

Reynolds Mountain East FMCW Radar Autopicked Snow Depths, Version 1 Technical Reference

1 INTRODUCTION

1.1 Data Set Overview

This dataset contains semi-automatically picked snow depths from FMCW radar transects in Reynold's Mountain East, in the Reynold's Creek Experimental Watershed, Idaho. Available parameters include two-way travel time and calculated snow depth. Also included are the processed radiogram files, which were used to determine two-way travel time. More details regarding data acquisition and processing can be found in the [Supplementary Documentation](#).

1.2 File Information

1.2.1 Format

The data are available in 58 granules. The primary data, including two-way travel time and calculated snow depth, is available in a single-file granule formatted as a .csv file. Processed radiogram files are available in 56 single-file granules formatted as netCDF files (.nc). A multi-file granule formatted as a compressed .tgz file contains shapefiles which define the boundary of the data collection site.

1.2.2 Naming Convention

The primary data files is named:

```
RME_FMCW_SD_rdpicks_100scale_100size_1mod_20090319_v01.csv.
```

The .tgz file containing the shapefiles is named:

```
RME_FMCW_SD_rdpicks_100scale_100size_1mod_20090319_v01.csv.
```

The data files containing the radiograms conform to the following naming convention:

```
RME_FMCW_SD_[site]_[NN]_[YYYYMMDD].nc,
```

where RME_FMCW_SD 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. Details about each radar transect and SITE can be found [Supplementary Radar Notes](#).

1.3 Spatial Information

1.3.1 Coverage

Northernmost Latitude: 43.071° N

Southernmost Latitude: 43.063° N

Easternmost Longitude: 116.749° W

Westernmost Longitude: 116.760° 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

19 March 2009 to 19 March 2009