Aviation Crisis Management in Europe

Latest developments

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Aviation Crisis Management in Europe
Latest developments

1. Crisis management in Europe - evolution
2. Latest developments on volcanic ash
3. Tools in support of crisis management
4. Crisis management events in 2013 (if no real crisis... )
1. Crisis management in Europe - evolution
From disruption to crisis

Crisis

Major disruption

Day-to-day ops
European Aviation Crisis Coordination Cell (EACCC)

Coordinate management of response to the network crisis affecting aviation in Europe

Activated when circumstances beyond normal environment of ops are evident

Members
- Airlines
- ANSP
- Military
- State focal points

EACCC
EACCC info gathering in crisis

Contact impacted states

VAAC London

VAAC Toulouse

Met Office

AIRPOL

enisa

NATO

OTAN

EACCC

Contact other states

State focal points

State focal points
EACCC activation - Grimsvötn eruption, 2011

- 21 May – 29 May - ash plume up to 20km
- 22 May - EACCC activated
- Impact: Iceland, Scandinavia, UK, Germany
- ~900 flights cancelled
Possible threats

- Volcanic ash dispersion
- Nuclear emissions dispersion
- War
- Hazardous chemicals dispersion
- Fire
- Security threats (terrorism)
- Airborne spread of diseases/Pandemic
- Earthquake
- Flooding
- Major failure of a pan-European function
- Industrial action or unavailability of a major or several ANSPs
- Massive cyber attacks
- Heavy meteorological conditions
- Shortage of fuel in Europe
- Threat from space (e.g. satellite, space weather, etc.)
Top three?

- Cyber Attack
- Nuclear
- Security (terrorism)
2. Latest developments on volcanic ash
Latest developments – ICAO EUR TF

ICAO EANPG/COG Volcanic Ash Task Force

- Task: consider possible changes to the EUR & NAT Region Contingency Plan (EUR Doc 019) as a result of the outcome of the International Volcanic Ash Task Force (IVATF)

- Actions:
  - Identify changes in VA eruptions and the response from the aviation community since 2010/11
  - Highlight to EANPG the current situation and indicate why changes to the Regional Contingency plan are not appropriate at this juncture

“inadvisable to drop the use of concentration charts … as these now formed an essential part of the SRA process”
Latest developments – EUR VAACs

- VAACs London and Toulouse have started work on enhancements to the additional volcanic ash products which will make the charts more closely related to what is observable from satellite imagery. The final proposal is expected to be presented early in 2013.
States SRA Questionnaire

1. Have you been submitting to EASA a list of AOs registered in your State that had their SRA accepted by your NAA/NSA?

2. In what areas of ash concentration will AOs be allowed to operate based on their SRA:
   - high, medium and low,
   - medium and low,
   - low,
   - none?

Common acceptance of SRA of airlines:

3. Will you allow such AOs to base their decisions on conclusions of their SRA when operating in the airspace of your State?
   a) if the AO is registered in a European Union state
   b) if the AO is registered in a non-European Union state

EACCC initiative, Apr 2012
Replies – decision making

Prohibiting flight operations

- H – HIGH ASH CONCENTRATION
- HM – MEDIUM ASH CONCENTRATION
- HML – LOW ASH CONCENTRATION
- None
- TB defined
Replies – common SRA recognition

Common SRA recognition

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3. Tools in support of crisis management
EVITA

- Input: ash concentration data, NOTAM, user defined areas
- Output: charts, impacted flights, aerodromes, sectors

Since 1st July 2011 available for local training

EVITA supporting VOLCEX13/01

Access open for AO’s to plot in EVITA

EVITA User Guide
ICAO Volcanic Ash Contingency plan - Reporting

Pilot encountering Volcanic ash

ATS Unit (ATCO)

Airborne pilots

Further links will depend on the regional & national arrangements

Airline dispatch

Further links will depend on the airlines’ & national arrangements

ACC Supervisor (ANSP)

Adjacent sector & ACC

Airborne pilot

National Regulator

Regional ATFM

AIS/NOF

VAAC

MWO

Links to the DB will depend on national regional & global arrangements.

National/ regional /Global DB
Airline dispatch

AO flt ops

ACC Supervisor (ANSP)

ATS Unit (ATCO)

Pilot encounters hazard

Pilot

Network Mgr

Network Manager

Report repository database

NOP Portal

Reporting - proposed additional flow in Europe

NOP users

ANSPs/FABs

AOs

EASA

NSAs/NAAs

...
Crisis management training

**What:** E-learning - web based training

**State Focal Points**

ANSPs, AOs, airports, military staff involved in crisis management, ...

**When:** 2013
4. Crisis management events in 2013
- 20 Mar – ‘Space Weather – Effects on Aviation: Building an effective response for Europe’ (organised jointly by Network Manager & EASA)

- 23-24 Apr – ICAO VOLCEX 13/01 volcanic ash exercise

- 29-30 May - EACCC cyber-attack exercise

- 27 June – Aviation crisis management event
Thank you!

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