AFSC/ABL: Longline Sablefish Survey

Theme keywords: 002, Biota, Longline, Groundfish, Survey, Hook, Sablefish, Longline, Groundfish, Survey, Hook, Sablefish

Abstract: Since 1978, the U. S. National Marine Fisheries Service (NMFS), Alaska Fisheries Science Center (AFSC) has conducted annual longline surveys with Japan (Japan-U.S. cooperative longline survey, 1978-94) and alone (1987-present, domestic longline survey). The survey has covered the upper continental slope (1978-present) and selected gullies (1987-present) of the Gulf of Alaska and the upper continental slope of the eastern Bering Sea (1982-94, biennially since 1997) and Aleutian Islands region (1980-94, biennially since 1996). A unique aspect of this survey is that the charter vessel retains most of the catch after the scientific data are recorded. The survey is conducted jointly by two components of the AFSC: the Auke Bay Laboratory and the Resource Assessment and Conservation Engineering Division.

FGDC, ESRI, and Biological Profile Metadata:

- Identification Information
- Data Quality Information
- Entity and Attribute 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: Rigby, Phillip, AFSC

        Title:
            AFSC/ABL: Longline Sablefish Survey

        Publication date: Unknown

Geospatial data presentation form: maps or data

Online linkage: http://science.nature.nps.gov/nrdata

Description:
Abstract:
Since 1978, the U. S. National Marine Fisheries Service (NMFS), Alaska Fisheries Science Center (AFSC) has conducted annual longline surveys with Japan (Japan-U.S. cooperative longline survey, 1978-94) and alone (1987-present, domestic longline survey). The survey has covered the upper continental slope (1978-present) and selected gullies (1987-present) of the Gulf of Alaska and the upper continental slope of the eastern Bering Sea (1982-94, biennially since 1997) and Aleutian Islands region (1980-94, biennially since 1996). A unique aspect of this survey is that the charter vessel retains most of the catch after the scientific data are recorded. The survey is conducted jointly by two components of the AFSC: the Auke Bay Laboratory and the Resource Assessment and Conservation Engineering Division.

Purpose:
Measure the relative abundance and size composition of sablefish, shortspine thornyhead, rougheye rockfish, shortraker rockfish and Greenland turbot. Tag sablefish, Greenland turbot and shortspine thornyhead. Measure the age composition of sablefish.

Time period of content:
Time period information:
Range of dates/times:
Beginning date: 1979
Ending date: 2009

Currentness reference:
ground condition

Status:
Progress: In work
Maintenance and update frequency: Annually

Spatial domain:
Description of geographic extent:
Aleutian Islands, Bering Sea, Gulf of Alaska

Bounding coordinates:
West bounding coordinate: -178.962833
East bounding coordinate: -132.838667
North bounding coordinate: 59.765

South bounding coordinate: 51.35

Keywords:
  Theme:
    Theme keywords: 002, Biota
    Theme keyword thesaurus: ISO 19115 Topic Category

  Theme:
    Theme keywords: Longline, Groundfish, Survey, Hook, Sablefish
    Theme keyword thesaurus: None

  Theme:
    Theme keywords: Longline, Groundfish, Survey, Hook, Sablefish
    Theme keyword thesaurus: National Park Service Theme Category Thesaurus

  Place:
    Place keywords: Alaska, Aleutian Islands, Bering Sea, Gulf of Alaska
    Place keyword thesaurus: Geographic Names Information System

  Place:
    Place keywords: Southeast Alaska, AK, GOA
    Place keyword thesaurus: None

  Place:
    Place keywords: Southeast Alaska, AK, GOA
    Place keyword thesaurus: National Park System Unit Name Thesaurus

  Place:
    Place keywords: Southeast Alaska, AK, GOA
    Place keyword thesaurus: National Park System Unit Code Thesaurus

Taxonomy:
  Keywords/taxon:
    Taxonomic keywords: multiple species, vertebrates
    Taxonomic keyword thesaurus: None

  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: Acanthopterygii

                        Taxonomic classification:
                            Taxon rank name: Order
                            Taxon rank value: Scorpaeniformes

                            Taxonomic classification:
                                Taxon rank name: Suborder
                                Taxon rank value: Anoplopomatoidei

                                Taxonomic classification:
                                    Taxon rank name: Family
                                    Taxon rank value: Anoplopomatidae

                                    Taxonomic classification:
                                      Taxon rank name: Genus

Taxon rank value: Anoplopoma

Taxonomic classification:
> **Taxon rank name:** Species
> **Taxon rank value:** Anoplopoma fimbria
> **Applicable common names:** bacalao negro

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 Lunsford
>>> **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.lunsford@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.

Data set credit:

Japan Fisheries Agency; AFSC

Native data set environment:
Microsoft Access database

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Data Quality Information:

Logical consistency report:
All data is QA/QC'd after each field season.

Completeness report:
See introduction for year/location sampling periods.

Lineage:
Process step:
Process description:
Request a copy of the scientific operations plan from distributor for complete process/methodology information

Process date: Unknown

Process contact:
Contact information:
Contact person primary:
Contact person: Chris Lunsford
Contact organization: Auke Bay Laboratory

Contact address:
Address type: mailing and physical
Address:
17109 Point Lena Loop Road
City: Juneau
State or province: AK
Postal code: 99801
Country: USA

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Entity and Attribute Information:

Detailed description:
Entity type:
Entity type label: Catch
Entity type definition:
-no description-
Entity type definition source:
database developer

Attribute:
Attribute label: vessel
Attribute definition:
Vessel Code, Begin with 5 = Japanese, 2 digit codes are USA vessels
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: cruise
Attribute definition:
Cruise #is unique for the vessel and the year
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
    Attribute label: station
    Attribute definition:
        In general same stations are fished every year. NOTE: some stations were dropped or begun since the inception of the survey
    Attribute definition source:
        database developer

    Attribute domain values:
        Unrepresentable domain:
            No domain defined.

Attribute:
    Attribute label: species_code
    Attribute definition:
        RACE species codes
    Attribute definition source:
        database developer

    Attribute domain values:
        Unrepresentable domain:
            No domain defined.

Attribute:
    Attribute label: hachi
    Attribute definition:
        Hachi is a skate of gear (45 hooks), 160 hachi per station
    Attribute definition source:
        database developer

    Attribute domain values:
        Unrepresentable domain:
            No domain defined.

Attribute:
    Attribute label: catch_freq
    Attribute definition:
        # of fish caught per hachi
    Attribute definition source:
        database developer

Attribute domain values:
    Unrepresentable domain:
        No domain defined.

Detailed description:
    Entity type:
        Entity type label: Depth
        Entity type definition:
            -no description-
        Entity type definition source:
            database developer

    Attribute:
        Attribute label: vessel
        Attribute definition:
            Codes that are 2 digit are USA vessels, others are Japanese
        Attribute definition source:
            database developer

        Attribute domain values:
            Unrepresentable domain:
                No domain defined.

    Attribute:
        Attribute label: cruise
        Attribute definition:
            Unique to the vessel and year
        Attribute definition source:
            database developer

        Attribute domain values:
            Unrepresentable domain:
                No domain defined.

    Attribute:
        Attribute label: station
        Attribute definition:
            In general, same stations are done each year. Note: there have been some changes in the stations fished since 1979
        Attribute definition source:

database developer

Attribute domain values:
    Unrepresentable domain:
        No domain defined.

Attribute:
    Attribute label: hachi
    Attribute definition:
        Skate of gear = 45 hooks, 160 hachi per station
    Attribute definition source:
        database developer

    Attribute domain values:
        Unrepresentable domain:
            No domain defined.

Attribute:
    Attribute label: time
    Attribute definition:
        Time hachi was hauled back onboard after gear was set
    Attribute definition source:
        database developer

    Attribute domain values:
        Unrepresentable domain:
            No domain defined.

Attribute:
    Attribute label: depth
    Attribute definition:
        Depth taken every 5 hachis by a Time Depth Recorder (TDR)
    Attribute definition source:
        database developer

    Attribute domain values:
        Unrepresentable domain:
            No domain defined.

Attribute:
    Attribute label: intrpdep

Attribute definition:
Depth is interpolated on hachis where a depth is not available from a TDR
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: stratum
Attribute definition:
Depth stratum, each stratum = 100 meters
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: baited
Attribute definition:
Number of baied hooks on each hachi after gear has been set and hauled
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: ineffective
Attribute definition:
Number of hooks per hachi that were either snarled with pther hooks, straitened from being hung up, or baitless after being set and hauled
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:

No domain defined.

Detailed description:
Entity type:
Entity type label: Haul_position
Entity type definition:
-no description-
Entity type definition source:
database developer

Attribute:
Attribute label: vessel
Attribute definition:
See Depth or Catch
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: cruise
Attribute definition:
See Depth or Catch
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: haul
Attribute definition:
Haul describes each set of gear, there are 2 hauls per station, each haul has 80 skates, the two sets are set end to end from approximately 100-1000 meters
Attribute definition source:
database developer

Attribute domain values:

Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: INPFC_area
Attribute definition:
International North Pacific Fisheries Commission management areas
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: station
Attribute definition:
See Catch or Depth
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: date
Attribute definition:
Date of sampling
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: start_latitude
Attribute definition:
Start of first haul
Attribute definition source:

database developer

Attribute domain values:
    Unrepresentable domain:
      No domain defined.

Attribute:
    Attribute label: start_hemi_ns
    Attribute definition:
      Start of first haul
    Attribute definition source:
      database developer

    Attribute domain values:
      Unrepresentable domain:
        No domain defined.

Attribute:
    Attribute label: start_longitude
    Attribute definition:
      Start of first haul
    Attribute definition source:
      database developer

    Attribute domain values:
      Unrepresentable domain:
        No domain defined.

Attribute:
    Attribute label: start_hemi_ew
    Attribute definition:
      Start of first haul
    Attribute definition source:
      database developer

    Attribute domain values:
      Unrepresentable domain:
        No domain defined.

Attribute:
    Attribute label: end_latitude

Attribute definition:
End of second haul
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: end_hemi_ns
Attribute definition:
End of second haul
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: end_longitude
Attribute definition:
End of second haul
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: end_hemi_ew
Attribute definition:
End of second haul
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
> **Attribute label:** set_start_time
> **Attribute definition:**
>> Time that setting gear began
>
> **Attribute definition source:**
>> database developer
>
> **Attribute domain values:**
>> **Unrepresentable domain:**
>>> No domain defined.

Attribute:
> **Attribute label:** set_end_time
> **Attribute definition:**
>> TIme when gear set was finished
>
> **Attribute definition source:**
>> database developer
>
> **Attribute domain values:**
>> **Unrepresentable domain:**
>>> No domain defined.

Attribute:
> **Attribute label:** haul_start_time
> **Attribute definition:**
>> Time when hauling gear began
>
> **Attribute definition source:**
>> database developer
>
> **Attribute domain values:**
>> **Unrepresentable domain:**
>>> No domain defined.

Attribute:
> **Attribute label:** haul_end_time
> **Attribute definition:**
>> Time when hauling gear was finished
>
> **Attribute definition source:**
>> database developer

Attribute domain values:
 Unrepresentable domain:
  No domain defined.

Attribute:
 Attribute label: soak_time
 Attribute definition:
  Minutes of Soak Time
 Attribute definition source:
  database developer

 Attribute domain values:
  Unrepresentable domain:
   No domain defined.

Attribute:
 Attribute label: distance_fished
 Attribute definition:
  Kilometers of
 Attribute definition source:
  database developer

 Attribute domain values:
  Unrepresentable domain:
   No domain defined.

Attribute:
 Attribute label: starting_depth
 Attribute definition:
  Start depth in meters
 Attribute definition source:
  database developer

 Attribute domain values:
  Unrepresentable domain:
   No domain defined.

Attribute:
 Attribute label: ending_depth
 Attribute definition:
  End depth in meters

Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: surface_temperature
Attribute definition:
Deg C
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: gear_temperature
Attribute definition:
Deg C, taken with a Temperature Depth Recorder (TDR)
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: tdr depth
Attribute definition:
Depth Taken with a TDR
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:

Attribute label: gear_type
Attribute definition:
RACE code
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: bait_type
Attribute definition:
RACE code
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Detailed description:
Entity type:
Entity type label: Length
Entity type definition:
-no description-
Entity type definition source:
database developer

Attribute:
Attribute label: vessel
Attribute definition:
See Catch or Depth
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:

Attribute label: cruise
Attribute definition:
See Catch or Depth
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: station
Attribute definition:
See Catch or Depth
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: species_code
Attribute definition:
Race Code
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: length
Attribute definition:
length in cm
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:

No domain defined.

Attribute:
Attribute label: frequency
Attribute definition:
# of fish caught
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: sex
Attribute definition:
1= male, 2 = female, 3= unknown
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: stratum
Attribute definition:
100 meters per stratum
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Detailed description:
Entity type:
Entity type label: Sppcode Catch
Entity type definition:
-no description-
Entity type definition source:

database developer

Attribute:
Attribute label: Polycorder Number
Attribute definition:
ID
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: Species Code
Attribute definition:
Race Species Code
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: Common Name
Attribute definition:
-no description-
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: Scientific Name
Attribute definition:
-no description-
Attribute definition source:
database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Distribution Information:

Distributor:
Contact information:
Contact person primary:
Contact person: Chris Lunsford
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.lunsford@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.

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

Metadata Reference Information:

Metadata date: 20080908
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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