as president and moderator of the Workshop/Meeting and Mr. Jorge Armoa Cañete, AIM/MET Regional Officer, of the ICAO South American Regional Office, acted as Secretary.

ii-4        **WORKING LANGUAGES**

The working language of the Meeting was Spanish, with simultaneous interpretation into English. The documentation was presented in both languages.

ii-5        **AGENDA**

The following agenda was adopted:

- Agenda Item 1:        Follow-up on the implementation of the Amendment to Annex 15 - Aeronautical Information Services, the PANS-AIM, and the conclusions of previous meetings
- Agenda Item 2:        Review of the SAM AIS/AIM Personnel Training Plan
- Agenda Item 3:        Follow-up on the implementation of the quality management system in AIM units (AIM/QMS)
- Agenda Item 4:        Review of Phase 2 of AIS-to-AIM transition
- Agenda Item 5:        NOTAM contingency plans, AIM deficiencies, and the ICARD system
- Agenda Item 6:        Global campaign on NOTAM improvement
- Agenda Item 7:        Other business

**ii-6 ATTENDANCE**

The Meeting was attended by 72 participants of 13 SAM States (Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guyana, Panama, Paraguay, Peru, Suriname, Uruguay and Venezuela), and 4 industry representatives.

The list of participants is shown on page iii-1.



Organización de Aviación Civil Internacional /  
International Civil Aviation Organization

**Décimo Cuarta Reunión Multilateral AIM de la Región SAM para  
la transición del AIS a la AIM (SAM/AIM/14)**

(Virtual, 6 al 10 de setiembre de 2021 – 6 to 10 September 2021)

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**Lista de Participantes / List of Participants**

**ARGENTINA**

1. Héctor Marcelo Cancinos
2. Betsabé Isla
3. Fernanda López
4. Horacio Rubén Nieto
5. Maria Ines Heer
6. Maria Soto
7. Paola López
8. Silvina Rotta
9. Verónica Villarruel

**BOLIVIA**

10. John Apaza
11. Gregorio Aliaga

**BRASIL**

12. Axel Cezar
13. Cristiane Pereira
14. Claudius Sany Cardoso
15. Douglas Alves
16. Cesar Fagundes Monteiro
17. Clovis Fernandes Junior
18. Márcio Marinho
19. Romulo Teixeira de Queiroz
20. Alessander Santoro

**CHILE**

21. Pablo A. Pérez
22. Nelson O. Aravena

**COLOMBIA**

23. Carlos Toro
24. Gladys Roa De la Cruz
25. Claudia Mena Pérez
26. Diana Patricia García Mora
27. Elkin Gómez
28. Germán Vélez
29. Gloria Maribel Cruz Cruz
30. Jhohan Manuel Martínez
31. Olga Casallas
32. Luz Edith Proaños Artunduaga
33. Maritza Lopez
34. Martín Alonso Zapata Fernández
35. Mauricio Díaz Villabona
36. Meylin Tatiana Ballesteros Gamba
37. Pedro Alvarez

**ECUADOR**

38. Alexander Guncay
39. Nelson Quevedo
40. Wilmer Orbe

**GUYANA**

41. Amanda Emptage
42. Harvest Alert
43. Regina McPherson
44. Kumariedavi Somwaru

45. Tyrone Persaud

**PANAMÁ**

46. Iris González
47. Dalys Rodriguez
48. Diana Urriola
49. Gregorio Mesquita
50. Leslie Guerra
51. Ivette Iturrado

**PARAGUAY**

52. Eleno Centurión
53. Pedro Díaz
54. Lidia Caceres

**PERÚ**

55. Angel Carrera
56. Eder Guardamino Cavezas
57. Evelyn Canches Iparraguirre
58. Ever Santiago Ponte Vergaray
59. Juan Pablo Portilla
60. Mirtha Angeles Reque
61. Miriam Gonzales Guerra
62. Sara Siles La Rosa
63. Walter Pecerros
64. Sergio Rojas

**SURINAME**

65. Sharita Radjie

**URUGUAY**

66. María Ferreiro
67. Graciela Monzillo
68. Juan José González
69. Mario Dávila

**VENEZUELA**

70. María Félix Arana
71. Eduardo Gallardo
72. Marisol Gudiño

**IFAIMA**

73. Iliana **Sánchez Navarro**

**MANAGED AIS**

74. Antonio José Locandro Herrera

**GroupEAD Europe**

75. Oscar Centeno Giralde

**ATECH**

- Edson Fagundes Gomes

**OACI**

76. Jorge Armoa
77. Fabio Salvatierra

**Agenda Item 1: Follow-up on the implementation of the Amendment to Annex 15 - Aeronautical Information Services, the PANS-AIM, and the conclusions of previous meetings**

1.1 Under this agenda item, the Meeting reviewed the following papers:

- WP/02 – Follow-up on SAM/AIM/13 recommendations (*presented by the Secretariat*).
- WP/03 - Follow-up on the implementation of the new SNOWTAM format and the Guide on the issuance of SNOWTAM (*presented by the Secretariat*)
- WP/04 - Review of the status of implementation of amendments to AIS documentation (*presented by the Secretariat*)
- WP/06 - Implementation of GRF in the SAM Region (*presented by the Secretariat*)
- IP/05 - *Implantación del GRF y el SNOWTAM en Paraguay (presented by Paraguay)*

1.2 Under this agenda item, the Meeting recalled that the SAM/AIM/13 had formulated a series of recommendations and conclusions that should have been implemented by States.

1.3 The Secretariat followed up on three recommendations formulated during the aforementioned meeting. The status of implementation is shown in the tables attached to the report of this part of the Meeting, identified as follows:

- Table I: Follow-up to the national AIM implementation plan, based on GANP/6 modules and elements;
- Table II: Follow-up to the development of national awareness workshops on AIM implementation; and
- Table III: Activities carried out for the implementation of the new SNOWTAM format

1.4 Regarding the SNOWTAM, the Meeting took note of the Guide on the Issuance of SNOWTAM, prepared by the Secretariat. With respect to this document, the Secretariat informed that it had been submitted to the Third virtual meeting of the Programme and Project Review Committee (ePPRC/3), which recommended that it be translated, initially into English, and submitted to the GREPECAS plenary for approval.

1.5 The Secretariat also informed the Meeting of the activities carried out for the dissemination of the GRF and its implementation in the AGA area. The Secretariat informed that, in order to support States in the implementation; the South American Regional Office had prepared an action plan, together with the Technical Committee of the SRVSOP, to provide follow-up and direct assistance to Member States concerning this measure. Furthermore, a portal with information on the status of implementation had been created: <https://www.icao.int/SAM/SAFETY/GRF/Pages/default.aspx>

1.6 The Meeting was invited to participate in a webinar on GRF, organised by the ICAO NACC and SAM Offices together with CANSO. This webinar would focus on air navigation service providers, and would be held via the Zoom platform on 28 September 2021, at 9:00 am Lima time. Registration was free of charge to the public at: [https://icao.zoom.us/webinar/register/WN\\_ey25IAoJS6eHY3IqNQ7GAg](https://icao.zoom.us/webinar/register/WN_ey25IAoJS6eHY3IqNQ7GAg).

1.7 Paraguay informed the Meeting about the steps and activities carried out for the implementation of the GRF and the new SNOWTAM model.

1.8 Likewise, the Secretariat had been monitoring the implementation of Amendment 1 to Doc 10066, PANS-AIM. Details of the actions taken by States to meet the requirements of the amendment are set out in Table IV.

1.9 The Secretariat also made a presentation on the new structure of Doc 8126, AIS Manual (disclaimer version). The Meeting considered recommending the holding of a workshop on Doc 8126, AIS Manual, considering the new concepts and procedures introduced in the seventh edition of this document.

**Table I: Follow-up of the National AIM Implementation Plan based on GANP/6 modules and elements**

| <i>N°</i> | <i>States</i> | <i>National Plan</i>   | <i>Modules</i>   | <i>Elements</i>                |
|-----------|---------------|--|--|--------------------------------|
| 1         | Argentina     | Under development and in coordination with the ANSP, but without informing ICAO  |  |                                |
| 2         | Brazil        | The SIRIUS Programme is Brazil's tool for the evolution of the Brazilian Airspace Control System. Available on the DECEA website: <a href="https://sirius.decea.mil.br/">https://sirius.decea.mil.br/</a>  | B1-DAIM  | All the elements of the Module |
| 3         | Bolivia       | The NANP has been approved in the AIS area in accordance with the ASBU approach.   | B1- DAIM   | Not defined yet                |
| 4         | Chile         | Review and update of the National Air Navigation plan  | To be informed in due course when the update of the NANP is completed. |                                |
| 5         | Colombia      | Review and update of items associated with the AIM within the National Air Navigation Plan, given the recent process of acquisition, implementation and training of the new SIA / AIM - IDS System.  | D-AIM in process of implementation                                     | Phase 2 ongoing                |
| 6         | Ecuador       | At the moment there is no National Plan NA, a work team has been formed to prepare it.   |  |                                |
| 7         | Guyana        | No. They are in consultation with the ANSP for the development of the National Plan. This month, training is going to be provided to improve the quality of staff and will move towards implementation. Going paperless in order to use databases.   |  |                                |
| 8         | Panama        | It has been handed over to air navigation to proceed.  |  | Elements of the D-AIM module   |
| 9         | Paraguay      | <ul style="list-style-type: none"> <li>• The PNNA was updated and it reflects the progress made to Phase 2 of the roadmap transition from AIS to AIM.</li> <li>• The Amendments to Annexes 4 and 15 have been adopted, in addition to ICAO Doc. 10.066.</li> <li>• An AIXM 5.1 System has been acquired.</li> <li>• The ANSP is in the process of implementing the e-AIP.</li> </ul> | D-AIM  | Elements of the D-AIM Module   |

|    |           |   |  |                              |
|----|-----------|---|--|------------------------------|
| 10 | Peru      | The NANP of Peru was approved and published in October 2020. It consists of 3 volumes, fully aligned with the Global Air Navigation Plan, with the six-step method recommended by ICAO. It contains AIS improvements. SAFETY, Capability and Efficiency. It contains guidance to develop each ASBU element of DAIM. The ANSP has already started the e-AIP implementation process for the optimisation of the provision of digital aeronautical data and information. | D-AIM  | Nine ASBU elements           |
| 11 | Suriname  | They are working on the drafting of the National Air Navigation Plan.   |  |                              |
| 12 | Uruguay   | The national plan is not yet in place. They are making modifications.   | In the process of developing the National Plan | Elements of the D-AIM module |
| 13 | Venezuela | The NANP is already approved  | B1-DAIM  | Elements of the D-AIM module |

**Table II: Follow-up to the conduction of national awareness workshops on the implementation of AIM**

| <i>N°</i> | <i>States</i> | <i>Workshop</i>   | <i>Date</i>   | <i>Participants</i>   |
|-----------|---------------|---|---|---|
| 1         | Argentina     | Not completed because of the pandemic   |   |   |
| 2         | Brazil        | Planning a national meeting with originators and providers of data and information for AIS in Brazil.   | November 2021   | Originators and providers of data and information for AIS - Brazil  |
| 3         | Bolivia       | Planned for the first quarter of 2022.  | March 2022  | <ul style="list-style-type: none"> <li>• ANSP top management</li> <li>• Information originators</li> </ul>                      |
| 4         | Chile         | <p>Meeting with the planning department to explain the need to acquire a DB and AIP module.</p> <p>Meeting with the new director to present the eTod project.</p> <p>AIS efficiency and AIM implementation module - ARO continuing efficiency course.</p>   | <p>April 2021</p> <p>July 2021</p> <p>August 2021</p> | <p>Planning/AIS personnel (virtual)</p> <p>AGA/AIS_MAP Director/personnel (virtual)</p> <p>Heads of AIS at the AD (virtual)</p> |
| 5         | Colombia      | Progress is achieved on the subject, with the signing of Service Level Agreements-SLA, the socialization and publication of the Data Catalogs among the information/data providers and finally, the State acquired the SIA/AIM System for the management and incorporation of aeronautical information into an integrated Database in response to Phase 2 of the AIS Roadmap towards AIM. |   |   |
| 6         | Ecuador       | Contact with suppliers but not in a workshop. There were changes of authorities.  |   |   |
| 7         | Guyana        | Some progress has been made, including the generation of letters of agreement for the main airports. Discussions underway with the training school. For the main airport, the AIRAC cycle has been complied with, and the next amendment will   |   |   |

|    |          |   |  |  |
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|    |          | contain a significant amount of information on the airport.   |  |  |
| 8  | Panama   | A workshop will be held next month with AGA to explain the importance of e-TOD. Recurrent with ATCO on AIS-to-AIM awareness. Constant meetings are held with the authorities on the importance of AIM.  | -Workshop with AGA - September/November 2021<br>ATCO from October to February 2022 | Airport personnel and regulators<br><br>Air controllers and CNV personnel  |
| 9  | Paraguay | The process has been started. Close work between the regulatory and provider sides. Authorities were involved in the awareness raising process.   | 24/08/2021   | 18 Specialist AIM - ANSP<br>2 Specialist AIM - AAC<br>1 Air Traffic Manager<br>2 Deputy Director of Aeronautical Services. |
| 10 | Peru     | Awareness-raising meetings were held at the level of State authorities and directors, resulting in the approval and publication of the National Air Navigation Plan, which contains guidelines for a quality, safe and efficient AIM in a digital environment.<br>At the ANSP level, awareness-raising meetings were held with directors and officials, supporting the need to implement the NANP in order to have a solid and secure AIM, to optimise the provision of digital aeronautical data and information. The result was the signing of the contract for the acquisition of the e-AIP by CORPAC.<br>Two awareness-raising workshops are planned for AIM personnel and internal and external users.<br>Workshop 1 scheduled for the fourth quarter of the current year 2021 and Workshop 2 planned for the beginning of 2022. | Workshop 1 (IV quarter of 2021)<br><br>Workshop 2 (I quarter 2022)                 | 20<br><br>20   |
| 11 | Suriname | Basically, they are working on it but they will duly respond to the Secretariat.  |  |  |

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| 12 | Uruguay   | Prior to the pandemic, a SWIM workshop was held with the authority. Following the SAM/AIM/13, meetings were held last year with senior management on the importance of the transition from AIS to AIM. | October 2018 | Director DINACIA-<br>Director DGAC-<br>Director DGIA –<br>Director DSO-<br>Director Electronics |
| 13 | Venezuela | Workshops are planned for the last quarter of this year.   |              |   |

**Table III: Activities carried out for the implementation of the new SNOWTAM format**

| <i>N°</i> | <i>States</i> | <i>Action taken</i>  | <i>Implementation date</i>       | <i>Remarks</i>  |
|-----------|---------------|--|----------------------------------|---|
| 1         | Argentina     | They have formed a working team with all areas involved.<br>They have carried out tests both at airports where snow occurs and airports that may be affected by heavy rainfall.  | 4 November 2021                  | There is confusion among some users regarding the issuance of SNOWTAMs at airports that do not have snow events. The new SNOWTAM format should be more disseminated.  |
| 2         | Brazil        | It has worked in coordination with all areas involved and has issued AIC-A 16/21 and has issued an AIC-A 16/21 in relation to the GRF and a regulatory framework on the new SNOWTAM format will be issued.   | 4 November 2021                  |   |
| 3         | Bolivia       | No actions reported  |                                  |   |
| 4         | Chile         | <ul style="list-style-type: none"> <li>✓ Was included in the field training guidelines that each AD provides annually.</li> <li>✓ DAP 15 00 regulations were updated and are about to be published, including the new format that will apply from 4 November.</li> <li>✓ A workshop will be held for all field managers in October and November. It is included in the annual training plan.</li> </ul>  | 4 November 2021                  | Attached as evidence: <ul style="list-style-type: none"> <li>▪ Directives TSV (AIS) of 2020, applied in 2021 due to the pandemic.</li> <li>▪ Annual training plan for 2020, being implemented in 2021 due to the pandemic.</li> </ul> |
| 5         | Colombia      | Given the geographic location of the State, in Colombia, SNOWTAM information is not published. In compliance with what was agreed in the Virtual Mission with the ICAO Secretariat, the difference will be published in the AIP/COL part GEN-1.7. In the same way, we will be awaiting to coordinate with the MET and ATS providers, the measures that replace or complement the notification of poor braking (if it occurs) due to a flooded track or when its effectiveness is degraded. |                                  | Taking into account that the Virtual Mission was received and served recently, no action related to what was agreed and projected has yet been carried out.   |
| 6         | Ecuador       | Recurring NOTAM course prepared pending execution November 2021.   | January 2022                     | This course will include Snowtam topic  |
| 7         | Guyana        | They have updated the system - The Focal point for the GRF is creating an Accountability Table for all parties involved. The AIS has not yet defined a policy in relation to the issuance of SNOWTAM in its new format.  | Implementation date not foreseen |   |

|    |           |   |  |  |
|----|-----------|---|--|--|
| 8  | Panama    | A workshop on SNOWTAM was conducted in October 2019 for NOTAM personnel. Have participated in webinar on runway status.                       | No implementation date available for this year; possible the first quarter of year 2022. | Will participate in training activities developed by AGA.<br><br>Will participate in workshops to be developed by air navigation services involved in the subject. |
| 9  | Paraguay  | Paraguay has worked together with the service provider in the regulatory area. The new SNOWTAM format has been included in State regulations. | 4 November 2021  | Technicians by the Aerodrome operator, AGA and AIM waiting for participation in the GRF course   |
| 10 | Peru      | No differences were recorded in the Peruvian regulations. The form was included in the amendment of RAP 315.                                  | IV quarter 2021  | Was included in the new edition of RAP 315 amendment 2, prepublication approved, pending publication   |
| 11 | Suriname  | No actions reported   | No date defined  |  |
| 12 | Uruguay   | A work committee was established with all the areas involved.   | Implementation date not defined yet  | A working committee was established with all areas involved.   |
| 13 | Venezuela | No actions reported   | No date defined  |  |

**Table IV: Follow-up to the implementation of Amendment 1 to Doc 10066 PANS-AIM**

| <i>N°</i> | <i>States</i> | <i>ATS route classification - Remarks</i>  | <i>Implementation date</i> | <i>Remarks</i>   | <i>Criteria applicable to GBAS Cat II and Cat III, visual segment surface (VSS) and folding wing tips (FWT) – Comments and planning</i>                     | <i>Implementation date</i> | <i>Remarks</i>   |
|-----------|---------------|--|----------------------------|--|---|----------------------------|--|
| 1         | Argentina     |  |                            |  |   |                            |  |
| 2         | Brazil        | The sections specified in 5.2.1.1.3 (Amendment 1 Doc 10066) will be amended in the AIP to conform to the new format. | 4 Nov 2021                 | Preparing datasets that will be available by the end of the first half of 2022   | The criteria applicable to GBAS Cat II and Cat III, the visual range surface (VSS) will be available in accordance with Appendix 2. (Amendment 1 Doc 10066) | 4 Nov 2021                 |  |
| 3         | Bolivia       |  |                            |  |   |                            |  |
| 4         | Chile         | Included in updated regulation DAP 15 00 (soon to be promulgated)  | 2022                       | Due to the fact that we are about to start the process of the last AIP amendment year 2021 and due to coordination with other areas, it is not possible to include this information during the | Included in updated regulation DAP 15 00 (soon to be promulgated)   | 2022                       | Since we are about to start the process of the last AIP amendment for 2021 and due to coordination with other areas, it is not possible to include this information this year. |

|   |          |   |                  |  |  |                  |  |
|---|----------|---|------------------|--|--|------------------|--|
|   |          |   |                  | current year.  |  |                  |  |
| 5 | Colombia | In Colombia, the work is assigned to the Air Space Management Group (ASM), who is the responsible provider of the information / data related to the two aspects contained in this Table. The AIM National headquarters will carry out the pertinent coordination with the ASM Group, in order to specify the response and send it to the SAM/AIM-14 Secretariat as soon as practicable. |                  |  |  |                  |  |
| 6 | Ecuador  | In the process of updating  | II semester 2022 |  | Under review   | II semester 2022 |  |
| 7 | Guyana   |   |                  |  |  |                  |  |
| 8 | Panama   | In progress   |                  | Changes are being made in coordination with the DPVEA procedure design office. | Not applicable   |                  | Tocumen has Cat I, it is not published (VSS) nor (FWT) |
| 9 | Paraguay | In process  | Year 2022        | Included in the update of national regulations, in                             | Included in the update of national regulations, in the approval process. | To be confirmed  |  |

|    |           |  |  |   |   |  |   |
|----|-----------|--|--|---|---|--|---|
|    |           |  |  | the approval process.   |   |  |   |
| 10 | Peru      | No differences were observed in the Peruvian regulation; were included in the amendment of RAP 315.        | IV quarter 2021  | Included in the new edition of PAR 315 amendment 2, prepublication approved, pending publication. | No differences were observed in the Peruvian regulation; they were included in the amendment of RAP 315.  | IV quarter 2021  | Was included in the new edition of PAR 315 amendment 2, prepublication approved, pending publication. |
| 11 | Suriname  |  |  |   |   |  |   |
| 12 | Uruguay   | The modifications were submitted to the Air Traffic Directorate, which accepted and validated the changes. | Published today 9 September 2021 and will enter into force on 4 November 2021. | -   | GBAS: no such equipment is available<br>VSS: the PANS-OPS office is being restructured and expected to send such data when they wish to publish new instrument approach procedures.<br>FWT: this information must be provided by the aerodrome operator and no information has been received to date. | Once the information is received from the respective areas, it can be published within the year in question. | -   |
| 13 | Venezuela |  |  |   |   |  |   |

**Agenda Item 2: Review of the SAM AIS/AIM personnel training plan**

- 1.1 Under this agenda item, the Meeting reviewed the following papers:
- WP/07 - AIM training plan for the SAM Region and competency framework requirement for AIS/AIM personnel (*presented by the Secretariat*)
  - Presentation on Doc 8126, AIS Manual (*presented by the Secretariat*)
  - Presentation - CIPE\_ NOTAM specialist (*presented by Argentina*)
  - Presentation – Aeronautical information service operator - AIS 021 (*presented by Argentina*)
- 1.2 Under this agenda item, the Meeting reviewed the training needs of AIS personnel.
- 1.3 The Meeting recalled that, even before Amendment 40, successive SAM/AIM meetings had pointed to the need to review the profile of the AIS officer to ensure the competence of AIS professionals to manage information in an automated environment.
- 1.4 The Meeting noted that Doc 8126, in its disclaimer version, highlighted the importance of ongoing training and education of AIS/AIM personnel, including having a competency framework for AIS personnel. The Meeting, considering this part of the AIS Manual, urged States to prepare the competency framework for the AIS personnel of their providers and authority.
- 1.5 The Secretariat informed the Meeting about the process for hiring a consultant to draft the Guidance Document on training of AIS/AIM staff in the SAM Region, to enable States to prepare a training plan for AIS staff, as requested at the SAM/AIM/13 meeting.
- 1.6 States agreed that the basis of the document should be the "AIS/021 Course" with updates to accommodate the new technologies and procedures.
- 1.7 The Secretariat also informed the Meeting about the AIXM course, delivered this year, for 22 participants. States commented on the excellent conduction of the course, as well as its importance for building capacities in the States for the exchange of information in an electronic environment. States recommended repeating the course in 2022.
- 1.8 The Secretariat also reported on the planning of training activities for the last quarter of 2021 (QMS course) and those planned for 2022.
- 1.9 States informed the Meeting about the training and education activities for AIS/AIM personnel carried out during 2020 and 2021. Argentina presented the NOTAM Specialist Course and the Aeronautical Information Service Operator Course - AIS 021.

**Agenda Item 3: Follow-up of the implementation of the quality management system in AIM units (AIM/QMS)**

3.1 Under this agenda item, the Meeting reviewed the following papers:

- WP/08 - Status of implementation of AIM/QMS in the SAM Region (*presented by the Secretariat*)
- IP/04 - *Implementación del Sistema de Gestión de la Calidad en la oficina de AIM en Brasil (presented by Brazil)*
- IP/06 - *Seguimiento a la implantación del Sistema de Gestión de Calidad en las dependencias del AIM (QMS/AIM) (presented by Bolivia)*
- IP/08 - *La importancia del Catálogo de Datos para el entorno AIM (presented by Brazil)*
- IP/XX SDIA (*presented by Brazil*)
- Presentation – QMS\_2021 (*presented by Panama*)

3.2 The Meeting reviewed the status of implementation of AIM/QMS reported during the SAM/AIM/14.

3.3 States reported the status, as of September 2021, of implementation and certification process of the AIS/AIM quality management system. Details can be found in the following table:

| <i>N°</i> | <i>States</i> | <i>Status of implementation of AIM/QMS</i>   | <i>Date of certification</i>  | <i>Follow-up audit</i> | <i>Expected date of recertification</i> |
|-----------|---------------|--|---|------------------------|---|
| 1         | Argentina     | Workshops on version 2015 have started and the Quality Manual will be reviewed.  | Not certified. No certification date has been established. Project not approved yet. ANSP has just started the process. |                        |   |
| 2         | Brazil        | Was recertified in 2021.   | Certified   | March 2021             | 2024                                    |
| 3         | Bolivia       | The latest inspections of the service provider by the DGCA show 60% progress achieved in certification. Certification audits are not yet foreseen, but second party audits are envisioned. | Not certified   | No                     | No                                      |
| 4         | Chile         | The recertification process took place in June 2021  | Certified   | June 2022              | August 2024                             |
| 5         | Colombia      | The Colombian AIS service is ready for certification. It depends on senior management. Could certify by mid-2022. Resources would be available by mid-2022.                                | Not certified   |                        |   |

|    |           |  |  |  |               |
|----|-----------|--|--|--|---------------|
| 6  | Ecuador   | Working with the planning area to finalise the implementation process for the AIM, MET and ETAC areas. A first stage had been defined, but cannot specify dates or current status due to the pandemic. | Not certified.<br>No date specified                      |  |               |
| 7  | Guyana    | Still working on the documentation but have not yet finalised the implementation.  | Not certified.<br>No date specified                      |  |               |
| 8  | Panama    | Due to the pandemic, internal audits and recertification audits could not be carried out, but maintained all QMS standards applied to AIS/AIM processes.   | Opportunity for improvement in certification             |  | December 2021 |
| 9  | Paraguay  | Paraguay was recertified in December 2020.   | Recertified  | ANSP scheduled for Nov and recertification of regulatory area for Dec 2021 | December 2023 |
| 10 | Peru      | It has a ISO 9001:2015 quality system in the aeronautical information service, recertified since 2019 and valid until 30/05/2022. Training is ongoing.   | Certified  | Report   | Mid-2022      |
| 11 | Suriname  | NIL  | Not certified  |  |               |
| 12 | Uruguay   | Uruguay was audited for recertification in July 2021.  | Recertified  | July 2022  | July 2024     |
| 13 | Venezuela | Venezuela has made progress in the review of documentation and procedures, as well as in alignment with the requirements of version 2015 of ISO 9001. The reported progress is 85%.                    | Not certified.<br>Opting for certification in July 2022. |  |               |

3.4 Bolivia, Brazil and Panama reported, through IPs and presentations, on the AIM/QMS implementation process in their States and the status of implementation.

3.5 Brazil made a presentation on the importance of the Data Catalogue for the AIM environment and its relationship with quality in AIM. The Meeting welcomed the presentation and the information contained therein.

3.6 The Meeting urged States that had not yet completed the process or those that had achieved recertification to submit and implement a corrective action plan to achieve implementation of the QMS in AIS/AIM processes.

**Agenda Item 4: Review of Phase 2 of AIS-to-AIM transition**

4.1 Under this agenda item, the Meeting reviewed the following papers:

- WP/09 - Current status of implementation of e-AIP, digital data sets, data catalogues, and information exchange models (*presented by the Secretariat*)
- WP/10 - Follow-up to the implementation of terrain and obstacle data sets (TOD) (*presented by the Secretariat*)
- IP/09 - *Implantación de la Fase 2 y Medidas implementadas para disminuir el número de Campaña Global de NOTAM* (*presented by Argentina*)
- IP/10 – Implementation of SWIM (*presented by Brazil*)
- Presentation on AIS-to-AIM transition (*presented by Chile*)
- Presentation on Phase 2 of the AIS-to-AIM transition (*presented by Panama*)
- Presentation of progress made by Peru in Phase 2 (*presented by Peru*)
- Presentation on the e-AIP (*presented by M-AIS*)
- Presentation on digital data sets (*presented by M-AIS*)
- Presentation on the e-AIP and data catalogues (*presented by GroupEAD*)
- Presentation on SWIM (*presented by ATECH*)

4.2 Under this agenda item, the Meeting discussed aspects related to the implementations of aeronautical information management in an electronic or digital environment. A review was made of the process of implementation of digital data sets (DDS), data catalogues, e-AIP, and TOD in the States.

4.3 The Secretariat reminded the Meeting of the importance of expediting the process of implementation of the elements in Phase 2 of the AIS-to-AIM Transition Roadmap in order to have the systems, elements and infrastructure in place to enable SWIM, as foreseen for ASBU Block 2 (2025).

4.4 With regard to the DDS, data catalogues and e-AIP elements, Argentina, Brazil, Chile, Colombia, Panama, Paraguay, Peru, and Venezuela reported on the progress made, as detailed below:

- **Argentina**: EANA, the service provider, was in the process of acquiring an integrated eFPL system, NOTAM bank, MET bank, GDP, from IDS, which had been delayed due to the effects of the SARS-CoV-2 pandemic. Likewise, for quality oversight, traceability control procedures were being implemented with data initiators. The authority, which managed the publication, was in the process of hiring maintenance and training services for the AeroDB system purchased from IDS;
- **Brazil**: Regarding all the elements contemplated in this part of the report, Brazil had made very efficient progress in the implementation. The e-AIP was 70% implemented, while the DDS and the data catalogue were 100% implemented;
- **Chile**: The technical and administrative specifications for the procurement of the database and the e-AIP module, had already been prepared;
- **Colombia**: The integrated aeronautical information management system had already been acquired. They were currently in the process of data loading and providing on-the-job training for the system. They planned to have the e-AIP in place by mid-2022;
- **Paraguay**: The integrated aeronautical information management system had already been acquired. They were currently in the process of data loading and providing on-the-job training for the system. They planned to have the e-AIP in place by mid-2022;
- **Panama**: They already had the automated aeronautical information management system operating in AIXM 4.5. They already had the ability to generate several products.

- **Peru:** They were in the process of installing the integrated system, to be completed by the end of 2021. Data uploading and staff training was planned by the third quarter of 2022, and commissioning for the end of 2022.
- **Venezuela:** Reported that the integrated information management system had been completed and implementation was planned for 2022.

4.5 Bolivia, Ecuador, Guyana, Suriname, and Uruguay had opportunities for improvement in the implementation of SDD and eAIP.

4.6 The Secretariat requested States to report progress using Table I, attached to this part of the report.

4.7 Regarding e-TOD, States reported that they had made progress in making available terrain and obstacle data in electronic format. Details of TOD implementation are provided in the table contained in **Appendix A** to this part of the report.

4.8 The industry made presentations on the e-AIP, the applications and utilisation of the data catalogue, and SWIM. The Meeting acknowledged the presentations, which generated discussions and feedback, especially in relation to the application of the data catalogues.

4.9 States noted that there were doubts or different interpretations on the use and application of the data catalogues. An explanation was given of the scope of application of this tool, and States should include it in their regulations in order to complement the service level agreements that the AIS provider must establish with data and information originators.

4.10 With regard to SWIM, Brazil made a presentation on the modules and elements that enabled SWIM implementation.

**APPENDIX A**  
**(Updated 10/09/2021)**

| STATES OF THE SAM REGION | ACTION PLAN   | FOLLOW-UP   |
|--------------------------|---|---|
| <i>Argentina</i>         | Estimated date: 27 November 2019  | Acquisition phase of the eTOD system. When they bought the IDS, this module was not foreseen. The data collection is carried out by ANAC. There is no estimated date.   |
| <i>Bolivia</i>           | Start date for corrective actions: July 2017  | Up to the date of SAM/AIM /14, the ANSP has not started the tasks. There is no start date.  |
| <i>Brazil</i>            | 2017 - 8 AD<br>2018 - 8 AD<br>2019 - 8 AD<br>2020 - 4 AD<br>2021 - 4 AD<br>2022 - 8 AD<br>2023 - 4 AD                           | The final implementation date is in 2023. It is planned to publish for 44 airports. They have modified the Action Plan.   |
| <i>Chile</i>             | Completion is scheduled for 2022.<br>According to the report presented in the eCRPP/3, it would be delayed due to the pandemic. | There are no major advances. They are looking for a methodology on how to publish the data they already have.   |
| <i>Colombia</i>          | Has not submitted a plan  | The area is managed by the Procedure Design Group but the process has not started.  |
| <i>Ecuador</i>           | Has not submitted a plan  | There is no progress since SAM/AIM/13. However, the IFAIMA representative indicated that they will start again the advisory tasks to obtain data, especially from the Lacatunga Airport, through the use of drones. |
| <i>French Guyana</i>     | Has not submitted a plan  |   |

|                  |   |   |
|------------------|---|---|
| <i>Guyana</i>    | To date, the first seven points of the Action Plan presented should have been completed.                          | They haven't done any work since the last update. They have worked with the people at PANS to help them compile the information and make it official electronically.  |
| <i>Panama</i>    | Has not submitted a plan  | They still do not have the complete data of Tocumen S.A. For now there is no date because it is in the hands of AGA.  |
| <i>Paraguay</i>  | Data collection for Areas 2a, b, c, d completed.<br>Other activities related to TOD are planned for 2016 to 2019. | No progress has been reported.  |
| <i>Peru</i>      | Has not submitted a plan  | The Plan foresees for 2024. Coordination with the Aerodrome operators has been carried out.   |
| <i>Suriname</i>  | Has not submitted a plan  |   |
| <i>Uruguay</i>   | Has not submitted a plan  | It has an Obstacles database. The pandemic has not allowed progress on the ground.  |
| <i>Venezuela</i> | In the second half of 2017, will start with the corresponding terrain and obstacle data                           | It plans for this last quarter, in the amendment, to publish the obstacles of SVMI, Puerto Ordaz and Valencia. The data for Maracaibo, Barcelona, Paraguana and Margarita will probably be complete. The amendment will be in December. It would be available in electronic format, in all airports by 2024, with an advance of 3 to 4 airports per year, starting in 2022. |

## APPENDIX B

**Table: Follow-up to the implementation of e-AIP, DDS, Information Exchange Models and Data Catalogs**

| N° | States    | Action Plan  | Implementation Status |                |   |   |
|----|-----------|--|-----------------------|----------------|---|---|
|    |           |  | DDS                   | Exchange Model | e-AIP   | Data Catalogues   |
| 1  | Argentina |  |                       |                |   |   |
| 2  | Brazil    | - By the end of the first quarter of 2022, we will make the e-AIP available;<br>- By the end of the first semester of 2022, we will make available digital data packages, according to Amendment 01 - Doc 10066    | 70%                   | 100%           | 80%   | 100%  |
| 3  | Bolivia   |  |                       |                |   |   |
| 4  | Chile     |  |                       |                |   |   |
| 5  | Colombia  | - By the end of the second quarter of 2022, we will make the e-AIP available;<br>- By the end of the fourth semester of 2022, we will make available digital data packages, according to Amendment 01 - Doc 10066. | 50%                   | 0%             | 50%   | 80%   |
| 6  | Ecuador   | The acquisition of a System with AIXM is planned for the second semester   | Not available         | Not available  | At the moment it is available in HTML and PDF | It is available in Excel format, it is estimated to have them for the first semester 2022 |

|    |          |  |    |      |                                   |    |
|----|----------|--|----|------|-----------------------------------|----|
|    |          | 2022   |    |      | format under Eurocontrol standard |    |
| 7  | Guyana   |  |    |      |                                   |    |
| 8  | Panama   | -It is expected to start with the DDS workshops, in the third quarter of 2022.<br>- Regarding the data catalogs, we are waiting for the AISR to inform us of the dates of the seminar-workshop.  |    | 100% | 100%                              |    |
| 9  | Paraguay |  |    |      |                                   |    |
| 10 | Peru     | With the signing of the Contract for the acquisition of the Integrated Aeronautical Information System in June 2021, the Peruvian State through the AISP is in the process of implementing the eAIP, which will be made available in the last quarter of 2022, meeting the requirements established in the documents of our Regulation, Annex 15, PANS AIM and its amendments respectively | 0% | 0%   | 10%                               | 0% |

|    |           |  |  |  |  |  |
|----|-----------|--|--|--|--|--|
| 11 | Suriname  |  |  |  |  |  |
| 12 | Uruguay   |  |  |  |  |  |
| 13 | Venezuela |  |  |  |  |  |

**Agenda Item 5: NOTAM contingency plans, AIM deficiencies, and ICARD system**

5.1 Under this agenda item, the Meeting reviewed the following papers:

- WP/11 - Follow-up to NOTAM contingency plans, AIM deficiencies and ICARD system (*presented by the Secretariat*).
- IP/03- *Plan de acción para reemplazar waypoints duplicados en Brasil (presented by Brazil)*

5.2 Under this agenda item, the Meeting discussed the NOTAM contingency plan, air navigation deficiencies in the field of AIS that remained in the GANDD database, and ICARD-related issues.

5.3 With regard to the NOTAM contingency plan, Venezuela continued without the backup of Peru due to the fact that INAC Legal Consultancy had not yet defined the objection they had raised to clause 8.1 of the Support Agreement with Peru.

5.4 Panama reported changes to the telephone numbers of the NOF and the inclusion of an email address. The updates appear in Appendix A to this part of the report.

5.5 Peru informed that Bolivia had experienced some difficulties in the past months, and the NOTAM contingency plan had been activated accordingly to back up the tasks of the La Paz NOF.

5.6 Regarding air navigation deficiencies, the Meeting noted that the references required updating based on the latest editions of ICAO Annexes and documents. The Secretariat informed that it would proceed to update the references and then send them to each State for updating of the corrective action plans.

5.7 With regard to ICARD, the Secretariat recalled that the objective by 2022 was to reduce by 80% the cases of duplicate, triplicate codes, as well as the codes appearing in the AIP but not in ICARD.

5.8 The Secretariat acknowledged the efforts made by States to resolve the issues arising in ICARD in the SAM Region, but noted that some issues still persisted in relation to:

- Verification of phonetic similarity within 500 NM when requesting an amendment;
- Coordination among all States involved when a request is made for new codes or for the deletion or amendment of waypoints on FIR boundaries.

The Secretariat requested States to consider these two points before requesting validations in the ICARD system.

5.9 Brazil made a presentation on actions taken to eliminate duplicate 5LNC codes. It reported that, by the end of 2019, Brazil had 179 duplicate points on record and, in order to comply with ICAO recommendations, an action plan had been developed to replace these points.

5.10 The action plan drawn up by Brazil is summarised in the following table:

| <b>AMDT</b>             | <b>Points</b>       | <b>CHARTS</b>   |
|-------------------------|---------------------|---|
| AMDT AIRAC<br>26 MAR 20 | 12 duplicate points | ENRC L7 and L9<br>IFR charts - 2 ADs affected   |
| AMDT AIRAC<br>23 APR 20 | 8 duplicate points  | ENRC L2, L3, L4 and L5<br>IFR procedure charts - 2 ADs affected   |
| AMDT AIRAC<br>20 MAY 21 | 90 duplicate points | ENRC L1, L2, L3, L4, L5, L6, L7, L8, L9, H1, H2,<br>H3, H4, H5, H6, H7, H8, H9<br>ARC Academia, Anápolis, Amazonica, Belem,<br>Belo Horizonte, Brasilia, Curitiba, Fortaleza,<br>Manaus, Natal, Recife, Rio Sao Paulo, Santa<br>Maria, Foz<br>IFR procedure charts - 2 ADs affected |
| AMDT AIRAC<br>12 AUG 21 | 20 duplicate points | ENRC H1, H2, H3, H4, H5, H6, H7, L1, L2, L6,<br>L5, L8, L9<br>ARC Rio Sao Paulo, Academia, Anapolis, ARC<br>Salvador, Recife, Belo Horizonte, Foz, Curitiba,<br>Porto Alegre, Brasilia, Manaus<br>IFR procedure charts - 2 ADs affected   |
| AMDT AIRAC<br>09 SEP 21 | 11 duplicate points | IFR procedure charts - 2 ADs affected   |
| AMDT AIRAC<br>30 DEC 21 | 5 duplicate points  | 9 IFR procedure charts  |

5.11 Brazil had defined actions in coordination with neighbouring States, and estimated that the work to replace the 146 duplicate points on record would be completed by December this year. (AMDT AIRAC 30 DEC 21).

- END -

## APÉNDICE / APPENDIX

**Catálogo de los Planes de Contingencia NOTAM de la Región SAM**  
**Catalogue of NOTAM Contingency Plans in the SAM Region**

**Fecha: 10 de septiembre de 2021**  
**Date: 10 September 2021**

| Estado/<br>State     | Estado de<br>respaldo/<br>Backup State | Situación /<br>Status |       | Punto de Contacto/<br>Contact Point  | Descripción general de<br>facilidades y servicios que<br>garantizan la continuidad /<br>General description of facilities<br>and services available which<br>ensure continuity | Banco NOTAM<br>NOTAM Bank |
|----------------------|--|-----------------------|-------|--|--|---------------------------|
|                      |  | Borrador/<br>Draft    | Final |  |  |                           |
| 1                    | 2                                      | 3                     | 4     | 5  | 6  | 7                         |
| <b>Argentina</b>     | Uruguay                                |                       | X     | NOF Ezeiza<br>Tel: 541 4480 2294<br>Fax: 541 4480 2260<br>Email: <a href="mailto:nofezeiza@eana.com.ar">nofezeiza@eana.com.ar</a><br><br>NOF Montevideo<br>Tel: 5982 6040067<br>Email: <a href="mailto:ais@adinet.com.uy">ais@adinet.com.uy</a>  | AFS, Tel/Fax, REDDIG,<br>Internet  | AMHS                      |
| <b>Bolivia</b>       | Perú                                   |                       | X     | NOF La Paz<br>Tel: 5912 2316686<br>Email : <a href="mailto:ais@aasana.bo">ais@aasana.bo</a><br><br>NOF Lima<br>Tel: +511 2301419<br>+511 2301416<br>+51 978471875<br>Email: <a href="mailto:aislima@corpac.gob.pe">aislima@corpac.gob.pe</a><br><a href="mailto:aislimaperu@gmail.com">aislimaperu@gmail.com</a> | AFS, Tel, REDDIG, Internet   |                           |
| <b>Brasil/Brazil</b> |  |                       |       | NOF Brasil<br>Tel: 5521 21016976<br>Email: <a href="mailto:nofbrazil@decea.gov.br">nofbrazil@decea.gov.br</a>  | Tel, Internet  | CRONOS                    |

| Estado/<br>State | Estado de<br>respaldo/<br>Backup State | Situación /<br>Status |       | Punto de Contacto/<br>Contact Point  | Descripción general de<br>facilidades y servicios que<br>garantizan la continuidad /<br>General description of facilities<br>and services available which<br>ensure continuity | Banco NOTAM<br>NOTAM Bank                      |
|------------------|--|-----------------------|-------|--|--|--|
|                  |  | Borrador/<br>Draft    | Final |  |  |  |
| 1                | 2                                      | 3                     | 4     | 5  | 6  | 7  |
| <b>Chile</b>     | Ecuador                                |                       | X     | NOF Chile<br>Tel: 562 28364033<br>Email: <a href="mailto:nofchile@dgac.gob.cl">nofchile@dgac.gob.cl</a><br><br>NOF Guayaquil<br>Tel: 5934 2924940<br><br>Email: <a href="mailto:nof_ecuador@dgac.gob.ec">nof_ecuador@dgac.gob.ec</a>   | AFS, Tel/Fax, REDDIG,<br>Internet  | IAT-WIN  |
| <b>Colombia</b>  |  |                       |       | NOF Bogotá<br>Tel: 571 2962991<br>Email: <a href="mailto:ais@aerocivil.gov.co">ais@aerocivil.gov.co</a> ;<br><a href="mailto:solicitudes.notam@aerocivil.gov.co">solicitudes.notam@aerocivil.gov.co</a>  |  | Actual Banco Web /<br>Current Web Bank<br>AMHS |
| <b>Ecuador</b>   | Chile                                  |                       | X     | NOF Guayaquil<br>Tel: 5934 2924940<br>Email:<br><a href="mailto:nof_ecuador@aviacioncivil.gob.ec">nof_ecuador@aviacioncivil.gob.ec</a><br><br>NOF Chile<br>Tel: 562 28364033<br>Email: <a href="mailto:nofchile@dgac.gob.cl">nofchile@dgac.gob.cl</a>  | AFS, Tel/Fax, REDDIG,<br>Internet  | IAT-WIN  |
| <b>Guyana</b>    | Suriname                               |                       | X     | NOF Guyana<br>Telefax: 592 2612279<br>Tel: 592 2612269<br>Cel: 592-632-0416<br>AFS: SYCJYNYX<br>Cable: TIMAIRPORT GUYANA<br>Email: <a href="mailto:aisguyana@gcaa-gy.org">aisguyana@gcaa-gy.org</a><br><br>NOF Suriname<br>Tel: 597 0325103<br>Email: <a href="mailto:ais.sur@hotmail.com">ais.sur@hotmail.com</a><br><a href="mailto:ais@cadsur.sr">ais@cadsur.sr</a> | AFS, Tel/Fax, REDDIG,<br>Internet  | AMHS   |

| Estado/<br>State                              | Estado de<br>respaldo/<br>Backup State | Situación /<br>Status |       | Punto de Contacto/<br>Contact Point  | Descripción general de<br>facilidades y servicios que<br>garantizan la continuidad /<br>General description of facilities<br>and services available which<br>ensure continuity | Banco NOTAM<br>NOTAM Bank |
|---|--|-----------------------|-------|--|--|---------------------------|
|   |  | Borrador/<br>Draft    | Final |  |  |                           |
| 1   | 2                                      | 3                     | 4     | 5  | 6  | 7                         |
| <b>Guyana<br/>Francesa/ French<br/>Guiana</b> |  |                       |       |  |  |                           |
| <b>Panamá</b>                                 | Perú                                   |                       | X     | NOF Panamá<br>Tel: 524-4737, 524-4738 y 524-4739<br>Email: <a href="mailto:aisnof@ aeronautica.gob.pa">aisnof@ aeronautica.gob.pa</a><br><a href="mailto:aisnoftum@gmail.com">aisnoftum@gmail.com</a><br><br>NOF Lima:<br>+511 2301419<br>+511 2301416<br>+51 978471875<br>Email: <a href="mailto:aislima@corpac.gob.pe">aislima@corpac.gob.pe</a><br><a href="mailto:aislimaperu@gmail.com">aislimaperu@gmail.com</a> | AFS, Tel/Fax, REDDIG,<br>Internet  | AMHS<br><br>AMHS          |
| <b>Paraguay</b>                               | Chile                                  |                       | X     | NOF Asunción<br>Tel: 59521 645952<br>Email: <a href="mailto:aisnof_ad@dinac.gov.py">aisnof_ad@dinac.gov.py</a><br><br>NOF Chile<br>Tel: 562 28364033<br>Email: <a href="mailto:nofchile@dgac.gob.cl">nofchile@dgac.gob.cl</a>  | AFS, Tel/Fax, REDDIG,<br>Internet<br><br>AFS, Tel/Fax, REDDIG,<br>Internet   | AMHS<br><br>IAT-WIN       |

| Estado/<br>State | Estado de<br>respaldo/<br>Backup State | Situación /<br>Status |       | Punto de Contacto/<br>Contact Point  | Descripción general de<br>facilidades y servicios que<br>garantizan la continuidad /<br>General description of facilities<br>and services available which<br>ensure continuity | Banco NOTAM<br>NOTAM Bank |
|------------------|--|-----------------------|-------|--|--|---------------------------|
|                  |  | Borrador/<br>Draft    | Final |  |  |                           |
| 1                | 2                                      | 3                     | 4     | 5  | 6  | 7                         |
| Perú             | Bolivia                                |                       | X     | NOF Lima<br>Tel: : +511 2301419<br>+511 2301416<br>+51 978471875<br>Email: <a href="mailto:aislima@corpac.gob.pe">aislima@corpac.gob.pe</a><br><a href="mailto:aislimaperu@gmail.com">aislimaperu@gmail.com</a><br><br>NOF La Paz<br>Tel: 5912 2316686<br>Email: <a href="mailto:ais@aasana.bo">ais@aasana.bo</a>  |  | AMHS                      |
| Suriname         | Guyana                                 |                       | X     | NOF Suriname<br>Tel: 597 0325103 -<br>Email: <a href="mailto:ais.sur@hotmail.com">ais.sur@hotmail.com</a><br><a href="mailto:ais@cadstur.sr">ais@cadstur.sr</a><br><br>NOF Guyana<br>Telefax: 592 2612279<br>Tel: 592 2612269<br>Cel: 592-632-0416<br>AFS: SYCJYNYX<br>Cable: TIMAIRPORT GUYANA<br>Email: <a href="mailto:aisguyana@gcaa-gy.org">aisguyana@gcaa-gy.org</a> | AFS, Tel/Fax, REDDIG,<br>Internet  | AMHS                      |
| Uruguay          | Argentina                              |                       | X     | NOF Montevideo<br>Tel: 5982 6040067<br>Email: <a href="mailto:ais@adinet.com.uy">ais@adinet.com.uy</a><br><br>NOF Ezeiza<br>Tel 5414 480 2294<br>Fax 5414 480 2260<br>Email: <a href="mailto:nofezeiza@eana.com.ar">nofezeiza@eana.com.ar</a>  | AFS, Tel/Fax, REDDIG,<br>Internet  | AMHS, SISNOTAM            |

| Estado/<br>State | Estado de<br>respaldo/<br>Backup State | Situación /<br>Status |       | Punto de Contacto/<br>Contact Point   | Descripción general de<br>facilidades y servicios que<br>garantizan la continuidad /<br>General description of facilities<br>and services available which<br>ensure continuity | Banco NOTAM<br>NOTAM Bank |
|------------------|--|-----------------------|-------|---|--|---------------------------|
|                  |  | Borrador/<br>Draft    | Final |   |  |                           |
| 1                | 2                                      | 3                     | 4     | 5   | 6  | 7                         |
| Venezuela        | Perú                                   | X                     |       | NOF Lima<br>Tel: : +511 2301419<br>+511 2301416<br>+51 978471875<br>Email: <a href="mailto:aislima@corpac.gob.pe">aislima@corpac.gob.pe</a><br><a href="mailto:aislimaperu@gmail.com">aislimaperu@gmail.com</a> |  |                           |

**Nota/Note:**

- Columna 1: Indicar Estado, Territorio u Organismo Internacional / *Indicate State, Territory or International Organization.*
- Columna 2: Indicar Estado, Territorio u Organismo Internacional con quien debe coordinarse el Plan de Contingencia del Estado citado en la Columna 1 / *Indicate State, Territory or International Organization with whom the Contingency Plan of the State mentioned in Column 1 should be coordinated.*
- Columna 3: Marcar con X en el caso que el Plan de Contingencia se encuentre en proceso para su armonización con el Estado en cuestión / *Mark with an X in case the Contingency Plan is in process for its harmonization with the referred State.*
- Columna 4: Marcar con X en el caso que el Plan de Contingencia se encuentre armonizado con el Estado en cuestión / *Mark with an X in case the Contingency Plan is in process for its harmonization with the referred State.*
- Columna 5: Indicar cargo del Punto de Contacto y medio de comunicación a utilizar en caso de ser necesario / *Indicate position of the Point of Contact and communications means to be used, if necessary.*
- Columna 6: Indicar cuáles son, en general, las facilidades y los servicios disponibles mientras el Plan de Contingencia se encuentra activado / *Indicate which are, in general, the facilities available services while the Contingency Plan is activated.*
- Columna 7: Banco NOTAM / *NOTAM Bank.*

**Agenda Item 6: Global campaign on NOTAM improvement**

6.1 Under this agenda item, the Meeting reviewed the following papers:

- WP/12 - Corrective action plan in the SAM Region (*presented by the Secretariat*).
- IP/02 - *Actividades realizadas por Brasil para mejora de los NOTAM (presented by Brazil)*
- IP/07 - *Campaña Global NOTAM (presented by Bolivia)*.
- Presentation on NOTAM (*presented by Chile*)
- Presentation on old NOTAMs (*presented by Panama*)

6.2 Under this agenda item, the Meeting reviewed the actions taken in the SAM Region in the context of the Global NOTAM Improvement Campaign undertaken by ICAO.

6.3 The Meeting noted that the proliferation of NOTAM messages had generated concern in ICAO and the industry due to the volume of information that had to be processed for planning each operation.

6.4 In analysing the problems related to the issuance of NOTAMs, the States agreed on the many problems faced by NOFs due to requests by originators for the issuance of NOTAMs that did not comply with ICAO SARPs. In several cases, the proliferation of NOTAM messages resulted from their use as formal endorsement by information originators.

6.5 The Meeting deemed it necessary to hold a NOTAM workshop for authorities and data and information originators, to raise awareness on the correct use and issuance of NOTAMs.

6.6 The Secretariat recalled that the Global NOTAM Campaign contemplated four webinars, two of which had already taken place. The Secretariat also reminded the Meeting about the ICAO “NOTAMeter”, an online software to distinguish between current NOTAMs, old NOTAMs--that is, NOTAMs that were more than three months old but not yet one year old--and very old NOTAMs, that were more than one year old. The software can be found at: <https://www.icao.int/airnavigation/information-management/Pages/NOTAMeter.aspx>.

6.7 Argentina, Bolivia, Brazil, Chile, Panama, and Peru reported on the actions taken to reduce the number of old and very old NOTAMs that remained active in the system.

6.8 Argentina noted that the State was committed to working consciously towards the achievement of the following objectives, as agreed between the aeronautical authority and the air navigation service provider (EANA S.E.):

- ✓ Reduce the number of old NOTAMs
- ✓ Reduce the number of PERM NOTAMs
- ✓ Limit the issuance of NOTAMs, based on what MUST or MUST NOT be published

6.9 Chile informed that the existence of old and very old NOTAMs active in the system was a shared responsibility of the originators and the AIS. The steps taken to solve the issue were to review the NOTAMs and transfer the information to the AIP through amendments. Likewise, other actions had been agreed to avoid increasing the number of old NOTAMs. These actions were:

- Increase the number of amendments, from 3 to 4 per year
- Update the National Regulation on AIS (PRO AIS NOTAM)

- Coordination and training
- Incorporation of an annual training plan for the aerodrome AIS
- Aerodrome AIS training course.

6.10 Bolivia reported that coordination meetings had been held between the authority (DGAC) and the service provider (AASANA) to monitor the reduction of the number of old and very old NOTAMs, in accordance with RAB 95 regulations and the PANS AIM Manual - Procedures for aeronautical information management.

6.11 At the request of the DGCA, ANSP-AASANA had submitted an action plan framed within the objective of the ICAO global campaign to eliminate old and very old NOTAMs. As a first step, the ANSP had determined the following:

- ✓ Phase 1: Transfer very OLD NOTAMs to Supplements.
- ✓ Phase 2: Transfer OLD NOTAMs to an AIP Amendment.
- ✓ AASANA's target date for phases 1 and 2 is 30 September 2021.

6.12 Brazil made an extensive presentation on NOTAM improvement planning. It noted that the specific work to improve the quality of NOTAMs had begun in January 2020 at the Aeronautical Mapping Institute, through internal restructuring, process improvement, and personnel training. To this end, ICA had created a planning and control sector, which had started to integrate the mapping, procedure design, and aeronautical information management sectors.

6.13 After analysing the permanent NOTAMs in force, Brazil had created work packages to incorporate these NOTAMs into publications and charts, in coordination with the different sectors, taking into account the effective AIRAC date of the corresponding products.

6.14 Currently, the number of NOTAMs in Brazil with a validity exceeding 90 days was 175 domestic and 49 international NOTAMs, representing 15% of NOTAMs in force. Brazil's planning objective was that, by March 2022, there would be no more NOTAMs with a validity of more than 90 days.

6.15 Panama also reported on the action taken in the context of the Global NOTAM Campaign, namely:

- Meeting with the largest NOTAM originator, Tocumen S.A. to discuss the NOTAMs that had been replaced since 2017. This meeting resulted in an agreement on measures to ensure that the information contained in these NOTAMs was transferred to the AIP or to a Supplement.
- A meeting had been held with the CNS office on the NOTAM format and the importance of monitoring the effective date of NOTAMs.

6.16 Peru, in turn, noted that it had coordinated with information providers the elimination of old and very old NOTAMs through AMDT AIP 30/22, January 2022 and the SUP AIP November/December 2021.

6.17 The Meeting urged other States that maintained a significant number of old and very old NOTAMs in the system to take action for their reduction and elimination.

**Agenda Item 7: Other business**

7.1 Under this agenda item, the Meeting reviewed the following paper:

- WP/13 - Verification of basic building blocks (BBBs) (*presented by the Secretariat*)

7.2 The Meeting took note that the Secretariat had taken steps to verify the implementation of the basic building blocks (BBBs) contained in the GANP - Sixth edition. The Secretariat highlighted the importance of verifying the implementation of the BBBs in order to establish a baseline for the system envisaged in the GANP and to ensure a sound basis for the global air navigation system.

7.3 The Secretariat noted that ICAO urged against duplication of work with USOAP. Thus, the recommendation was that, in order to avoid duplication and to align global and regional planning, the process of verification of the implementation of these essential services had to be incorporated into the methodology for the identification of deficiencies in regional air navigation plans.

7.4 The Secretariat informed the Meeting that, in order to carry out this verification, it had planned to conduct "virtual missions" for the verification of BBBs in the area of AIM. In 2021, the Secretariat had carried out the following virtual missions:

- ✓ Bolivia
- ✓ Colombia
- ✓ Ecuador
- ✓ A virtual mission to Venezuela was scheduled for 28-29 September 2021

These verifications were carried out with the support of a Checklist prepared by the Secretariat on the basis of the BBBs and the reference documents posted on the website of the GANP, Sixth edition. (<https://www4.icao.int/ganportal>)

7.5 The delegates of the States that had received "virtual missions" expressed that these were very important for purposes of an internal review of the provision of AIS services in the State and that they helped to justify, before the authorities, the implementations and acquisitions requested by the AIS area.

7.6 The Meeting urged the Secretariat to continue conducting the virtual missions.