

**Itinerary for Virginia Tech and SUNY Brockport
New Zealand and Australia
Conservation Based Service-Learning Program 2017
03 June 2017 - 29 June 2017**



Note: Please ensure you read ahead so you are prepared for upcoming activities.

Thursday 01 June Day 0: Los Angeles International Airport

Coursework Reminder To Do:

- 1) Review and finalize concept maps for Krebs (2008) Chapters 20 & 21, due tomorrow.
- 2) Finalize pre-departure readings (AUIP 2017; Cairns & Saier, 2010; Edwards, 2009) and bulleted lists explaining what you think are the 2 most important take-home points from each of the Cairns & Saier (2010) and Edwards (2009) articles, but NOT AUIP (2017).

Don't forget to look ahead 2-3 days on the itinerary to see what is due and plan accordingly!

6:00 PM **Your domestic flight arrives in Los Angeles (LAX)**

9:40 PM **Check-in for international flight**

10:00 PM **Read course material near the departure gate**

11:40 PM **Group flight departs**
American Airlines flight 83 departs for Auckland.

Saturday 03 June Day 1: Tauranga

Course work reminder Due at 3:00 PM welcome and orientation today

1. Concept maps for Krebs (2008) Chapters 20 & 21
2. Bulleted lists of the 2 most important take-home points from each pre-departure reading (Cairns & Saier, 2010; Edwards, 2009).

7:40 AM **Group flight arrives into Auckland International Airport**
American Airlines flight 83 arrives in Auckland. Your Kuaka program leader will meet you at the airport.

Please notify your family of your safe arrival.

Please note: The schedule set out for your time in New Zealand is subject to change. Your Kuaka program leader will keep you updated with any changes.

8:45 AM **Travel by coach to Tauranga (travel time approximately 3 hours and 15 minutes)**
On the way to Tauranga you will have the opportunity to purchase groceries and lunch for today and exchange money. The coach will also stop in the following locations:

Stop at Karangahake Gorge to experience natural New Zealand. Take a guided walk along a riverside into a mountain gorge and see the forces of nature at work. Explore old gold mine workings and see how nature has reclaimed this land over time.

Visit Waihi Gold, an open cast mine in the centre of Waihi town. Learn about the environmental legislation that is unique to New Zealand and guides such industries to be more sustainable.

Lunch break at Waihi Beach.

2:30 PM **Check-in to accommodation**
Unpack and settle in to your accommodation.

Please note: When checking in to accommodations, check your room thoroughly for any damage. If you discover any existing damage, report it to reception immediately so you are not fined for it when you check out.

3:00 PM **Welcome and orientation**
Led by Lori Blanc. Held in the Pacific Court conference room.

4:30 PM **Unstructured work and personal time**

6:30 PM **Catered group dinner at Pacific Park Holiday Park**

Accommodation

Pacific Park Holiday Park, 1110 Papamoa Beach Road, Papamoa Beach, Tauranga, Phone: 07 542 0018
Swimming pool, Wi-fi - charged, BBQ facility, Games room

Sunday 04 June	Day 2: Tauranga
Course work reminder	<p>Due: Bulleted list explaining the 2 most important take-home points from M1 reading 1 (Cavanaugh & Farr, 2006). This list will be collected at 4:15 PM this afternoon.</p> <p>To Do: Read M1 readings 2 (Lima, 2007) and 3a/b/c (climate change), and prepare a bulleted list explaining the 2 most important take home points from <u>each</u> reading. Due at 7:45 AM and 4:45 PM tomorrow (before associated lectures).</p>

7:00 AM **Group breakfast**
Please prepare yourself breakfast with the group groceries provided. Please also use the group groceries to make a packed lunch for yourself; consisting of one sandwich, a bag of crisps or crackers, a muesli bar, two biscuits, a piece of fruit and some veggies. Baggies and plastic wrap will be provided.

7:45 AM **Lori Blanc**
Sustainability, Conservation and Cognitive Dissonance
- Setting the foundation for the course

Held in the Pacific Court conference room.

8:45 AM **Doug Farr**
Pre-field activity discussion on watersheds.

9:30 AM **Travel by coach to local watershed**
Transportation provided by Kuaka New Zealand.

9:45 AM **Tour of local watershed**
Travel from the sea to the highest reaches of the catchment, exploring the various areas that influence the management of the region. This watershed includes the domestic water for the city of Tauranga. Visit natural zones as well as intensively-developed areas, with your guide explaining the impacts of each. The tour is done by coach with several stops for better inspection on foot, including a short forest hike at the top of the catchment.

Please wear appropriate attire for today's weather and activities.

1:00 PM **Travel by coach to accommodation**
Transportation provided by Kuaka New Zealand.

1:15 PM **Unstructured work and personal time**
Enjoy your packed lunch.

If you would like to purchase food and supplies, there is a Four Square grocery store located at 1200 Papamoa Beach Road. From your accommodation, turn right onto Papamoa Beach Road and continue for 1 kilometre. The Four Square is on the right just past the roundabout. The walk takes about 15 minutes. Open from 8:00 AM - 8:30 PM on Sunday and from 7:00 AM - 8:30 PM on Monday and Tuesday.

4:15 PM **Dr Debashis Dutta**
Introduction to the eradication of invasive species
- Overview of New Zealand's physical environment
- New Zealand's unique ecology and threats to this by invasive species

- Development of specific management practices to support native ecology / biodiversity

Dr Dutta is a Senior Academic at the Bay of Plenty Polytechnic and works in conjunction with the University of Waikato on their Environmental Science program. He completed a MSc (Botany) and PhD (Plant Ecology) in India prior to moving to New Zealand in 2003. Dr Dutta's interests are centred around terrestrial ecosystems and, in particular, plant ecology, biodiversity and conservation biology.

Held in the Pacific Court conference room.

5:30 PM **Lecture on foundational principles of sustainability**
Led by VT faculty.

6:30 PM **Unstructured work and personal time**
Dinner on your own.

Accommodation

Pacific Park Holiday Park, 1110 Papamoa Beach Road, Papamoa Beach, Tauranga, Phone: 07 542 0018

Monday 05 June	Day 3: Tauranga
Course work reminder	Due: Bulleted list identifying the 2 most important take home points from M1 readings 2 (Lima, 2007, 7:45am) and <u>each</u> of 3a/b/c (climate change readings, 4:45pm). To Do: Complete M1 reading 4 (Stafford, 1997). Bring a bulleted list identifying the 2 most important take-home points to the bus tomorrow morning.

7:00 AM **Group breakfast**
Please prepare yourself breakfast with the group groceries provided. Please also use the group groceries to make a packed lunch for yourself; consisting of one sandwich, a bag of crisps or crackers, a muesli bar, two biscuits, a piece of fruit and some veggies.

7:45 AM **Doug Farr**
Triple Bottom Line
- Introducing Kuaka New Zealand and Doug's background
- Concepts of agency and the role of mobilising stakeholders and creating meaning through real and relevant conservation action

Held in the Pacific Court conference room.

8:45 AM **Travel by coach to service-learning site**
Transportation provided by Kuaka New Zealand.

9:00 AM **Kuaka activities**
- Lower catchments, environmental action to mitigate impacts of land use and settlement
- Engagement of Maori culture through a service-learning project
- Brief introduction to Maori: their worldviews, culture and practice
- Introduction to concept of Kaitiakitanga - Guardianship and responsibility to future generations - and relationship of this to Wai-ora, "healthy waters"

Service-learning: Native tree planting to assist with a forest restoration project to protect downstream water quality, stabilise the land, restore habitat for native species and offset carbon to balance the impact of travel.

Please wear appropriate attire for today's weather and activities.

12:00 PM **Lunch break**
Enjoy your packed lunch.

12:30 PM **Estuarine environment visit**
Complete a transect survey of shellfish populations to collect data on the impacts of catchment management on downstream marine health.
- Is the upstream forest restoration making a difference?
- Use of biological indicators

- 2:15 PM **Travel by coach to accommodation**
Transportation provided by Kuaka New Zealand.
- 2:30 PM **Doug Farr**
Engaging Community in Local Environmental Management
- Case study of human impacts and management of natural coastal processes
- Discussion of 'coast care' and the engagement of local people in looking after their coastline
- 4:45 PM **Climate Change and Carbon Footprints**
Comparison of your annual footprint to the 50-year carbon sequestration capacity of trees planted.

Led by VT faculty. Held in the Pacific Court conference room.
- 5:45 PM **Unstructured work and personal time**
Dinner on your own.

Accommodation

Pacific Park Holiday Park, 1110 Papamoa Beach Road, Papamoa Beach, Tauranga, Phone: 07 542 0018

Tuesday 06 June	Day 4: Tauranga to Omanawa
Course work reminder	<p>Due (when boarding the bus): bulleted list identifying the 2 most important take home points from M1 reading 4 (Stafford, 1997).</p> <p>To Do:</p> <ol style="list-style-type: none"> 1. Complete journal entry 1 (Days 2 - 4), to be collected when boarding the bus tomorrow morning. 2. Start M1 reading 5 (Saunders & Norton, 2001).

- 6:45 AM **Group breakfast**
Please prepare yourself breakfast with the group groceries provided. Please use any food that will spoil before Thursday. Pack away the remaining food.

Please clean your accommodation thoroughly before you leave and load your luggage onto the coach. You must vacuum all carpeted rooms, clean stove top and oven, wipe down counter tops, clean out fridge, sweep and mop kitchen floor, wipe down tables and chairs, empty dishwasher, sweep and mop bathroom floor, take trash to the miniskip by the rotunda, and count all crockery. Please work together as a team to complete cleaning tasks in a timely manner.
- 7:45 AM **Check-out of accommodation**
Please make sure that you leave your room clean and tidy and that you do not leave anything behind. Please load your luggage onto the coach.

Please note, there is no wi-fi or cell phone reception at Waitaia Lodge so please notify friends and family that you will be out of contact for a few days.
- 8:30 AM **Briefing**
- 9:00 AM **Travel by coach to Omanawa (travel time approximately 45 minutes)**
Transportation provided by Kuaka New Zealand.
- 10:00 AM **Formal Powhiri welcome onto Waitaia Lodge**
- Introduction to protocols
- Formal welcome
- Introduction by hosts to Waitaia Lodge and its importance to Maori
- Refreshments
- 11:00 AM **Preparation for service-learning project on site**
- Introduce concepts of kaitiakitanga as they apply to Waitaia
- Guided walk into an ancient rainforest. Learn how biodiversity and conservation biology direct environmental action in traditional indigenous practices and in modern science.
- 12:00 PM **Lunch at Waitaia Lodge**

- 1:00 PM **Service-learning project**
 - Assist with a local environmental restoration project
 - Extend the concept of 'Waioira' to complete conservation work in this pristine upper watershed site
- Please wear appropriate attire for today's weather and activities.
- 4:45 PM **Check-in to accommodation**
 Unpack coach, settle into the lodge, set up beds and assist in preparation of dinner.
- 6:00 PM **Group dinner at Waitaia Lodge**
- 8:30 PM **Discussion with Lance and Rawinia: Maori environmental worldviews**
 Small group discussions and debrief.

Accommodation

Waitaia Lodge, Mangaonui Rd, Omanawa, Phone: no phone number
 Kitchen, Wi-fi - no internet access on site

Wednesday 07 June	Day 5: Omanawa to Rotorua
Course work reminder	<p>Due upon boarding the bus this morning: Journal entry 1 (Days 2 - 4)</p> <p>To Do: Continue M1 reading 5 (Saunders & Norton, 2001). Create a bulleted list identifying the 2 most important take-home points (due on day 7).</p>

- 6:45 AM **Group breakfast at Waitaia Lodge**
 A full breakfast provided at Waitaia Lodge. Please assist in packing up the lodge and load your luggage onto the coach.
- 8:00 AM **Poroporoaki / Farewell**
- 8:45 AM **Travel by coach to Arataki Primary School (travel time approximately 45 minutes)**
 Stop at Bake Shack en route to get lunch.
- 9:30 AM **Immersion program at Arataki School**
 Form buddy groups and spend time in classes together. Prepare for the Coast Care conservation activity, leading elementary students.
- 11:30 AM **Lunch break**
 Enjoy your Bake Shack lunch.
- 12:00 PM **Targeted conservation action**
 Working with a group of students from the local primary school, you will get firsthand experience in protecting coastal dunes and vegetation. First, you will learn the concepts of dune restoration and how to plant appropriate plants to secure this crucial landform. Then, you will partner with local kids and show them how to plant. Working together, both groups will get their hands dirty planting dune grass. It's a great chance for some cross-cultural exchange.
- 3:00 PM **Propagating native plants for restoration efforts**
 Assist with the growing and potting of native plants that will be used by various teams for re-vegetating different zones around the Tauranga catchment area.
- 5:30 PM **Travel by coach to Rotorua (travel time approximately 1 hour and 15 minutes)**
 Transportation provided by Kuaka New Zealand.
- 6:45 PM **Check-in to accommodation**
 Unpack and settle in to your accommodation.
- 7:15 PM **Unstructured work and personal time**
 Dinner on your own.

Accommodation

Rotorua YHA, 1278 Huapapa St, Rotorua, Phone: 07 349 4088

Thursday 08 June

Day 6: Rotorua to Pukeatua

Course work reminder

To Do:

- 1) Finalize M1 reading 5 (Saunders & Norton, 2001). Create a bulleted list identifying the 2 most important take-home points (due at 8:00 AM tomorrow).
- 2) Organize Module 1 (NZ) concept mapping exercise. Faculty will assign teams and distribute word list. Group concept map presentation will be due on day 9 in Australia.

7:15 AM

Group breakfast

Please prepare yourself breakfast with the group groceries provided. Please also use the group groceries to make a packed lunch for yourself; consisting of one sandwich, a bag of crisps or crackers, a muesli bar, two biscuits, a piece of fruit and some veggies.

Please have your bags packed and ready for departure.

8:00 AM

Pre-activity discussion

Principles of conservation biology and endangered species management (revisiting Krebs Chapter 20).

Held in the Rotorua YHA lounge.

8:45 AM

Check-out of accommodation

Please make sure that you leave your room clean and tidy and that you do not leave anything behind. Please load your luggage onto the coach.

9:00 AM

Travel by coach to Kiwi Encounter (travel time approximately 15 minutes)

Transportation provided by Kuaka New Zealand.

9:15 AM

Guided tour of Kiwi Encounter

Learn about some of the hands-on management techniques being employed to save New Zealand's national icon from extinction. "Kiwi Encounter" is a commercial visitor attraction, but you will also get a tour and a talk from a guide who is involved with rearing captive kiwi and other New Zealand bird species. The commercial operation here is the public face of a larger effort to manage some of New Zealand's endangered native species. There are live kiwi here to be seen (in captivity). Please no flash photography.

11:00 AM

Unstructured work and personal time

Enjoy your packed lunch.

4:00 PM

Travel by coach to Pukeatua (travel time approximately 1 hour and 30 minutes)

The coach will stop for 30 minutes en route so you can purchase groceries and supplies.

6:00 PM

Check-in to accommodation

Unpack and settle in to your accommodation.

6:30 PM

Out in the Styx group dinner

7:30 PM

Unstructured work and personal time

Accommodation

Out in the STYX, 2117 Arapuni Road, Pukeatua, Phone: 07 872 4505

Course work reminder	<p>Due when we board the bus this morning:</p> <ol style="list-style-type: none"> 1. Bulleted list identifying the 2 most important take-home points from M1 reading 5 (Saunders & Norton, 2001). <p>To Do:</p> <ol style="list-style-type: none"> 1. Complete journal entry 2 (Days 5-7), due when we board the bus tomorrow. 2. Work on group concept maps.
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5:00 AM	Morning birdcall at Maungatautari
7:00 AM	Out in the Styx group breakfast
7:45 AM	Final wrap-up discussion with Kuaka program leader Location to be advised.
8:45 AM	Check-out of accommodation Please make sure that you leave your room clean and tidy and that you do not leave anything behind. Please load your luggage onto the coach.
9:15 AM	Travel by coach to Maungatautari (travel time approximately 10 minutes) Transportation provided by Kuaka New Zealand
9:30 AM	Tour and presentation at Maungatautari 'Mainland Island' Visitor Centre This is a "mainland island" sanctuary where a predator-proof fence has been erected around a huge area. All introduced pest species have been eradicated from within the enclosure and as a result, rare New Zealand birds are making a comeback. There are many species to be seen here that could not exist outside the sanctuary; where predators like rats, weasels, stoats, cats, etc. easily kill them. You will be guided by one of the field workers here who will show us how the concept of creating a virtual island on the mainland can be an effective tool for managing indigenous fauna and flora. The visit includes some time at the visitor centre, plus a hike on well-formed tracks in the protected forest.
12:30 PM	Lunch break Lunch on your own.
1:15 PM	Travel by coach to Auckland (travel time approximately 3 hours) Transportation provided by Kuaka New Zealand.
4:15 PM	Check-in to accommodation Unpack and settle in to your accommodation.
4:45 PM	Unstructured work and personal time Dinner on your own. Please be aware of your early departure tomorrow. Ensure you have your travel documents. There is a Countdown supermarket located at 28 Victoria Street. From your accommodation, turn right onto Vincent Street. Keep right on Mayoral Drive and continue onto Albert Street. Turn right onto Victoria Street. Countdown will be on the left. The walk takes about 10 minutes. Open 7:00 AM - 10:00 PM.

Accommodation

City Lodge Hotel Auckland City, 150 Vincent St, Auckland, Phone: 09 379 6183
 Internet access, Laundry facility, Wi-fi - charged, Kitchen, Luggage storage

Saturday 10 June	Day 8: Auckland to Magnetic Island
2:00 AM	<p>Due: Journal entry 2 (Days 5 - 7)</p> <p>To Do:</p> <ol style="list-style-type: none"> 1) Finalize NZ group concept maps. 2) Start M2 readings 1&2 (McGregor et al., 2013; GBRMPA, 2016).
3:30 AM	<p>Check-out of accommodation</p> <p>Please make sure that you leave your room clean and tidy and that you do not leave anything behind. Ensure that you return your key as there is a \$165 charge for lost keys. Load your luggage onto the coach.</p> <p>Pick up your boxed breakfast at reception. Take it with you to eat at the airport (consume any liquid before passing through security).</p>
3:45 AM	<p>Travel by coach to Auckland Airport (travel time approximately 45 minutes)</p> <p>Transportation provided by Kuaka New Zealand.</p>
6:20 AM	<p>Group flight departs for Brisbane (flight duration approximately 3 hours and 40 minutes)</p> <p>Qantas Airways flight 124 departs for Brisbane. Flight arrives in Brisbane at 8:15 AM.</p>
11:30 AM	<p>Lunch on your own</p> <p>You will have plenty of time to eat lunch in the airport during your layover in Brisbane.</p>
2:10 PM	<p>Group flight departs for Townsville (flight duration approximately 2 hours)</p> <p>Qantas Airways flight 1792 departs for Townsville. Flight arrives in Townsville at 4:10 PM.</p> <p>Please meet the coach driver inside the terminal at arrivals, and then load your luggage onto the Calypso Coaches coach that will be waiting for you at the Townsville Airport.</p>
5:00 PM	<p>Travel by coach to the Townsville Ferry Terminal (travel time approximately 15 minutes)</p> <p>Calypso Coaches, Phone: 04 2868 9210</p>
5:30 PM	<p>Check-in at SeaLink</p> <p>Your faculty leader will collect and distribute the ferry tickets. Please note: if you lose your ticket, you will be responsible for replacing it.</p>
5:40 PM	<p>Board ferry</p> <p>You need to have your ferry ticket in hand to board the ferry.</p> <p>Please note: The ticket issued to you is for return transportation. Please ensure you keep your ticket somewhere safe so you have it for your return travel on June 14th.</p>
6:00 PM	<p>SeaLink Ferry: Townsville to Magnetic Island (travel time approximately 25 minutes)</p> <p>Phone: 07 4726 0800</p>
6:25 PM	<p>Disembark from ferry</p> <p>Please load your luggage onto the Sunbus coach that will be waiting for your group at the Magnetic Island Ferry Terminal.</p>
6:30 PM	<p>Travel by coach to Bungalow Bay Koala Village (travel time approximately 15 minutes)</p> <p>Sunbus, Phone: 07 4778 5130</p>
6:45 PM	<p>Check-in to accommodation</p> <p>Unpack and settle in to your accommodation.</p>
7:15 PM	<p>Bungalow Bay welcome dinner</p>

Accommodation

Bungalow Bay Koala Village, 40 Horseshoe Bay Rd, Magnetic Island, Phone: 07 4778 5577
 Laundry facility, Restaurant, Swimming pool, Wi-fi - complimentary, Air conditioning, Kitchen, ATM, Luggage storage

Sunday 11 June	Day 9: Magnetic Island
Course work reminder	<p>Due: Group concept maps and presentations</p> <p>To Do:</p> <ol style="list-style-type: none"> 1. Complete M2 readings 1&2 (McGregor et al., 2013; GBRMPA, 2016) and prepare a bulleted list identifying the key take-home points from the McGregor et al. 2013 reading. The GBRMPA readings must be completed by breakfast time tomorrow, but no bullet points are due. The bullet points for McGregor et al. (2013) are due on Day 11. 2. Also, start M2 readings 3-5 (Rudd 2008; Bayet, 1994; Climate Change packet (Mapstone, 2011; Hennessy, 2011; Cleugh et al., 2011)). It is particularly important to complete readings 3 & 4 prior to our discussion with the traditional land owner on day 12.

8:30 AM	Bungalow Bay continental group breakfast
9:00 AM	<p>Unstructured work and personal time Lunch on your own today.</p> <p>If you would like to purchase more supplies, there is a Foodworks grocery store located at 8/7 Pacific Drive, about a 10-minute walk from Bungalow Bay Koala Village. From your accommodation, turn right on Horseshoe Bay Road. Turn right on Pacific Drive. Foodworks will be on the right. Open 7:00 AM - 7:00 PM.</p>
2:00 PM	<p>Group concept map presentations Held on the Education Deck.</p>
4:00 PM	<p>Snorkel introduction Held at the Bungalow Bay pool. Please wear your swimsuit and bring a towel.</p>
6:30 PM	<p>Dinner on your own Please pack a lunch for tomorrow.</p>
<p>Accommodation Bungalow Bay Koala Village, 40 Horseshoe Bay Rd, Magnetic Island, Phone: 07 4778 5577</p>	

Monday 12 June	Day 10: Magnetic Island
Course work reminder	<p>Due: Reading 2 (GBRMPA, 2016) must be completed by today, but a bulleted list of take-home points is not required.</p> <p>To Do: Continue readings 3-5 (Rudd, 2008; Bayet, 1994; Mapstone, 2011; Hennessy, 2011; Cleugh et al., 2011). It is particularly important to complete readings 3 & 4 prior to our discussion with the traditional land owner on day 12.</p>

6:45 AM	<p>Bungalow Bay continental group breakfast Please bring a packed lunch with you today.</p>
8:00 AM	<p>Reef Eco Logic: Reef Management Strategies and Inshore Reef Restoration The Coral Reef Recovery Program for Magnetic Island strives to engage students in a hands-on learning approach which will incorporate: environmental conservation education, community engagement, inquiry and action-based learning, as well as coral reef conservation efforts on the local fringing reefs. You will be undertaking lectures, data collection, and reef assessment in the water. Note: You may be snorkelling in the ocean (weather dependent).</p> <p>This is a citizen science reef rehabilitation project that creates a community-based learning environment to benefit reef health and provide education in coral reef conservation. You will be involved in an inquiry and action project, utilizing your knowledge of the environment and conservation tactics to create a healthy and sustainable reef ecosystem around the island. Following your work on the reef out in the field, you will engage in a media outreach project with the goal of educating the wider community about the status of the reef. As conservation studies are becoming more necessary and relevant in today's changing climate and ecosystem, the team at the Coral Reef Recovery Program for Magnetic Island hope that the program will help guide you to think critically and inspire action within your own communities.</p>

Please bring a hat, sunscreen, insect repellent, swimsuit, a towel, water, snacks and your lunch. You will have time to eat your lunch during today's activities. You will be issued with a snorkel and mask, fins and UV stinger suit.

4:00 PM

Unstructured work and personal time
Dinner on your own.

Accommodation

Bungalow Bay Koala Village, 40 Horseshoe Bay Rd, Magnetic Island, Phone: 07 4778 5577

Tuesday 13 June	Day 11: Magnetic Island
Course work reminder	<p>Due: Bulleted list identifying the 2 most important take home points from M2 reading 1 (McGregor et al, 2013).</p> <p>To Do:</p> <ol style="list-style-type: none"> 1. Finish M2 readings 3 & 4 (Rudd, 2008; Bayet, 1994). Prepare a bulleted list identifying the 2 most important take home points from each of these readings. These will NOT be collected, but we strongly advise you to have them ready by 5:30 PM at our group discussion with the traditional land owners on native title. 2. Continue reading M2 climate change readings 5a-c (Mapstone, 2011; Hennessy, 2011; Cleugh et al., 2011).

8:00 AM

Bungalow Bay continental group breakfast

9:00 AM

Koala population survey project

You will be given the opportunity to take part in a field-based study, surveying koala populations on Magnetic Island. This work is an extension of a study conducted by JCU researchers in 2011 and will contribute data to enable ongoing monitoring of the population. The day will include a seminar on koala biology and ecology, a briefing on the survey methodology and a discussion of the previous study and the use of data collected. You will be immersed in the natural environment of the island while undertaking the survey in addition to having the opportunity to see koalas both in their natural habitat, as well as up close in captivity.

You will be riding a bicycle for a total of 5 kilometres at a steady pace. As the landscapes are based in Eucalypt woodland, you are required to wear long pants, shoes and ankle length socks for the morning activity. Please bring a hat, sunscreen, insect repellent and 1 litre of water. You will return at midday to have lunch on your own and change out of long pants.

4:00 PM

Group discussion
Held on the Education Deck.

5:00 PM

Unstructured work and personal time
Dinner on your own.

Accommodation

Bungalow Bay Koala Village, 40 Horseshoe Bay Rd, Magnetic Island, Phone: 07 4778 5577

Wednesday 14 June	Day 12: Magnetic Island to Hidden Valley
Course work reminder	<p>Due: Bulleted list identifying 2 key take-home points from M2 readings 3 & 4 (Rudd, 2008; Bayet, 1994). These will NOT be collected, but we strongly advise you to have them ready by 5:30 PM at our group discussion with the traditional land owners on native title.</p> <p>To Do: Finish M2 readings 5a-c (Mapstone, 2011; Hennessy, 2011; Cleugh et al., 2011), and prepare bulleted lists identifying two key take-home points from ONLY the Hennessy (2011) and Cleugh (2011) readings. These lists will be collected at 11:00 AM tomorrow.</p>

6:45 AM

Bungalow Bay continental group breakfast
It is unlikely you will have cell phone reception while at Hidden Valley Cabins. Please let your friends and family know that you will be out of contact for a few days.

7:15 AM	<p>Check-out of accommodation Please make sure that you leave your room clean and tidy and that you do not leave anything behind. Please load your luggage onto the coach.</p>
7:45 AM	<p>Travel by coach to Magnetic Island Ferry Terminal (travel time approximately 15 minutes) Sunbus, Phone: 07 4778 5130</p>
8:05 AM	<p>Board ferry</p>
8:25 AM	<p>SeaLink Ferry: Magnetic Island to Townsville (approximately 25 minutes) Phone: 07 4726 0800</p>
9:00 AM	<p>Meet Hidden Valley Guide Your Hidden Valley guide, Ross McLennan, will meet your group at the Townsville Ferry Terminal. Please load your luggage onto the coach.</p>
Guide	<p>Ross McLennan Ross runs a small, family-run tourism business 103 kilometres northwest of Townsville called Hidden Valley Cabins. The McLennan family have owned and operated the business since 1986. Because of its remote location, Hidden Valley Cabins has no town amenities and is totally self-sufficient. In December 2007, the retreat switched off its diesel generators and since then the entire resort's electrical needs have been supplied by the sun, saving the resort up to 26000L of diesel and 78 tonnes of CO2 per year. Ross is very passionate about sustainability, the natural environment that he calls home, and finding ways to implement best practice into his business.</p> <p>Please note: The schedule set out for your time at Hidden Valley Cabins is subject to change. Ross will keep you updated with any changes.</p>
9:15 AM - 8:00 PM	<p>Hidden Valley - Day 1</p> <p>Travel by coach to Hidden Valley (travel time approximately 2 hours and 45 minutes) Stop at a supermarket, a Subway restaurant and pharmacy located on The Strand in Townsville. You can purchase any items required for your stay at Hidden Valley and a packed lunch for today. You may want to look ahead in the itinerary to see when you will have another opportunity to purchase supplies. You will stop at Eucalyptus Grandis Forest in Paluma National Park en route to learn about the shift in ecosystem types.</p> <p>Check-in to accommodation Unpack and settle in to your accommodation. Hidden Valley Cabins staff will advise you on arrival where your meals will be served.</p> <p>Please use this time to prepare for the AWC service-learning project</p> <p>Travel by coach to Australian Wildlife Conservancy site (travel time approximately 20 minutes)</p> <p>Service-learning with Australian Wildlife Conservancy (AWC) AWC's reserves cover more than 3 million hectares (7.4 million acres), which represents the largest private conservation estate in Australia. Hidden Valley Cabins, AUIP and AWC have developed a partnership to work on critical areas on two of AWC's reserves, Mt Zero and Taravale. The day will be spent working on a range of activities, which may focus on physical activities and/or business assessment and monitoring.</p> <p>Please wear a long-sleeved shirt and long pants. Hidden Valley Cabins will supply gloves, tools, etc.</p> <p>Travel by coach to Hidden Valley Cabins (travel time approximately 20 minutes)</p> <p>Discussion on traditional land owners and native title</p> <p>Hidden Valley Cabins group dinner</p>
Accommodation	<p>Hidden Valley Cabins, 1 McLennan Road, Hidden Valley, Phone: 07 4770 8088 Swimming pool, Complimentary transfers, Wi-fi - complimentary</p>

Thursday 15 June	Day 13: Hidden Valley
Course work reminder	<p>Due: Bulleted lists identifying two key take-home points from the Hennessy (2011) and Cleugh (2011) readings. To be collected at 11AM discussion on climate change.</p> <p>To Do:</p> <ol style="list-style-type: none"> 1. Start M2 reading 6 (Diamond, 1999), and prepare bulleted lists identifying the 2 most important take-home points from <u>each</u> of the two chapters in this reading. This list will be collected tomorrow evening at our 7:00 PM discussion. 2. Start working on journal entry 3 (days 10-15), due morning of day 16

8:00 AM - 8:00 PM

Hidden Valley - Day 2

Hidden Valley Cabins group breakfast

Sustainable business in rural Australia

Your guide will take you on a tour of the solar plant and lecture on energy use and the carbon tax in Australia. Hidden Valley Cabins is an award-winning eco-friendly resort and operates on 100% solar power. See the system working and educate yourself on renewable energy. Owners of Hidden Valley Cabins, the McLennan family, will do a presentation on running a sustainable business in a remote location. The group will have the opportunity to discuss the business operation with the owners.

Group discussion on climate change

Lunch at Hidden Valley Cabins

Please use this time to prepare for the Running River Gorge hike.

Travel by coach to Running River Gorge trailhead (travel time approximately 20 minutes)

Running River Gorge hike

The hike into the gorge will take around 50 minutes. Once in the gorge you will have time to swim and explore. The walk out of the gorge will take approximately 1 hour and 20 minutes. There will be a lecture on sclerophyll eucalyptus and ironwood forests and ecology of the area.

Travel by coach to Hidden Valley Cabins (travel time approximately 20 minutes)

The coach will stop at Hidden Valley Cabins en route to the platypus spotting activity for a restroom break, and so you can change into warm clothes as it can get cold in the evening.

Travel by coach to platypus spotting site (travel time approximately 30 minutes)

Platypus spotting

Australian Geographic recognises the area as one of the top five places to see platypus in the wild.

Travel by coach to Hidden Valley Cabins (travel time approximately 30 minutes)

Hidden Valley Cabins group dinner

Accommodation

Hidden Valley Cabins, 1 McLennan Road, Hidden Valley, Phone: 07 4770 8088

Friday 16 June	Day 14: Hidden Valley to Mission Beach
Course work reminder	<p>Due:</p> <ol style="list-style-type: none"> 1. Bulleted list identifying the 2 most important take-home points from <u>each</u> chapter in this reading M2 reading 6 (Diamond, 1999). This list will be collected at the 7:00 PM group discussion. <p>To Do:</p> <ol style="list-style-type: none"> 1. Review M2 Essay question in preparation for group discussion at 7pm. 2. Start M2 short essay, due Day 16.

8:00 AM

Check-out of accommodation

Please make sure that you leave your room clean and tidy and that you do not leave anything

behind. Please load your luggage onto the coach before breakfast.

8:30 AM **Hidden Valley Cabins group breakfast**

9:30 AM **Travel by coach to Frosty Mango (travel time approximately 1 hour and 30 minutes)**
When you arrive at the Frosty Mango, please help Ross keep the coach clean by removing all rubbish and throwing it in the proper receptacle bins.

11:00 AM **Unstructured work and personal time**
You will stop at the Frosty Mango ice-cream and produce store while the group waits for the Calypso Coaches transfer to Mission Beach. You can spend this time exploring the store.

11:30 AM **Travel by coach to Mission Beach (travel time approximately 2 hours and 25 minutes)**
Calypso Coaches, Phone: 04 2868 9210

The coach will stop at a supermarket en route.

2:30 PM **Check-in to accommodation**
Unpack and settle in to your accommodation.

3:00 PM **Unstructured work and personal time**
Lunch and dinner on your own today.

7:00 PM **Group discussion**
Held by the pool.

Accommodation

Mission Reef Resort, 58-62 Holland Street, Mission Beach, Phone: 07 4068 9681
Laundry facility, Swimming pool, Wi-fi - complimentary, Air conditioning, Kitchen, BBQ facility

Saturday 17 June Day 15: Mission Beach to Port Douglas

Course work reminder	To Do: <ul style="list-style-type: none">1) Finish writing/refining M2 short essay, due tomorrow morning when boarding the bus.2) Complete journal entry 3 (Days 10-15), and bring it to the bus tomorrow morning.
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6:20 AM **Mission Reef Resort continental group breakfast**

7:00 AM **Check-out of accommodation**
Please make sure that you leave your room clean and tidy and that you do not leave anything behind. Please load your luggage onto the coach.

7:25 AM **Travel by coach to Tully (travel time approximately 35 minutes)**
Calypso Coaches, Phone: 04 2868 9210

8:00 AM **Ingan Tours cultural experience and service-learning**
5 Blackman Street, Tully, Phone: 1300 728 067, 07 4068 0189
Meet guides at the Masonic Lodge located at 3 Murray Street in Tully. Your day will start with your guides welcoming you to the area and providing a brief introduction to its history. The group will then attend a 'cross-cultural approach to knowledge' workshop which will cover the following: principles of effective learning and teaching; discussion of multiple intelligences and the missing intelligence; overview of naturalist intelligence and its abilities; and the differences between holistic and compartmentalised approaches.

After lunch you will be transported to Station Gardens where you will help to beautify the area.

Please ensure you bring a hat, sunscreen, sunglasses and insect repellent and wear closed-toe shoes today.

Morning tea and lunch will be provided during the workshop in the morning. Lunch and afternoon tea will also be provided. Please bring plenty of water with you.

4:00 PM **Travel by coach to Port Douglas (travel time approximately 3 hours and 25 minutes)**
Calypso Coaches, Phone: 04 2868 9210

Stop for a dinner break en route.

8:25 PM

Check-in to accommodation

Unpack and settle in to your accommodation.

8:45 PM

Unstructured work and personal time

Accommodation

Lychee Tree Holiday Apartments, 95 Davidson Street, Port Douglas, Phone: 07 4099 5811

Internet access, Laundry facility, Swimming pool, Air conditioning, Disabled access, Kitchen, BBQ facility

Sunday 18 June

Day 16: Port Douglas

Course work reminder

Due:

- 1) M2 short essay, to be collected when boarding the bus this morning
- 2) Upon boarding the bus this morning: journal entry 3 (Days 10-15).

To Do:

- 1) Complete M3 readings #1-2 (ARC Centre, 2015; UNESCO, 2015). No bulleted lists will be collected.
- 2) Start readings #3-5 (De'ath et al., 2012; Anthony et al., 2011; McLeod et al., 2012), for which **only specific pages need to be read** (see Module 3 overview). No bulleted lists will be collected. Review M3 essay question and take relevant notes while completing these readings.

7:00 AM

Group breakfast

Please prepare yourself breakfast with the group groceries provided.

7:50 AM

Travel by coach to Bruno Reidwig Park (travel time approximately 10 minutes)

Calypso Coaches, Phone: 04 2868 9210

8:00 AM

Tangaroa Blue Foundation service-learning activity

Phone: 0410 166 684

Tangaroa Blue Foundation is an Australian registered charity focused on the health of the marine environment. The charity coordinates the Australian Marine Debris Initiative, an on-ground network of volunteers, communities, organisations and agencies around the country monitoring the impacts of marine debris along their stretch of coastline.

Today's service-learning activity will start with a safety briefing and an introduction to marine debris. Following this the group will undertake a beach clean-up on 2.7 kilometres of 4 Mile Beach in Port Douglas. This stretch of beach has been the local monthly monitoring site for more than 5 years. The activity will finish off at one of the local beach parks where you will sort and count the debris collected. This data is inputted into the Australian Marine Debris Initiative's database and used to develop strategies to prevent the dumping of marine debris.

You must have closed-toe shoes, wear clothes you will be happy to work in, and dress appropriately for the weather conditions. Please bring a sunhat, sunglasses, sunscreen and insect repellent.

12:30 PM

Travel by coach to accommodation (travel time approximately 10 minutes)

Calypso Coaches, Phone: 04 2868 9210

12:40 PM

Lunch on your own

There is a Coles supermarket located at 11-17 Macrossan Street. From your accommodation, turn left onto Davidson St. Keep right on Port Street and continue along Davidson Street. Turn left on Macrossan Street and continue past Grant Street. Coles will be on the left. There are many restaurants along the way as well. The walk takes about 20 minutes. Coles is open 7:00 AM - 6:00 PM Sunday and 7:00 AM - 9:00 PM Monday - Thursday.

1:50 PM

Walk to the CWA Hall

1. From your accommodation, turn left and walk along Davidson Street. Keep right on Port Street to continue on Davidson Street.
2. When you reach Blake Street the CWA Hall will be on the corner of the park on the right. The walk takes about 5 minutes.

2:00 PM **Introduction to the Great Barrier Reef**
 Led by Eye to Eye Marine Encounters staff
 - Safety briefing
 - Lecture on evolution and phylogeny of coral reefs
 - ID exercise on fauna and flora of the Great Barrier Reef
 - Preparations for student reef research project

Held at the CWA Hall.

Guide **John Rumney - Eye to Eye Marine Encounters guide**
 With many years' experience as a research coordinator, professional skipper and adventure diver, John Rumney has a vast knowledge of the reef and its inhabitants. He has consulted for international panels on climate change and participated in conservation movements around the world. As the creator and former manager of Undersea Explorer Adventure Dive and Research Expeditions, he is a pioneer of ecotourism in North Queensland.

5:00 PM **Walk back to accommodation**

5:30 PM **Introduction to snorkelling and pizza dinner**
 Please meet Eye to Eye Marine Encounters staff at the pool area of your accommodation for an introductory snorkelling session. A pizza dinner will be provided after the session.

Accommodation

Lychee Tree Holiday Apartments, 95 Davidson Street, Port Douglas, Phone: 07 4099 5811

Monday 19 June	Day 17: Port Douglas
Course work reminder	To Do: <ol style="list-style-type: none"> 1. Continue M3 readings #3-5 (De'ath et al., 2012; Anthony et al., 2011; McLeod et al., 2012). NOTE: See module overview for specific pages listed to read within each article. NO bulleted lists will be collected. 2. Start outlining your answer to the M3 essay question.

7:15 AM **Group breakfast**
 Please prepare yourself breakfast with the group groceries provided.

8:05 AM **Depart accommodation by coach**
 Transportation provided by Calypso Reef Charters.

9:00 AM **Great Barrier Reef day trip**
 Staff from Calypso Reef Charters and Eye to Eye Marine Encounters will be directing today's activities. You will spend the day snorkelling on the Great Barrier Reef.

 Please ensure you bring your swimsuit, sunglasses, sunhat, seasickness medication, sunscreen, insect repellent, towel and something warm to wear on the way back with you today. Lunch and snacks will be provided on the boat.

4:30 PM **Depart for accommodation by coach**
 Transportation provided by Calypso Reef Charters.

5:30 PM **Unstructured work and personal time**
 Dinner on your own.

Accommodation

Lychee Tree Holiday Apartments, 95 Davidson Street, Port Douglas, Phone: 07 4099 5811

Tuesday 20 June	Day 18: Port Douglas
Course work reminder	To Do: <ol style="list-style-type: none"> 1. Finish M3 readings #3-5 (De'ath et al., 2012; Anthony et al., 2011; McLeod et al., 2012). NOTE: See module overview for specific pages listed to read within each article. No bulleted lists will be collected. 2. Finalize outline for M3 essay question (and start writing essay), bring to group discussion tomorrow at 9am. 3. Start working on journal entry 4 (days 16-19), due morning of day 20

7:15 AM	Group breakfast Please prepare yourself breakfast with the group groceries provided.
8:05 AM	Depart accommodation by coach Transportation provided by Calypso Reef Charters.
9:00 AM	Great Barrier Reef day trip Staff from Calypso Reef Charters and Eye to Eye Marine Encounters will be directing today's activities. You will spend the day snorkelling on the Great Barrier Reef. Please ensure you bring your swimsuit, sunglasses, sunhat, seasickness medication, sunscreen, insect repellent, towel and something warm to wear on the way back with you today. Lunch and snacks will be provided on the boat.
4:30 PM	Depart for accommodation by coach Transportation provided by Calypso Reef Charters.
5:00 PM	Unstructured work and personal time Dinner on your own.

Accommodation

Lychee Tree Holiday Apartments, 95 Davidson Street, Port Douglas, Phone: 07 4099 5811

Wednesday 21 June	Day 19: Port Douglas
Course work reminder	Due: Outline for M3 essay question, to be used in today's group discussion. To Do: <ol style="list-style-type: none"> 1. Finish M3 short essay, to be collected tomorrow after lunch. 2. Complete journal entry 4 (days 16-19), to be collected tomorrow morning

8:00 AM	Group breakfast Please prepare yourself breakfast with the group groceries provided.
8:50 AM	Walk to CWA Hall
9:00 AM	GBR Project debriefing and discussion of readings in preparation for module essay This session will be led by Eye to Eye Marine Encounters staff.
12:00 PM	Unstructured work and personal time Lunch and dinner on your own.

Accommodation

Lychee Tree Holiday Apartments, 95 Davidson Street, Port Douglas, Phone: 07 4099 5811

Course work reminder**Due:**

1. Journal entry 4 (Days 16-19), to be collected when we board the bus.
2. M3 short essay, to be collected after lunch today.

To Do: Start M4 readings #1-3 (Cairns and Saier 2010; Costanza et al., 2000; Fischer et al., 2013), and prepare bulleted lists identifying the 2 most important take-home points from readings 2 & 3 (for 1:00 PM discussion tomorrow).

8:45 AM

Group breakfast

Please prepare yourself breakfast with the group groceries provided. You may prepare a snack with any remaining groceries today.

9:30 AM

Check-out of accommodation

Please make sure that you leave your room clean and tidy and that you do not leave anything behind. Please load your luggage onto the coach.

10:00 AM

Travel by coach to Mossman (travel time approximately 30 minutes)

Calypso Coaches, Phone: 04 2868 9210

10:30 AM

Unstructured work and personal time

Lunch on your own.

You will meet your guide Paul O'Dowd in Mossman and he will remain with you for the duration of your Cape Tribulation stay. Please note that timings for this afternoon's activities are flexible. Please use this time to purchase groceries and supplies for your stay in Cape Tribulation. Please note: you will need a packed lunch for tomorrow.

Guide**Paul O'Dowd**

Although originally trained in photojournalism, Paul's lifelong interests are natural history, conservation and the communication of science to the public. He has enjoyed a two-decade career in wilderness access, research and education. Paul's work has taken him into some of the most remote locations on Earth where he has led expeditions for tourism, science, documentary film and humanitarian relief on four continents. He works as a freelance fixer, location and technical advisor and expedition leader for organisations including the BBC, Discovery Channel and Biosphere Expeditions.

12:00 PM

Travel by coach to Cape Tribulation Beach House (travel time approximately 2 hours)

Calypso Coaches, Phone: 04 2868 9210

Including the following stops along the way:

1:00 PM

Paul O'Dowd***Development issues in North Queensland***

This lecture will be delivered at the Daintree River Ferry.

2:00 PM

Paul O'Dowd***Connections between mangroves, the reef and the rainforest***

This lecture will be delivered at a lookout where you can view the Great Barrier Reef.

3:00 PM

Guided walk on Marrja boardwalk

This relatively flat trail is wheelchair accessible and takes visitors through lowland rainforest and mangroves. The track is 1.2 kilometres in length (0.8 miles) and takes a loop through the forest with many information signs along the way. At the far end of the loop is a platform which overlooks Oliver Creek. Here your guide will introduce the group to rainforest structure and ancient history. He will also lead the group in a discussion around the development of tourism infrastructure in the wilderness.

4:45 PM

Check-in to accommodation

Unpack and settle in to your accommodation.

5:15 PM

Unstructured work and personal time

Dinner on your own.

Accommodation

Cape Tribulation Beach House, 152 Rykers Road, Cape Tribulation, Phone: 07 4098 0030
Internet access, Laundry facility, Restaurant, Swimming pool, Kitchen, BBQ facility, Public telephone

Friday 23 June

Day 21: Cape Tribulation

Course work reminder

Due:

1. Bulleted list identifying the 2 most important take-home points from M4 readings #2 & 3 (Costanza et al., 2000; Fischer et al., 2013), to be collected at 1pm discussion.

To Do:

1. Review readings for 9:00 AM discussion tomorrow, bring questions for help with group presentations.
2. Work on group presentation of your assigned section of the Fischer et al. 2013 reading.

8:00 AM

Cape Tribulation Beach House group breakfast

You may choose whether you would like a continental or cooked breakfast.

Remember to bring a packed lunch today.

8:40 AM

Travel by coach to Daintree Rainforest Observatory (travel time approximately 20 minutes)

Calypso Coaches, Phone: 04 2868 9210

9:00 AM

Daintree Rainforest Observatory visit

Daintree Rainforest, Phone: 07 4098 0005

The Daintree Rainforest Observatory is located in lowland tropical rainforest adjacent to the Daintree National Park. This rainforest has the highest biodiversity of any forest in Australia, and in 1988 the area was declared a Wet Tropics World Heritage Area. This is one of the few areas in the world where the reef literally meets the rainforest and the only place where two World Heritage Areas sit side by side.

During your visit to the Daintree Rainforest Observatory, you will have the opportunity to go up into the canopy in a gondola, which can accommodate a maximum of four people, including the driver. All individuals in the gondola must wear a full body harness and lanyard (attached to the gondola). Meanwhile, the rest of the group will be conducting a service-learning project, involving surveying and monitoring of trees on the revegetation plot. The regular monitoring of the plot allows us to answer important questions regarding tree growth rates, survival rates and tree succession. This is valuable information for understanding the most successful way of implementing large-scale revegetation projects in the future. The activity helps to promote awareness of how important revegetation is for increasing local biodiversity, creating wildlife corridors, managing salinity, reducing erosion and offsetting carbon. You will be given the opportunity to eat your packed lunch.

Please wear a long-sleeved shirt, long pants and closed-toe shoes. A hat, sunscreen, insect repellent, and water bottle are also recommended.

1:00 PM

Group discussion

Held in the Daintree Rainforest Observatory lecture room.

2:00 PM

Travel by coach to Cape Tribulation Beach House (travel time approximately 20 minutes)

Calypso Coaches, Phone: 04 2868 9210

2:20 PM

Unstructured work and personal time

Dinner on your own. The group will be split for the rainforest night walk. Group 1 will depart this evening at 7:00 PM. Please eat dinner before you go. Group 2 has unstructured work and personal time this evening.

7:15 PM

Group 1: Travel by coach to rainforest night walk (travel time approximately 15 minutes)

Calypso Coaches, Phone: 04 2868 9210

7:30 PM

Group 1: Cape Tribulation rainforest night walk

This interpretive hike will explore one of the coastal tracks which provides access to the dense lowland rainforest. With good footing and flat walking conditions, the group will look for the unusual creatures that come out after dark. Flashlights can pick up the eye-shine of possums, gliders, spiders and many other nocturnal creatures. The night walk does not cover much distance (less

than a mile) as you move slowly in search of interesting plants and animals.

9:00 PM

Group 1: Travel by coach to Cape Tribulation Beach House (travel time approximately 15 minutes)

Calypso Coaches, Phone: 04 2868 9210

Accommodation

Cape Tribulation Beach House, 152 Rykers Road, Cape Tribulation, Phone: 07 4098 0030

Saturday 24 June Day 22: Cape Tribulation

Course work reminder

To Do:

1. Work on group presentation of your assigned section of the Fischer et al. 2013 reading.
2. Start working on journal entry 5 (days 20-25), due morning of day 26.
3. Start reading M4 reading #4 (Whelan et al, 2006, pages 1-11).

Due: Group presentation and consensus-building activity (4:00 PM today)

8:15 AM

Cape Tribulation Beach House group breakfast

You may choose whether you would like a continental or cooked breakfast.

9:00 AM

Group discussion

Location to be advised.

10:00 AM

Unstructured work and personal time

Lunch and dinner on your own. Group 1 has unstructured work and personal time this evening while group 2 goes on the rainforest night walk.

4:00 PM

Group presentations and consensus-building activity

7:15 PM

Group 2: Travel by coach to rainforest night walk (travel time approximately 15 minutes)

Calypso Coaches, Phone: 04 2868 9210

7:30 PM

Group 2: Cape Tribulation rainforest night walk

9:00 PM

Group 2: Travel by coach to Cape Tribulation Beach House (travel time approximately 15 minutes)

Calypso Coaches, Phone: 04 2868 9210

Accommodation

Cape Tribulation Beach House, 152 Rykers Road, Cape Tribulation, Phone: 07 4098 0030

Sunday 25 June Day 23: Cape Tribulation to Mt Molloy

Course work reminder

To Do: Read M4 reading #4 (Whelan et al, 2006, pages 1-11).

7:15 AM

Cape Tribulation Beach House group breakfast

You may choose whether you would like a continental or cooked breakfast.

8:00 AM

Check-out of accommodation

Please make sure that you leave your room clean and tidy and that you do not leave anything behind. Please load your luggage onto the coach.

8:30 AM

Travel by coach to Sheoak Ridge (travel time approximately 2 hours and 30 minutes)

Calypso Coaches, Phone: 04 2868 9210

11:00 AM

Arrive at Sheoak Ridge

Upon arrival, your hosts Dr Claire and Marcus will greet you at the parking lot. Please load your luggage onto the ute. As a group you will walk to camp with a property and course outline lecture on the way. Claire and Marcus will provide you with biological/ecological information on the fauna and flora species observed on the walk, as well as an introduction to common biological processes and

interactions (e.g. defining different types of symbiotic relationships with living Australian examples).

Please note: The schedule set out for your time at Sheoak Ridge is subject to change. Claire and Marcus will keep you updated with any changes.

12:00 PM	Introduction to Ghost Gum Camp <ul style="list-style-type: none">- Introductory information about the camp site (amenities, etc.)- Camp/fieldwork safety talk - 'Dangers in Australia'- Objectives for property management introduction- Objectives for overnight stay
1:00 PM	Group lunch Individual wraps made by students from fresh ingredients.
2:00 PM	Introduction to Australia Geology, climate and weather
4:00 PM	Field activity: Species area curves of two habitats under different fire regimes
5:00 PM	Group dinner Return to camp to prepare dinner and dessert around the campfire.
7:15 PM	Spotlighting Claire and Marcus will lead two small groups in search of striped possums, gliders, snakes, frogs, etc. Stargazing will be part of this walk.

Accommodation

Sheoak Ridge Nature Reserve, Mt Molloy, Phone: 07 4094 2003

Kingfisher Park Birdwatchers Lodge, RN 6, Mt Kooyong Road, Julatten, Phone: 07 4094 1263 (Coach driver only)
Kitchen

Monday 26 June	Day 24: Mt Molloy
Course work reminder	To Do: Continue working on journal entry 5 (days 20-25), due morning of day 26.

6:45 AM	Dawn bird walk and platypus spotting
8:00 AM	Group breakfast Cereal, toast, yoghurt, fruit, scrambled eggs, tea, coffee and juice will be provided.
9:00 AM	Lecture on fire ecology
10:00 AM	Fieldwork activity: Ant Diversity as a Bioindicator of Ecosystem Health (fire regimes)
12:00 PM	Group lunch
1:00 PM	Ant diversity discussion Analysis and presentation of results.
2:00 PM	Lecture on Australian fauna Evolution, diversity, and conservation.
3:00 PM	Fieldwork activity: Soil health and introduced hard-hoofed animals Soil compaction hydrology and nutrient analysis.
5:30 PM	Group dinner
7:15 PM	Spotlighting Claire and Marcus will lead two small groups in search of striped possums, gliders, snakes, frogs, etc. Stargazing will be part of this walk.

Accommodation

Sheoak Ridge Nature Reserve, Mt Molloy, Phone: 07 4094 2003

Kingfisher Park Birdwatchers Lodge, RN 6, Mt Kooyong Road, Julatten, Phone: 07 4094 1263 (Coach driver only)

Tuesday 27 June Day 25: Mt Molloy to Cairns

Course work reminder

To Do:

1. Complete journal entry 5 (Days 20-25), due tomorrow afternoon.
2. Review and organize course notes for final exam.

6:45 AM	Dawn bird walk and platypus spotting
8:00 AM	Group breakfast Cereal, toast, yoghurt, fruit, scrambled eggs, tea, coffee and juice will be provided.
9:00 AM	Wrap-up discussion
10:00 AM	Check-out of accommodation Please make sure that you leave your tent clean and tidy and that you do not leave anything behind. Please load your luggage onto the coach.
10:30 AM	Travel by coach to Cairns (travel time approximately 2 hours) Calypso Coaches, Phone: 04 2868 9210
12:30 PM	Check-in to accommodation Check-in at your accommodation is at 2:00 PM. If you are unable to check-in early, please store your luggage with reception.
1:00 PM	Lunch on your own There is a Coles supermarket located in the Cairns Central Shopping Centre. From your accommodation, turn right onto Grafton Street. Turn right onto Shields Street. You will see the shopping centre straight ahead. The walk takes about 10 minutes. Open 8:00 AM - 9:00 PM.
2:30 PM	Walk to Rydges Plaza Cairns conference centre 1. From your accommodation, turn right onto Grafton Street. 2. Continue for 300 metres. You will find the Rydges Plaza Cairns on the corner of Grafton and Spence Streets. The walk takes about 5 minutes.
2:40 PM	Program wrap-up and evaluations - Exam review - Preparation for final research paper and course synthesis papers - Program evaluations This afternoon's session will be held at the Rydges Plaza Cairns in the Upolu Room on level 3.
4:45 PM	Unstructured work and personal time Dinner on your own. Please use this time to study for tomorrow's final exam.

Accommodation

Northern Greenhouse Cairns, 117 Grafton Street, Cairns, Phone: 07 4047 7200

Internet access, Laundry facility, Swimming pool, Wi-fi - complimentary, Air conditioning, Disabled access, Kitchen, BBQ facility, Luggage storage

Wednesday 28 June Day 26: Cairns

Course work reminder

Due when we depart for final exam: Journal entry 5 (Days 20-25).

8:00 AM	Northern Greenhouse continental group breakfast
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8:50 AM	Walk to Rydges Plaza Cairns conference centre
9:00 AM	Final exam This morning's exam will be held at the Rydges Plaza Cairns in the Upolu Room on level 3.
12:00 PM	Unstructured work and personal time Lunch on your own. Please ensure you have your travel documents ready for your flight tomorrow. If you are not returning on the group flight, but would like a ride to the airport, there is plenty of room on the coach to the airport. However, if your flight is much later and you do not wish to wait at the airport, please see reception to book a taxi or bus to the airport at the appropriate time.
6:45 PM	Walk to Green Ant Cantina 1. From your accommodation, turn right onto Grafton Street. 2. Turn right onto Spence Street. 3. Turn right onto Bunda Street. Green Ant Cantina will be on the left. The walk takes about 15 minutes.
7:00 PM	Green Ant Cantina group dinner 183 Bunda St, Cairns, Phone: 07 4041 5061, 04 0696 6470 Drinks are not included.

Accommodation

Northern Greenhouse Cairns, 117 Grafton Street, Cairns, Phone: 07 4047 7200

Thursday 29 June	Day 27: Cairns to USA
Course work reminder	To Do: Work on the final course synthesis assignment while everything is fresh in your mind

3:25 AM	Check-out of accommodation Please make sure that you leave your room clean and tidy and that you do not leave anything behind. Please load your luggage onto the coach.
3:40 AM	Travel by coach to Cairns airport (travel time approximately 20 minutes) Calypso Coaches, Phone: 04 2868 9210
5:30 AM	Group flight departs Qantas Airways flight 799 departs for Brisbane. Flight arrives in Brisbane at 7:35 AM.
10:20 AM	Group flight departs Qantas Airways flight 15 departs for Los Angeles. Flight arrives in Los Angeles at 6:00 AM.