

United Kingdom research initiatives for 2000-2001

Collaborative effort between the British Antarctic Survey, Bristol and Bradford Universities plus ties with NASA.

- Three year research grant proposal to model circulation in subglacial lakes and consider geochemistry and biology implications.
- Research studentship to investigate gas hydrate stability and microbiological interactions.
- Three year research grant to study microbial life and geochemistry in ice cores - particularly the ice veins described by Buford Price, University of California, Berkeley.
- Development by BAS of science packages to deploy on NASA designed Autonomous Rover vehicles - possible use for remote sensing on subglacial lakes as well as its primary objective - a transect of Antarctica in 2007. This is currently at a planning stage.
- Development of biomarker detection technologies with application to subglacial lakes. This is ongoing work linked to our studies of extreme environments and astrobiological interests.
- Review papers on subglacial lakes by Cynan Ellis-Evans (BAS), Martin Siegert (Bristol) and others discussing existing datasets and newly developed models have been submitted.
- BAS is currently investigating the potential for a major multidisciplinary research programme on subglacial lakes for deployment in our next five year plan (2005-2010).