CHAQ2020 - Hope Bay - Spatial data

SND-ID: 2020-141-1. Version: 1. DOI: https://doi.org/10.5878/4h66-rk08

Is part of collection at SND: CHAQ 2020 - Cultural Heritage Antarctica

Download data

Meshes/Readme Meshes.txt (1.84 KB)

Meshes/ShelterSFM.zip (1.67 GB)

Meshes/ShelterSFMPreviewMesh.zip (32.83 MB)

Pointclouds/Decimated/HopeBayShelterLaser41-66Preview.zip (160.36 MB)

Pointclouds/Decimated/HopeBayShelterLaser41-98Preview.zip (191.5 MB)

Pointclouds/Decimated/HopeBayShelterLaser77-98Preview.zip (105.38 MB)

Pointclouds/Decimated/HopeBayShelterSFMPreview.zip (173.34 MB)

Pointclouds/Decimated/Readme_Decimated.txt (2.67 KB)

Pointclouds/HighRes/HopeBayShelterLaser41-66.zip (1.82 GB)

Pointclouds/HighRes/HopeBayShelterLaser41-98.zip (2.27 GB)

Pointclouds/HighRes/HopeBayShelterLaser77-98.zip (1.33 GB)

Pointclouds/HighRes/HopeBayShelterSFM.zip (1.96 GB)

Pointclouds/HighRes/Readme HighRes.txt (2.54 KB)

Associated documentation

Spatial data file formats.txt (1.42 KB)

Download all files

2020-141-1-1.zip (~9.71 GB)

Citation

Westin, J., & Almevik, G. (2021) CHAQ2020 - Hope Bay - Spatial data (Version 1) [Data set]. University of Gothenburg. Available at: https://doi.org/10.5878/4h66-rk08

Creator/Principal investigator(s)

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Research principal

<u>University of Gothenburg</u> - Centre for Digital Humanities

Description

The first Swedish Antarctic Expedition (1901-1903), led by Otto Nordenskjöld, sailed to Antarctica on the ship Antarctic captained by CA Larsen, and established a research station on Snow Hill Island. There six members overwintered and performed paleontological, meteorological, geomagnetic and geological studies, while the rest of the expedition set sail for South Orkney.

After the winter, on the way back to Snow Hill Island, the Antarctic got stuck in the ice and sank. At

this point, the expedition members were divided into three groups. One of these overwintered an extra year on Snow Hill Island, whereas the other two groups were forced to build stone huts in order to overwinter at Hope Bay and Paulet Island. An Argentinean vessel, the Corbeta Uruguay, rescued the expedition in November 1903.

CHAQ 2020 is an Argentinean-Swedish project with fieldwork in the area around the Antarctic Peninsula aiming to investigating and documenting the historical remains of the first Swedish South Polar expedition under the leadership of Otto Nordenskjöld 1901-1903. The material was collected in January and February 2020.

This catalogue entry collects the spatial data from Hope Bay, which include point clouds and textured meshes produced through laser scanning with a Faro Focus m70, and structure-from-motion photography.

The 3d documentation of the stone shelter consists of two complete sets of structure-from-motion photography with two different cameras (Fujifilm X-T2 and iPhone XR), with approximately 1260 photos in the first set and 1870 photos in the second, and two complete sessions of laser scanning (Faro Focus m70) with 21-25 individual scanning positions in each session. The result from the laser scanning is published as three point clouds; one collecting all scans into one pointcloud, and a separate pointcloud for each session. The result from the structure-from-motion scanning is published as both point clouds and textured meshes.

Data contains personal data

Nο

Language

English

Time period(s) investigated

20th century - 21th century 1902-01-01 - 2020-02-10

Data format / data structure

Geospatial

3D

Type of archaeological investigation

Watching brief, Archaeological field evaluation, Planning basis

Type of archaeological remains

Feature, Buildings, Settlement remnants, Building remains

Geographic spread

Geographic location: Antarctica

Geographic description: The documentation was gathered at Snow Hill Island, Seymour Island

(Marambio), and Hope Bay.

Responsible department/unit

Centre for Digital Humanities

Contributor(s)

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University of Gothenburg

Luleå University of Technology

KTH Royal Institute of Technology

Swedish National Heritage Board

Commissioning organisation

Swedish National Heritage Board

Research area

History and archaeology (Standard för svensk indelning av forskningsämnen 2011)

<u>Structure</u> (INSPIRE topic categories)

Keywords

Antarctica, Antarctic region, Swedish antarctic expedition, 1901-1904, Nordenskjöld, otto, 1869-1928

Publications

Almevik, G., Avango, D., Contissa, V., Fontana, P., Lindström, K., & Westin, J. (2021). Built cultural heritage in Antarctica: remains and uses of the first Swedish SouthPolar expedition 1901–1903. Riksantikvarieämbetet. http://urn.kb.se/resolve?urn=urn:nbn:se:raa:diva-6230

ISBN: 978-91-7209-891-6

URN: urn:nbn:se:raa:diva-6230

If you have published anything based on these data, <u>please notify us</u> with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

Polygon (Lon/Lat)

-59.915108267717. -62.532594345486

-59.915108267717, -65.146114847564

-54.144495800247, -65.146114847564

-54.144495800247, -62.532594345486

-59.915108267717, -62.532594345486

Accessibility level

Access to data through SND Data are freely accessible

Use of data

Things to consider when using data shared through SND

License

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Versions

Version 1, 2021-03-02

Homepage

A portal to the material that was collected during the research expedition 2020 to the remains from Nordenskjöld's expedition 1901-1903

Contacts for questions about the data

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Related research data in SND's catalogue

CHAQ2020 - Hope Bay - Spatial data - CHAQ2020 - Hope Bay - Raw data

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DataCite

DDI 2.5

DDI 3.3

DCAT-AP-SE 2.0

JSON-LD

PDF

Citation (CLS)

File overview (CSV)

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