



Eyjafjallajökull and Aviation

What happened and what needs to be done?

Günther Matschnigg

Senior Vice President, SO&I

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Historic Volcanic Eruptions

- 1980, Mt. St. Helens, US – 727 and DC-8 experienced damage
- 1982, Galunggung, Indonesia – 747s experienced engine damage
- 1989, Mt. Redoubt, US – Engine damage on a new 747-400
- 1991, Mt. Pinatubo, Philippines – US operator grounded planes for several days
- 1997, Mt. Popocatepetl, Mexico – Airport closed for up to 24hrs several times

Eyjafjallajokull Erupts

- Severe eruption – 14 April
- Airspace closed 15-21 April



IATA Volcanic Ash Crisis Center

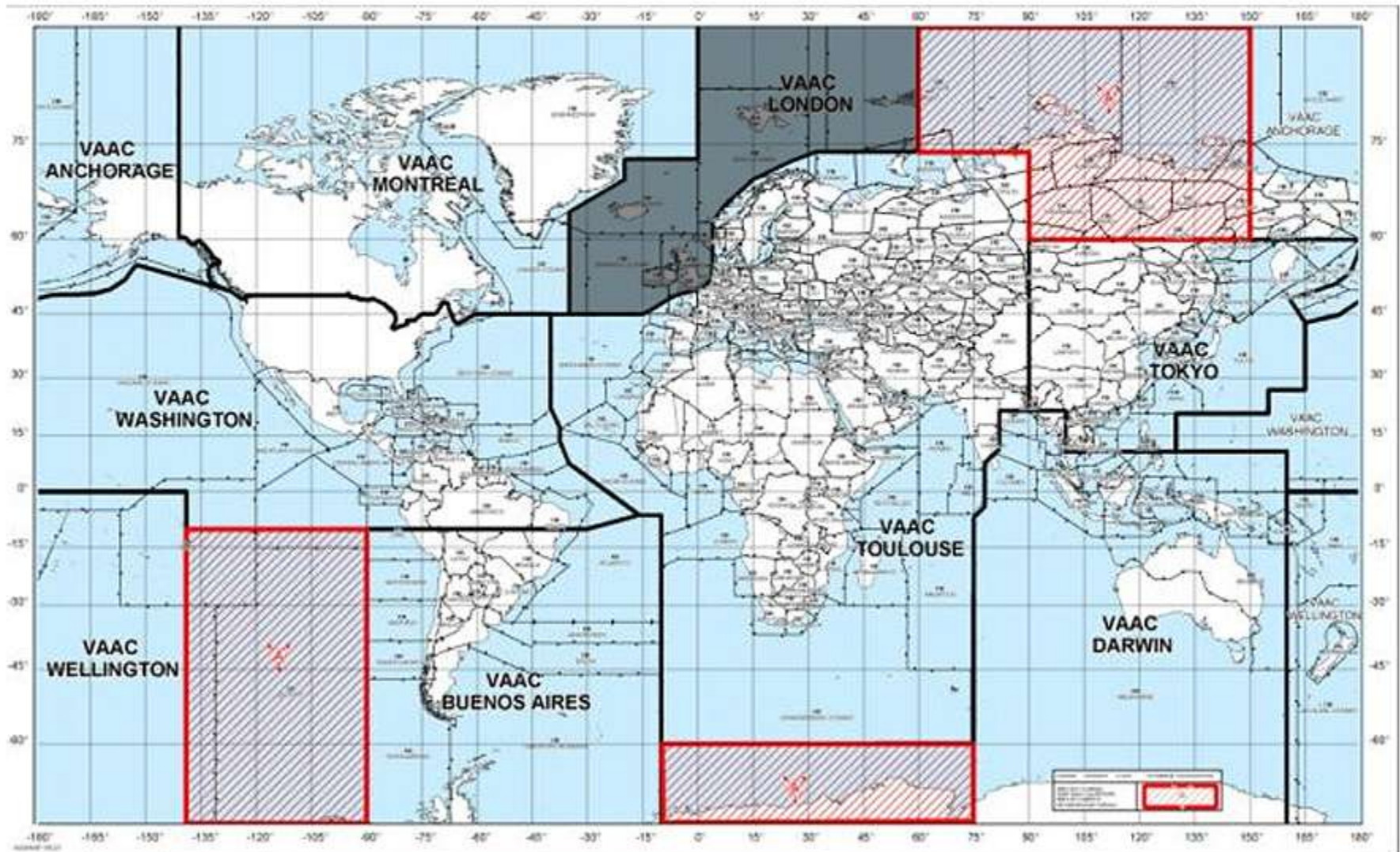


IATA's Actions

- IATA's Crisis Center: Safely re-open airspace
 - Information to members
 - Liaison with European governments, EC
- IATA's tactical role: 24/7 support
 - Eurocontrol CFMU
- IATA's lobbying role
 - Special ICAO Council meeting
 - UK NATS, ECTL, EASA, EC and manufacturers

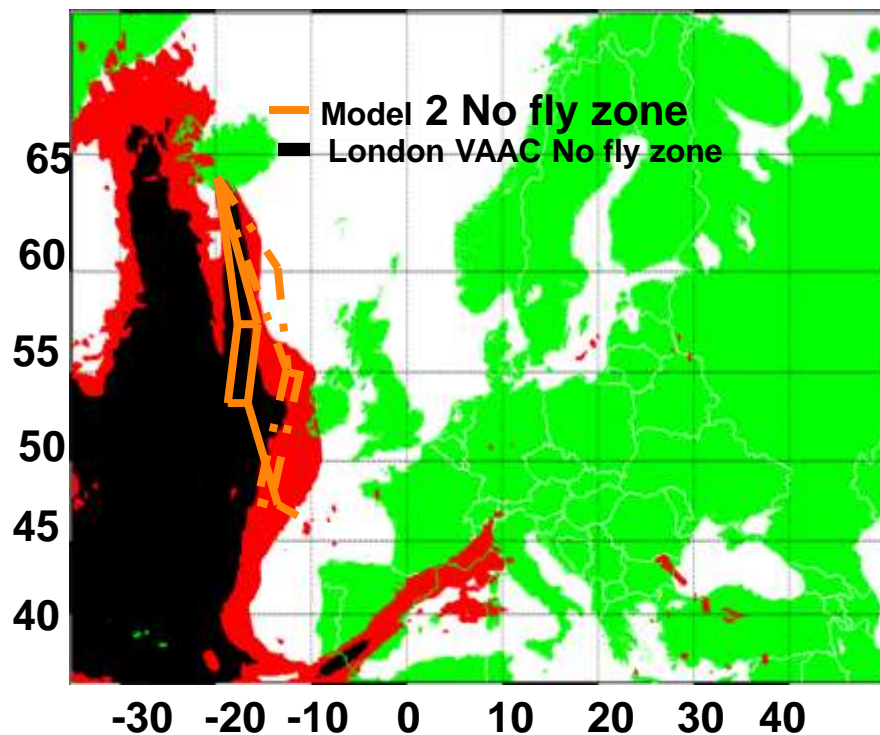
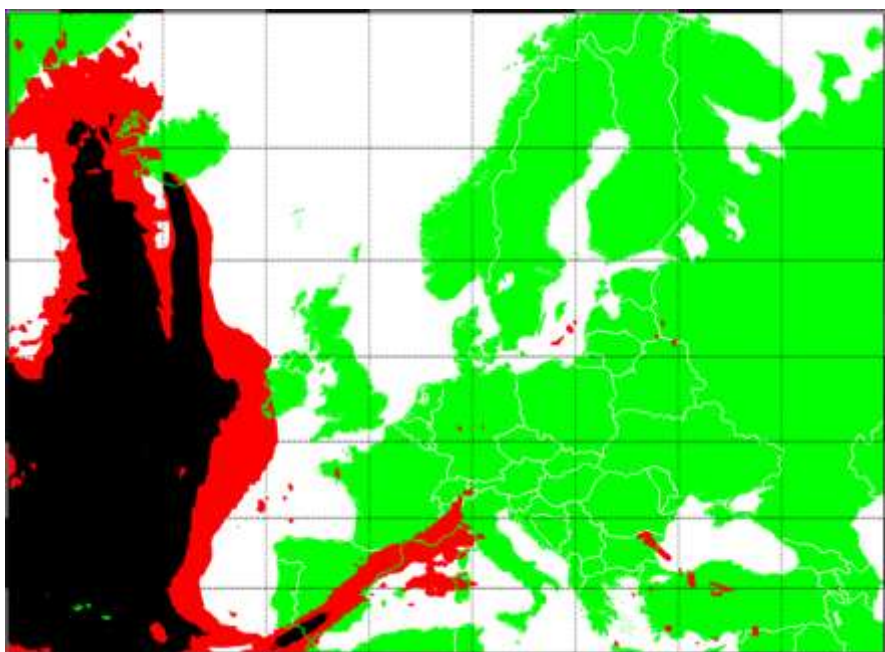


Volcano Ash Advisory Centers



Improvement over time

Example of Overlay at 1900z 11May 2010



Poor Decision Making Process-Europe

- VAAC-risk averse approach not risk management
 - Overly conservative mathematical model
 - Lack of operational expertise and familiarity
- EC, ECTL, EASA, ICAO-Europe, States-lack of coordination

Airline Safe Operations

- Tried and tested methodology for operational procedures
- Treated like all other adverse weather phenomenon
- Timely information flows to decision makers
- Pilot Reports used to update current ash forecasts
- Maintenance checks support safe aircraft operations
- Manufacturers data to support decisions

Lessons Learned

- VAAC over conservative
- Lack of a coordinated response/decision making in Europe
- Despite a rigorous maintenance regime almost no findings of ash
- Passenger facilitation needs to be considered in crisis planning
- Compensation rules were never intended to cover events like the volcano

IATA Recommendations – June 2010

- Operator's decision with standardized operational procedures
- Enhance Volcanic Ash Modeling
- Accelerate the Single European Sky (SES) implementation
- Create a Crisis Contingency Center (Europe)
- ICAO Volcanic Ash Task Force



Cost of Iceland Volcano Disruption

- US \$200 million per day for airlines = US \$1.7 billion (est)
- US economy – US \$650 million (est)
- EU economy – US \$450 million (est)
 - **TOTAL estimated costs = US \$2.8 billion**
- Airlines already facing serious financial difficulties





Thank you

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