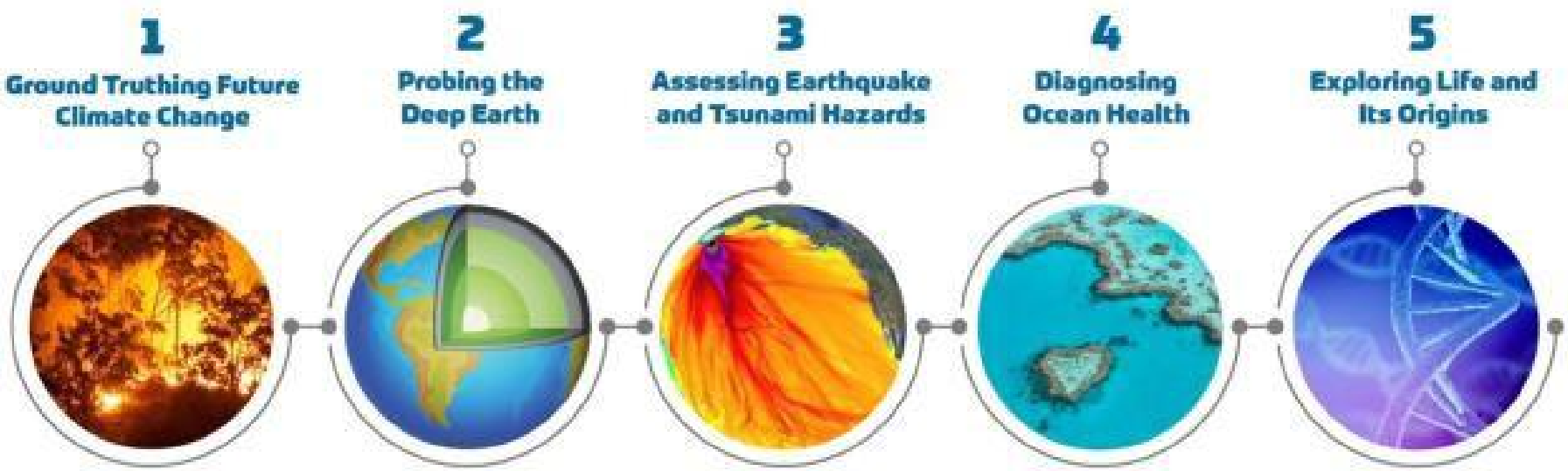
ANZIC Marine Geoscience Masterclass

Member Information Pack

Course Description

Embark on an extraordinary intellectual journey with our ANZIC Marine Geoscience Masterclass in January 2024. In Part 1, choose-your-own-adventure through uncharted territories aligned with the visionary themes of the International Ocean Discovery Program (IODP) 2050 Science Framework. There will be a series of guest lectures from internationally renowned researchers, and workshops to integrate theory with practical skills for real world applications in marine geosciences. Part 2 takes you to the Heron Island Research Station in the Southern Great Barrier Reef, Queensland. You will get field skills in a dynamic learning environment unravelling the secrets of modern reef systems through captivating activities, hands-on labs, and enlightening talks by experts.



Choose Your Learning Adventure in Marine Geoscience

Part 1

In small groups you will undertake a series of workshops at the University of Queensland and Queensland University of Technology around an IODP theme — Ground Truthing Future Climate Change, Assessing Earthquake and Tsunami Hazards, Exploring Life and Its Origins, Diagnosing Ocean Health, and Probing the Deep Earth.

A range of workshops will delve into a different facet of Earth science and exploration and provide insights into the latest advances in a range of fields including geochemistry, geophysical modelling, micropaleontology and more. Led by renowned experts, these workshops promise an unforgettable experience, which will fuel your curiosity and nurture your scientific passion. So, choose your adventure, and get ready to navigate the captivating landscape of Earth science and exploration.

Photo: UQ Heron Island - Coral Reef Researcher 1970

Part 2

Fieldtrip to Heron Reef - Modern Biology with Ancient Beginnings

Part 2 of our ANZIC Marine Geoscience Masterclass will be the experience of a lifetime at Heron Island Research Station on the Great Barrier Reef. Engage with research and teaching collections from academic hosts, immersing yourself in this spectacular world heritage environment.

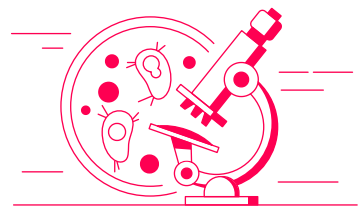
You will dive into modern reef systems through captivating activities like reef walks, snorkelling, surveys, exploring a range of tropical carbonate ecosystems, unravelling geomicrobiology secrets, hands-on lab work, small AUV robotics, and enlightening talks linking this modern reef system to recent IODP expeditions which study past changes in coral reef ecosystems and climate change.

Engaging sessions will delve into subjects like the Great Barrier Reef Marine Park Authority (GBRMPA), indigenous knowledge, Halimeda Bioherms, Dorothy Hill's legacy, and the impacts of past climate and sea level change on the Southern Great Barrier Reef.

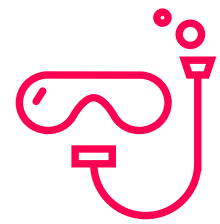
Your journey starts now - where will your curiosity lead you?

What is included?

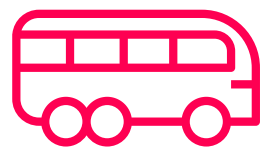
Your dorm style accommodation will be provided. See page 7 for further details.



All workshops, field trips and presentations will be included.

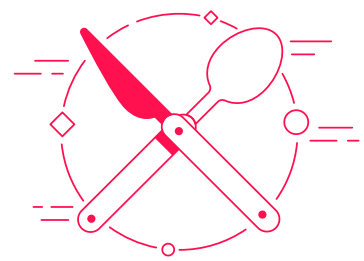


Heron Island field trip will include your accommodation, boat transfers to and from the island, meals and snorkeling gear/equipment.



Transfers return from Brisbane to Gladstone will be included.

Your transfers to and from the airport and campuses will be reimbursed to you. The convenors will give you a reimbursement form to fill out before you leave. Please keep your receipts/tickets to be able to claim.



Some meals will be provided and some you will may need to pay/purchase. However, you will be able to claim for these expenses through a reimbursement. The welcome dinner and meals on Heron Island will be provided.

Schedule*

15 January 2023

Welcome/Arrivals
The Women's College
College Rd
St Lucia University of Queensland

6:00pm

ANZIC Welcome Dinner
Meet & Greet
Venue to be confirmed

16- 19 January 2023

Workshops and Presentations**

20 January 2023

Charter Bus to Gladstone
Overnight accommodation in Gladstone

21-23 January 2023

Heron Island field trip

24 January 2023

Return to University of Queensland
The Women's College

25 January 2023

Last Day - Farewells

* Schedule is subject to changes at any time
**Separate schedule will be provided when final numbers are confirmed

College Road
St. Lucia, QLD, 4067, AUSTRALIA
Phone: 61-7-3377 4500
https://www.womens.uq.edu.au/contact/

Accommodation

The Women's College

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA

Accommodation is single room with shared bathroom and includes linen, towel, laundry facilities and breakfast daily. Students will have access to the wireless internet.

Directions from Brisbane Airport to The Women's College
Public Transport

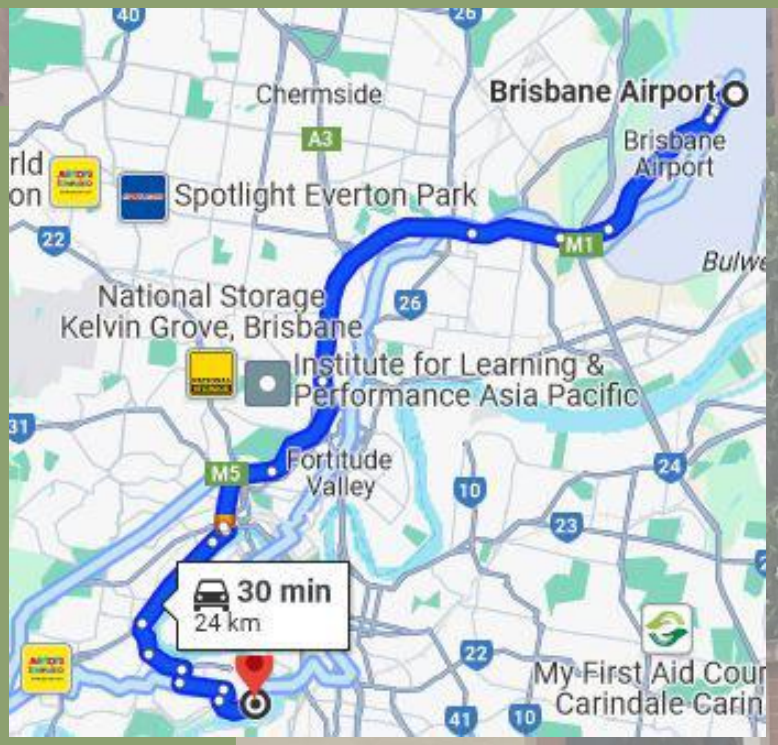
Domestic Airport Train Station
Take the Airtrain Brisbane Gold Coast - Park Road Station

Walk - 3 minutes to Boggo Station

Bus Woolloongabba UQ Shuttle - Platform 6 to UQ Lake Station

Walk - 4 minutes 300 m to The Women's College University QLD

Link to google map directions: https://goo.gl/maps/XF5JBDXZacwvWkYY9



Taxi - 30minutes $100+
Brisbane International Airport to St Lucia, University of Queensland. Yellow Cab Co: **13 19 14.**
Charges will vary always check the price.

Uber - 30 minutes $50-75+
www.ttps://www.uber.com/au/en/drive/brisbane/get-started/

Road to Reef
Brisbane to Gladstone

6.5 hours drive - Charter Bus

The drive from Brisbane to Gladstone to meet the transfer to Heron Island is an opportunity to see some world class examples of terrestrial and coastal geomorphology.

These include:

- Eroded volcanic centers of The Glass House Mountains
- Massive Sand Dunes at Cooloola in the National Park
- Woodgate Tidal Flat full of features that can be simulated in the model flume table

Locations Link

Heron Island Field trip

21-23 January 2023

The University Of Queensland
AUSTRALIA

The inclusion of Heron Island Research Station is a particular highlight, as it provides a modern analogue for potential IODP/ICDP targets and allows students to engage with research and teaching collections from academic hosts.

Activities planned include:

- Reef walks
- Reef flat surveys
- Carbonate Allochems
- Geomicrobiology in the reef
- Snorkeling windward and leeward reef slopes
- Laboratory work on samples collected
- Deployment of small AUV for robotics experience

Getting there: The Heron Islander catamaran operated by Heron Island Resort travels between Gladstone Marina. A charter bus from Brisbane to Gladstone will be provided. Don't forget to pack sea sickness tablets if you suffer from motion sickness.

Baggage Limits: Station guests are limited to two bags of personal items.

What to bring: visit the UQ website https://www.uq.edu.au/heron-island-research-station/plan-your-visit/what-bring-and-station-life

Internet: The station is wi-fi enabled, although reception can be patchy in some places.

Your health and safety is important to us. You'll need to complete an online induction before you arrive at Heron Island Research Station.
https://www.uq.edu.au/heron-island-research-station/plan-your-visit/inductions

Dietary Requirements

If have any strict dietary requirements that is essential to your health and well being, please fill out the dietary requirement link below (e.g. food allergy).

Dietary Requirement Link

Swimming & Snorkelling Ability

You will be required to notify the convenors if your are not a competent swimmer (able to swim at least 400m) and if you are comfortable in the ocean/snorkelling.

There will be options for a reef walk if you are not a competent swimmer or alternatives such as lifevest and snorkelling aids should you have any difficulties or concerns with snorkelling.

Snorkeller/Swimming Notification Form

Contacts/further Information

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Helen Bostock (UQ)

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