



International
Civil Aviation
Organization

Organisation
de l'aviation civile
internationale

Organización
de Aviación Civil
Internacional

Международная
организация
гражданской
авиации

منظمة الطيران
المدني الدولي

国际民用
航空组织

Ref.: LN3/24.1 – SA7914

Lima, April 10, 2024

To: Lt. Col. Egbert Field, Director General, Guyana Civil Aviation Authority
H.E. Uraiqit h. Ramsaran, Minister of Transport, Communication and Tourism, Surinam

Subject: **RLA/06/901 - VOLCEX Workshop and Volcano Surveillance Workshop on International Airways**
(Lima, Peru, June 17-20, 2024)

Required action: a) Complete the registration form no later than May 31, 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, October 26, 2023), I am pleased to invite your Administration to participate in the VOLCEX Workshop and Workshop on Monitoring of Volcanoes in International Airways, to be held from June 17 to 20, 2024 at the headquarters of this Regional Office, Lima, Peru.

This event will be divided into two parts, which are:

- a) Workshop on Volcano Monitoring on International Airways; and
- b) Volcanic Ash Exercise Preparation Workshop (VOLCEX)

The objectives of the workshops are:

- ✓ Disseminate volcano surveillance procedures on international airways; and
- ✓ Coordinate the actions and messages for the volcanic ash exercise that will take place in the month of September or October.

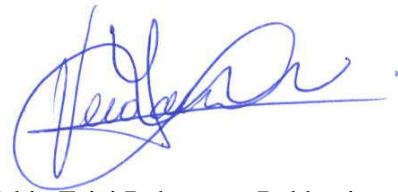
The profile of the participants is of great relevance, so the participation of the operational staff and the inspectors of the regulatory body who have the profile detailed in the mnemonic sheet of the event (**Attachment A**) is highly recommended.

The agenda to be discussed during the Workshop is included in **Attachment B**. The event will be held in Spanish.

In accordance with the above, I am pleased to invite your Administration to designate and send the list of the specialist(s) who will participate in this Workshop by e-mail to icaosam@icao.int and by completing the registration form by May 31, 2024, through the following link <https://forms.office.com/r/nq2SJbYy1W>.

Mr. Jorge Armoa, AIM/MET Regional Officer (jarmoa@icao.int), and Mr. Fernando Hermoza(fhermoza@icao.int) and Mr. Roberto Sosa España (rsosa@icao.int) AMT/SAR Officers of the ICAO South American Regional Office are at your disposal should you require any additional information on this event..

Accept, Sir/Madam, the assurances or gour highest consideration.



p
Fabio Faizi Rahnemay Rabbani
Regional Director
Oficina South American Office
Lima

cc: Mrs. Estrea Noordzee, Permanent Secretary, Directorate of Transport, Suriname
Mrs. Cindy Toemin, Acting Head of Civil Aviation Department, Suriname
Mr. Brian de Souza, Director a.i, Civil Aviation Safety Authority Suriname, CASAS, Suriname



ATTACHMENT A

ICAO SOUTH AMERICAN REGIONAL OFFICE

NEMOTECNIC PAPER- ATS/AIS/MET 01

<p>RLA/06/901 - VOLCEX Workshop and Volcano Watch Workshop on International Airways (Lima, Peru, June 17 to 20, 2024)</p>	
<p>Regional strategy for the implementation of volcano monitoring and volcanic ash cloud related messaging</p>	<ul style="list-style-type: none"> ✓ Until December, 2026: <ul style="list-style-type: none"> - Promote the preparation and updating of Volcanic Ash Contingency Plans; - Promote review and update of ATS/MET operational agreements.; - Issuance of an updated SIGMET Guide that includes procedures for volcanic eruption or presence of volcanic ash clouds.; - Promote volcanic ash exercises every two years, involving Volcanological Observatories, Volcanic Ash Advisory Center (VAAC), Meteorological Monitoring Offices (MWO), International NOTAM Offices (NOF), air traffic unit and air operators ✓ Continous Task: Follow up on: <ul style="list-style-type: none"> - To the SIGMET emission for volcanic ash; - To the correct issue of ASHTAM; - Interaction between VAAC, Volcanological Observatory and Aeronautical Meteorological Offices (review operational agreements) - ATS/MET operational agreements for cases of volcanic eruption or presence of volcanic ash clouds.
<p>ICAO Strategic Objectives</p>	<ul style="list-style-type: none"> - Operational Safety - Capacity and Efficiency - Environmental Protection
<p>Objective of the Meeting</p>	<ul style="list-style-type: none"> - Disseminate volcano monitoring procedures on international airways. - Disseminate procedures for support and transfer of responsibilities among the Volcanic Ash Advisory Centers; - Promote cooperation agreements between the different agencies involved in volcano surveillance on international airways. - Promote cooperation agreements between the service provider agencies involved in cases of volcanic eruption or presence of volcanic ash clouds. - Promote volcanic ash exercises to generate capabilities for real cases.

<p>Activities carried out by the SAM Region on the approach to volcanic eruptions and the presence of volcanic ash clouds.</p>	<ul style="list-style-type: none"> ✓ By 2014: Promote the conduct of volcanic ash exercises involving AIS and MET areas, every year. ✓ Before 2014: Preparation of the Guide for preparation and issuance of SIGMET messages for CAR/SAM Regions; ✓ 2015: Preparation and approval of Volcanic Ash Contingency Plan for the SAM Region; ✓ Every year: MET and AIS Meeting where the Volcanic Ash Contingency Plans for MET and AIS have been reviewed; ✓ 2022: ATS/AIS/MET Coordination Meeting where procedures for a volcanic ash exercise were reviewed; 2023: Virtual Volcanic Ash Coordination Meeting for MET and AIS. ✓ 2023: Volcanic ash exercise preparation coordination virtual meeting (VOLCEX)
<p>Current situation of the SAM Region with respect to volcanic ash procedures</p>	<ul style="list-style-type: none"> - States located 10° S., to the south, are associated with the Buenos Aires VAAC. - States located 10° S., to the north, are associated with the Washington VAAC. - Not all States have volcanological observatories. Of the States that have volcanological observatories, 4 have operational agreements with the meteorological service provider and the air navigation service provider; - Eight States have reviewed and updated their ATS/MET Operational Agreements, which include volcanic ash procedures.
<p>Nature of the event</p>	<p>The event consists of two workshops to socialize volcano surveillance procedures and to coordinate the volcanic ash exercise to be carried out in September.</p>
<p>Competencies to be generated by the event</p>	<p>The event will provide capabilities for:</p> <ul style="list-style-type: none"> - Coordinate actions between agencies involved in volcano surveillance on international airways. - Coordinate actions between ATS/MET/AIS units for actual cases of volcanic eruption or presence of volcanic ash clouds. - Be aware of the procedures to be applied by ATS/AIS/MET units and air operators in case of volcanic eruption or presence of volcanic ash clouds. - Review and update the procedures of the Volcanic Ash Contingency Plan.
<p>Participant profiles</p>	<ul style="list-style-type: none"> ✓ AIS Inspector working at the Civil Aviation Authority. ✓ AIS personnel working at the International NOTAM Office. ✓ MET Inspector working at the Civil Aviation Authority. ✓ MET personnel working in the Meteorological Surveillance Offices. ✓ ATS personnel in charge of Air Traffic Management.

<p>Next steps in strategy development</p>	<p>In accordance with regional strategy timelines:</p> <ul style="list-style-type: none"> ✓ Conduct the volcanic ash exercise in the coming months; ✓ Evaluate the exercise and recommend opportunities for improvement. ✓ Continue to review the internal operational agreements of the air navigation service provider and with other agencies involved in volcano surveillance. ✓ Continue to promote periodic volcanic ash exercises.
<p>Contact personnel at the SAM Office</p>	<p>Mr. Jorge Armoa Cañete Regional Aeronautical Information Management and Aeronautical Meteorology Officer (AIM/MET) ICAO South American Regional Office jarmoa@icao.int</p> <p>Mr. Fernando Hermoza Huber Regional Air Traffic Management and Search and Rescue Regional Officer (ATM/SAR) ICAO South American Regional Office fhermoza@icao.int</p> <p>Mr. Roberto Sosa España Regional Air Traffic Management and Search and Rescue Regional Officer (ATM/SAR) ICAO South American Regional Office rsosa@icao.int</p>



ATTACHMENT B

RLA/06/901 - VOLCEX WORKSHOP and VOLCANO SURVEILLANCE WORKSHOP ON INTERNATIONAL AIRWAYS

Lima, Peru, June 17 - 20, 2024

TENTATIVE AGENDA

A) VOLCANO SURVEILLANCE WORKSHOP ON INTERNATIONAL AIRWAYS

Agenda Item 1: Workshop Objectives / General Introduction

This agenda item will include a general presentation of the objectives of both workshops. Emphasis will be given to the monitoring procedures and the objectives of the volcanic ash exercise.

Agenda Item 2: Volcanological Observatories

Under this agenda item, the volcanological observatories will be invited to introduce the following topics:

- a) Volcano Surveillance Mechanisms in their area of responsibility;
- b) Coordination with VAACs;
- c) Implementation of VONA; and
- d) Cooperation agreements with the Civil Aviation Authority and the Aeronautical Meteorological Services.

Agenda Item 3: Volcanic Ash Advisory Centers (VAACs).

Volcanic Ash Advisory Centers will be invited to share information related to:

- a) Procedure and means of monitoring volcanoes;
- b) Procedure for the generation and dissemination of products produced by the VAACs;
- c) Mechanisms for advising users;
- d) Backup procedure among the VAACs; and
- e) Procedure for the transfer of responsibilities between VAACs.

Agenda Item 4: Use of information generated by the Volcanological Observatories and VAACs

Under this agenda item, information will be provided on the use of the information generated and distributed by the VAACs, by the VAACs:

- a) Meteorological Monitoring Offices (MWO)
- b) International NOTAM Offices (NOF)
- c) Air Traffic Units

Agenda Item 5: Impact of volcanic activities and volcanic ash clouds on air operations.

B) WORKSHOP ON VOLCANIC ASH EXERCISE (VOLCEX)

Agenda Item 6: Volcanic Ash Exercise Protocol.

Under this agenda item, the exercise coordinator will present the protocols for the volcanic ash exercise for both the Buenos Aires VAAC partner states and the Washington VAAC partner states.

Agenda Item 7: Coordination for exercise activation (VONA and special AIREP).

The Volcanic Ash Exercise Coordinator will indicate the actions to be requested to the assigned Volcanological Observatories to initiate the volcanic ash exercise and to the air operators for the issuance of space AIREPs for visualization of ash clouds or volcanic eruption.

Agenda Item 8: VAACs Action: Messages to be distributed by VAACs.

Under this agenda item, the VAACs involved in the exercise will be invited to present the actions they will implement during the exercise, as well as the VAA messages that will be distributed during the duration of the exercise.

Agenda Item 9: Action by Meteorological Watch Offices (MWO) and International NOTAM Offices (NOF)

Under this agenda item, MWOs and NOFs will be invited to present their use of VAA messages received from VAACs for the preparation of SIGMETs for Volcanic Ash and ASHTAM, respectively..

Agenda Item 10: Action by air traffic units

The air traffic units of the air navigation service providers will be invited to present the actions they will implement during the exercise.

Agenda Item 11: Action by air operators.

Airline representatives will be invited to report on the actions they will take to support the exercise.

Agenda Item 12: Conclusions/Surveys of both Workshops

Prior to the conclusion of the Workshop, a web site or form will be made available with a survey on the development of the workshops, as well as for recommendations on opportunities for improvement.

RLA/06/901 - VOLCEX WORKSHOP and VOLCANO SURVEILLANCE WORKSHOP ON INTERNATIONAL AIRWAYS

Lima, Peru, June 17 - 20, 2024

TENTATIVE WORK PROGRAM

Time	Monday, June 17	Time	Tuesday, June 18	Time	Wednesday, June 19	Time	Thursday, June 20
0800 0830	Registration of participants	0830 0930	Item 3. Volcanic Ash Advisory Centers (VAACs)	0830 0930	Item 6. Volcanic Ash Exercise Protocol	0830 0930	Item 10. Action by air traffic units
0830 09:00	Opening Ceremony				Item 7. Coordination for exercise activation (VONA and special AIREP)		
09:00 0930	Item 1. Workshop Objectives / General Introduction						
<i>0930 0950</i>	<i>Coffee Break</i>	<i>0930 0950</i>	<i>Coffee Break</i>	<i>0930 0950</i>	<i>Coffee Break</i>	<i>0930 0950</i>	<i>Coffee Break</i>
0950 1210	Item 2. Volcanological Observatories	0950 1210	Item 3. Volcanic Ash Advisory Centers (VAACs)	0950 1210	Item 8. VAACs action: Messages to be distributed by VAACs	0950 1210	Item 11: Action by air operators.
<i>1210 1310</i>	<i>Lunch Break</i>	<i>1210 1310</i>	<i>Lunch Break</i>	<i>1210 1310</i>	<i>Lunch Break</i>	<i>1210 1310</i>	<i>Lunch Break</i>
1310 1530	Item 2. Volcanological Observatories	1310 1530	Item 4. Use of information generated by the Volcanological Observatories and the VAACs	1310 1530	Item 9. Action by the Meteorological Watch Offices (MWO) and the International NOTAM Offices (NOF)	1310 1530	Item 12. Conclusions/Surveys of both Workshops
		Item 5. Impact of volcanic activities and volcanic ash clouds on aircraft operations					

- END -