

AFSC/ABL: Auke Bay Climatology 1959-present

Theme keywords: 004, Climatology, Daily records of air temperature, Precipitation, snowfall, stream temperature, lake temperature, surface salinity, water color, water transparency

Abstract: Data set includes available climatological and related physical environmental records for Auke Bay, Auke Creek and Auke Lake beginning in 1959. Daily high and low air temperatures, precipitation, snow fall, snow on the ground, cloud cover, sea surface temperature, surface salinity, Secchi disc depth and water color are taken at the Auke Bay Laboratory. Daily stream temperatures are taken at the Auke Creek Weir. Three meter depth Auke Lake Temperatures are recorded and the Auke Creek Hatchery in take pipe in the lake.

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: Bruce L. Wing, AFSC

Title:

AFSC/ABL: Auke Bay Climatology 1959-present

Publication date: Unknown

Geospatial data presentation form: access database

Larger work citation:**Citation information:****Originators:** National Weather Service**Title:**

National Weather Service Cooperative Observer Program

Publication date: Unknown**Geospatial data presentation form:** database**Description:****Abstract:**

Data set includes available climatological and related physical environmental records for Auke Bay, Auke Creek and Auke Lake beginning in 1959. Daily high and low air temperatures, precipitation, snow fall, snow on the ground, cloud cover, sea surface temperature, surface salinity, Secchi disc depth and water color are taken at the Auke Bay Laboratory. Daily stream temperatures are taken at the Auke Creek Weir. Three meter depth Auke Lake Temperatures are recorded and the Auke Creek Hatchery intake pipe in the lake.

Purpose:

The physical characteristics of the environment strongly influence the biological productivity of the terrestrial, freshwater and marine ecosystems. The knowledge of the physical characteristics and their variation over time are critical to understanding and prediction of the natural variation in ecosystem productivity. The parameters included in this data set are basic parameters that are easily monitored and have broad application to many research studies.

Time period of content:**Time period information:****Range of dates/times:****Beginning date:** 1959**Ending date:** 2009**Currentness reference:**

observed

Status:**Progress:** In work**Maintenance and update frequency:** Annually**Spatial domain:****Description of geographic extent:**

Auke Bay Laboratory, Auke Creek Weir, and Auke Lake in Juneau, Alaska, USA.

Bounding coordinates:**West bounding coordinate:** -134.646767**East bounding coordinate:** -134.633417**North bounding coordinate:** 58.383417**South bounding coordinate:** 58.38065**Keywords:****Theme:****Theme keywords:** 004, Climatology**Theme keyword thesaurus:** ISO 19115 Topic Categories**Theme:****Theme keywords:** Daily records of air temperature, Precipitation, snowfall, stream temperature, lake temperature, surface salinity, water color, water transparency**Theme keyword thesaurus:** None**Place:****Place keywords:** Juneau, Auke Bay**Place keyword thesaurus:** Geographic Names Information System**Place:****Place keywords:** AK**Place keyword thesaurus:** None**Stratum:****Stratum keywords:** surface**Stratum keyword thesaurus:** None

Access constraints: There are no legal restrictions on access to 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:** Bruce L. Wing**Contact organization:** National Oceanic and Atmospheric Administration (NOAA) Alaska Fisheries Science

Center (AFSC) Auke Bay Laboratories (ABL)/Ted Stevens Marine Research Inst. (TSMRI)

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: bruce.wing@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:

Norman Wilimosky, Ph.D Auke Bay Laboratory

Native data set environment:

Windows Microsoft Excel spreadsheets

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Data Quality Information:

Logical consistency report:

Not applicable

Completeness report:

Users should be aware the subsets in the data base have different time series depending on the interests of the originating investigators. Gaps in the data bases are the result of changing budgets and priorities of the supporting programs. Local microclimatic effects and diel effects may restrict the validity of some parameters for specific studies. Dates when observations began: Sea Surface temperature records began in 1959; Stream temperature in 1962; Routine weather observations in 1963; Cloud cover in 1981; Secchi Disc in 2002; Surface Salinity in 2004 ; Water Color in 2006; Auke Lake

ice out in 1967; Auke Lake freeze up in 1992.

Lineage:

Process step:

Process description:

Does not apply.

Process date: Unknown

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Entity and Attribute Information:

Detailed description:

Entity type:

Entity type label: DailyMeasurments

Entity type definition:

-no description-

Entity type definition source:

Database developer

Attribute:

Attribute label: Date

Attribute definition:

Date of observation

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

No domain defined.

Attribute domain values:

Range domain:

Range domain minimum: 2/1/1963

Range domain maximum: 12/31/2009

Attribute units of measure: Date

Attribute:

Attribute label: Temp(high)
Attribute definition:
high temperature in degrees F
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute domain values:
Range domain:
Range domain minimum: -3
Range domain maximum: 89
Attribute units of measure: degrees F

Attribute:
Attribute label: Temp(low)
Attribute definition:
low temperature in degrees F
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:
Attribute label: Temp(obs)
Attribute definition:
temperature at time of observation in degrees F
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute domain values:
Range domain:
Range domain minimum: -9

Range domain maximum: 84
Attribute units of measure: degrees F

Attribute:

Attribute label: Temp(Mid)

Attribute definition:

mid range temperature in degrees F; this is a calculated field

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

No domain defined.

Attribute domain values:

Range domain:

Range domain minimum: -6

Range domain maximum: 71

Attribute units of measure: degrees F

Attribute:

Attribute label: Precipitation

Attribute definition:

precipitation accumulation in inches

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

No domain defined.

Attribute:

Attribute label: Snow

Attribute definition:

snow accumulation in inches

Attribute definition source:

Database developer

Attribute domain values:

Unrepresentable domain:

No domain defined.

Attribute:**Attribute label:** Snow(Ground)**Attribute definition:**

snow on ground in inches

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** SST**Attribute definition:**

Sea surface temperature in degrees C

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** Secchi**Attribute definition:**

Secchi disc in meters

Attribute definition source:

Database developer

Attribute domain values:**Unrepresentable domain:**

No domain defined.

Attribute:**Attribute label:** Salinity**Attribute definition:**

Salinity of surface water in PSU

Attribute definition source:

Database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:

Attribute label: Color
Attribute definition:
color code for water
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:

Attribute label: Comments
Attribute definition:
-no description-
Attribute definition source:
Database developer

Attribute domain values:
Unrepresentable domain:
No domain defined.

Attribute:

Attribute label: ID
Attribute definition:
Primary key auto number
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: Bruce L. Wing

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

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Country: USA

Contact voice telephone: 907-789-6000

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Contact electronic mail address: bruce.wing@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:

Auke Bay Laboratory denies liability if the data are incorrect, incomplete, or misused.

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Metadata Reference Information:

Metadata date: 20080919

Metadata review date: 20100108

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:** not available**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[Back to Top](#)