

SnowEx23 Airborne Orthoimagery, Version 1

Technical Reference

1 INTRODUCTION

1.1 Data Set Overview

This data set contains aerial photogrammetry images collected from two regions of Alaska, USA collected as part of the NASA SnowEx 2023 field campaign. The study sites include a boreal forest environment in the Fairbanks region of central Alaska (the Bonanza Creek Experimental Forest, Caribou Poker Creek watershed, and Farmer's Loop/Creamer's Field) and a coastal tundra environment in the North Slope region of the northern Alaska coastal plain (Arctic coastal plain and Upper Kuparuk Toolik).

1.2 File Information

1.2.1 Format

The data are available as 653 single-file granules, formatted as Geographic Tagged Image (GeoTIFF, 32-bit) files.

1.2.2 Naming Convention

The data files conform to either of the following naming conventions:

SNEX23_Photo_[YYYYMMDD]_[site]_[N_N]_v01.tif or
SNEX23_Photo_[YYYYMMDD]_[site]_[ortho]_[N_N]_v01.tif,

where SNEX23_Photo is the short-name for the data set title, YYYYMMDD indicates the date of data acquisition, SITE indicates the sampling location, and N-N is an identification 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: 70° N

Southernmost Latitude: 64° N

Easternmost Longitude: 147° W

Westernmost Longitude: 148° W

1.3.2 Geolocation

This data set conforms to the WGS 84 / UTM zone 6N coordinate reference system ([EPSG 32606](#)).

1.4 Temporal Information

1.4.1 Coverage

11 March 2022 to 13 March 2023