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INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

**WACAF workshop on the
provision of information on
volcanic eruptions and ash
clouds**

16 to 20 June 2025



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Mapping challenges and Perspectives

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Outline

- Introduction
- Challenges and perspectives

Introduction

- Aviation is only concerned with the explosive type of eruption, which presents a direct threat to aircraft in flight and major operational difficulties to aerodromes located downwind of the resulting ash cloud.
- The provision of warnings to aircraft in flight and aerodromes downwind of volcanic eruptions and volcanic ash clouds necessitates close operational coordination between the international aviation community, aviation meteorologists and vulcanologists.
- Vulcanological observatories are the first line of defense. If an explosive eruption is observed or if the analysis of the monitoring data indicates that such an eruption is imminent, this information must be sent quickly through pre-arranged channels of communication to an agreed list of recipients, including the civil aviation and meteorological authorities, and then to pilots of aircraft which could be affected.
- From the experience, challenges were noted in the preparedness and response of aviation system to volcanic eruption.

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Challenges and perspectives

Challenges	Perspectives
Unpredicted volcanic eruptions	Improve capacity of Volcano Observatories for monitoring and forecasting
False alerts on volcanic eruptions	
Late response time to volcanic eruptions	Ensure effective communication links are in place
	Improve coordination among all actors
	Increase awareness of operating personnel
	Establish and maintain Standard Operating Procedures
	Conduct regular volcanic ash exercise
Inconsistency of messages	Issue regular test messages
Multiple sources of information	Enhance information management
Damage of aerodrome facilities	??



Thank you!
Merci beaucoup!