

**Category**

EN Environment

**Session Number**

EN-5

**Session Title**

Big data, small data, your data. What does good data management mean to you?

**Session Description**

The rise of big data is challenging the data handling systems of scientists and data managers in the polar research communities. It is also increasing the focus on ideas about who owns data and how it should best be shared.

While polar data managers have made great strides in archiving and sharing observation and derived data over the past quarter century, the velocity, variety and volume of data created by polar scientists pose new challenges for data sharing infrastructure. For modelers, decisions must be made about exactly what to archive. Meanwhile, the new generation of Virtual Research and Cloud Computing environments introduces new kinds of data infrastructure.

In addition to the technical challenges of managing big data, this session will investigate the human side of data management. It will cover experiences in working with data owners and users to ease their experience of data sharing. We encourage presentations on the tensions around sharing data, including concerns related to research competitiveness, ownership, privacy, returning Indigenous Knowledge to communities, and motivations for both sharing and protecting data.

Contributions are invited from those scientists, practitioners, and others with complex data management needs and those planning new developments in data management infrastructure. We welcome presentations from all disciplines, including social sciences, Indigenous Knowledge, physical and biological sciences.

**Keywords:** data management, big data, ownership, sharing, infrastructure

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