

Michael Grocott

Doctoral Researcher

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About

PhD Title: The hydrology of biological hotspots in a glacierised catchment: an integrated tracing and modelling study

Supervisors: Nick Kettridge, Chris Bradley, and Alexander Milner

Michael's research focuses on understanding the water source and flow pathway dynamics of groundwater-fed streams that originate on floodplain terraces of glacierised catchments. These systems act as significant hotspots for biological and biogeochemical activity. He will use hydrochemical and stable isotope data collected from study sites in Denali National Park, Alaska, during 2013 and 2014 to determine how water source and flow pathway dynamics vary both spatially and temporally. The understanding gained from these site specific studies will then be applied to consider how future climate changes may impact the water dynamics of these systems globally.

Michael's current research is funded by a studentship awarded by the UK Natural Environment Research Council (NERC).

Qualifications

MSci Environmental Geoscience (University of Bristol), 2011

Biography

Michael read for an MSci in Environmental Geoscience at the University of Bristol graduating in 2011; his research project was titled 'Hydrochemistry of headwater streams and blanket mire discharge in Exmoor National Park'. Following the completion of this he spent 12 months in Aberdeen working as a Technology Analyst for ITF, facilitating technology development in the Oil & Gas Industry. Michael joined Birmingham as a doctoral researcher in September 2012.

Research

Research Interests

- Hydroecology and hydrochemistry of mountainous and upland environments
- Glacial environments

Research Groups

[Water Sciences \(/research/activity/water/index.aspx\)](/research/activity/water/index.aspx)

Other activities

Memberships

- Fellow of The Geological Society of London
- Member of the British Hydrological Society (BHS)
- Member of the American Geophysical Union (AGU)
- Member of the International Association of Hydrological Sciences (IAHS)