

Metadata Details

Title

Exploring in situ spectra for characterization of glacier surfaces using multispectral imagery analysis to infer climate change

Science Keywords

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|-----------------|---------------------|
| Category | Cryosphere |
| Topic | Glaciers/Ice Sheets |
| Expedition Year | 2015-2016 |
| ISO Topic | Oceanography |

Summary

Abstract

Our proposed study focuses on the following sequential sub-objectives: 1] To explore the use of in-situ spectra to DMCii multispectral satellite image classification of glacier surfaces/facies. 2] Spatio-temporal glacier surface change detection studies using existing Landsat images (2005- 2010) and present DMCii images captured in 2013. 3] Collection of ground spectra using spectroradiometer for calibration and atmospheric correction of DMCii data in order to improve digital classification truth.

Purpose

Our proposed study focuses on the following sequential sub-objectives: 1] To explore the use of in-situ spectra to DMCii multispectral satellite image classification of glacier surfaces/facies. 2] Spatio-temporal glacier surface change detection studies using existing Landsat images (2005- 2010) and present DMCii images captured in 2013. 3] Collection of ground spectra using spectroradiometer for calibration and atmospheric correction of DMCii data in order to improve digital classification truth.

Data Center