

# Extreme Ice Survey Glacier Image Archive, 2007-2022, Technical Reference

## 1 DATA DESCRIPTION

The Extreme Ice Survey (EIS) Glacier Image Archive, 2007-2022 is a collection of images capturing changes in arctic and alpine landscapes. Camera sites were established and maintained at scientifically significant cryospheric locations around the world. The 1.5 million images in this collection provide crucial data on the speed and extent of glacial retreat.

### 1.1 File Information

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#### 1.1.1 Format & Contents

The data files are provided as .jpg images. A file description is included with each image that notes the world region, area within the region, camera location, and geolocation.

#### 1.1.2 Naming Convention

Different file naming conventions indicate whether the camera collected an image as expected or malfunctioned, as described in Table 1. When the camera collected an image as expected, file names specify the region, camera number, and acquisition date and time. Images where the camera malfunctioned are indicated with 'bad time code' in the filename (either before or after the year of acquisition) or by the filename lacking a month and day of data acquisition.

#### **Example File Names**

AK-05\_20151021-072800.jpg

AK-05\_1985-2015\_BADTC\_00001.jpg

AK-05\_BADTC\_1985-2015\_00001.jpg

AK-05\_1985-2015\_00001.jpg

AK-05\_2015\_00001.jpg

Table 1. File Naming Convention

Variable	Description
XX-XX	Region abbreviation and camera number
YYYYMMDD-HHMMSS	<p>This naming convention is used when the camera collected an image as expected:</p> <ul style="list-style-type: none"> <li>• Year, month, day, hour, minute, and second of data acquisition</li> </ul>
YYYY-YYYY_BADTC_NNNNN BADTC_YYYY-YYYY_NNNNN YYYY_YYYY_NNNNN YYYY_NNNN	<p>These naming conventions are used when the camera malfunctioned:</p> <ul style="list-style-type: none"> <li>• Approximate year to approximate year of data acquisition, bad time code, and sequential number.</li> <li>• Bad time code, approximate year to approximate year of data acquisition, and sequential number</li> <li>• Approximate year of data acquisition and sequential number</li> <li>• Year of data acquisition and sequential number</li> </ul>

## 2 ACKNOWLEDGEMENTS & RELATED WEBSITE

For more information on the EIS project, including funding sponsors and the EIS team, refer to [The Earth Vision Institute Extreme Ice Survey \(EIS\)](#)