

Introduction Seminar

Excursion on Land Use on the South Island, NZ

Christina Bogner Franz Moder Michael Hauhs

24. October 2017

Who We Are

Christina Bogner
(geoecology)

research interests:

- land use (soil aspects)
- remote sensing
- statistical modelling

Michael Hauhs
(ecological modelling)

research interests:

- ecosystem theory
- sustainable land use
- catchment studies

Our home department: [Ecological Modelling](#)
note details & updates of the NZ-excursion on the [e-learning server](#)

Educational Objectives

After this course you should know:

- natural and cultural history of New Zealand
- similarities and differences from middle European ecosystems
- key notions and concepts for evaluating land use
- different disciplinary approaches, their main abstractions

After this course you should be able to:

- relate value judgement to different histories and environments
- argue about land use valuation in NZ (and Europe)
- classify interdisciplinary approaches
- see ecosystems at home differently

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what we expect from you

compulsive

- prior**
 - a presentation in this seminar
 - where and when you arrive, how to contact you
- during**
 - at Chch: fit participants
 - in case, inform us about medical status
 - prepared for alpine weather: tracking boots, rain clothes, sleeping bag (10°C), etc.
 - active engagement in discussions with guides
- after**
 - a topical report delivered by April, 30th 2018
 - attending a final session in summer term 2018

optional

- orga-group helping in preparations (interests, questions, exchange of material, forum for tips ...)

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what we offer

seminar & excursion

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 - advice and guidance for your tasks (e.g. entry literature, feedback on drafts)
 - tips where to stay, what to see before and after
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 - pick up at airport, accommodations, transport, local guides, entry fees, opportunities for shopping and cooking
 - interesting sites, challenges & people
- after**
 - 7 credit points

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Planned dates ...

excursion

- register for excursion with Mrs. J.Samimi & transfer 200 € by 20 November 2017, second transfer by 31 January 2018
- self-organised travel to and from Christchurch (Chch), NZ
- arrive at 24 March 2018 (Saturday) at Chch (no food imports, boots washed prior to packing)
- earliest return flight 7 April 2018 (Saturday) from Chch, cheapest flights (October, 24th 2017: 1080€)
- costs to pay to UBT about 450,- €
- total costs about 1750,- €

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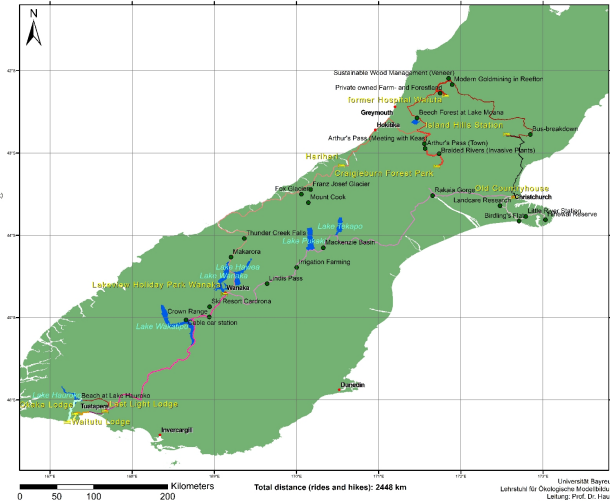
... and routes

Legend

- Cities
- POIs
- Accommodations
- Lakes
- Day 1 (193 km)**
- Christchurch - Hinesaki - Christchurch
- Day 2 (481 km)**
- Christchurch - Wanaka
- Wanaka
- Day 3 (178 km)**
- Wanaka - Tuatapere
- Day 4 (42 km)**
- Tuatapere - Humpidge Track
- Humpidge Walk Up
- Humpidge Walk Down
- Day 5 (17 km)**
- Waitutu Lodge - Lake Hauroko (Jetboat)
- Day 6 (89 km)**
- Lake Hauroko - Tuatapere
- Day 7 (622 km)**
- Tuatapere - Clifden
- Wanaka
- Clifden - Oraua
- Oraua - Wanaka
- Wanaka - Harihari
- Day 8 (218 km)**
- Harihari - Jackson
- Jackson - Craigieburn
- Day 9 (262 km)**
- Craigieburn - Jackson
- Jackson - Ikamatu
- Ikamatu - Reefton
- excuse private farm
- Day 10 (233 km)**
- Waiau - Reefton
- Reefton - Balmoral
- Balmoral - Island Hills
- Day 11 (113 km)**
- Island Hills - Balmoral
- Balmoral - Christchurch

Sources:
 Shoreline NZ, freagie.org
 Lake Polygons: Aerial Picture in GoogleEarth
 Tracks, Points, etc... self made

Excursion "Landuse in New Zealand" March 2012



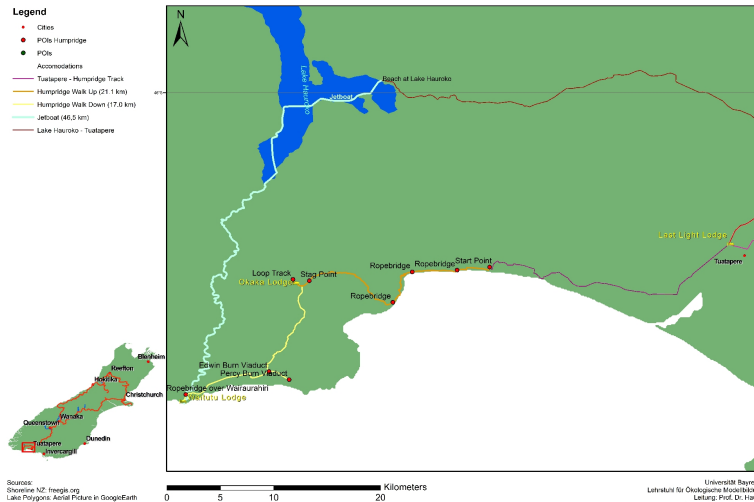
Universität Bayreuth
 Lehrstuhl für Ökologische Modellbildung
 Leitang, Prof. Dr. Heide
 erstellt von Stefan Eucht 2012

... and routes

Excursion "Landuse in New Zealand" March 2012 - Humpridge Track

Legend

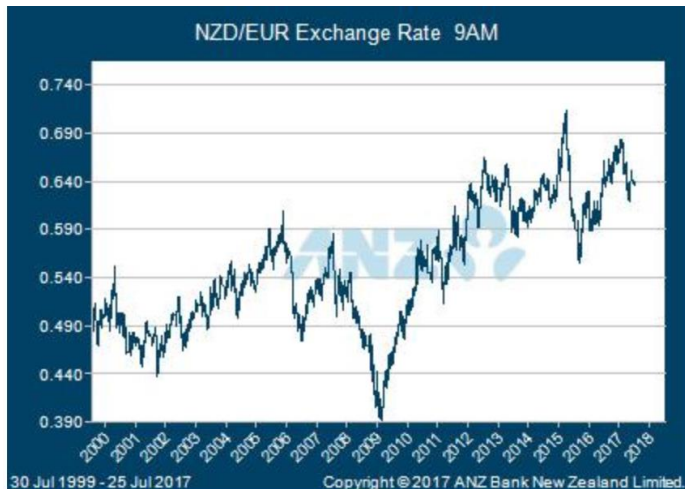
- Cities
- POIs Humpridge
- POIs
- Accomodations
- Tuatapere - Humpridge Track
- Humpridge Walk Up (21.1 km)
- Humpridge Walk Down (17.0 km)
- Jetboat (46,5 km)
- Lake Hauroko - Tuatapere



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Universität Bayreuth
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 Leitung: Prof. Dr. Hauke
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exchange risks



Why NZ and Ecological Modelling? I

New Zealand and Europe

- similar environment (climate, soils)
- different histories of settlement by biota and by humans
- differences in actual land use Europe vs. NZ
- different potentials and problems
- tourism profiles (100% pure New Zealand, 100% pure you, 100% pure adrenalin, 100% Middle-earth)

Why NZ II

Topics

- restoration after non-sustainable use (Hinewai, Banks Peninsula)
- ungrazed Tussock, a unique landscape
- invasive plants (into tussock and into southern beech)
- geomorphology (tectonic, glaciation histories)
- preservation in the presence of introduced mammals
- tourism and hunting in national parks
- forestry with exotic and indigenous species (beech)
- management of natural hazards (flooding)
- mixed farming
- mining operations (gold, coal)
- catchment hydrology
- dairying

Why NZ III

Topics (cont.)

- sawmill (beech timber)
- planing residential area
- erosion control, invasive plants (II)
- summing up, questions, with experts (Canterbury University)

Seminar topics I:

geo-aspects of the south island

- climate
- geology, tectonics and soils (braided) rivers
- geomorphology along the main fault line
- coasts and lagoons

bio-aspects

- evolution history and biota settlement
- Nothofagus and European Beech
- forestry with indigenous species
- deciduousness in NZ
- introduced species (Red deer: hunting and farming)
- introduced species (Rainbow and Brown trout)
- invasive plants: Gorse and Lupins

Topics II:

history

- Wakefield society and Christchurch
- historical sheep runs in the Canterbury plains
- cultural history: Moa hunting
- cultural history: Kemp's Deed
- wheat farming in the Canterbury plains

risk management

- hazard management: Christchurch quake 2010/11
- hazard management: tsunamis at Kaikura
- hazard management: floods at Franz-Josef
- nature protection vs. animal rights (stouts and 1080)

Topics III:

land use

- energy generation and distribution in NZ
- resources at the West coast (gold, coal, timber)
- history of tourism in NZ
- forestry with exotic species
- dairy farming and industry
- future visions (pest-free NZ 2050)

your own choice

- propose a topic