

Valerie Morris

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Objective

To be fully involved in all aspects of ice core science. I have spent over 5 years processing and analyzing ice cores for stable isotopes, and I would love to be more involved with the field aspect of this science.

Experience

Stable Isotope Lab, INSTAAR, University of Colorado, Boulder 2009-present

Analysis of stable isotopes on ice core and other water samples, maintenance and repair of mass spectrometers, cavity ring down laser systems, and automated preparation systems, co-development of continuous melter system with Bruce Vaughn, handling and processing of ice cores at NICL and INSTAAR, developing data processing software in Python.

Stable Isotope Lab, GNS Science, New Zealand 2005-2009

Management of facility with 5 mass spectrometers and 3 staff members, analysis of all light stable isotopes on samples of all phases, maintenance and repair of mass spectrometers and automated preparation systems, purchasing, budgeting, helped with the development of the ice core facility.

Stable Isotope Lab, INSTAAR, University of Colorado, Boulder 2001-2005

Analysis of stable isotopes on greenhouse gases in atmospheric samples from the NOAA Flask Network, maintenance and repair of mass spectrometers and automated preparation systems, database interfacing with IDL coding, ice core processing at NICL.

Asner Biogeochemistry Lab, University of Colorado, Boulder 1999-2001

Analysis of soil and soil water for stable isotope ratios of and percent content of carbon and nitrogen, field experience in rural parts of Texas and remote areas in Hawaii, remote sensing image analysis and calibration.

Education

University of Colorado, Boulder 1995-2001

BA Environmental Studies

BA Geology, Magna Cum Laude

References

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