

AFSC/ABL: Genetic analysis of juvenile chum salmon from the Chukchi Sea and Bering Strait

Theme keywords: Biota, 002, genetic stock identification

Abstract: The Arctic region has experienced warming in recent years, resulting in decreased summer sea ice cover and increased sea surface temperatures. In 2007, the U.S. BASIS survey extended surface trawling into the Chukchi Sea; juvenile chum salmon were collected at most stations. Genetic methods were applied to identify the origin of the juvenile chum salmon collected in the Chukchi Sea and Bering Strait. Most of the juvenile chum salmon caught in the Bering Strait were from northern Russian populations and the majority collected in the Chukchi Sea were from northwestern Alaska populations.

FGDC, ESRI , and Biological Profile Metadata:

- [Identification Information](#)
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- [Distribution Information](#)
- [Metadata Reference Information](#)

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: Kondzela, Chris, AFSC

Title:

AFSC/ABL: Genetic analysis of juvenile chum salmon from the Chukchi Sea and Bering Strait

Publication date: Unpublished material

Geospatial data presentation form: maps and data

Description:**Abstract:**

The Arctic region has experienced warming in recent years, resulting in decreased summer sea ice cover and increased sea surface temperatures. In 2007, the U.S. BASIS survey extended surface trawling into the Chukchi Sea; juvenile chum salmon were collected at most stations. Genetic methods were applied to identify the origin of the juvenile chum salmon collected in the Chukchi Sea and Bering Strait. Most of the juvenile chum salmon caught in the Bering Strait were from northern Russian populations and the majority collected in the Chukchi Sea were from northwestern Alaska populations.

Purpose:

This data set contains the unpublished SNP and microsatellite data used to identify chum salmon stocks captured in the Chukchi Sea and Bering Strait in 2007.

Time period of content:**Time period information:****Single date/time:**

Calendar date: 2007

Currentness reference:

ground condition

Status:

Progress: In work

Maintenance and update frequency: Unknown

Spatial domain:**Description of geographic extent:**

Alaska, Chukchi Sea, Bering Sea

Bounding coordinates:

West bounding coordinate: -168.5

East bounding coordinate: -166.0

North bounding coordinate: 69.5

South bounding coordinate: 65.5

Keywords:**Theme:**

Theme keywords: Biota, 002

Theme keyword thesaurus: ISO 19115 Topic Categories

Theme:**Theme keywords:** genetic stock identification**Theme keyword thesaurus:** None**Place:****Place keywords:** Alaska, Bering Sea, Chukchi Sea**Place keyword thesaurus:** Geographic Names Information System**Taxonomy:****Keywords/taxon:****Taxonomic keywords:** collection, single species, vertebrates**Taxonomic keyword thesaurus:**None**Taxonomic classification:****Taxon rank name:** Empire**Taxon rank value:** Biovitae**Applicable common names:** Carbon-based lifeforms**Taxonomic classification:****Taxon rank name:** Kingdom**Taxon rank value:** Animalia**Taxonomic classification:****Taxon rank name:** Phylum**Taxon rank value:** Chordata**Taxonomic classification:****Taxon rank name:** Subphylum**Taxon rank value:** Vertebrata**Taxonomic classification:****Taxon rank name:** Superclass**Taxon rank value:** Osteichthyes**Taxonomic classification:****Taxon rank name:** Class**Taxon rank value:** Actinopterygii**Taxonomic classification:****Taxon rank name:** Subclass**Taxon rank value:** Neopterygii

Taxonomic classification:Taxon rank name: [Infraclass](#)Taxon rank value: [Teleostei](#)**Taxonomic classification:**Taxon rank name: [Superorder](#)Taxon rank value: [Protacanthopterygii](#)**Taxonomic classification:**Taxon rank name: [Order](#)Taxon rank value: [Salmoniformes](#)**Taxonomic classification:**Taxon rank name: [Family](#)Taxon rank value: [Salmonidae](#)**Taxonomic classification:**Taxon rank name: [Subfamily](#)Taxon rank value: [Salmoninae](#)**Taxonomic classification:**Taxon rank name: [Genus](#)Taxon rank value: [Oncorhynchus](#)**Taxonomic classification:**Taxon rank name: [Species](#)Taxon rank value: [keta](#)Applicable common names: [chum](#)
[salmon](#)

Access constraints: There are no legal restrictions on access to the data. They reside in public domain and can be freely distributed.

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:** Chris Kondzela**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:** chris.kondzela@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:

Microsoft Excel Spreadsheet

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Data Quality Information:**Logical consistency report:**

No logical consistency test were run.

Completeness report:

None

Lineage:**Process step:****Process description:**

No process steps have been described for this data set

Process date: Unknown

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Distribution Information:

Distributor:

Contact information:

Contact person primary:

Contact person: Chris Kondzela

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

Contact address:

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Address:

17109 Point Lena Loop Road

City: Juneau

State or province: AK

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Contact voice telephone: 907-789-6000

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Contact electronic mail address: chris.kondzela@noaa.gov

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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: 20081208

Metadata review date: 20100122

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

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17109 Point Lena Loop Road

City: Juneau

State or province: AK

Postal code: 99801

Country: USA

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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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