# Intertidal Mussel (Mytilus) Data from Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park

Metadata also available as - [[Questions & Answers](file:///C:\Users\lmcduffie\Documents\USGS\Data_Release\Author\15a-GulfWatch_Mytilus\GulfWatch_mytilus_v3.0\4-released\phpIap397.faq.html)] - [[Parseable text](file:///C:\Users\lmcduffie\Documents\USGS\Data_Release\Author\15a-GulfWatch_Mytilus\GulfWatch_mytilus_v3.0\4-released\phpIap397-new.txt)] - [[XML](file:///C:\Users\lmcduffie\Documents\USGS\Data_Release\Author\15a-GulfWatch_Mytilus\GulfWatch_mytilus_v3.0\4-released\phpIap397-new.xml)]

### Metadata:

* [Identification\_Information](#1)
* [Data\_Quality\_Information](#2)
* [Spatial\_Data\_Organization\_Information](#3)
* [Entity\_and\_Attribute\_Information](#4)
* [Distribution\_Information](#5)
* [Metadata\_Reference\_Information](#6)

Identification\_Information:

Citation:

Citation\_Information:

Originator: U.S. Geological Survey - Alaska Science Center  
Originator:

National Park Service - Southwest Alaska Inventory and Monitoring Network

Publication\_Date: 20160824  
Title:

Intertidal Mussel (Mytilus) Data from Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park

Geospatial\_Data\_Presentation\_Form: tabular digital data  
Series\_Information:

Series\_Name:

Intertidal Mussel (Mytilus) Data from Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park

Issue\_Identification: ver 3.0, September 2022

Publication\_Information:

Publication\_Place: Anchorage, Alaska  
Publisher: U.S. Geological Survey, Alaska Science Center

Other\_Citation\_Details:

Suggested Citation: U.S. Geological Survey - Alaska Science Center, National Park Service - Southwest Alaska Inventory and Monitoring Network, 2016. Intertidal mussel (Mytilus) data from Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park (ver 3.0, September 2022): U.S. Geological Survey data release, <https://doi.org/10.5066/F7FN1498>

Online\_Linkage: <https://doi.org/10.5066/F7FN1498>  
Larger\_Work\_Citation:

Citation\_Information:

Originator: U.S. Geological Survey, Alaska Science Center  
Publication\_Date: 2005  
Title: Nearshore Marine Ecosystem Research Program  
Geospatial\_Data\_Presentation\_Form: website  
Series\_Information:

Series\_Name: Alaska Science Portal  
Issue\_Identification: 99

Publication\_Information:

Publication\_Place: Anchorage, Alaska  
Publisher: U.S. Geological Survey, Alaska Science Center

Other\_Citation\_Details:

This is a link to the broader USGS Alaska Science Center research project supported by these data. Users will find a description of the research project and links to associated reports, publications, and data products.

Online\_Linkage: <https://alaska.usgs.gov/portal/project.php?project_id=99>

Description:

Abstract:

These data are part of the Gulf Watch Alaska (GWA) long-term monitoring program and describe mussel sampling and observations conducted in the northern Gulf of Alaska. This dataset consists of six comma separated files (.csv): 1) mussel sampling site layout information, 2) mussel counts for mussels greater than 20 millimeters in a quadrat, 3) mussel size measurements for mussels greater than 20 millimeters in a quadrat, 4) mussel counts for all mussels collected from core samples, 5) mussel size frequencies for all mussels collected from core samples, and 6) list of Gulf Watch Alaska principal investigators and collaborators.

Purpose:

The purpose of this long-term project is to assess change in the density and size distribution of mussels (Mytilus trossulus) in mussel beds. These data also are used as an indicator of mussel prey availability for various predators, including Sea Otters, Black Oystercatchers, sea ducks and sea stars.

Sampling was conducted within regions of Alaska including: Kenai Peninsula (KEP; Kenai Fjords National Park), Alaska Peninsula (AKP; Katmai National Park and Preserve), and Prince William Sound (PWS; northern, western, and eastern Prince William Sound). Study site locations are described in the "Monitoring Site Locations" data release: <https://doi.org/10.5066/F78S4N3R> (Coletti et al. 2017).

Supplemental\_Information:

This versioned data release supersedes two previous nearshore Mytilus USGS data releases (<https://doi.org/10.5066/F7FN1498> and <https://doi.org/10.5066/F7WS8RD4)>. The data provided in this release includes all data from past releases as well as new data collected after 2016. This data release will continue to be updated as new data are collected each sampling year.

Time\_Period\_of\_Content:

Time\_Period\_Information:

Range\_of\_Dates/Times:

Beginning\_Date: 2008  
Ending\_Date: 2022

Currentness\_Reference: observed

Status:

Progress: In work  
Maintenance\_and\_Update\_Frequency: Annually

Spatial\_Domain:

Description\_of\_Geographic\_Extent:

Prince William Sound (east, north, and west), Kenai Fjords National Park, and Katmai National Park and Preserve.

Bounding\_Coordinates:

West\_Bounding\_Coordinate: -156.64  
East\_Bounding\_Coordinate: -145.41  
North\_Bounding\_Coordinate: 61.12  
South\_Bounding\_Coordinate: 57.93

Keywords:

Theme:

Theme\_Keyword\_Thesaurus: USGS Metadata Identifier  
Theme\_Keyword: USGS:ASC462

Theme:

Theme\_Keyword\_Thesaurus: ISO 19115 Topic Category  
Theme\_Keyword: Biota  
Theme\_Keyword: Environment

Theme:

Theme\_Keyword\_Thesaurus: NASA GCMD Earth Science Keyword Thesaurus  
Theme\_Keyword: Animals/Invertebrates  
Theme\_Keyword: Mollusks  
Theme\_Keyword: Aquatic ecosystems  
Theme\_Keyword: Benthic habitat  
Theme\_Keyword: Coastal habitat  
Theme\_Keyword: Biospheric indicators  
Theme\_Keyword: Marine environment monitoring  
Theme\_Keyword: Coastal processes

Theme:

Theme\_Keyword\_Thesaurus: USGS CSA Biocomplexity Thesaurus  
Theme\_Keyword: Spatial distribution  
Theme\_Keyword: Size distribution  
Theme\_Keyword: Aquatic ecosystems  
Theme\_Keyword: Marine environments  
Theme\_Keyword: Bioindicator  
Theme\_Keyword: Ecology

Theme:

Theme\_Keyword\_Thesaurus: USGS Thesaurus  
Theme\_Keyword: Wildlife  
Theme\_Keyword: Macroinvertebrates  
Theme\_Keyword: Benthic ecosystems  
Theme\_Keyword: Coastal ecosystems  
Theme\_Keyword: Marine ecosystems  
Theme\_Keyword: Field inventory and monitoring  
Theme\_Keyword: Field sampling  
Theme\_Keyword: Aquatic biology

Theme:

Theme\_Keyword\_Thesaurus: None  
Theme\_Keyword: Pacific Blue Mussel  
Theme\_Keyword: Mussels  
Theme\_Keyword: Mollusks

Place:

Place\_Keyword\_Thesaurus: USGS Geographic Names Information System (GNIS)  
Place\_Keyword: Alaska  
Place\_Keyword: Gulf of Alaska  
Place\_Keyword: Prince William Sound

Place:

Place\_Keyword\_Thesaurus: None  
Place\_Keyword: Katmai National Park and Preserve  
Place\_Keyword: Kenai Fjords National Park

Taxonomy:

Keywords/Taxon:

Taxonomic\_Keyword\_Thesaurus: None  
Taxonomic\_Keywords: Pacific Blue Mussel

Taxonomic\_System:

Classification\_System/Authority:

Classification\_System\_Citation:

Citation\_Information:

Originator: ITIS Integrated Taxonomic Information System  
Publication\_Date: Unknown  
Title: ITIS Integrated Taxonomic Information System  
Geospatial\_Data\_Presentation\_Form: online database  
Publication\_Information:

Publication\_Place: online  
Publisher: ITIS-North America

Other\_Citation\_Details:

Taxonomic details retrieved September 14, 2022, from the Integrated Taxonomic Information System online database <https://www.itis.gov>

Online\_Linkage: <https://doi.org/10.5066/F7KH0KBK>

Taxonomic\_Procedures:

Animal genera and/or species are identified by trained observers in the field using physical characteristics.

Taxonomic\_Completeness:

Taxonomy is complete for all samples. No vouchers were collected.

Taxonomic\_Classification:

Taxon\_Rank\_Name: Kingdom  
Taxon\_Rank\_Value: Animalia  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Subkingdom  
Taxon\_Rank\_Value: Bilateria  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Infrakingdom  
Taxon\_Rank\_Value: Protostomia  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Superphylum  
Taxon\_Rank\_Value: Lophozoa  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Phylum  
Taxon\_Rank\_Value: Mollusca  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Class  
Taxon\_Rank\_Value: Bivalvia  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Subclass  
Taxon\_Rank\_Value: Pteriomorphia  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Order  
Taxon\_Rank\_Value: Mytiloida  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Family  
Taxon\_Rank\_Value: Mytilidae  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Genus  
Taxon\_Rank\_Value: Mytilus  
Taxonomic\_Classification:

Taxon\_Rank\_Name: Species  
Taxon\_Rank\_Value: Mytilus trossulus  
Applicable\_Common\_Name: Pacific blue mussel  
Applicable\_Common\_Name: TSN: 567928

Access\_Constraints: None  
Use\_Constraints:

It is requested that the authors be cited for any subsequent publications that reference this dataset. This material is based upon work funded by the Exxon Valdez Oil Spill Trustee Council. Any opinions, findings, conclusions, or recommendations expressed herein are those of the author(s) and do not necessarily reflect the views or positions of the Trustee Council.

Point\_of\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: U.S. Geological Survey, Alaska Science Center

Contact\_Address:

Address\_Type: Mailing and Physical  
Address: 4210 University Drive  
City: Anchorage  
State\_or\_Province: Alaska  
Postal\_Code: 99508  
Country: USA

Contact\_Voice\_Telephone: 907-786-7000  
Contact\_Electronic\_Mail\_Address: ascweb@usgs.gov

Data\_Set\_Credit:

This sampling component of the nearshore monitoring project is supported by the National Park Service - Southwest Alaska Inventory and Monitoring Network (<https://www.nps.gov/im/swan/nearshore.htm>) and Gulf Watch Alaska (<https://gulfwatchalaska.org/)>. Many people (USGS staff, contractors, and volunteers, NPS staff and volunteers, and NOAA staff) contributed to collection of the mussel and mussel site observations contained in this data set. The Nearshore Component Principal Investigators involved in this effort include: Brenda Ballachey, James Bodkin, Heather Coletti, Tom Dean, Dan Esler, George Esslinger, Dominic Hondolero, Kim Kloecker, Mandy Lindeberg, Dan Monson, Brian Robinson, and Ben Weitzman.

Native\_Data\_Set\_Environment:

The original data are stored as a Microsoft Access database in a Windows operating environment, but have been exported as comma separated text files (.csv) for dissemination.

Cross\_Reference:

Citation\_Information:

Originator: Bodkin, J.L.  
Originator: Coletti, H.A.  
Originator: Ballachey, B.E.  
Originator: Monson, D.H.  
Originator: Esler, D.  
Originator: Dean, T.A.  
Publication\_Date: 2018  
Title:

Variation in abundance of Pacific Blue Mussel (Mytilus trossulus) in the Northern Gulf of Alaska, 2006–2015

Geospatial\_Data\_Presentation\_Form: journal article  
Series\_Information:

Series\_Name: Deep Sea Research Part II: Topical Studies in Oceanography  
Issue\_Identification: 147:87-97

Publication\_Information:

Publication\_Place: online  
Publisher: Elsevier

Other\_Citation\_Details:

Bodkin, J.L., Coletti, H.A., Ballachey, B.E., Monson, D.H., Esler, D., Dean, T.A. 2018. Variation in abundance of Pacific Blue Mussel (Mytilus trossulus) in the Northern Gulf of Alaska, 2006–2015. Deep Sea Research Part II: Topical Studies in Oceanography 147:87-97. doi:10.1016/j.dsr2.2017.04.008

Online\_Linkage: <https://doi.org/10.1016/j.dsr2.2017.04.008>

Cross\_Reference:

Citation\_Information:

Originator: Traiger, S.B.  
Originator: Bodkin, J.L.  
Originator: Coletti, H.A.  
Originator: Ballachey, B.  
Originator: Dean, T.  
Originator: Esler, D.  
Originator: Iken, K.  
Originator: Konar, B.  
Originator: Lindeberg, M.R.  
Originator: Monson, D.  
Originator: Robinson, B.  
Originator: Suryan, R.M.  
Originator: Weitzman, B.P.  
Publication\_Date: 2022  
Title:

Evidence of Increased Mussel Abundance Related to the Pacific Marine Heatwave and Sea Star Wasting

Geospatial\_Data\_Presentation\_Form: journal article  
Series\_Information:

Series\_Name: Marine Ecology  
Issue\_Identification: 43(4):e12715

Publication\_Information:

Publication\_Place: online  
Publisher: Wiley

Other\_Citation\_Details:

Traiger, S.B, Bodkin, J.L., Coletti, H.A., Ballachey, B., Dean, T., Esler, D., Iken, K., Konar, B., Lindeberg, M.R., Monson, D., Robinson, B., Suryan, R.M., Weitzman, B.P., 2022. Evidence of increased mussel abundance related to the Pacific marine heatwave and sea star wasting. Marine Ecology 43(4):e12715. doi:10.1111/maec.12715

Online\_Linkage: <https://doi.org/10.1111/maec.12715>

Data\_Quality\_Information:

Attribute\_Accuracy:

Attribute\_Accuracy\_Report:

Each year of data collection, scientists complete a standard quality assurance and quality control (QAQC) procedure for this dataset. Entries are checked against field data sheets and data standards for accuracy, missing values, outliers, and inconsistencies. When applicable, data are checked against validated ranges. Mussel data are entered electronically in the field and mussels are held until verification that the data have been saved.

Logical\_Consistency\_Report:

All attribute values fall within expected ranges. Often, mussels are damaged during collection and cannot be properly measured. In the size data tables, damaged mussel sizes are entered as a null value ".", and not a zero, to ensure correct counts.

Completeness\_Report: The dataset is complete, no data were omitted.  
Positional\_Accuracy:

Horizontal\_Positional\_Accuracy:

Horizontal\_Positional\_Accuracy\_Report:

Transects for intertidal mussel sampling are marked with stainless steel eye-bolts and a site ID marker plate to ensure consistency in sampling location. Additionally, several eye-bolts are placed along the transects' horizontal length to ensure similar placement of the line. Coordinates are not recorded for each eye-bolt.

Lineage:

Methodology:

Methodology\_Type: Field  
Methodology\_Description:

Sampling was conducted in sheltered rocky habitats within regions of Alaska including: Kenai Peninsula (KEP; Kenai Fjords National Park), Alaska Peninsula (AKP; Katmai National Park and Preserve), and Prince William Sound (PWS; northern, western, and eastern Prince William Sound). Study site locations are described in the "Monitoring Site Locations" data release: <https://doi.org/10.5066/F78S4N3R> (Coletti et al. 2017).

Field measurements of transect lengths were conducted with 50-meter fiberglass measuring tapes demarked in meters/centimeters/millimeters. The tape was stretched along the shoreline parallel to the water's edge from the left edge marker at the mussel bed's boundary to the right edge marker. The sampling team then calculated the position of placement for 10 vertical transects using a prepared spreadsheet. The initial vertical transect was based on a random number between 0.00 and 4.75. Nine subsequent vertical transects were established at 5-meter intervals from the initial random location. For the vertical transects, a surveyor's tape was placed perpendicular to the baseline transect. The length of the vertical transects varied with the size and shape of the bed. The length of each vertical transect from the upper end where it crosses the baseline (referred to as zero) to the lower end of the mussel bed (or zero tidal elevation if bed continues below MLLW) were recorded on a data sheet. When the distance above or below the horizontal transect to the first mussel beneath the tape was greater than 1.0 meter, the length for the vertical transect was set at zero. The vertical transect measurements are used to estimate the size, or area of the mussel bed. The upper and lower limits of the mussel bed are defined by the presence of mussels immediately beneath each of the vertical transect tapes. To determine placement of the quadrat, each of the vertical transect lengths were then multiplied by an independent random number between 0.00 and 1.00. The resulting number identified the location along the vertical transect where the quadrat was placed, and the core sampled for mussel density and size.

Sampling included core samples to estimate the density of all mussels and quadrat samples of variable size, to estimate the density and size distribution of mussels greater than or equal to 20 millimeter in length. The cores consist of a 120-millimeter length of 48 millimeter inside diameter ABS or similar pipe. Within this core all mussels are removed. Each mussel is then counted, and density calculated by dividing by the area of the core.

Next, if mussels are relatively abundant near a core sample, a small quadrat can be selected, as small as 6.25-centimeter x 6.25 centimeter. If approximately 20 mussels greater than or equal to 20 millimeters are present, then all mussels greater than or equal to 20 millimeters within the 6.25-centimeter quadrat were collected. If this smallest quadrat provides fewer than 10-15 large mussels than this quadrat size was doubled by flipping the quadrat once to the right. This process is repeated with a 25 x 25-centimeter quadrat, following the same procedures up to a 1-meter x 1 meter quadrat. At this point all mussels greater than 20 millimeters within the defined quadrat are collected.

Mussel sizes are measured at the longest point of the shell. Dial calipers are read to the nearest tenth of a millimeter and rounded to the appropriate millimeter. Calipers are checked and zeroed prior to measuring. Counts of mussels from cores are calculated by summing the number of mussels in each size bin (i.e., less than 20mm or greater than 20 mm) for 2014 and onwards, or by hand counting.

Source\_Information:

Source\_Citation:

Citation\_Information:

Originator: Bodkin, J.L.  
Originator: Dean, T.A.  
Originator: Coletti, H.A.  
Originator: Ballachey, B.E.  
Publication\_Date: 2016  
Title:

Mussel Bed Sampling: Standard Operating Procedure, v. 1.2, Southwest Alaska Inventory and Monitoring Network

Geospatial\_Data\_Presentation\_Form: tabular digital data  
Series\_Information:

Series\_Name: National Resource Report Series  
Issue\_Identification: 2016/1175

Publication\_Information:

Publication\_Place: Fort Collins, Colorado  
Publisher: National Park Service, Natural Resource Stewardship and Science

Other\_Citation\_Details:

Bodkin, J.L., Dean, T.A., Coletti, H.A., Ballachey, B.E., 2016. Mussel bed sampling: standard operating procedure, v. 1.2, Southwest Alaska Network. Natural Resource Report NPS/SWAN/NRR—2016/1175. National Park Service, Fort Collins, Colorado.

Published report archived by U.S. National Park Service Catalog (IRMA Data Store) <https://irma.nps.gov/DataStore> [reference code: 2228023]

Online\_Linkage: <https://irma.nps.gov/DataStore/Reference/Profile/2228023>

Type\_of\_Source\_Media: Digital Report  
Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Calendar\_Date: 2016

Source\_Currentness\_Reference: publication date

Source\_Citation\_Abbreviation: Bodkin et al. 2016  
Source\_Contribution:

Referred to sampling methods for estimating: 1) size of the mussel bed, 2) density of mussels larger than 20mm, and 3) density of all mussels within the mussel bed. Sample design provides for the statistical expansion of mussel estimates across each region.

Source\_Information:

Source\_Citation:

Citation\_Information:

Originator: Coletti, H.A.  
Originator: Kloecker, K.A.  
Originator: Bodkin, J.L.  
Originator: Dean, T.A.  
Publication\_Date: 2017  
Title:

Gulf Watch Alaska Nearshore Component: Monitoring Site Locations from Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park

Geospatial\_Data\_Presentation\_Form: tabular digital data  
Series\_Information:

Series\_Name: U.S. Geological Survey Data Release  
Issue\_Identification: 10.5066/F78S4N3R

Publication\_Information:

Publication\_Place: Anchorage, Alaska  
Publisher: U.S. Geological Survey, Alaska Science Center

Other\_Citation\_Details:

Coletti, H.A., Kloecker, K.A., Bodkin, J.L., Dean, T.A., 2017. Gulf Watch Alaska Nearshore Component: Monitoring Site Locations from Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park: U.S. Geological Survey data release. doi:10.5066/F78S4N3R

Online\_Linkage: <https://doi.org/10.5066/F78S4N3R>

Type\_of\_Source\_Media: document  
Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Calendar\_Date: 2017

Source\_Currentness\_Reference: publication date

Source\_Citation\_Abbreviation: Coletti et al. 2017  
Source\_Contribution: Geographic coordinates of sampling sites

Process\_Step:

Process\_Description:

Field data recorded on paper field data sheets and then entered into a Microsoft Access database. This was usually completed while still in the field or back at the support vessel, but not actually on the mussel sampling site. Data are .csv outputs from the database.

Process\_Date: Unknown

Process\_Step:

Process\_Description:

Mussels larger than 20 millimeters collected for size frequency and density calculations are measured and the data entered directly into a Microsoft Access database. The null "." is entered for the measurement of mussels that have been crushed in the collection process and are deemed un-measureable.

Process\_Date: Unknown

Process\_Step:

Process\_Description:

Field data sheet QAQC: the field crew and then a field data manager review the data sheets for missing, illegible, or confusing entries and correct any issues.

Process\_Date: Unknown

Process\_Step:

Process\_Description:

Spreadsheet QAQC: overall site level data, substrate data, 20mm count data and primary core count data are checked against the field data sheets and also checked row by row and cell by cell for accuracy and completeness. Basic descriptive statistics were run on the data in the 20 mm size data and core size frequency data sets to look for outliers or values inconsistent with the protocol (for example only mussels greater than or equal to 20 millimeters should be in the 20 mm size data set). Additional details are provided in the entity and attribute section.

Process\_Date: Unknown

Process\_Step:

Process\_Description:

Lab data sheet QAQC: the lab crew and then a data manager review the data sheets for missing, illegible, or confusing entries and correct any issues.

Process\_Date: Unknown

Process\_Step:

Process\_Description:

Spreadsheet QAQC: count and measurement datasets are checked against the field data sheets and lab data sheets for completeness and logical consistency, data is checked for outliers.

Process\_Date: Unknown

Spatial\_Data\_Organization\_Information:

Indirect\_Spatial\_Reference:

The only spatial information in this dataset are the named locations for the sampling sites. Sites are documented with start and end coordinates and are also referred to by name (e.g., Herring Bay rocky sampling site). Please refer to Coletti et al. 2017, a USGS data release which provides for geographic coordinates of all sites: <https://doi.org/10.5066/F78S4N3R>

Direct\_Spatial\_Reference\_Method: Point

Entity\_and\_Attribute\_Information:

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: KATMKEFJWPWS\_2008-2022\_Mytilus\_Site\_Info.csv  
Entity\_Type\_Definition:

Table with site information at mussel sampling locations in Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park. Presented in a Comma Separated Value (CSV) formatted table.

Entity\_Type\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: Region  
Attribute\_Definition:

Largest spatial unit of the Gulf Watch Alaska Nearshore Monitoring component, as defined in Coletti et al 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: AKP  
Enumerated\_Domain\_Value\_Definition: Alaska Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEP  
Enumerated\_Domain\_Value\_Definition: Kenai Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: PWS  
Enumerated\_Domain\_Value\_Definition: Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockNumber  
Attribute\_Definition:

Two-digit unit number for each block within each sampling region, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 05  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 07  
Enumerated\_Domain\_Value\_Definition: Northern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 08  
Enumerated\_Domain\_Value\_Definition: Western Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 09  
Enumerated\_Domain\_Value\_Definition: Eastern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 10  
Enumerated\_Domain\_Value\_Definition: Katmai National Park and Preserve  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockName  
Attribute\_Definition:

Name of sampling block within each sampling region, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KATM  
Enumerated\_Domain\_Value\_Definition:

Katmai National Park and Preserve (Block 10, Region = Alaska Peninsula)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEFJ  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park (Block 05, Region = Kenai Peninsula)  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: NPWS  
Enumerated\_Domain\_Value\_Definition:

Northern Prince William Sound (Block 07, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: WPWS  
Enumerated\_Domain\_Value\_Definition:

Western Prince William Sound (Block 08, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: EPWS  
Enumerated\_Domain\_Value\_Definition:

Eastern Prince William Sound (Block 09, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteID  
Attribute\_Definition:

Identification code of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: MI  
Enumerated\_Domain\_Value\_Definition: Sampling type = Mussel Bed Intensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: ME  
Enumerated\_Domain\_Value\_Definition: Sampling Type = Mussel Bed Extensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteName  
Attribute\_Definition:

Name of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Name of sampling sites within each sampling block.

Attribute:

Attribute\_Label: SampleDate  
Attribute\_Definition: Date the mussel site was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Date the mussel site was sampled (YYYY-MM-DD).

Attribute:

Attribute\_Label: YearSample  
Attribute\_Definition: Year the mussel site was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Year the mussel site was sampled (YYYY).

Attribute:

Attribute\_Label: SiteSurveyed  
Attribute\_Definition: Whether or not the site was surveyed in a given year.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: Yes  
Enumerated\_Domain\_Value\_Definition:

Yes, the site was surveyed for the year listed in attribute 'YearSample'.

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: No  
Enumerated\_Domain\_Value\_Definition:

No, the site was not surveyed for the year listed in attribute 'YearSample' due to inclement weather.

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: TransectNumber  
Attribute\_Definition:

Sequential number from 1 to 10, with 1 being the vertical transect nearest to the beginning of the horizontal mussel site transect and 10 being closest to the end of the mussel site transect. A null value "." indicates that a transect number was not recorded or a transect was not surveyed due to inclement weather.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 1  
Range\_Domain\_Maximum: 10  
Attribute\_Units\_of\_Measure: Number

Attribute:

Attribute\_Label: TransectSampled  
Attribute\_Definition:

Whether or not a transect within a site was surveyed in a given year.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: Yes  
Enumerated\_Domain\_Value\_Definition: Yes, the transect within the site was sampled in a given year.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: No  
Enumerated\_Domain\_Value\_Definition:

No, the transect within the site was not sampled in a given year.

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: TransectPosition  
Attribute\_Definition:

The position along the horizontal transects where the vertical transects fall. These numbers are randomly generated every sampling season and are consistent across a sampling season. A null value "." indicates that according to field data sheets a transect position was not recorded or a transect was not surveyed due to inclement weather (i.e., no data collected).

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 49.40  
Attribute\_Units\_of\_Measure: Meters

Attribute:

Attribute\_Label: VerticalLength  
Attribute\_Definition:

The vertical length of each continuous mussel bed. A null value "." indicates that according to field data sheets the transect vertical length was not recorded or a transect was not surveyed due to inclement weather (i.e., no data collected).

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 93.0  
Attribute\_Units\_of\_Measure: Meters

Attribute:

Attribute\_Label: DistanceCross  
Attribute\_Definition:

Distance (on the vertical meter tape) where the vertical tape crosses the horizontal tape. Positive values indicate that the continuous bed also includes mussels above the horizontal line (towards the supra-tidal) while a negative value indicates the continues bed starts below (towards the water line) the horizontal transect. A null value "." indicates that according to field data sheets the distance cross was not recorded or a transect was not surveyed due to inclement weather (i.e., no data collected).

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: -3.40  
Range\_Domain\_Maximum: 88.40  
Attribute\_Units\_of\_Measure: Meters

Attribute:

Attribute\_Label: QuadratMultiplier  
Attribute\_Definition:

A random number used to multiply by the length of the vertical transect to determine the sampling quadrat location. A null value "." indicates that according to field data sheets the a quadrat multiplier was not used or a transect was not surveyed due to inclement weather (i.e., no data collected).

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0.01  
Range\_Domain\_Maximum: 0.98  
Attribute\_Units\_of\_Measure: Integer

Attribute:

Attribute\_Label: QuadratPosition  
Attribute\_Definition:

The position the sampling quadrat is placed on the vertical transect once the vertical length and quadrat multiplier are multiplied together. A null value "." indicates that according to field data sheets the quadrat position was not recorded or a transect was not surveyed due to inclement weather (i.e., no data collected).

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 74.30  
Attribute\_Units\_of\_Measure: Meters

Attribute:

Attribute\_Label: QuadratPosition\_Overridden  
Attribute\_Definition:

Whether or not the quadrat position is overridden due to some inability to sample that given quadrat.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: No  
Enumerated\_Domain\_Value\_Definition: No, the quadrat position was not overridden.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: Yes  
Enumerated\_Domain\_Value\_Definition: Yes, the quadrat position was overridden.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: UNK  
Enumerated\_Domain\_Value\_Definition: The status of the quadrat position override is unknown.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: QuadratLength  
Attribute\_Definition:

The length of the sampling quadrat. Blank cells indicate that quadrat length was not recorded. A null value "." indicates that according to field data sheets the quadrat length was not recorded or a transect was not surveyed due to inclement weather (i.e., no data collected).

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 5  
Range\_Domain\_Maximum: 100  
Attribute\_Units\_of\_Measure: Centimeters

Attribute:

Attribute\_Label: QuadratHeight  
Attribute\_Definition:

The height of the sampling quadrat. A null value "." indicates that according to field data sheets the quadrat height was not recorded or a transect was not surveyed due to inclement weather (i.e., no data collected).

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 5  
Range\_Domain\_Maximum: 150  
Attribute\_Units\_of\_Measure: Centimeters

Attribute:

Attribute\_Label: Area  
Attribute\_Definition:

The area of the quadrat sampled (height x length). A null value "." indicates that according to field data sheets the quadrat area was not recorded or a transect was not surveyed due to inclement weather (i.e., no data collected).

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0.0025  
Range\_Domain\_Maximum: 1.5  
Attribute\_Units\_of\_Measure: Square Meters

Attribute:

Attribute\_Label: CoreQualifier  
Attribute\_Definition:

The presence or absence of mussels when a core sample was taken.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: No Mussels  
Enumerated\_Domain\_Value\_Definition: Mussels were absent from the core sample.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: Mussels Present  
Enumerated\_Domain\_Value\_Definition: Mussels were present in the core sample.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: Not Sampled  
Enumerated\_Domain\_Value\_Definition: The core was not sampled or a core was not collected.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: QuadQualifier  
Attribute\_Definition: The presence or absence of mussels when a quadrat was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: No Mussels  
Enumerated\_Domain\_Value\_Definition: Mussels were absent from the quadrat sampled.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: Mussels Present  
Enumerated\_Domain\_Value\_Definition: Mussels were present in the quadrat sampled.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: Not Sampled  
Enumerated\_Domain\_Value\_Definition: The quadrat was not sampled.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: Primary  
Attribute\_Definition:

Whether or not a primary core was collected. A null value "." indicates that according to field data sheets the collection of a core sample, or lack there of, was not recorded.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: Yes  
Enumerated\_Domain\_Value\_Definition: Yes, a primary core was collected.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: No  
Enumerated\_Domain\_Value\_Definition: No, a primary core was not collected.  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: Numadd  
Attribute\_Definition:

The number of additional cores (up to 8) collected at a quadrat.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 8  
Attribute\_Units\_of\_Measure: Count

Attribute:

Attribute\_Label: CoreCount  
Attribute\_Definition:

The total number of cores (primary plus any additional cores) at a given quadrat. A null value "." indicates that according to field data sheets the number of primary and additional core samples collected was not recorded.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 9  
Attribute\_Units\_of\_Measure: Count

Attribute:

Attribute\_Label: Notes  
Attribute\_Definition:

A place to provide additional information on mussel sampling sites. A blank cell indicates that no comments were included with the record.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain:

A place to provide additional information on mussel sampling sites.

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: KATMKEFJWPWS\_2008-2022\_Mytilus\_20mm\_Count.csv  
Entity\_Type\_Definition:

Table with counts of 20 mm or larger mussels in each quadrat sampled in Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park. Each record (row) represents one mussel sample. There are 10 transects per mussel site per visit each with one primary core and up to twelve additional cores. Presented in a Comma Separated Value (CSV) formatted table.

Entity\_Type\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: Region  
Attribute\_Definition:

Largest spatial unit of the Gulf Watch Alaska Nearshore Monitoring component, as defined in Coletti et al 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: AKP  
Enumerated\_Domain\_Value\_Definition: Alaska Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEP  
Enumerated\_Domain\_Value\_Definition: Kenai Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: PWS  
Enumerated\_Domain\_Value\_Definition: Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockNumber  
Attribute\_Definition:

Two-digit unit number for each block within each sampling region, as defined in Coletti et al 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 05  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 07  
Enumerated\_Domain\_Value\_Definition: Northern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 08  
Enumerated\_Domain\_Value\_Definition: Western Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 09  
Enumerated\_Domain\_Value\_Definition: Eastern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 10  
Enumerated\_Domain\_Value\_Definition: Katmai National Park and Preserve  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockName  
Attribute\_Definition:

Name of sampling block within each sampling region, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KATM  
Enumerated\_Domain\_Value\_Definition:

Katmai National Park and Preserve (Block 10, Region = Alaska Peninsula)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEFJ  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park (Block 05, Region = Kenai Peninsula)  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: NPWS  
Enumerated\_Domain\_Value\_Definition:

Northern Prince William Sound (Block 07, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: WPWS  
Enumerated\_Domain\_Value\_Definition:

Western Prince William Sound (Block 08, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: EPWS  
Enumerated\_Domain\_Value\_Definition:

Eastern Prince William Sound (Block 09, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteID  
Attribute\_Definition:

Identification code of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: MI  
Enumerated\_Domain\_Value\_Definition: Sampling type = Mussel Bed Intensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: ME  
Enumerated\_Domain\_Value\_Definition: Sampling Type = Mussel Bed Extensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteName  
Attribute\_Definition:

Name of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Name of sampling sites within each sampling block.

Attribute:

Attribute\_Label: SampleDate  
Attribute\_Definition: Date the mussel quadrat was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Date the mussel quadrat was sampled (YYYY-MM-DD)

Attribute:

Attribute\_Label: YearSample  
Attribute\_Definition: Year the mussel quadrat was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Year the mussel quadrat was sampled (YYYY)

Attribute:

Attribute\_Label: TransectNumber  
Attribute\_Definition:

Sequential number from 1 to 10, with 1 being the vertical transect nearest to the beginning of the horizontal mussel site transect and 10 being closest to the end of the mussel site transect. A null value "." indicates that according to field data sheets a transect number was not recorded.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 1  
Range\_Domain\_Maximum: 10  
Attribute\_Units\_of\_Measure: Integer

Attribute:

Attribute\_Label: Count  
Attribute\_Definition:

Count of mussels 20 mm or larger from each quadrat sampled along the 10 vertical transects. A null value "." indicates that according to field data sheets a sample was collected, but the number of mussels over 20 mm in the sampled quadrat was not recorded.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 626  
Attribute\_Units\_of\_Measure: Count

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: KATMKEFJWPWS\_2008-2022\_Mytilus\_20mm\_Size.csv  
Entity\_Type\_Definition:

Table with the size of mussels (20 mm or larger) in each quadrat sampled in Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park. Each record (row) represents one mussel sample. There are 10 transects per mussel site per visit each with one primary core and up to twelve additional cores. Presented in a Comma Separated Value (CSV) formatted table.

Entity\_Type\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: Region  
Attribute\_Definition:

Largest spatial unit of the Gulf Watch Alaska Nearshore Monitoring component, as defined in Coletti et al 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: AKP  
Enumerated\_Domain\_Value\_Definition: Alaska Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEP  
Enumerated\_Domain\_Value\_Definition: Kenai Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: PWS  
Enumerated\_Domain\_Value\_Definition: Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockNumber  
Attribute\_Definition:

Two-digit unit number for each block within each sampling region, as defined in Coletti et al 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 05  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 07  
Enumerated\_Domain\_Value\_Definition: Northern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 08  
Enumerated\_Domain\_Value\_Definition: Western Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 09  
Enumerated\_Domain\_Value\_Definition: Eastern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 10  
Enumerated\_Domain\_Value\_Definition: Katmai National Park and Preserve  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockName  
Attribute\_Definition:

Name of sampling block within each sampling region, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KATM  
Enumerated\_Domain\_Value\_Definition:

Katmai National Park and Preserve (Block 10, Region = Alaska Peninsula)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEFJ  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park (Block 05, Region = Kenai Peninsula)  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: NPWS  
Enumerated\_Domain\_Value\_Definition:

Northern Prince William Sound (Block 07, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: WPWS  
Enumerated\_Domain\_Value\_Definition:

Western Prince William Sound (Block 08, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: EPWS  
Enumerated\_Domain\_Value\_Definition:

Eastern Prince William Sound (Block 09, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteID  
Attribute\_Definition:

Identification code of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: MI  
Enumerated\_Domain\_Value\_Definition: Sampling type = Mussel Bed Intensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: ME  
Enumerated\_Domain\_Value\_Definition: Sampling Type = Mussel Bed Extensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteName  
Attribute\_Definition:

Name of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Name of sampling sites within each sampling block.

Attribute:

Attribute\_Label: SampleDate  
Attribute\_Definition: Date the mussel quadrat was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Date the mussel quadrat was sampled (YYYY-MM-DD)

Attribute:

Attribute\_Label: YearSample  
Attribute\_Definition: Year the mussel quadrat was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Year the mussel quadrat was sampled (YYYY)

Attribute:

Attribute\_Label: TransectNumber  
Attribute\_Definition:

Sequential number from 1 to 10, with 1 being the vertical transect nearest to the beginning of the horizontal mussel site transect and 10 being closest to the end of the mussel site transect. A null value "." indicates that according to field data sheets a transect number was not recorded.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 1  
Range\_Domain\_Maximum: 10  
Attribute\_Units\_of\_Measure: Integer

Attribute:

Attribute\_Label: Size  
Attribute\_Definition:

Size (mm) of mussels 20mm or larger from each quadrat sampled along the 10 vertical transects. A null value "." indicates that according to field data sheets a sample was collected, but the size of mussels 20mm or larger in the sampled quadrat was not recorded.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 20  
Range\_Domain\_Maximum: 79  
Attribute\_Units\_of\_Measure: Millimeters

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: KATMKEFJWPWS\_2008-2022\_Mytilus\_Core\_Count.csv  
Entity\_Type\_Definition:

Table with counts of all observed mussels in each core sampled in Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park. Each record (row) represents one mussel core (primary) or set of cores (additional). There are 10 transects per mussel site per visit each with one primary core and up to twelve additional cores. Presented in a Comma Separated Value (CSV) formatted table.

Entity\_Type\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: Region  
Attribute\_Definition:

Largest spatial unit of the Gulf Watch Alaska Nearshore Monitoring component, as defined in Coletti et al 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: AKP  
Enumerated\_Domain\_Value\_Definition: Alaska Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEP  
Enumerated\_Domain\_Value\_Definition: Kenai Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: PWS  
Enumerated\_Domain\_Value\_Definition: Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockNumber  
Attribute\_Definition:

Two-digit unit number for each block within each sampling region, as defined in Coletti et al 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 05  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 07  
Enumerated\_Domain\_Value\_Definition: Northern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 08  
Enumerated\_Domain\_Value\_Definition: Western Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 09  
Enumerated\_Domain\_Value\_Definition: Eastern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 10  
Enumerated\_Domain\_Value\_Definition: Katmai National Park and Preserve  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockName  
Attribute\_Definition:

Name of sampling block within each sampling region, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KATM  
Enumerated\_Domain\_Value\_Definition:

Katmai National Park and Preserve (Block 10, Region = Alaska Peninsula)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEFJ  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park (Block 05, Region = Kenai Peninsula)  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: NPWS  
Enumerated\_Domain\_Value\_Definition:

Northern Prince William Sound (Block 07, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: WPWS  
Enumerated\_Domain\_Value\_Definition:

Western Prince William Sound (Block 08, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: EPWS  
Enumerated\_Domain\_Value\_Definition:

Eastern Prince William Sound (Block 09, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteID  
Attribute\_Definition:

Identification code of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: MI  
Enumerated\_Domain\_Value\_Definition: Sampling type = Mussel Bed Intensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: ME  
Enumerated\_Domain\_Value\_Definition: Sampling Type = Mussel Bed Extensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteName  
Attribute\_Definition:

Name of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Name of sampling sites within each sampling block.

Attribute:

Attribute\_Label: SampleDate  
Attribute\_Definition: Date the mussel quadrat was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Date the mussel quadrat was sampled (YYYY-MM-DD)

Attribute:

Attribute\_Label: YearSample  
Attribute\_Definition: Year the mussel quadrat was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Year the mussel quadrat was sampled (YYYY)

Attribute:

Attribute\_Label: TransectNumber  
Attribute\_Definition:

Sequential number from 1 to 10, with 1 being the vertical transect nearest to the beginning of the horizontal mussel site transect and 10 being closest to the end of the mussel site transect. A null value "." indicates that according to field data sheets a transect number was not recorded.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 1  
Range\_Domain\_Maximum: 10  
Attribute\_Units\_of\_Measure: Integer

Attribute:

Attribute\_Label: NumberPrimaryCores  
Attribute\_Definition:

Number of primary cores sampled. Core samples are collected to calculate density of all mussels, not just those greater than 20 millimeters (as the quadrat sampling is for). The total number of mussel cores collected is determined by the density of mussels at the point of sampling, however prior to 2014 only one core was sampled and now called the primary. The primary core allows density comparisons among all years of sampling. From 2014 onward, additional cores have been sampled to supplement the primary core to ensure enough mussels are collected for size frequency data. In this table this field will be one for all primary cores and one to twelve for additional cores. Any cores not sampled are not included in this table. Primary core count is either 0 or 1.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 1  
Enumerated\_Domain\_Value\_Definition: One primary core taken  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 0  
Enumerated\_Domain\_Value\_Definition: No primary core taken  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: PrimaryMusselCount  
Attribute\_Definition:

Number of mussels in the primary core, if taken. A null value "." indicates that a core sample was collected, but the number of mussels in the core was not recorded.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 632  
Attribute\_Units\_of\_Measure: Count

Attribute:

Attribute\_Label: NumberAdditionalCores  
Attribute\_Definition: Number of additional cores sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 12  
Attribute\_Units\_of\_Measure: Count

Attribute:

Attribute\_Label: AdditionalMusselCount  
Attribute\_Definition:

Number of mussels in the additional cores, if taken. A null value "." indicates that there may have been additional cores sampled, but no count data was recorded. It is likely that the counts are zero for those cores (no mussels were present in the cores at the time of sampling). Any cores not sampled are not included in this table.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 411  
Attribute\_Units\_of\_Measure: Count

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: KATMKEFJWPWS\_2014-2022\_Mytilus\_Core\_Size\_Frequency.csv  
Entity\_Type\_Definition:

Table with the size frequency of mussels within cores sampled in Prince William Sound, Katmai National Park and Preserve, and Kenai Fjords National Park. Each record (row) represents one mussel sample. There are 10 transects per mussel site per visit each with one primary core and up to twelve additional cores. Presented in a Comma Separated Value (CSV) formatted table.

Entity\_Type\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: Region  
Attribute\_Definition:

Largest spatial unit of the Gulf Watch Alaska Nearshore Monitoring component, as defined in Coletti et al 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: AKP  
Enumerated\_Domain\_Value\_Definition: Alaska Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEP  
Enumerated\_Domain\_Value\_Definition: Kenai Peninsula  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: PWS  
Enumerated\_Domain\_Value\_Definition: Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockNumber  
Attribute\_Definition:

Two-digit unit number for each block within each sampling region, as defined in Coletti et al 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 05  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 07  
Enumerated\_Domain\_Value\_Definition: Northern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 08  
Enumerated\_Domain\_Value\_Definition: Western Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 09  
Enumerated\_Domain\_Value\_Definition: Eastern Prince William Sound  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: 10  
Enumerated\_Domain\_Value\_Definition: Katmai National Park and Preserve  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: BlockName  
Attribute\_Definition:

Name of sampling block within each sampling region, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KATM  
Enumerated\_Domain\_Value\_Definition:

Katmai National Park and Preserve (Block 10, Region = Alaska Peninsula)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: KEFJ  
Enumerated\_Domain\_Value\_Definition: Kenai Fjords National Park (Block 05, Region = Kenai Peninsula)  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: NPWS  
Enumerated\_Domain\_Value\_Definition:

Northern Prince William Sound (Block 07, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: WPWS  
Enumerated\_Domain\_Value\_Definition:

Western Prince William Sound (Block 08, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: EPWS  
Enumerated\_Domain\_Value\_Definition:

Eastern Prince William Sound (Block 09, Region = Prince William Sound)

Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteID  
Attribute\_Definition:

Identification code of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: MI  
Enumerated\_Domain\_Value\_Definition: Sampling type = Mussel Bed Intensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: ME  
Enumerated\_Domain\_Value\_Definition: Sampling Type = Mussel Bed Extensive Block  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: SiteName  
Attribute\_Definition:

Name of sampling site within each sampling block, as defined in Coletti et al. 2017, <https://doi.org/10.5066/F78S4N3R>

Attribute\_Definition\_Source: Coletti et al. 2017  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Name of sampling sites within each sampling block.

Attribute:

Attribute\_Label: SampleDate  
Attribute\_Definition: Date the mussel quadrat was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Date the mussel quadrat was sampled (YYYY-MM-DD)

Attribute:

Attribute\_Label: YearSample  
Attribute\_Definition: Year the mussel quadrat was sampled.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: Year the mussel quadrat was sampled (YYYY)

Attribute:

Attribute\_Label: TransectNumber  
Attribute\_Definition:

Sequential number from 1 to 10, with 1 being the vertical transect nearest to the beginning of the horizontal mussel site transect and 10 being closest to the end of the mussel site transect.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 1  
Range\_Domain\_Maximum: 10  
Attribute\_Units\_of\_Measure: Integer

Attribute:

Attribute\_Label: CoreType  
Attribute\_Definition:

The type of core collected for sampling mussel size frequencies.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: p  
Enumerated\_Domain\_Value\_Definition: Primary Core Mussels  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute\_Domain\_Values:

Enumerated\_Domain:

Enumerated\_Domain\_Value: a  
Enumerated\_Domain\_Value\_Definition: Additional Core Mussels  
Enumerated\_Domain\_Value\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: NumCore  
Attribute\_Definition: The number of cores collected at the site.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Range\_Domain:

Range\_Domain\_Minimum: 0  
Range\_Domain\_Maximum: 12  
Attribute\_Units\_of\_Measure: Count

Attribute:

Attribute\_Label: Notes  
Attribute\_Definition:

A place to provide any comments on sampled cores. A blank cell indicates that no comments were associated with a record.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: A place to provide any comments on sampled cores.

Attribute:

Attribute\_Label: Size\_5 through Size\_79  
Attribute\_Definition:

The following 74 columns describe the total number of mussels of each size class within a particular sample (row in table). Sizes are recorded in millimeters. For example, Size\_5 is 5 mm length mussels. The null value "." indicates that according to field data sheets there were cores sampled, but the size frequency of mussels was not recorded.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain:

The following 74 columns describe the total number of mussels of each size class (mm) within a particular sample (row in table).

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: KATMKEFJWPWS\_2008-2022\_Mytilus\_Contributors.csv  
Entity\_Type\_Definition:

Table with a list of principle investigators and contributors to the mussel (Mytilus) sampling component of Gulf Watch Alaska. Comma Separated Value (CSV) file containing data.

Entity\_Type\_Definition\_Source: Author defined

Attribute:

Attribute\_Label: Last\_Name  
Attribute\_Definition: The last name of a Gulf Watch Alaska contributor.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: The last name of a Gulf Watch Alaska contributor.

Attribute:

Attribute\_Label: First\_Name  
Attribute\_Definition: The first name of a Gulf Watch Alaska contributor.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: The first name of a Gulf Watch Alaska contributor.

Attribute:

Attribute\_Label: ORCID  
Attribute\_Definition:

The ORCID (Open Researcher and Contributor ID) for each collaborator. A null value "." indicates that a contributor does not have an ORCID or the ID is unknown.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain:

The ORCID (Open Researcher and Contributor ID) for each collaborator.

Attribute:

Attribute\_Label: Position  
Attribute\_Definition: The position title of the Gulf Watch Alaska contributor.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: The position title of the Gulf Watch Alaska contributor.

Attribute:

Attribute\_Label: Agency  
Attribute\_Definition: The agency who the Gulf Watch Alaska contributor is associated.  
Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain: The agency who the Gulf Watch Alaska contributor is associated.

Attribute:

Attribute\_Label: Program  
Attribute\_Definition:

The program within the agency who the Gulf Watch Alaska contributor is associated with. A null value "." indicates that an agency does not have separate programs.

Attribute\_Definition\_Source: Author defined  
Attribute\_Domain\_Values:

Unrepresentable\_Domain:

The program within the agency who the Gulf Watch Alaska contributor is associated.

Distribution\_Information:

Distributor:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: U.S. Geological Survey, Alaska Science Center

Contact\_Address:

Address\_Type: Mailing and Physical  
Address: 4210 University Drive  
City: Anchorage  
State\_or\_Province: Alaska  
Postal\_Code: 99508  
Country: USA

Contact\_Voice\_Telephone: 907-786-7000  
Contact\_Electronic\_Mail\_Address: ascweb@usgs.gov

Resource\_Description:

The U.S. Geological Survey, Alaska Science Center is the authoritative source and distributor of these data.

Distribution\_Liability:

Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey, no warranty expressed or implied is made regarding the display or utility of the data for other purposes or on all computer systems, nor shall the act of distribution constitute any such warranty. Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Standard\_Order\_Process:

Digital\_Form:

Digital\_Transfer\_Information:

Format\_Name: CSV  
Format\_Information\_Content:

Data are distributed in a Zip package containing data in CSV format and FGDC metadata in XML and HTML formats.

File\_Decompression\_Technique:

Compression applied by the 7-Zip utility using the default compression level [5]. The Zip package can be decompressed and unpacked by open source or commercially available unzip tools.

Digital\_Transfer\_Option:

Online\_Option:

Computer\_Contact\_Information:

Network\_Address:

Network\_Resource\_Name: <https://doi.org/10.5066/F7FN1498>

Fees: None

Metadata\_Reference\_Information:

Metadata\_Date: 20220915  
Metadata\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: U.S. Geological Survey, Alaska Science Center

Contact\_Address:

Address\_Type: Mailing and Physical  
Address: 4210 University Drive  
City: Anchorage  
State\_or\_Province: Alaska  
Postal\_Code: 99508  
Country: USA

Contact\_Voice\_Telephone: 907-786-7000  
Contact\_Electronic\_Mail\_Address: ascweb@usgs.gov

Metadata\_Standard\_Name:

FGDC Biological Data Profile of the Content Standard for Digital Geospatial Metadata (CSDGM)

Metadata\_Standard\_Version: FGDC-STD-001.1-1999

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