Description of field names included in raw data downloads from the Nearshore Fish Atlas of Alaska.

Field name	Description
Field name SiteID	Description Arbitary number that identifies a unique sampling site in NFAA
RawSite	Original number, code, or name of sampling site used by data collector
Region	One of 5 geographic regions where the sampling site is located; Aleutian Islands, Beaufort Sea, Bering Sea, Chukchi Sea, or Gulf of Alaska
Location	Geographic locations or names that describe where sampling occurred
Lat	Latitude of the sampling site in decimal degrees
Long	Longitude of the sampling site in decimal degrees
Habitat	One of 8 general habitat types used to describe the site; eelgrass, eelgrass-kelp, kelp, surfgrass, sand-gravel, gravel-cobble, bedrock, and not reported
EventID	Arbitrary number that identifies a unique sampling event in NFAA
RawEvent	Original number, code, or name of sampling event used by data collector
Date	Date when sampling event occurred
GearBasic	One of 13 basic gear types used to sample sites; beach seine, by hand, cast net, crab pot, dip net, fyke net, gill net, jig, minnow trap, purse seine, trawl-bottom, trawl-midwater, and trawl-surface
GearSpecific	One of 52 specific gear types used to sample sites; full list and descriptions provided on pages 2-3.
SpCode	One of 230 unique codes for fish taxa captured. If no fish captured, SpCode is NOFISH
Sp_CommonName	Common name associated with SpCode
Sp_ScientificName	Scientific name associated with SpCode
Fam_CommonName	Common family name associated with SpCode
Fam_ScientificName	Scientific family name associated with SpCode The number of individuals that were not measured for length, total catch is the sum of the number of
Unmeasured	The number of individuals that were not measured for length; total catch is the sum of the number of unmeasured and the number of lengths
Length_mm	Length in millimeters of an individual fish; total catch is the sum of the count of lengths and the number of unmeasured
LengthType	One of 3 length types; FL (fork length), TL (total length), SL (standard length), or blank if unreported.
LifeStage	One of 7 life stage categories; ADULT, JUV (juvenile), LARV (larva or larvae), SMOLT, YOY (young-of-the-year), LARV-YOY, YOY-JUV, or blank if unreported
FMP	Indicates whether or not the SpCode taxa is federally managed by a Fishery Management Plan in a targeted fishery (e.g., Pacific cod) or is one of 3 spp. listed in the Arctic FMP (i.e., Arctic cod, saffron cod, & snow crab). NOAA Fisheries produces Essential Fish Habitat (EFH) maps for FMP species
FMP_BSAI	Indicates whether or not the SpCode taxa is managed federally by the Bering Sea and Aleutian Islands Groundfish Fishery Management Plan
FMP_GOA	Indicates whether or not the SpCode taxa is managed federally by the Gulf of Alaska Groundfish Fishery Management Plan
FMP_Arctic	Indicates whether or not the SpCode taxa is managed federally by the Arctic Fishery Management Plan
FMP_Salmon	Indicates whether or not the SpCode taxa is managed federally by the Salmon Fishery Management Plan
Temp_C	Water temperature in degrees celsius recorded by data collector at time of sampling
Salinity	Salinity recorded by data collector at time of sampling
TidalStage	One of 5 tidal stages or levels recorded by data collector at time of sampling; EBB, FLOOD, SLACK, HIGH, LOW, or blank if not unreported
ProjectName	Short descriptive name of the project in which data was collected
PointOfContact	One of 10 points of contact associated with projects; information includes organization, name, title, and email
PI	Principle investigator(s) for the project
CiteID	Arbitrary number that identifies a unique citation; full list provided on pages 4-5.
doi	Digital object identifier associated with a citation

Description of gear-related field names referenced in raw data downloads from the Nearshore Fish Atlas of Alaska.

GearBasic	GearSpecific	Specifications
beach	BSEINE-4FT	37 m long pelagic beach seine with 3.2 mm mesh and 4 ft (1.2 m) depth throughout; floats remain
seine		on surface in water deeper than net
	BSEINE-76	155 ft long pelagic beach seine, 12 ft deep in the middle and tapered to 3 ft deep at the end and
		dyed green. Center panel was 35 ft long and constructed of knotless nylon 1/4 stretch mesh.
	BSEINE-A	35 m long pelagic beach seine with wing mesh of 6 mm; center panel 5.4 m deep and 3 mm mesh;
		floats remain on surface in water deeper than net
	BSEINE-B	15.2 m long x 2.4 m deep beach seine with 0.95 cm stretched knotless black mesh, Manufactured by
	B051115 0	Christensen
	BSEINE-C	18 m long pelagic beach seine with wing mesh of 6 mm; center panel 5.5 m deep and 3 mm mesh; floats remain on surface in water deeper than net
	BSEINE-GOA11	29 x 5.5 ft beach seine with three panels: wings with 3.9 mm stretched knotless nylon mesh and ~
	D3LINL-GOATI	5.5 ft center bag with setback and 2.35 mm stretched knotless nylon mesh. (Ormseth et al. 2017)
	BSEINE-GOA13	57 x 5.5 ft beach seine with three panels: wings with 3.9 mm stretched knotless nylon mesh and 11
	20212 007.120	ft center bag with 6' setback and 2.35 mm stretched knotless nylon mesh. (Ormseth et al. 2017)
	BSEINE-K	44 m long pelagic beach seine with variable wing mesh from 13 to 6 mm; center panel 3.9 m deep
		and 3 mm mesh; floats remain on surface in water deeper than net
	BSEINE-NERRa	34 m tapered nylon mesh beach seine; middle section 8 m width x 5 m depth with 3 mm mesh
	BSEINE-NERRb	22.9 m non-tapered nylon mesh beach seine; middle section 7.6 m width x 3 m depth with 3 mm
		mesh
	BSEINE-S	37 m long beach seine with wing mesh of 28 mm; center panel 2.4 m deep and 6 mm mesh
	BSEINE-small	10-m long × 2.4 m deep beach seine with 0.64 cm stretched knotless white mesh, Manufactured by
		Memphis Net & Twine
	BSEINE-STD	37 m long pelagic beach seine with variable mesh, 12 ft deep and 3.2 mm mesh at center panel of
		codend; floats remain on surface in water deeper than net.
	BSEINE-W	15.2 m long x 2.4 m deep beach seine with 1.27 cm stretched knotless white mesh, Manufactured by
		Memphis Net & Twine
	BSEINE-WCS	3.1x15 m beach seine
by hand	HAND	shovel and bucket
cast net	CAST-USGS	6' diameter, 1/2" mesh
crab pot	POT	Pots had a ~1.2 m2 footprint with pyramid-shaped frames made of metal rebar and covered with
0.00 pcc		~5cm2 netting. Deployed at depths of 15-66 m, baited with whole herring, and soaked for ~24 hours
dip net	DIPNET-USGS	1/4" mesh
	DIPNET-WCS	not reported
fyke net	FYKE-vonBiela	Fyke net with 61 m lead net and two 15 m net wings of 2.54 cm stretch mesh. The lead net
•		extended perpendicular from the shoreline and connected to a centrally located, metal-framed fyke
		extended perpendicular from the shoreline and connected to a centrally located, metal-framed tyke
		net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke
		net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of $^{\sim}1$ m and no more than 60 m distance
		net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of $^{\sim}1$ m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap.
	FYKE-WCS	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of $^{\sim}1$ m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular
	FYKE-WCS	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of $^{\sim}1$ m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with
		net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of $^{\sim}1$ m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°.
gill net	GILLNET-USGS	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4"
gill net		net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4" Experimental gill nets consisted of 5 panels, each 25 ft in length, for a total net length of 12 5ft.
	GILLNET-USGS GILLNET-WCS	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4" Experimental gill nets consisted of 5 panels, each 25 ft in length, for a total net length of 12 5ft. Stretch measurement of the individual panels were: 1 inch, 1.5 inch, 2 inch, 3 inch, and 4 inch.
	GILLNET-USGS GILLNET-WCS	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4" Experimental gill nets consisted of 5 panels, each 25 ft in length, for a total net length of 12 5ft. Stretch measurement of the individual panels were: 1 inch, 1.5 inch, 2 inch, 3 inch, and 4 inch. not reported
	GILLNET-USGS GILLNET-WCS	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4" Experimental gill nets consisted of 5 panels, each 25 ft in length, for a total net length of 12 5ft. Stretch measurement of the individual panels were: 1 inch, 1.5 inch, 2 inch, 3 inch, and 4 inch. not reported Jigging was performed using line-counter trolling reels and a variety of tackle depending on which
gill net jig	GILLNET-USGS GILLNET-WCS JIG JIG-GOA	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4" Experimental gill nets consisted of 5 panels, each 25 ft in length, for a total net length of 12 5ft. Stretch measurement of the individual panels were: 1 inch, 1.5 inch, 2 inch, 3 inch, and 4 inch. not reported Jigging was performed using line-counter trolling reels and a variety of tackle depending on which species were anticipated in the catch (Ormseth et al. 2017)
	GILLNET-USGS GILLNET-WCS	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4" Experimental gill nets consisted of 5 panels, each 25 ft in length, for a total net length of 12 5ft. Stretch measurement of the individual panels were: 1 inch, 1.5 inch, 2 inch, 3 inch, and 4 inch. not reported Jigging was performed using line-counter trolling reels and a variety of tackle depending on which species were anticipated in the catch (Ormseth et al. 2017) Hand-jigging with rod and reel at depths of 5 to 115 m. Three people jigged for 15 minutes at each
	GILLNET-USGS GILLNET-WCS JIG JIG-GOA	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4" Experimental gill nets consisted of 5 panels, each 25 ft in length, for a total net length of 12 5ft. Stretch measurement of the individual panels were: 1 inch, 1.5 inch, 2 inch, 3 inch, and 4 inch. not reported Jigging was performed using line-counter trolling reels and a variety of tackle depending on which species were anticipated in the catch (Ormseth et al. 2017) Hand-jigging with rod and reel at depths of 5 to 115 m. Three people jigged for 15 minutes at each site, one person with a 6-hook herring jig, and two people with 170 g dart lures. Captured fish were
	GILLNET-USGS GILLNET-WCS JIG JIG-GOA	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4" Experimental gill nets consisted of 5 panels, each 25 ft in length, for a total net length of 12 5ft. Stretch measurement of the individual panels were: 1 inch, 1.5 inch, 2 inch, 3 inch, and 4 inch. not reported Jigging was performed using line-counter trolling reels and a variety of tackle depending on which species were anticipated in the catch (Ormseth et al. 2017) Hand-jigging with rod and reel at depths of 5 to 115 m. Three people jigged for 15 minutes at each site, one person with a 6-hook herring jig, and two people with 170 g dart lures. Captured fish were placed in a holding tank until jigging was finished at each site, and then each fish was identified,
	GILLNET-USGS GILLNET-WCS JIG JIG-GOA	net trap with opening 1.5 m wide and 1.2 m height and made from 1.27 cm stretch mesh. The fyke net trap was set away from the shoreline at a water depth of ~1 m and no more than 60 m distance from shore, and the two net wings were angled toward the shoreline from the sides of the trap. Fyke net constructed with 3.1 mm stretch mesh, a 91.5 x 122 cm frame made of two rectangular conduit frames, 5 steel hoops, 2 throats, and a 15.2 m lead. The wings are anchored using rebar with the main line attached perpendicular to shore and the wings set at approximately 45°. 20' deep, variable mesh size 1/4" - 3/4" Experimental gill nets consisted of 5 panels, each 25 ft in length, for a total net length of 12 5ft. Stretch measurement of the individual panels were: 1 inch, 1.5 inch, 2 inch, 3 inch, and 4 inch. not reported Jigging was performed using line-counter trolling reels and a variety of tackle depending on which species were anticipated in the catch (Ormseth et al. 2017) Hand-jigging with rod and reel at depths of 5 to 115 m. Three people jigged for 15 minutes at each site, one person with a 6-hook herring jig, and two people with 170 g dart lures. Captured fish were

GearBasic	GearSpecific	Specifications
minnow trap	MINNOW	not reported
purse seine	PSEINE-ABL	The purse seine was 20 ft deep and 150 ft long with a sweep mesh size of 1 ¼ in and a bunt mesh of 1/8 in knotless netting (i.e., the portion of the net where fish were concentrated was 1/8 in mesh. The diameter of the net when fully deployed was 48 ft, resulting in a sampling footprint of 1,800 ft2. (Ormseth et al. 2017)
	PSEINE-USGS	150 ft long and 20 ft deep purse sine. Two panels: 100' panel 1/8" mesh, 50' panel 1 1/4" mesh
trawl- bottom	TRAWL-1m	1m beam trawl with 1 mm mesh size towed for ~10 min.
	TRAWL-3m	3m plumb staff beam trawl described in Gunderson and Ellis (1986)
	TRAWL-B	The beam trawl was a 3.1 m bottom trawl based on the original design of Gunderson and Ellis (1986) and modified by Abookire and Rose (2005).
	TRAWL-NE	400-mesh eastern trawl with 364 kg, Nor-Eastern Astoria V trawl doors, 3.2 cm mesh in the cod end, 8.9 cm in the intermediate and 10.2 cm in the body and wings
	TRAWL-O	Small otter trawl net was 5.2 m long and included a 1.7-m long codend of 3.2-mm stretch mesh protected by an outer skirt of 29-mm stretch mesh. The mouth of the net was 2.6 m wide, 1.2 m deep, and connected to two weighted otter doors (33 cm by 61 cm) – one per side. The doors were attached to a 6.3-m long bridle of 1.3-cm braided line, which was tied to the boat with a 1.6-cm polypropylene tow line. This "shrimp try-net" can be towed by a skiff or larger vessel.
	TRAWL-PSB	3 m plumb staff beam trawl with 7 mm mesh in the body of the net and 4 mm mesh in the codend liner following methods described by Norcross et al. (2013)
trawl- midwater	TRAWL-A	Aluette midwater trawl is 20 m long with 5 x 3.5 m mouth opening, 10 m foot-head ropes, and 1.6 cm nylon mesh at the headrope decreasing to 0.4 cm at the codend. Manufactured by Innovative Net Systems
	TRAWL-MH	Modified herring trawl with 37 m2 mouth opening, 30 m long, and variable mesh from 5cm - 6 mm with 3 mm codend liner
	TRAWL-MMM	Small, fine-mesh otter trawl deployed at midwater for verification of acoustic sign. Net was 25 ft wide and 12 ft. high, with a 4mm knotless mesh liner. The 3/8-in Spectra single warp was attatched via a 90 ft. V-bridle to the two 40lb 2x4 ft plywood and steel doors that were connected to the net with 24 ft dandlines. For midwater use, this net had 50 lbs of lead weight attached to each end of the footrope at the point where the dandylines attached. Tow duration depended on the intensity and distribution of acoustic backscatter. (Ormseth et al. 2017)
trawl- surface	TRAWL-AMOD	Aluette midwater trawl modified to fish at the surface by attaching buoys to the head ropes. Net is 20 m long with 5 x 3.5 m mouth opening, 10 m foot-head ropes, and 1.6 cm nylon mesh at the headrope decreasing to 0.4 cm at the codend. Manufactured by Innovative Net Systems
	TRAWL-M	Mamou surface trawl is 15 m long with 12 m foot-head ropes. Nylon mesh is 1.6 cm at the headrope decreasing to 0.4 cm at the codend. Manufactured by Innovative Net Systems. (Miller et al. 2016)
	TRAWL-MMS	Small, fine-mesh otter trawl deployed at surface for verification of acoustic sign. Net was 25 ft wide and 12 ft high, with a 4mm knotless mesh liner. The 3/8-in Spectra single warp was attatched via a 90 ft. V-bridle to the two 40lb 2x4 ft plywood and steel doors that were connected to the net with 24 ft dandlines. For surface use, 15 lbs of lead weight were attached to each end of the footrope at the point where the dandylines attached, and large inflatable buoys were attached to the headrope. Tow duration depended on the intensity and distribution of the acoustic backscatter. (Ormseth et al. 2017)
	TRAWL-N	Nordic 264 rope trawl with 3-m doors and a 1.2-cm mesh liner in the cod end that fishes approximately 11 m deep with a width of 14.3 m.

Full citations associated with fieldname CiteID in raw data downloads from Nearshore Fish Atlas of Alaska.

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