

KEA 208 – Earth Sciences

East Coast Tasmania Excursion 2009

Group A Saturday 14th – Wednesday 18th February

Leader: Garry Davidson

Group B Monday 16th – Friday 20th February

Leader: Peter McGoldrick

Attendance at the full excursion is compulsory for KEA208 and any student who does not complete the excursion will be ineligible to proceed with third year earth science units.

You have been assigned to Group A or B in order to keep the group numbers roughly the same; you **must** attend the trip you have been assigned to.

Read this notice carefully!

An itinerary is attached for your information, but is subject to changes at short notice to suit access, tides etc. A more comprehensive field guide will be provided at the pre-trip briefing on the morning we leave (see below).

Cost will be \$150 per student. This covers accommodation and transport, but **not food**. Payment must be made to Secretary at the School of Earth Sciences office the week prior to the trip, or during week 1 of semester 1. Failure to pay will lead to withholding of your results.

Buses will depart from the front of the Earth Sciences building at approximately 9.30 am on Saturday (Group A) or Monday (Group B) and will return late (about 5.30 pm) on the Wednesday or Friday, respectively.

Please be at the department entrance at 8.30 am in order to expedite loading and departure!

There will be a briefing in R237 before we leave to explain what we will see and do on the trip, so don't be late!

We will be using 12-seater buses for the trip and may have a covered trailer for equipment and your luggage. If you can, please stow your suitcases/packs etc into the trailers prior to the briefing, (buses and trailers will be secured while the briefing is taking place), or leave your gear by the globe in the foyer. Buses should arrive outside the Earth Sciences entrance at about 8.30 am for loading.

There will be **NO pickups en route**. Every student **MUST** leave with the main group from the University.

Private vehicles are not permitted.

For the first two nights we will be staying in St Helens at Queechy Cottages (www.queechycottages.com.au) and at Iluka Holiday Centre (<http://iluka-holiday-centre.tas.big4.com.au/>) in Coles Bay for the last two nights. Accommodation at Queechy is in 3.5 star, comfortable, furnished cabins. At Iluka you will be in 5 berth 'cosy cabins'. We may need to allocate you to cabins prior to arriving, because (for legal reasons) the management must have names for everyone checking in. It may be possible to re-arrange people once we have checked in.

The cabins have cooking facilities, or you can walk to shops (15mins for St Helens, 2 minutes for Iluka) and eat at a take-away or the pub. Supplies are available from stores in St Helens, and there is a small grocery shop next to Iluka. You will need to bring a lunch to eat in the field most days, as we may not be close to shops. Be sure to carry ample drinking water as well.

We plan to depart Queechy Cottages each day at **8.00am sharp** and we will endeavor to be back at camp about 5.30 pm. There will be a compulsory meeting each night after dinner to discuss the day's activities. You will have work to complete most nights, and this will form part of your assessment (see below).

Cabins have bedding and towels, but you may want to bring your own beach towel.

You must supply your own:

- pens, erasers, and coloured pencils
- a rigid A4-sized board and 3 or 4 large bulldog clips
- **everyone must have a hand lens!**
- a **geological hammer** is desirable (if you intend doing Geology 3 definitely get one!)
- a magnet and a pocket knife/scratcher are very useful
- camera
- **waterproofs/ clothes and stout, comfortable footwear** for extended walking, often in scrub or on coastal rocks
- sunscreen lotion, insect repellent and a hat
- **safety glasses or sun glasses**, to eliminate the possibility of eye damage from rock chips.

Students who are subject to allergic reactions and or have medical conditions eg. asthma etc MUST ensure that they carry the appropriate medication with them on the excursion, and notify Garry Davidson (Group A) or Peter McGoldrick (Group B).

DURING YOUR STAY AT QUEECHY COTTAGES, AND DURING THE EXCURSION WHETHER IN UNIVERSITY CARS, ON CROWN LAND, OR ON PRIVATE PROPERTY, YOU WILL BE SEEN AS REPRESENTATIVES OF THE UNIVERSITY OF TASMANIA AND THE SCHOOL OF EARTH SCIENCES. NO LARRIKINISM, EXCESSIVE ALCOHOL CONSUMPTION OR ILLEGAL DRUGS WILL BE TOLERATED. OFFENDING STUDENTS WILL BE SENT BACK TO HOBART AT THEIR OWN EXPENSE AND FAIL KEA208.

FIELD NOTES, FIELD TESTS AND MEETINGS.

Detailed field notes are to be taken. These should be written in the spaces provided in the field guide and will be examined and marked (during the course of the trip if time permits). A number of field tests will be held at key outcrops/road sections. These will be done on paper provided, and must be handed in at the completion of the test. They will be returned to you and may be of use in preparing your report. Sedimentary logs and mapping exercises will also be marked. Each evening there will be a **compulsory** meeting to review the day's geology, and introduce the following day's program.

EXCURSION REPORT

A formal report covering one of the topics below must be submitted by 5.00 pm Friday March 28th in the box in the School of Earth Sciences Office (make sure a cover sheet – available from the office - is attached to your report). This report is to be based on your own observations made during the trip and to some extent on relevant literature. Detailed information on the structure and content of the report will be given later, but papers in the monthly journal 'Geology' are an excellent model for the structure of your report.

You will be assigned one of the following topics and must write between 2000 and 2500 words (not including the reference list).

Melts and magmatism in northeast Tasmania during the Devonian Period

The Mathinna Group in northeast Tasmania: deposition and deformation

The Parmeener Supergroup: a sedimentary record of environmental change during the Permian and Triassic

ASSESSMENT

The East Coast Excursion will count for 25% of your total KEA208 mark, broken down as follows:

Report (Due 5.00 pm March 27th)	15%
Field tests & field notes	10%

Note there is a late penalty of 1 mark (out of 15) per day (up to 5 marks per week); no report will be accepted after 5.00 pm Friday April 17th.

RECOMMENDED REFERENCES

There is no single reference that adequately covers the content and aims of this excursion. The principle aim of the trip is for you to learn a variety of field skills and begin to know how to recognise and describe rocks in the field. Best marks are obtained by people who adequately document their own observations made during the trip, and write in a fashion that clearly distinguishes OBSERVATIONS and DESCRIPTIONS from INTERPRETATION! The excursion report is NOT a literature review!

A publication available from Mineral Resources Tasmania (www.mrt.tas.gov.au) called "Geological Survey Bulletin 72 The Geology and Mineral Deposits of Tasmania: a summary" provides excellent overview of Tasmanian geology, contains some useful diagrams and is an excellent place to start.

Other, more detailed descriptions of the geology of NE Tasmania can be found in Mineral Resources Tasmania geological maps and explanatory notes, and the Geological Society of Australia special publication #15: Geology and Mineral Resources of Tasmania, 1989 (eds CF Burrett and EL Martin) is a systematic description of Tasmania's geology, but is becoming very dated in many areas. **YOU DO NOT NEED TO READ ANY OF THIS BEFORE THE EXCURSION**

Peter McGoldrick & Garry Davidson
Excursion Leaders

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Day 1. Oatlands area: Parmeener Supergroup sediments

Lunch stop at Campbell Town

Avoca: Oligocene basalt

Rossarden area: weathered granite, Pepper Hill cutting

o/n Queechy Cottages, St Helens

Day 2. Upper Scamander Rd: Mathinna Group sediments logging exercise & Mathinna Group structure; lunch in the field

o/n St Helens

Day 3. Tullochgorum road section; Mathinna road section

lunch in the field

Piccaninny Pt granite/Mathinna group contact

St Mary's Porphyrite (ignimbrite)

o/n Coles Bay Iluka Cabins

Day 4. Bicheno: Palaeozoic granites

(late) lunch at Bicheno

Friendly Beaches: Palaeozoic granite

Friendly Beaches: Permian cold water sediments

o/n Coles Bay

Day 5. Coles Bay: Palaeozoic granites; Wineglass Bay and/or Bluestone Bay

Lunch on the beach and return to Hobart by about 5 – 5.30pm

GROUP A		GROUP B	
1	Abbott Megan	1	Chandler William Charles
2	Chapman Shane	2	Cruickshank Hamish
3	Chugg Nicholas	3	Doran Daniel
4	Crocker Eloise	4	Gill Michael
5	Curtis David	5	Greene Joshua
6	Dare Jodie	6	Harris Jarod
7	Dudley Luke	7	Hosford Jonathan
8	Frank Peter	8	Lado Moses
9	Keogh Daniel	9	McMillan Nichola
10	Kroeze Robin	10	Miedecke Kate
11	Marsden Margaret	11	Mitiku Chalachew
12	Monk Imogen	12	Mulcahy Thomas
13	O'Brien Gerard	13	Neyland Dominic
14	Rae Andrew	14	Nolan Nicholas
15	Ross Stephanie	15	Stuart David
16	Virtue Jacob	16	Tang Kean Jou
17	West Christopher	17	Tomes Kara
18	McNab Sarah	18	Walford Hannah
19	Jacobs Amanda	19	Price Rowena
20		20	Leary Joe
21		21	Jensen Torsten
22		22	
		23	
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