



PRESS RELEASE

SPECTRAL EVOLUTION PSR-1100 used in glaciology summer program at Juneau Icefield Research Program

Students get hands on experience understanding the relationship between solar radiation, glaciers, and melt.

Lawrence, MA – January 5, 2017– The Juneau Icefield Research Program (IIRP) provides an unrivaled educational and expeditionary experience in the Coast Mountains of Alaska for undergraduate and graduate students in Earth sciences. This year, Dr. Allen Pope and his students were able to take along a PSR-1100 spectroradiometer from Spectral Evolution to study the effects of solar radiation on glacier melt.

The PSR-1100 is a lightweight spectroradiometer with a spectral range from 320-1100 nanometers. It can store up to 2500 scans in standalone mode making it an excellent choice for field work. The PSR-1100 can be operated with one hand and measures the amount of visible and near-infrared light being reflected and absorbed by a surface.

Under the direction of Dr. Pope, students were able to collect measurements from white snow, snow that was darkened by algae or other factors, pools of water, red algae and some local rock samples. The collected data was downloaded to laptops for analysis with Excel or Matlab. Students were encouraged to calculate average reflectance, albedo and radiative forcing. According to Dr. Pope, radiative forcing is especially important in understanding glacier melt since a darker glacier surface absorbs more energy and melts more snow and ice.

For more information on the PSR-100, go to:

http://www.spectralevolution.com/lightweight_portable_battery_operated_spectrometer.html

To read more about JIRP, go to:

<http://juneauicefield.com/>

About SPECTRAL EVOLUTION

Established in 2004, SPECTRAL EVOLUTION is a leading manufacturer of laboratory and handheld portable spectrometers, spectroradiometers and spectrophotometers. SPECTRAL EVOLUTION spectrometers are used worldwide for many mission-critical lab and field applications in mining, remote sensing, vegetative studies, ground truthing, environmental and climate studies, developing satellite calibrations, and more, due to their reliable, robust, rugged design and user-friendly one-touch features.

SPECTRAL EVOLUTION maintains a facility in Lawrence, Massachusetts which houses design, prototyping, manufacturing and service facilities for the instruments that it markets and sells worldwide, either through direct sales, OEM sales or through distributor agents.

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