Eyjafjallajökull, volcanic clouds, and aviation - one year on

Location: Travelodge Southbank Melbourne
Cost: $112 includes morning and afternoon tea and lunch on day 1, morning tea on day 2
Leaders: Andrew Tupper (Australian Bureau of Meteorology), Fred Prata (Norwegian Institute for Air Research), Arnau Folch (Barcelona Supercomputing Centre)

Times:
Friday 8th July: 0930 – 1630, Saturday 9th July: 0930 - 1200

Notes – lead presenters are listed but there will be a lot of expertise in the room: ~1/3 time will be allocated to questions and discussion.

Friday 8th July		Chair	Lead Presenter (s)
0930 - 1000	Welcome and self-introductions	Andrew Tupper	
1000 - 1030	Introduction to remote sensing (including Q&A)		Fred Prata
1030 – 1100	Introduction to ash forecasting		Arnau Folch
1100 – 1130	Morning tea		
1130 – 1200	Introduction to VAAC operations	Raul Romero	Andrew Tupper
1200 – 1300	Eyjafjallajökull – one year on.	Andrew	Fred & Arnau
1300 -1345	Lunch		
1345 – 1430	Grímsvötn – more Icelandic fun		Fred & Arnau
1430 - 1445	Puyehue - Cordón Caulle introduction	TBA	Simon
1445 – 1515	Cloud evolution part one - into the Indian Ocean (& continuing emissions)		Arnau & Fred
1515 - 1530	Afternoon tea		
1530 - 1600	Cloud evolution part two – across Australia/NZ and into the Pacific		Rebecca Patrick (Darwin VAAC) and Marcel Roux (Wellington VAAC)
1600 – 1630	Open discussion		
1630 →	Drinks at a Southbank venue?		
Saturday 9th July			
0930 - 1030	Cloud part three (another circuit & beyond)		Arnau & Fred
1030 - 1045	Morning tea		
1045 – 1130	Open discussion		
1130 – 1150	Issues to be included in workshop report		
1150 - 1200	Meeting close		Fred, Arnau, Raul Romero

The Eyjafjallajökull eruption, resulting in ground and air disruption with an estimated US $5 billion in costs to aviation, was arguably the biggest headline in volcanology since the 1991 Pinatubo eruptions. To complement the relevant (JV01, JV08) science sessions at IUGG 2011, and with the benefit of a year's post-analysis, a 1.5 day discussion and tutorial workshop will delve deeper into some of the bigger issues arising, including:

1. Volcanic activity and aviation hazards
2. Ash detection from satellites - science, applications and examples from Eyjafjoll
3. Dispersion modelling
4. Operations - The role of the VAACs and the regulatory environment, and proposed warning system developments through the International Civil Aviation Organisation's Task Force on the eruption.
5. "Table-top" volcanic ash event simulation - understanding how science and operations connect.
6. The recent Grímsvötn (Iceland) and Puyehue-Cordón Caulle (Chile) eruptions will also be discussed