

AFSC/ABL: Multibeam Database

Theme keywords: multi-beam, backscatter, bathymetry

Abstract: Seafloor habitat maps have been created using high resolution multibeam sonar with co-registered backscatter at various locations throughout the Alaska Region. Most of the mapping in the GOA is in the form of “postage stamps” ranging in size from 27 km² to 790 km². Some of this mapping was in cooperation with the Alaska Department of Fish and Game and the University of Alaska Fairbanks. Such mapped sites in the GOA were generally selected in the areas of fisheries for rockfish (*Sebastes* spp.). The selection of specific sites to map were influenced by budget and logistic constraints that in some cases limited the fishery habitat mapping to areas near concurrent areas being mapped by NOAA’s Office of Coast Survey. In contrast for the Aleutian Islands, a systematic design was used to select sites to map that enabled a relatively substantial area of seafloor to be characterized. In theory such a systematic design allows extrapolation to unmapped areas. Database includes bathymetry and backscatter data files as well as a habitat typing spreadsheet for all areas classified using a deep-water marine benthic habitat scheme modified after Green et al. (1999).

FGDC, ESRI, and Biological Profile Metadata:

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Metadata elements shown with **blue** text are defined in the Federal Geographic Data Committee's (FGDC) [Content Standard for Digital Geospatial Metadata \(CSDGM\)](#). Elements shown with **green** text are defined in the [ESRI Profile of the CSDGM](#). Elements shown with **brown** text are defined in the [NBII Biological Profile of the CSDGM](#). Elements shown with a green asterisk (*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

Identification Information:

Citation:

Citation information:

Originators: S. Kalei Shotwell, Jon Heifetz, AFSC

Title:

AFSC/ABL: Multibeam Database

Publication date: Unknown

Geospatial data presentation form: spreadsheet

Description:

Abstract:

Seafloor habitat maps have been created using high resolution multibeam sonar with co-registered backscatter at various locations throughout the Alaska Region. Most of the mapping in the GOA is in the form of "postage stamps" ranging in size from 27 km² to 790 km². Some of this mapping was in cooperation with the Alaska Department of Fish and Game and the University of Alaska Fairbanks. Such mapped sites in the GOA were generally selected in the areas of fisheries for rockfish (*Sebastes* spp.). The selection of specific sites to map were influenced by budget and logistic constraints that in some cases limited the fishery habitat mapping to areas near concurrent areas being mapped by NOAA's Office of Coast Survey. In contrast for the Aleutian Islands, a systematic design was used to select sites to map that enabled a relatively substantial area of seafloor to be characterized. In theory such a systematic design allows extrapolation to unmapped areas. Database includes bathymetry and backscatter data files as well as a habitat typing spreadsheet for all areas classified using a deep-water marine benthic habitat scheme modified after Green et al. (1999).

Purpose:

This data set contains high resolution, multi-beam backscatter and bathymetry data from selected sites in the Gulf of Alaska. The sites were surveyed once between 2001 and 2005. After the data has been analysed and published, the data set will hopefully be made available to the public.

Time period of content:

Time period information:

Range of dates/times:

Beginning date: 2001

Ending date: 2005

Currentness reference:

ground condition

Status:

Progress: Complete

Maintenance and update frequency: Unknown

Spatial domain:

Description of geographic extent:

Gulf of Alaska, Alaska

Bounding coordinates:**West bounding coordinate:** -176.0**East bounding coordinate:** -130**North bounding coordinate:** 62.0**South bounding coordinate:** 48.00000**Keywords:****Theme:****Theme keywords:** multi-beam, backscatter, bathymetry**Theme keyword thesaurus:** None**Place:****Place keywords:** Gulf of Alaska, Alaska**Place keyword thesaurus:** Geographic Names Information System**Place:****Place keywords:** AK**Place keyword thesaurus:** None**Access constraints:** Contact the Point of Contact for data request form.**Use constraints:**

User must read and fully comprehend the metadata prior to use. Data should not be used beyond the limits of the source scale. Acknowledgement of NOAA, as the source from which these data were obtained, in any publications and/or other representations of these data is suggested.

Point of contact:**Contact information:****Contact person primary:****Contact person:** S. Kalei Shotwell**Contact organization:** National Oceanic and Atmospheric Administration (NOAA) Alaska Fisheries Science Center (AFSC) Auke Bay Laboratories (ABL)**Contact address:****Address type:** mailing and physical**Address:**

17109 Point Lena Loop Road

City: Juneau**State or province:** AK**Postal code:** 99801**Country:** USA

Contact voice telephone: 907-789-6000
Contact facsimile telephone: 907-789-6094

Contact electronic mail address: kalei.shotwell@noaa.gov

Contact instructions:

The e-mail address directs you to the person most knowledgeable about this data. If an alternative contact person becomes necessary, use the voice phone number for referral.

Native data set environment:

ASCII files and Microsoft Excel spreadsheet

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Data Quality Information:

Logical consistency report:

None

Completeness report:

None

Lineage:

Process step:

Process description:

No process steps have been described for htis data set.

Process date: Unknown

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Entity and Attribute Information:

Detailed description:

Entity type:

Entity type label: Bathymetry Table

Entity type definition:

None

Entity type definition source:

Database developer

Attribute:**Attribute label:** Latitude**Attribute definition:**

None

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** Longitude**Attribute definition:**

None

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** Depth**Attribute definition:**

None

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Detailed description:**Entity type:****Entity type label:** Backscatter Table**Entity type definition:**

None

Entity type definition source:

Database developer

Attribute:**Attribute label:** Latitude**Attribute definition:**

None

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** Longitude**Attribute definition:**

None

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** Backscatter**Attribute definition:**

None

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Detailed description:**Entity type:****Entity type label:** Habitat Table**Entity type definition:**

None

Entity type definition source:

Database developer

Attribute:**Attribute label:** Area Name**Attribute definition:**

location name of the site mapped

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** Region**Attribute definition:**

general term for location of site

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** Habitat number**Attribute definition:**

number given to each habitat when it was classified

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** Habitat type**Attribute definition:**

short name of the habitat

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

No domain defined.

Attribute:

Attribute label: Habitat code

Attribute definition:

classification code based on Greene et al 1999 scheme

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

No domain defined.

Attribute:

Attribute label: Habitat description

Attribute definition:

short geological description of the habitat type

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

No domain defined.

Attribute:

Attribute label: Merged habitat

Attribute definition:

description of whether this habitat can be merged with another larger habitat

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

No domain defined.

Attribute:

Attribute label: Sampled

Attribute definition:

description of what other types of data are found within that habitat type

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

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Distribution Information:**Distributor:****Contact information:****Contact person primary:**

Contact person: S. Kalei Shotwell

Contact organization: National Oceanic and Atmospheric Administration (NOAA) Alaska Fisheries Science Center (AFSC) Auke Bay Laboratories (ABL)

Contact address:

Address type: mailing and physical

Address:

17109 Point Lena Loop Road

City: Juneau

State or province: AK

Postal code: 99801

Country: USA

Contact voice telephone: 907-789-6000

Contact facsimile telephone: 907-789-6094

Contact electronic mail address: kalei.shotwell@noaa.gov

Contact instructions:

The e-mail address directs you to the person most knowledgeable about this data. If an alternative contact person becomes necessary, use the voice phone number for referral.

Resource description: offline data

Distribution liability:

The user is responsible for the results of any application of this data for other than its intended purpose.

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Metadata Reference Information:

Metadata date: 20080908

Metadata review date: 20100201

Metadata contact:**Contact information:****Contact person primary:**

Contact person: Emily Fergusson

Contact organization: National Oceanic and Atmospheric Administration (NOAA) Alaska Fisheries Science Center (AFSC) Auke Bay Laboratories (ABL)

Contact position: Metadata coordinator

Contact address:

Address type: mailing and physical

Address:

17109 Point Lena Loop Road

City: Juneau

State or province: AK

Postal code: 99801

Country: USA

Contact voice telephone: Use e-mail to contact the metadata coordinator.

Contact facsimile telephone: 907-789-6094

Contact electronic mail address: AFSC.metadata@noaa.gov

Metadata standard name: FGDC Biological Data Profile of the Content Standard for Digital Geospatial Metadata

Metadata standard version: FGDC-STD-001.1-1999

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