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Международная
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منظمة الطيران
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航空组织

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24 March 2025

To: States Accredited to the NACC and SAM ICAO Regional Offices

Subject: **RLA/06/901 - Workshop on Severe Weather Events and Aviation**
GREPECAS/22/9 Conclusion

(Lima, Peru, June 23-27, 2025)

Action
Required: **Nominate experts by 30 May 2025**

Dear Sir/Madam,

In reference to GREPECAS/22/9 conclusion "Dissemination of the impacts of severe weather phenomena on the safety of air operations" it was agreed that States, organizations, and service providers collect data on the impact of severe weather events on aviation, and that the Secretariat coordinate the dissemination of information, analyze the risks associated with these types of severe events, as well as the development of possible mitigation measures.

In this context, and thanks to the support of the Regional Project RLA/06/901 programme of activities, adopted at the Eighteenth Meeting of the Coordination Committee (RCC/18), we are pleased to invite your Administration to participate in the **Workshop on Severe Weather Events and Aviation**, to be held in **Lima, Peru, from 23 to 27 June 2025**.

This Workshop aims to deepen and train on the mechanisms of formation and development of severe meteorological events, as well as those phenomena that restrict operations at aerodromes, their monitoring, their codifications, as well as the preparation of risk mitigation plans for air operations, both in the Flight Information Region (FIR) and at aerodromes in the presence of these phenomena. In addition, the impact of Climate Change on the increase in the severity and frequency of these events and their impacts on aviation will be addressed.

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North American, Central American and Caribbean Office
Calz. Mariano Escobedo No. 526 – 2
Col. Anzures, Ciudad de México, C.P. 11590, MÉXICO
Tel. + 52 55 52503211
E-mail: icaonacc@icao.int
Website: www.icao.int/nacc
Facebook Instagram: @icaonacc
LinkedIn: <https://www.linkedin.com/showcase/icao-nacc/>

South American Office
Av. Víctor Andrés Belaúnde No.147 Apartado 4127
Centro Empresarial Real Lima 100, Perú
Vía Principal No.102, Edificio Real 4, piso 4, San Isidro, Lima 15073 – Perú
Tel. +51 1 611-8686
E-mail: icaosam@icao.int
Website: www.icao.int/sam

The technical profile of the participants is of great relevance, so the participation of meteorological experts who perform their functions in the Meteorological Watch Offices (MWO) and Aerodrome Meteorological Offices (AMO), as detailed in the Meeting mnemonic sheet (**Appendix A**), as well as aerodrome management officials, is highly recommended.


The Workshop' tentative work programme is included in **Appendix B**. The event will be held in Spanish and will have simultaneous interpretation services into English.

Considering the above, we cordially invite your Administration to nominate the experts who will participate at this event and complete their registration through the following link no later than **30 May 2025**:

<https://forms.office.com/r/bhcW82H3eF>

Mr. Jorge Armoa, Regional Officer ENV/MET (jarmoa@icao.int) and Mr. Luis Sanchez, Regional Officer, Aeronautical Meteorology and Environment (nacc-met@icao.int) of the ICAO Regional Offices of South America and North America and the Caribbean, respectively, are available for any additional information and coordination in each region respectively.

Accept, Sir/Madam, the assurances of our highest consideration.


Christopher Barks
Regional Director
North American, Central
American and Caribbean
(NACC) Regional Office


**Fabio Faizi Rahnemay
Rabbani**
Regional Director
South American (SAM)
Regional Office

Attachments: as indicated

<https://oaci.sharepoint.com/sites/NACCRegionalOfficeTeam/Shared Documents/00-Files/N - ICAO Regions/N 1- 8.4.17 - MET QMS Events/Correspondence/NACC115359MET-States-Invite-Workshop-SevereWeatherPhenom-GREPECAS-22-9.docx> / GKE



ATTACHMENT A

ICAO NACC AND SAM REGIONAL OFFICES

MNEMONIC SHEET - MET 05

RLA/06/901 - Workshop on Severe Meteorological Events and Aviation (Lima - Peru, June 23 to 27, 2025)	
Regional Strategy for the implementation in the area of Meteorology in the SAM Region, related to Severe Meteorological Phenomena	<ul style="list-style-type: none"> ✓ Until December 2027: <ul style="list-style-type: none"> - Promote the actions requested by GREPECAS Conclusion 22/9: “Dissemination of the impacts of severe weather events on the safety of air operations”, - Promote coordination agreements for the issuance of early warnings on severe weather phenomena and risk mitigation procedures for air operations. - Promote the issuance of weather warning messages for air navigation and aerodromes. ✓ Ongoing tasks: <ul style="list-style-type: none"> - Follow up on the actions of the Weather Watch Offices and Aeronautical Meteorological Offices upon the development of a Severe Weather Phenomenon.
ICAO Strategic Objectives	<ul style="list-style-type: none"> - Safety - Capacity and Efficiency - Environmental Protection
Objective of the Meeting	<ul style="list-style-type: none"> - To improve the knowledge and training on the mechanisms of formation and development of severe meteorological phenomena, as well as those phenomena that restrict operations at aerodromes, their surveillance, and their codifications, - To prepare risk mitigation plans for air operations under adverse weather conditions.
Activities carried out by the MAR Region on Tropical and Extra-tropical Cyclones	<ul style="list-style-type: none"> ✓ 2019: Request to GREPECAS to evaluate the possibility of establishing a Tropical Cyclone Advisory Center (TCAC) for the Southern South Atlantic. ✓ 2019: Creation of a working group to analyze severe weather events that have generated air incidents in the SAM Region.

Current situation of the SAM Region regarding the monitoring of Severe Weather Events and other phenomena that restrict air operations	<ul style="list-style-type: none"> ✓ 2022: The Working Group sent the report on the evaluation of the analysis of severe weather events that have generated air incidents in the SAM Region to GREPECAS 20. ✓ 2023: Teleconferences regarding the creation of coordination mechanisms for the issuance of homogeneous SIGMETs when the event affects more than one FIR. ✓ 2024: GRPECAS issues Conclusion 22/9 “Dissemination of the impacts of severe weather events on the safety of air operations”.
Nature of the event	<p>The event is a Workshop on Severe Weather Events and Aviation, which seeks to train colleagues from States affected by these types of systems, in order to provide surveillance according to aviation requirements, coordinate risk mitigation actions and generate a Data Bank on these types of events as well as the lessons learned from each event.</p>
Competencies to be generated by the event	<p>The event will provide capabilities for the preparation of early warnings of severe weather events and other adverse weather phenomena that may affect air operations and agree on risk mitigation procedures for operations under adverse weather conditions.</p>
Profile of the participants	<ul style="list-style-type: none"> ✓ MET personnel in charge of technical decision making. ✓ MET personnel working in Weather Watch Offices and Aeronautical Meteorological Office. ✓ ATS and AIS/MET personnel using meteorological information for air traffic management and preparation of flight plans. ✓ AGA staff using weather warnings to manage airport operations and mitigate risks with adverse weather operations
Next steps in strategy development	<p>In accordance with the deadlines of the regional strategy:</p> <ul style="list-style-type: none"> ✓ Work in coordination with States and organizations, at the regional and inter-regional level, on surveillance and early warnings of severe phenomena that may affect air navigation. ✓ Continue to support capacity building for surveillance and reporting of severe weather warning messages.
Contact personnel in the SAM Office	<p>Mr. Jorge Armoa Cañete Regional Aeronautical Meteorology and Environment Officer ICAO South American Regional Office jarmoa@icao.int</p>



ATTACHMENT B

RLA/06/901 – Workshop on Severe Weather Events and Aviation

GREPECAS/22/9 Conclusion
(Lima – Peru, June 23 to 27, 2025)

TENTATIVE WORK PROGRAM

Hour	Monday, June 23	Hour	Tuesday, June 24	Wednesday, June 25	Thursday, June 26	Friday, June 27
0800 0830	Registration	0830 0930	Issue 2. Climate change: d) What does the future hold for aviation in relation to climate change?	Issue 3: Severe Weather Events: c) Procedures for local and FIR severe event warnings	Issue 4: Coordination Agreements: State-level and regional-level coordination procedures on severe weather events	Issue 8: GREPECAS/22/9 "Dissemination of the impacts of severe weather events on the safety of air operations"
0830 09:00	Opening Ceremony					
09:00 0930	Issue 1. Workshop Objectives / General Introduction					
0930 0950	<i>Recess</i>	0930 0950	<i>Recess</i>	<i>Recess</i>		
0950 1210	Issue 2: Climate Change and its Impact on Aviation a) Expectation of Climate Change and its impact on meteorological parameters at a global level b) Possible Climate Change scenarios on the factors that	0950 1210	Issue 3: Severe weather events a) Severe events that have affected aviation in the NAM/CAR/SAM regions (Review of the latest severe events observed in the NAM/CAR/SAM regions)	Issue 3. Severe weather events d) Evaluation of meteorological events that have affected the operation of airports in recent years	Issue 5: Risk Assessment: Assessment of risks associated with severe events and mitigation methodology	Issue 8: GREPECAS/22/9 "Dissemination of the impacts of severe weather events on the safety of air operations" (continued) - Workshop Evaluation Session

Hour	Monday, June 23	Hour	Tuesday, June 24	Wednesday, June 25	Thursday, June 26	Friday, June 27
	determine an air operation					- Closing
1210 1310	Lunch Break	1210 1310	Lunch Break	Lunch Break		
1310 1530	Issue 2. Climate change (c) Recommended climate change mitigation or resilience procedures for aviation	1310 1530	Issue 3: Severe Weather Events: b) Early warning procedures on the development of possible severe weather events with a focus on air navigation	Issue 3. Severe weather events e) Evaluation of meteorological events that have affected air operations at cruise level	Issue 7: Exchange of experiences on severe events to identify opportunities for improvement in procedures for warning, dissemination of information and mitigation of risks	