

SnowEx21 Boise River Basin Ground-penetrating Radar Two-way Travel Time, Version 1 Technical Reference

1 INTRODUCTION

1.1 Data Set Overview

This data set contains two-way travel time data calculated using the results of 1 GHz ground-penetrating radar surveys conducted at Banner Summit, as part of the SNEX21 Time Series campaign in the Boise River Basin, Idaho. More information about this campaign, including data collection methods and sampling sites descriptions, can be found in the [SnowEx 2021 Experimental Plan](#).

1.2 File Information

1.2.1 Format

The data are available in fourteen .csv files, organized as single-file granules.

1.2.2 Naming Convention

The data files conform to the following naming convention:

SNEX21_BR_GPR_[site]_[YYYYMMDD]_[N]_v01.csv,

where SNEX21_BR_GPR is the short-name for the data set title, SITE indicates the sampling location, YYYYMMDD indicates the date of data acquisition, and N is a single-digit number distinguishing data files which were collected at the same site on the same day.

1.3 Spatial Information

1.3.1 Coverage

Northernmost Latitude: 44.3935° N

Southernmost Latitude: 44.2900° N

Easternmost Longitude: 115.1717° W

Westernmost Longitude: 115.2563° W

1.3.2 Geolocation

This data set conforms to the WGS 84 / UTM zone 11N coordinate reference system ([EPSG 32611](#)).

1.4 Temporal Information

1.4.1 Coverage and Resolution

1 January 2021 to 22 March 2021

Data files represent a single GPR data acquisition, which occurred approximately weekly. Each file contains the accumulation of instantaneous point collections, which span a short time scale on the order of minutes to hours.