

AFSC/ABL: Genetic stock identification of sockeye salmon captured near Unalaska Island - 1998

Theme keywords: Biota, 002

Abstract: This study is part of the Auke Bay Laboratory's Ocean Carrying Capacity (OCC) which has extensively sampled salmon in the North Pacific since 1996 to obtain information on marine life history and migration patterns. Genetic stock identification techniques (protein electrophoresis) indicated that Bristol Bay stocks of immature sockeye salmon (*Oncorhynchus nerka*) made up the largest percentage in two samples taken near Unalaska Island in 1998. The substantial numbers of immature sockeye salmon captured at Cape Cheerful during May 1998 were unexpected, based on current migration models of western Alaska sockeye salmon. Immature sockeye constituted the largest percentage of our immature salmon catch captured at Cape Prominence during August 1998. This was also unexpected since immature chum salmon (*O. keta*) were the predominant catch during August 1996 and 1997 at the same location. These unexpected events may be due to changes in distribution resulting from the strong El Niño event during 1997-1998.

FGDC, ESRI, and Biological Profile Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [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: Chuck Guthrie, Ed Farley, Noele Weemes, Ellen Martinson, AFSC

Title:

AFSC/ABL: Genetic stock identification of sockeye salmon captured near Unalaska Island - 1998

Publication date: 2000

Geospatial data presentation form: maps and data

Other citation details:

Guthrie, C. M., E. V. Farley, Jr., N. M. L. Weemes, and E. C. Martinson. 2000. Genetic stock identification of sockeye salmon captured in the coastal waters of Unalaska Island during April/May and August 1998. N. Pac. Anadr. Fish Comm. Bull. No. 2: 309-315.

Online linkage: http://www.npafc.org/new/pub_bulletin2.html

Description:

Abstract:

This study is part of the Auke Bay Laboratory's Ocean Carrying Capacity (OCC) which has extensively sampled salmon in the North Pacific since 1996 to obtain information on marine life history and migration patterns. Genetic stock identification techniques (protein electrophoresis) indicated that Bristol Bay stocks of immature sockeye salmon (*Oncorhynchus nerka*) made up the largest percentage in two samples taken near Unalaska Island in 1998. The substantial numbers of immature sockeye salmon captured at Cape Cheerful during May 1998 were unexpected, based on current migration models of western Alaska sockeye salmon. Immature sockeye constituted the largest percentage of our immature salmon catch captured at Cape Prominence during August 1998. This was also unexpected since immature chum salmon (*O. keta*) were the predominant catch during August 1996 and 1997 at the same location. These unexpected events may be due to changes in distribution resulting from the strong El Niño event during 1997-1998.

Purpose:

This study identified the region of origin of immature sockeye salmon captured near Unalaska Island in 1998.

Time period of content:

Time period information:

Range of dates/times:

Beginning date: 199804

Ending date: 199808

Currentness reference:

ground condition

Status:

Progress: Complete

Maintenance and update frequency: None planned

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

Unalaska Island, Alaska

Bounding coordinates:

West bounding coordinate: -166.8333

East bounding coordinate: -166.5833

North bounding coordinate: 54.0333

South bounding coordinate: 53.31667

Keywords:**Theme:**

Theme keywords: Biota, 002

Theme keyword thesaurus: ISO 19115 Topic Categories

Place:

Place keywords: Alaska, Unalaska Island, Cape Cheerful, Cape Prominence

Place keyword thesaurus: Geographic Names Information System

Taxonomy:**Keywords/taxon:**

Taxonomic keywords: collection, multiple 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: nerka
Applicable common names: Sockeye
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: Chuck Guthrie

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: chuck.guthrie@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.

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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: Chuck Guthrie

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

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person becomes necessary, use the voice phone number for referral.

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: 20081201

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

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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