



International
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Международная
организация
гражданской
авиации

منظمة الطيران
المدني الدولي

国际民用
航空组织

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Lima, 14 December 2023

To: Mr. Yves Tatibouet, Regional Director of Civil Aviation Authority (DSAC)
for French Antilles and French Guiana
Mr. Francis Preux, Director, French West Indies and French Guiana, Air Navigation Services
Lt. Col. Egbert Field, Director General, Guyana Civil Aviation Authority
H.E. Albert Egbert Jubithana BBA, Minister of Transport, Communication and Tourism,
Suriname

Subject: **RLA/06/901 - Seminar/Workshop on Tropical and Extra-tropical Cyclones and their Aviation Reporting (Lima, Peru, March 04 to 06, 2024)**

Dear Sir/Madam,

Within the framework of the program of activities of the Regional Project RLA/06/901 adopted at the Seventeenth Meeting of the Coordination Committee (RCC/17) (Lima, Peru, 26 October 2023), I am pleased to invite your Administration to participate in the **Seminar/Workshop on Tropical and Extra Tropical Cyclones and their reporting in aviation**, to be held in virtual format, from 04 to 06 March 2024 through the Zoom Platform.

This Seminar/Workshop aims to deepen and train on the mechanisms of formation and development of Tropical and extra-tropical Cyclones, their surveillance, as well as the provision of practical knowledge for reporting advisory warnings and SIGMET messages on Tropical Cyclones.

The profile of the participants is highly relevant, so it is highly recommended the participation of meteorological specialists who perform their functions in the Meteorological Watch Offices and Aeronautical Meteorological Offices, as detailed in the memos of the Meeting (**Attachment A**).

The tentative work program for the Seminar/Workshop is included in **Attachment B**. The event will be conducted in Spanish, with simultaneous interpretation into English.



Attachment A

ICAO SOUTH AMERICAN REGIONAL OFFICE

NEMOTECNIC PAPER – MET 04

RLA/06/901 – Seminar/Workshop on Tropical and Extra-tropical Cyclones and their Aviation Reporting (Virtual, 04 to 06 March 2024)	
Regional strategy for the implementation in the area of Meteorology in the SAM Region, related to Tropical and Extra-tropical Cyclones.	<ul style="list-style-type: none"> ✓ Until December 2025: <ul style="list-style-type: none"> - Promote the training of MET personnel for the surveillance of Tropical and Extra-Tropical Cyclone Systems. - Promote the establishment of a Tropical Cyclone Advisory Center for the South Atlantic. - Promote training for the issuance of SIGMETs for Tropical Cyclones. ✓ Ongoing tasks: Follow up on: <ul style="list-style-type: none"> - The actions of the Meteorological Watch Offices and Aeronautical Meteorological Offices upon the development of a Tropical or Extra-tropical Cyclone.
ICAO's Strategic Objectives	<ul style="list-style-type: none"> - Safety - Capacity and Efficiency - Environmental Protection
Objective of the Meeting	<ul style="list-style-type: none"> - Build capacity for identification of potential Tropical or Extra-tropical Cyclone development. - Provide tools for surveillance of a developing Tropical or Extra-tropical Cyclone. - Train in the preparation of meteorological messages regarding Tropical Cyclones for aviation.
Activities carried out by the SAM 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. ✓ 2022: Teleconferences on deep depression events off the coast of Brazil and Uruguay.

<p>Current situation of the SAM Region in terms of Tropical and Extra-tropical Cyclone surveillance.</p>	<ul style="list-style-type: none"> - States located in the Northern SAM Region obtain Tropical Cyclone watch and advisory information from TCAC Miami. - The States of Brazil, Argentina and Uruguay have been affected by increasingly frequent deep depressions in the last 10 years. - GREPECAS has requested the Air Navigation Commission to establish a TCAC for the southern South Atlantic. - The Brazilian Navy has established a system to monitor the development of extra-tropical cyclones in the southern South Atlantic.
<p>Nature of the event</p>	<p>The event is a Workshop on Tropical and Extra-tropical Cyclones that seeks to train colleagues from States affected by these types of systems, in order to provide surveillance in accordance with aviation requirements.</p>
<p>Competencies to be generated by the event</p>	<p>The event will provide capabilities for tropical and extra-tropical cyclone surveillance and information management related to these weather systems.</p>
<p>Participants' profile</p>	<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 flight plan preparation.
<p>Next steps in strategy development</p>	<p>In accordance with the deadlines of the regional strategy:</p> <ul style="list-style-type: none"> ✓ Insist with the NCA for the establishment of a TCAC for the southern South Atlantic. ✓ Work in coordination with other organizations for the development of methodology for monitoring Extra-Tropical Cyclones. ✓ Continue to support capacity building for the monitoring and reporting of Tropical Cyclone warning messages.
<p>SAM Office Contact Staff</p>	<p>Mr. Jorge Armoa Cañete Regional Aeronautical Information Management and Aeronautical Meteorology Officer ICAO South American Regional Office jarmoa@icao.int</p>



ATTACHMENT B

**RLA/06/901 – Seminar/Workshop on Tropical and Extra-tropical Cyclones
and their Aviation Reporting
(Virtual, 04 to 06 March 2024)**

TENTATIVE WORK PROGRAM

Hour	Monday, 04 March	Hour	Tuesday, 05 March	Hour	Wednesday, 06 March
0800 0830	Registration	0830 0930	Item 4. Requirements for the establishment of a TCAC	0830 0930	Item 8. State Experience in Tropical and Extra-tropical Cyclone Surveillance and Reporting
0830 09:00	Opening Ceremony				
09:00 0930	Item 1. Workshop Objectives / General Introduction				
0930 0950	<i>Break</i>	0930 0950	<i>Break</i>	0930 0950	<i>Break</i>
0950 1210	Item 2. Mechanism of Tropical and Extra-tropical Cyclone Formation	0950 1210	Item 5. Tropical Cyclone Surveillance Processes. a) Use of Remote Sensors b) Use of Numerical Prediction Models c) Preparation of bulletins for the general public d) Preparation of bulletins for specific users	0950 1210	Item 9. SIGMET preparation practices by CT including advisory messages
1210 1310	<i>Lunch break</i>	1210 1310	<i>Lunch break</i>	1210 1310	<i>Lunch break</i>
1310 1530	Item 3. Theories about the generations of deep Cyclones in the South Atlantic	1310 1530	Item 6. Aviation CT Advisory Messages; and Item 7. Advisory Messages for Tropical Cyclone SIGMET Preparation	1310 1530	Item 10. Questions and Answers / Survey / Closing of the Workshop