

**FIELDTRIP: The effects of environment on eruption processes and deposit types: a comparison of the subaerial and subaqueous bimodal volcanics of the Late Devonian Boyd Volcanic Complex, south coast of New South Wales  
("Fieldtrip to Paradise")**

**Leaders:** Ray Cas (*Monash Univ., University of Tasmania*) and Jozua van Otterloo (*Monash Univ.*)

**Dates:** Sunday 5<sup>th</sup> to 7<sup>th</sup> February (inclusive), 2017 (Post-conference)

**Fieldtrip themes:** The Boyd Volcanic Complex provides a unique opportunity to assess the impact of environment on eruption styles and deposits in the same bimodal volcanic succession by being able to compare a subaerial succession with an equivalent deep-water subaqueous succession. The volcanics are dominated by rhyolite lavas, syn-depositional intrusions, hyaloclastites, peperites, autobreccias and pyroclastics, but there are also spectacular exposures of basaltic deposits. The setting was an extensional tectonic basin system. Excellent to outstanding coastal exposures preserve fantastic textural examples of key subaerial and subaqueous deposit types, and provide opportunities to discuss deposit origins and the constraints.

**Schedule and itinerary:**

- Fly from Hobart to Merimbula on Saturday 4<sup>th</sup> February. Fare not included in fieldtrip fee.
- Stay nights of 4<sup>th</sup> to 7<sup>th</sup> February (inclusive) at the Black Dolphin Motel, 100 m from the beach.
- Depart from Merimbula, morning of 8<sup>th</sup> February. Costs not covered by fieldtrip fee.
- Field days 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> February.
- Field Day 1: 5<sup>th</sup> February. Drive south from Merimbula to examine excellent coastal exposures of the subaerial rhyolite lavas and pyroclastics and basalts of the subaerial succession of the BVC around the town of Eden, discussing origins and setting. Swim at the end of the day.
- Field Day 2: Drive north of Eden to the Mimosa Rocks National Park (this really is Paradise!), to examine volcanics and sedimentary successions of the shallow water basin margin domains of the Bunga Beds basin. Swim at the end of the day.
- Field Day 3: Again drive north of Eden to the Mimosa Rocks National Park (yep, paradise again!), to examine fantastic exposures of the deep water volcanics, intrusions and sedimentary succession of basin centre, including lavas, cryptodomes, tuff and pumice cones, dykes, syn-depositional sills and dykes, hyaloclastites, peperites, etc. Discuss the constraints on eruption styles and deposits.

**Accommodation and Meals:**

- Twin share accommodation at the Black Dolphin Motel. Tariff includes breakfast at the motel.
- To keep fieldtrip costs to a reasonable level, lunches will be simple with a filled breadroll and fruit, and evening meals will range from a simple fish and chips takeaway meal on the beach, with refreshments, to a self-cooked BBQ with refreshments, to a local Australian pub bistro meal with a view (and refreshments), to a final night restaurant meal with a view, and refreshments.

**Transport:**

- Participants will have to arrange their own flights to and from Merimbula on Saturday day 4<sup>th</sup> February, flying from Hobart to Melbourne on Qantas, Jetstar or Virgin airlines, then by REX airlines to Merimbula. REX fly to and from Merimbula from Melbourne and Sydney, but flights are limited.
- We will use a minibus for field day transport.

**Fieldtrip fees:**

- The fieldtrip fee to Paradise in summer is Aust. \$780 per participant.
- The fee includes accommodation for 4 nights, meals, transport for field days.
- At the time of writing the US\$ 1.00 = ~Aust.\$ 1.30; Euro 1.00 = ~ Aust\$1.45.



Photos of Paradise (and some rocks):

