A Brief History of Storm Peak Laboratory


1995: DRI builds a permanent facility at Mt. Werner site

2012 – Major upgrade funded by National Science Foundation ARRA funds

2020 – Operations transferred from DRI to the University of Utah

2022 – Building and all Instrumentation transferred from DRI to the University of Utah

Storm Peak Research Training

Host undergraduate atmospheric science field courses from:
- Colorado State University, Hendrix College, University of Wisconsin & Texas A&M University (new U. of Utah and Colorado College – 2022 & 2023); University of Colorado - integrates hydrology field course with atmospheric science courses.
- Approximately 100 students annually participate in course at SPL.
- Approximately 40 graduate students have used data from SPL as the foundation for either a M.S. or Ph.D. thesis.

Facility Instruments

- Aerosol Concentration
  - Fine
  - Ultrafine
- Aerosol Optical Properties
  - nephelometer - 3λ
  - CLAP - 3λ
- Aerosol size distributions
  - TSI SMPS 10-350 nm
  - TSI nano-SMPS 3-60 nm
  - TSI APS 0.5 – 20 μm
- DMT CCN Counter
- Multi-Filter Shadow-band Radiometer
  - UV & Visible
- DMT Cloud Probes
  - CIP 25–1550 μm
  - PIP100-6200 μm
- CO₂
- CH₄, H₂O, CO (new 2022 – NOAA)
- O₃, SO₂, CO, NOx, Water Vapor Isotope measurements
- Cold Room- Cloud Sieves
- Meteorological Stations –7 on mt.
- Sonic Snow Depth

Located on Steamboat Ski Resort

Elevation: 3220 m Pressure: ~ 690 mb

In cloud ~40% of time in winter - Mixed Phase

9 Person Bunkhouse, Full Kitchen

Facility and Guest Instruments

Wet Chemistry Lab

~150 Peer reviewed journal articles to date