Nearshore Fish Atlas Online: Navigating Web Enabled GIS

Mandy Lindeberg
Auke Bay Laboratories
Alaska ShoreZone Flex Mapping Website

Choose a database
- ShoreZone
- Nearshore Fish Atlas
- Shore Stations

Choose a desktop configuration
- Images on bottom
- Images to right

Start

ShoreZone GDB and CarryMap app
Query = all sites with Saffron cod
Entire Database: Saffron cod

Common name: Saffron cod
Scientific name: *Eleginus gracilis*
Family: cods - Gadidae

- **Adult (365 mm)**
- **Juvenile (265 mm)**

### Fish for All Regions

<table>
<thead>
<tr>
<th>Species</th>
<th>Catch</th>
<th>Average Length</th>
<th># Measured</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wolffish pollack</td>
<td>124,524</td>
<td>58.9</td>
<td>2,517</td>
</tr>
<tr>
<td>Pacific sand lance</td>
<td>121,089</td>
<td>90.9</td>
<td>3,324</td>
</tr>
<tr>
<td>Pacific herring</td>
<td>100,451</td>
<td>56.8</td>
<td>3,126</td>
</tr>
<tr>
<td>Pink salmon</td>
<td>89,555</td>
<td>52.2</td>
<td>4,472</td>
</tr>
<tr>
<td>Drum salmon</td>
<td>78,305</td>
<td>64.6</td>
<td>3,056</td>
</tr>
<tr>
<td>Shiner perch</td>
<td>29,000</td>
<td>90.6</td>
<td>2,002</td>
</tr>
<tr>
<td>Juvenile cod</td>
<td>22,433</td>
<td>25.9</td>
<td>902</td>
</tr>
<tr>
<td>Pacific sand fish</td>
<td>21,943</td>
<td>55.2</td>
<td>815</td>
</tr>
<tr>
<td>Capelin</td>
<td>21,770</td>
<td>57.6</td>
<td>1,305</td>
</tr>
<tr>
<td>Saffron cod</td>
<td>17,462</td>
<td>118.3</td>
<td>2,316</td>
</tr>
<tr>
<td>Crescent gurnard</td>
<td>12,222</td>
<td>124.3</td>
<td>275</td>
</tr>
<tr>
<td>Pacific cod</td>
<td>8,952</td>
<td>71.3</td>
<td>2,069</td>
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<tr>
<td>Three-spine stickleback</td>
<td>8,179</td>
<td>42.5</td>
<td>478</td>
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<tr>
<td>Razorback</td>
<td>8,054</td>
<td>17.1</td>
<td>592</td>
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</tbody>
</table>

Total:
- **Catch**: 718,045
- **Average Length**: 41.564
- **# Measured**: 41,564
Filter & Download = all sites with Saffron cod

FishAtlas Statewide Queries

<table>
<thead>
<tr>
<th>Region</th>
<th>Location</th>
<th>Site</th>
<th>Long</th>
<th>Lat</th>
<th>Habitat</th>
<th>Hauls</th>
<th>Species</th>
<th>Total Catch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arctic</td>
<td>Beaufort Sea</td>
<td>B07</td>
<td>-155.718</td>
<td>71.2372</td>
<td>Sand-Gravel</td>
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<td>Chukchi Sea</td>
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<td>71.351</td>
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<td>1</td>
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<td>Point Barrow</td>
<td>B18</td>
<td>-156.755</td>
<td>71.3056</td>
<td>Sand-Gravel</td>
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<td>1</td>
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<td>Barrow</td>
<td>B16</td>
<td>-156.179</td>
<td>71.3056</td>
<td>Sand-Gravel</td>
<td>4</td>
<td>1</td>
<td>4</td>
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<tr>
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<td>Chukchi Sea</td>
<td>B17</td>
<td>-156.316</td>
<td>71.3816</td>
<td>Sand-Gravel</td>
<td>4</td>
<td>1</td>
<td>4</td>
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<tr>
<td>Prince William</td>
<td>Outer Kachemak Bay</td>
<td>B05</td>
<td>59.5036</td>
<td>151.4382</td>
<td>Kelp</td>
<td>1</td>
<td>1</td>
<td>17</td>
</tr>
<tr>
<td>Prince William</td>
<td>Outer Kachemak Bay</td>
<td>B04</td>
<td>59.5036</td>
<td>151.4382</td>
<td>Kelp</td>
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<td>1</td>
<td>30</td>
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<td>Prince William</td>
<td>Outer Kachemak Bay</td>
<td>B03</td>
<td>59.5036</td>
<td>151.4382</td>
<td>Kelp</td>
<td>1</td>
<td>1</td>
<td>4</td>
</tr>
</tbody>
</table>

FishHabitat

Habitat key:
- Bedrock
- Sand-Gravel
- Kelp
- Seagrass
Filter: all sites in Chukchi Sea with Saffron cod
All Saffron cod caught at station B16
All Saffron cod caught at station, on 9/14/2009
Fish Atlas: Temperature loggers

Mean monthly water temperature
Data logger depth - 2 m at zero tide

Auke No Cove, Auke Bay, southwestern Alaska, THERM12
58.3782 N 134.6898 W

Area
- Statewide
- Group by Region
- Group by Locale

Fish
- All Species
- Select a Species

Habitat
- All Habitats
- Group by Habitat
- Select a Habitat

Habitat key
- Bedrock
- Eelgrass
- Kelp
- Sand-Gravel

Site Region Locale Lat Long Habitat Graph
THERM01 southeast Tenakee Springs 57.7364 -135.3785 Eelgrass
THERM01 Prince WI Chilkat River 60.6555 -148.1866 Kelp
THERM02 southeast Jackpot Bay 57.3142 -134.4773 Eelgrass
THERM03 southeast Chilkat River 60.3483 -148.232 Kelp
THERM04 southeast Jackpot Bay 57.1018 -148.042 Eelgrass
THERM05 southeast Sandy Cove 56.9788 -136.3115 Kelp
THERM06 southeast Brother Islands 57.2901 -133.8217 Kelp
THERM07 southeast Benjamin Island 58.5566 -134.8666 Kelp
THERM08 southeast Hunter Bay 58.2517 -134.9006 Kelp
THERM09 southeast Bemars Bay 58.7089 -134.9458 Kelp
THERM10 southeast Bemars Bay 58.0589 -134.92 Kelp
THERM11 southeast Bridgit Cove 58.0405 -134.9553 Kelp
THERM12 southeast Auke Bay 58.3782 -134.0898 Kelp
THERM13 southeast Peterson Creek 58.3035 -134.6848 Kelp
Fish Atlas: Eelgrass monitoring

Nearshore Fish Atlas of Alaska
Auke Nu Cove, Auke Bay, southeastern Alaska
Eelgrass (Zostera marina) meadow mapped with GPS
Meadow area: 1.87 hectares
Years mapped: 2004-2007

Photos
No image loaded

Fish Atlas Statewide Queries
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Area
- Statewide
- Fish
- All Species
- Group By Region
- Select a Species
- Group by Habitat
- Group by Locale
- Select a Habitat

Habitat
- Badrock
- Eelgrass
- Kelp
- Sand-Gravel

Display Eelgrass Layer: Total 13

Site | Description | Hectares | Acres | Map
--- | --- | --- | --- | ---
Auke Village, Auke Bay | Auke Village, Auke Bay | 0.33 | 0.82 |
Bay Creek, Auke Bay | Bay Creek, Auke Bay | 0.97 | 2.39 |
Bridget Cove Central, Bridget Cove Central | Bridget Cove Central, Bridget Cove central | 0.69 | 2.22 |
Bridget Cove North, Bridget Cove North | Bridget Cove North, Bridget Cove north | 0.65 | 2.34 |
Bridget Cove South, Bridget Cove South | Bridget Cove South, Bridget Cove south | 0.89 | 2.34 |
Crab Bay, Crab Bay, Tenakee Spring | Crab Bay, Crab Bay, Tenakee Spring | 1.84 | 4.55 |
Echolocate, Echo Cove | Echo Cove, Echolocate, Echo Cove, Echolocate | 2.04 | 7.17 |
Funker Bay, Funker Bay | Funker Bay, Funker Bay | 7.73 | 19.10 |
Nakwavina Sound, Nakwavina Sound | Nakwavina Sound, Nakwavina Sound | 0.71 | 1.77 |
Peterson Creek, Peterson Creek | Peterson Creek, Peterson Creek | 2.79 | 6.91 |
Sandy Cove, Sandy Cove | Sandy Cove, Sandy Cove | 0.73 | 1.91 |
Wavenida Creek, Wavenida Creek, Auke I | Wavenida Creek, Wavenida Creek, Auke I | 0.39 | 0.99 |

Temperature

About Eelgrass Maps
Shore Station dataset