SnowEx Mores Creek Summit (MCS) Airborne LiDAR Survey Raw, Version 1 Technical Reference

1 DATA DESCRIPTION

The data set described here provides raw lidar data collected as part of a multi-year effort to monitor monthly snow distribution over a 35 km² region of the Mores Creek Headwaters in the Boise Mountains of central Idaho between 2021 and 2024. Data acquisition in 2021 overlapped temporally with the NASA SnowEx 2021 field campaign.

Digital terrain models (DTM), digital surface models (DSM) snow depth models, and canopy height models (CHM) derived from these point cloud data are available as SnowEx Mores Creek Summit (MCS) Airborne LiDAR Survey, Version 1).

1.1 File Information

1.1.1 Format

The data are available as both laz. And las. files, each representing a point cloud derived from data collected on a single date.

1.1.2 Naming Convention

The data files are named according to the following convention, and as described in Table 1.

`SNEX_MCS_Lidar_Raw_[YYYYMMDD]_PC_[n]_v01.0.[laz/las]`

Table 1. Final naming convention

Variable	Description
`SNEX`	SnowEx
`MCS`	Mores Creek Summit
`Lidar_Raw`	Raw lidar data
`[YYYYMMDD]`	Date acquisition date (4-digit year, 2-digit month, and 2-digit day)
`PC`	Point cloud
`[n]`	Point cloud ID number
`v01.0`	Data set version

2 RELATED DATA SETS

SnowEx at NSIDC | Data Sets

SnowEx Mores Creek Summit (MCS) Airborne LiDAR Survey Raw, Version 1

SnowEx20-21 QSI Lidar DEM 0.5m UTM Grid, Version 1

3 RELATED RESOURCES

Boise, Idaho Airborne LiDAR Survey at Mores Creek Summit Snow Season Report 2021-2022

Boise, Idaho Airborne LiDAR Survey at Mores Creek Summit Snow Season Report 2022-2023

Boise, Idaho Airborne LiDAR Survey at Mores Creek Summit Snow Season Report 2023-2024

SnowEx 2020 Snow-On, Colorado and Idaho NIR Lidar Technical Data Report