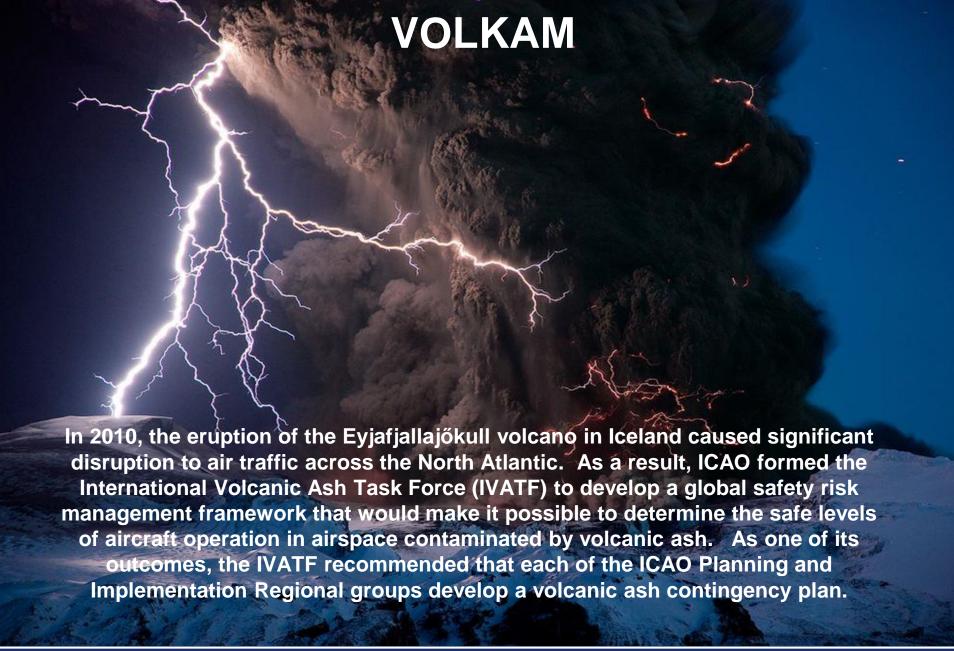
VOLKAM & Lessons Learned





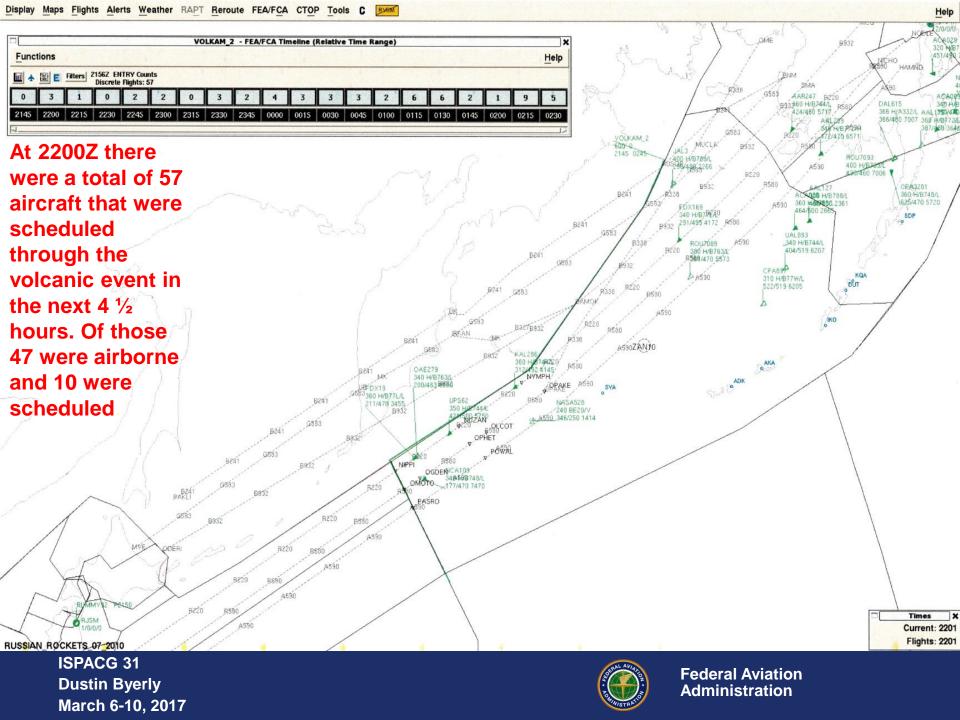
The ATC responsibilities are covered in ICAO Doc 4444 par 15.8:

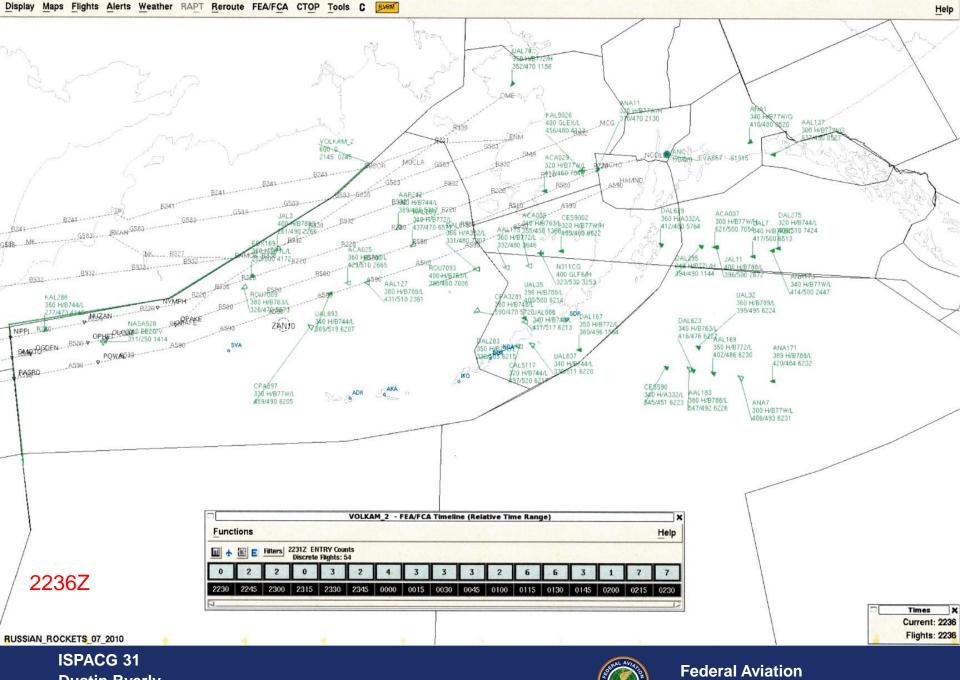
15.8 PROCEDURES FOR AN ATC UNIT WHEN A VOLCANIC ASH CLOUD IS REPORTED OR FORECAST

- 15.8.1 If a volcanic ash cloud is reported or forecast in the FIR for which the ACC is responsible, the controller should:
- a) relay all information available immediately to pilots whose aircraft could be affected to ensure that they are aware of the ash cloud's position and the flight levels affected;
- b) suggest appropriate re-routing to the flight crew to avoid an area of known or forecast ash clouds;
- c) inform pilots that volcanic ash clouds are not detected by relevant ATS surveillance systems;
- d) if the ACC has been advised by an aircraft that it has entered a volcanic ash cloud the controller should:
 - 1) consider the aircraft to be in an emergency situation;
- 2) not initiate any climb clearances to turbine-powered aircraft until the aircraft has exited the ash cloud; and
 - 3) not initiate vectoring without pilot concurrence.

Note.— Experience has shown that the recommended escape maneuver for an aircraft which has encountered an ash cloud is to reverse its course and begin a descent if terrain permits. The final responsibility for this decision, however, rests with the pilot.

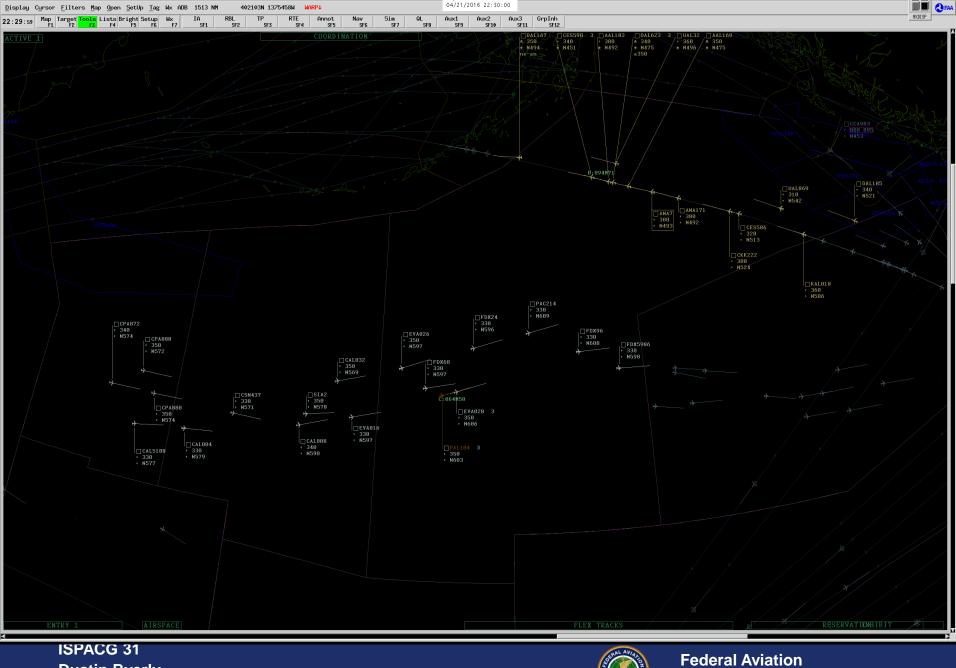






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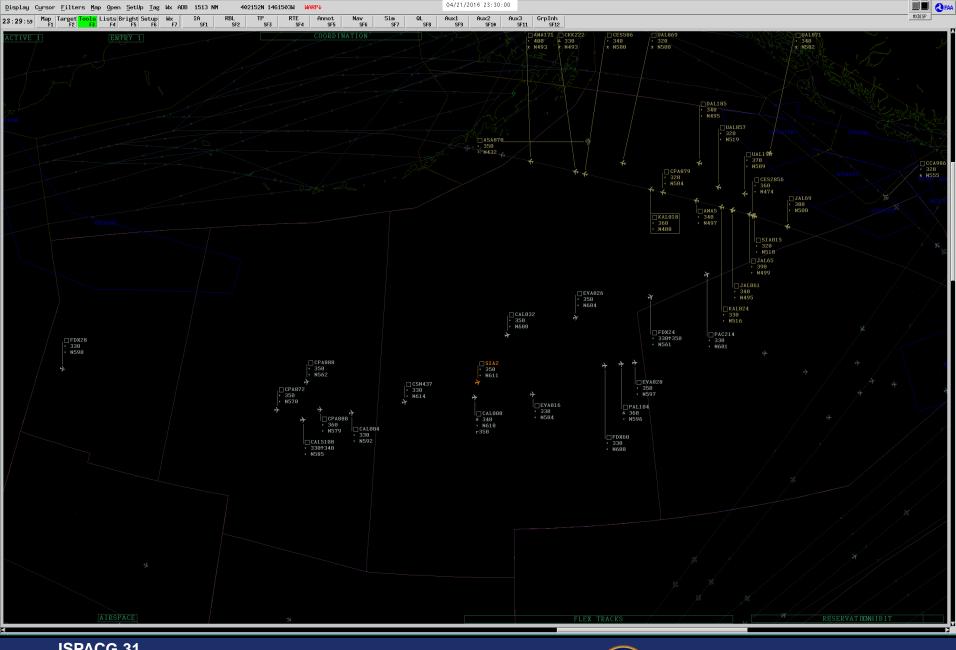


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Federal Aviation Administration

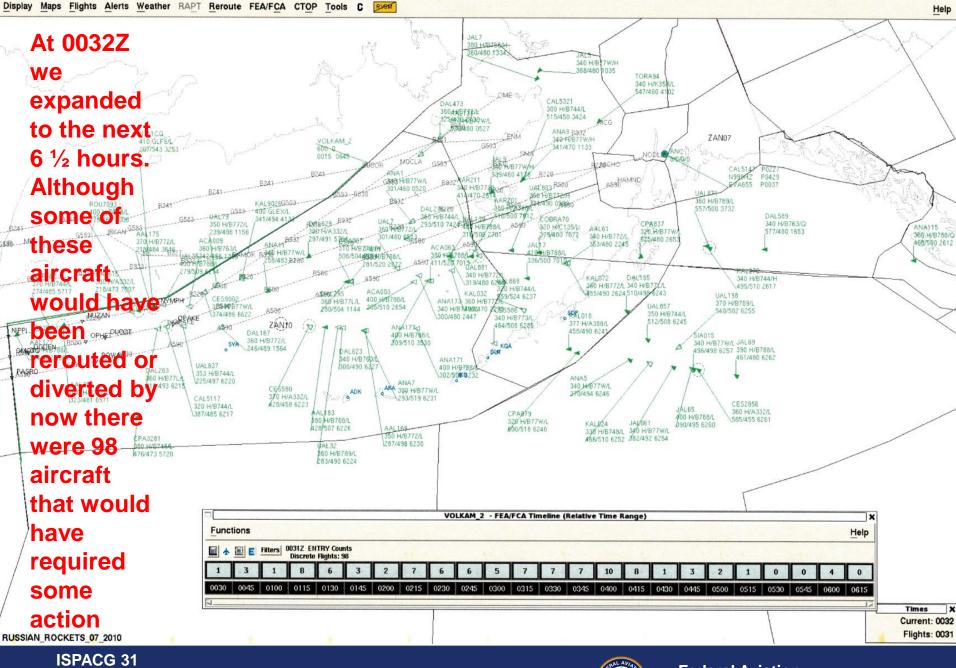


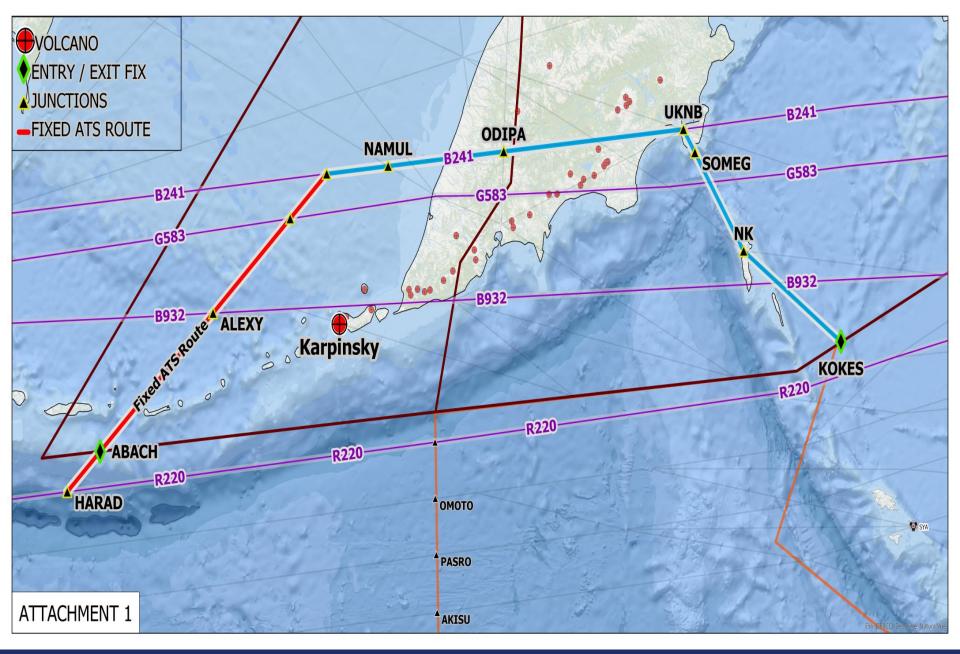
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Federal Aviation Administration





Lessons Learned

- Communication is paramount.
 - ANSP to ANSP
 - ANSP to Airlines
 - TMU to Controller
 - Controller and Flight Crews
 - VAC to ANSP'S
- Work with Airlines and ANSP's to create canned routes.

Oakland VA Active Guidance

- If time permits, have the ATCSCC schedule a teleconference with the International Operators, Japan ATMC and Anchorage ARTCC.
- The telecon would ideally be at least 1 hour from the current time to allow the operators to get the correct personnel on the telecon, however timing may not permit advance notification to the operators.
- When conducting a Volcanic Ash Telecom send a High Priority email to the Oceanic Critical Event Contact List advising of the telecom details.

Oakland VA Active Guidance

 On the telecom discuss the VA plume and options for managing the traffic. Get operator feedback and develop a plan.

Advise adjacent ANSP's that tactical reroutes have commenced

VOLKAM

- The VOLKAM/17 exercise is planned for April 2017
- The review of VOLKAM/16 emphasized the importance of operator participation. Real time data collection, during the 3 hour exercise, revealed more than 100 aircraft traversed the simulated volcanic ash area yet fewer than 20 operators actually participated in the exercise. The review stated, "The airlines that were involved will be much more prepared to deal with a real time event than those who have chosen not to participate. From an ANSPs perspective, this lack of participation could lead to airlines not being prepared to deal with a real time eruption and possibly overloading the ANSPs."
- Operators are urged to consider participating in VOLKAM/17
- The ICAO point of contact for the EUR (EAST) VOLCEX/SG is:
 Mr. Christopher Keohan
 ckeohan@paris.icao.int



VOLKAM17 Exercise



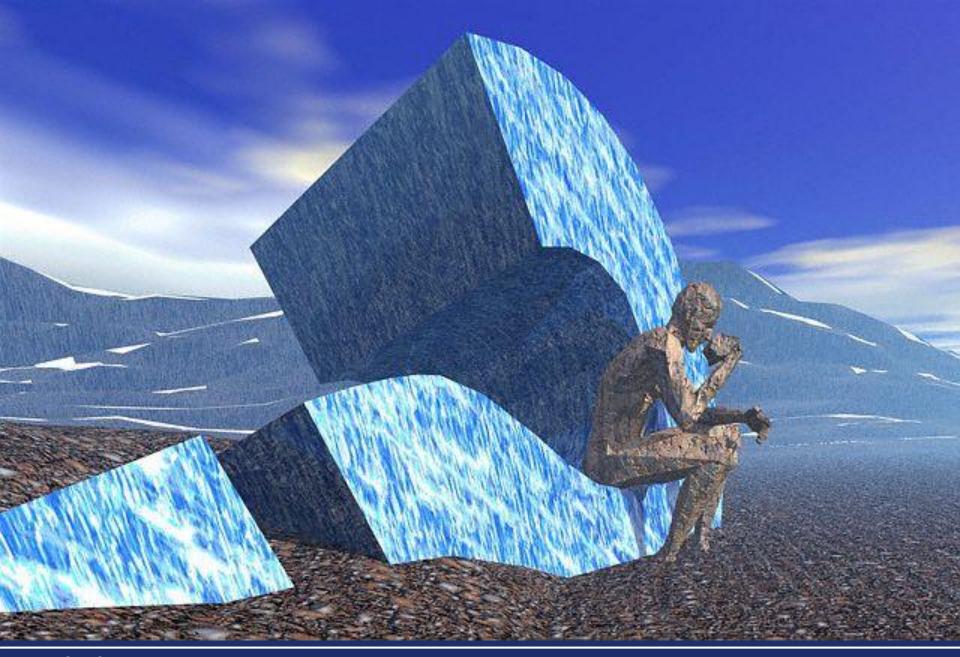
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VOLKAM

 The meeting is invited to note the information provided.





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