## C6 Pelagic Trawl Gear Definition Preliminary Initial Review Draft: Regulatory Impact Review



Caleb Taylor, October 2024 Alicia M. Miller

This action is intended to update the definition of pelagic trawl gear and is separate from ongoing efforts to encourage gear innovations and update the pelagic trawl gear performance standard.







## Outline

- Context
- Regulatory approaches
- Background
- Pelagic & nonpelagic trawl gear
- Pelagic trawl gear definition
- Discussion of Alternatives and Options



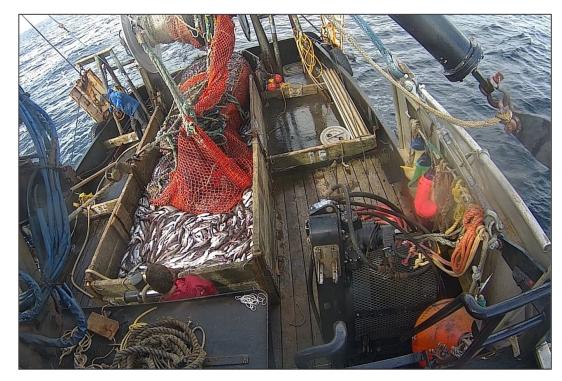


image credit: NOAA Fisheries



#### This Action:

#### Purpose and Need (Section 1.1, pg 5)

- align regulations with the longstanding interpretation of pelagic trawl gear;
- remove unnecessary outdated text;
   and
- provide for improved regulatory compliance.

#### Alternatives (Section 2, pg 12)

- Alternative 1: No Action
- Alternative 2: Would revise specific provisions applicable to how pelagic trawl gear is defined.





## This action relates to other ongoing actions (Section 1.3 pg 8)

#### Pelagic trawl gear research

Research is ongoing to catalog pelagic trawl gear configurations and methods to measure pelagic trawl gear ground clearance and contact with the seafloor.

The Council supports these research efforts and requested regular updates.

## Pelagic trawl gear innovation and Performance Standard

Discussion paper is tasked to inform options to incentive pelagic gear innovation with the objectives to:

- minimize bycatch
- minimize impacts to benthic habitats and unobserved fishing mortality
- improve or maintain fishing efficiency
- provide flexibility to adopt new technologies as they are developed

The Council intends to review options to change the pelagic trawl gear performance standard following this work.

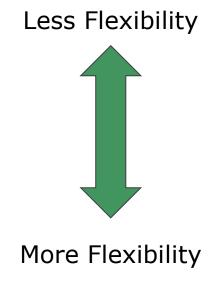


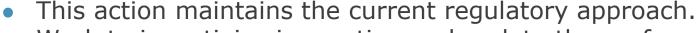
## Regulatory Approaches (Section 4.2.5, pg 38)

**Prescriptive** regulations specify clear requirements for who must do what.

A **Performance standard** is a measurable standard.

**Type approval** is a process to grant approval with minimum requirements or standards.





 Work to incentivize innovation and update the performance standard applicable to pelagic trawl gear are expected to result in substantive changes to the regulatory approach for pelagic trawl gear.





### Regulatory Definitions

The Office of the Federal Register (OFR) provides technical and substantive guidance on the drafting of regulatory definitions. Substantively, the OFR advises that:

- The main purpose of a definition is to achieve clarity without needless repetition.
- Draft the Regulations (*i.e.* requirements) first, then the definitions.
- Do not include substantive rules or requirements in a definition.
- Do not use the word "must" in a definition.

The definition of *pelagic trawl gear* is the physical description of the specific type of trawl gear that is referred to in regulations as "pelagic trawl gear."

Regulations that impose requirements on vessels using pelagic trawl gear or nonpelagic trawls appear elsewhere in the regulations such as:

- § 679.22 Closures.
- § 679.24 Gear Limitations.





## Background: Management Objectives (Sections 1.3 & 1.4 pg 8)

1991 1993 1996 October Future actions

#### **Prescriptive definition**

Reduce halibut and crab bycatch

# Clarified the prescriptive definition and added a performance standard

Reduce halibut and crab bycatch in the pollock fishery when PSC limits reached and only non-pelagic trawl gear is allowed

Performance standard is intended to discourage fishing in contact with the seafloor.

## Prescriptive definition of Codend added at § 600.10

No reason provided

## Update the prescriptive definition

Intended to improve compliance while maintain progress toward reducing bycatch and protecting sensitive habitats

## Incentivize and allow gear innovation

Maintain the goal of reducing bycatch and protecting sensitive habitats.

Shift the regulatory approach away from detailed prescriptive regulations to implement a more flexible definition and an improved performance standard





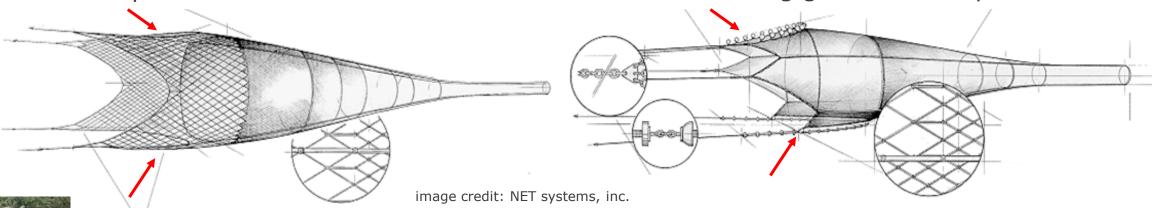
### Pelagic and Nonpelagic Trawl Gear

#### Pelagic Trawl Gear

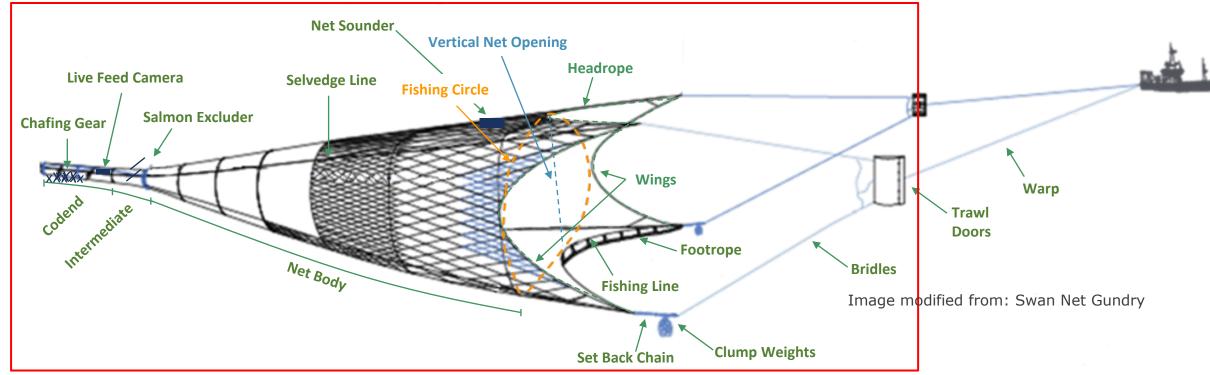
- Footrope: **no** discs, bobbins, or rollers
- Large forward meshes
- No headrope flotation
- no bottom protection (chafing) gear on footrope

#### Nonpelagic trawl gear

- Footrope: <u>includes</u> discs, bobbins, rollers, chafing gear
- Small forward meshes
- Headrope flotation
- Allows chafing gear on footrope



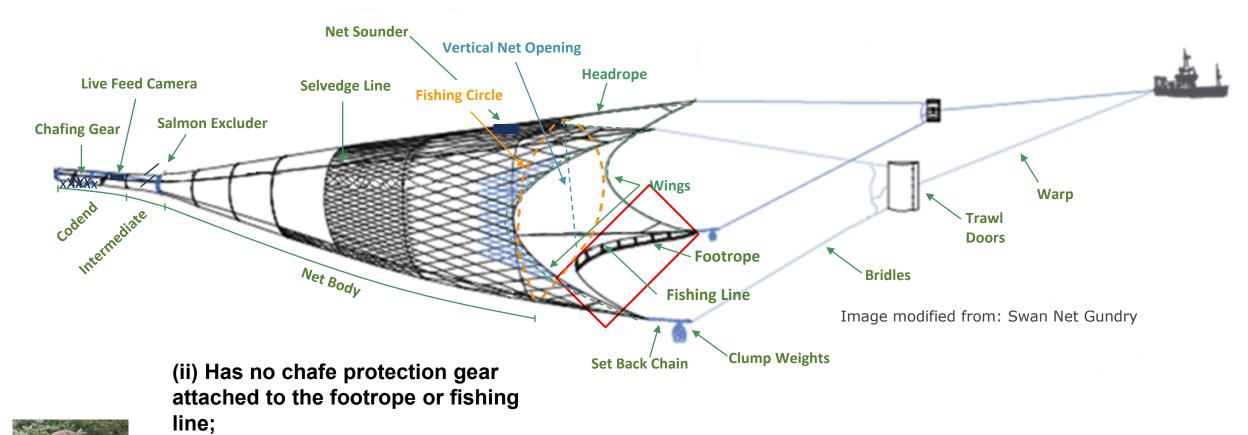




(i) Has no discs, bobbins, or rollers;

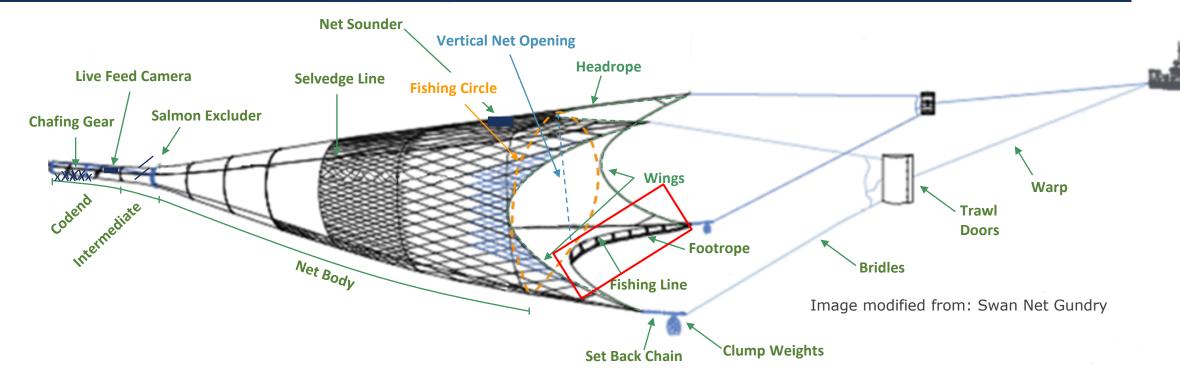








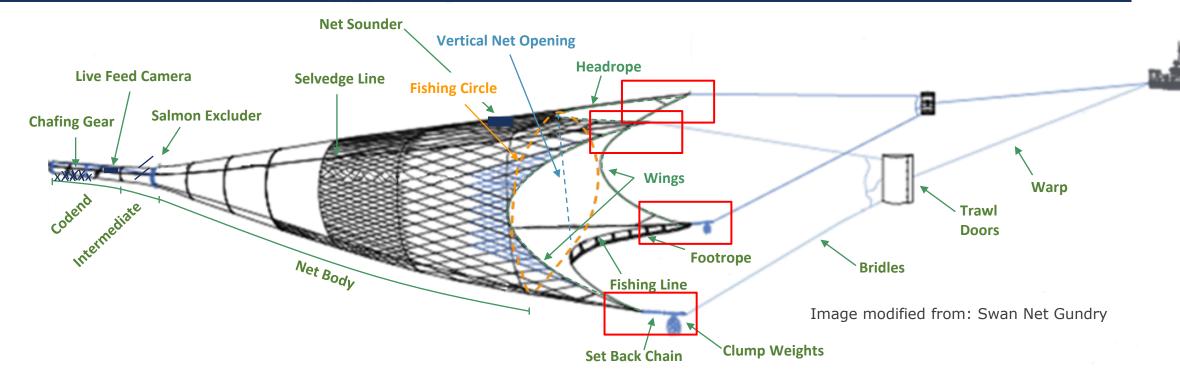




(vii) Has no more than one fishing line and one footrope for a total of no more than two weighted lines on the bottom of the trawl between the wing tip and the fishing circle;



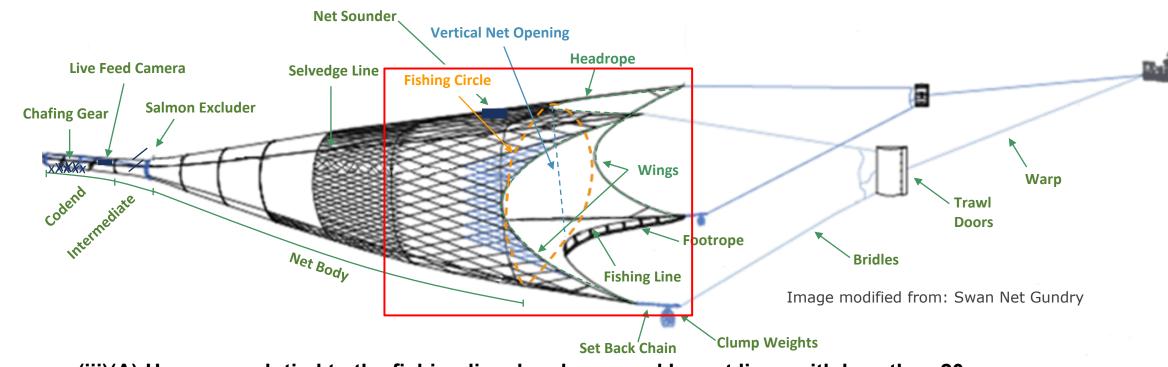




(x) May have weights on the wing tips.





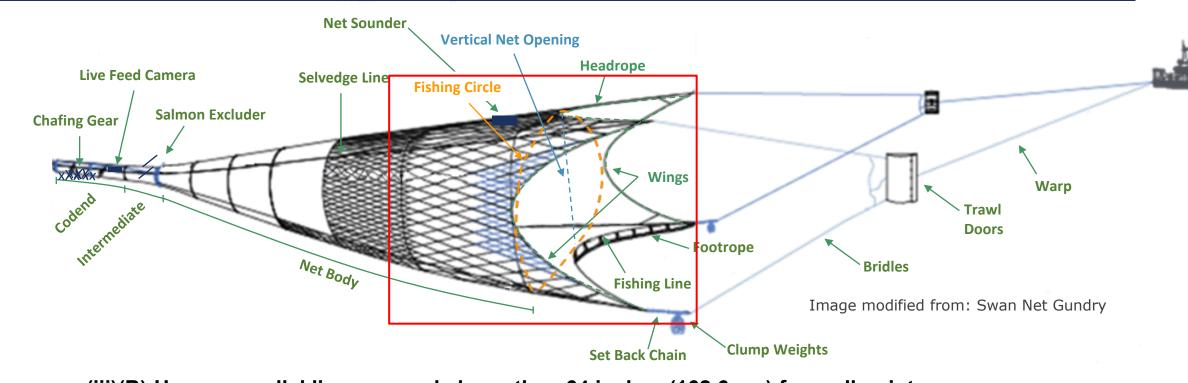




(iii)(A) Has no mesh tied to the fishing line, headrope, and breast lines with less than 20 inches (50.8 cm) between knots and has no stretched mesh size of less than 60 inches (152.4 cm) aft from all points on the fishing line, headrope, and breast lines and extending passed the fishing circle for a distance equal to or greater than one half the vessel's LOA; or



Section 3.1 pg. 19

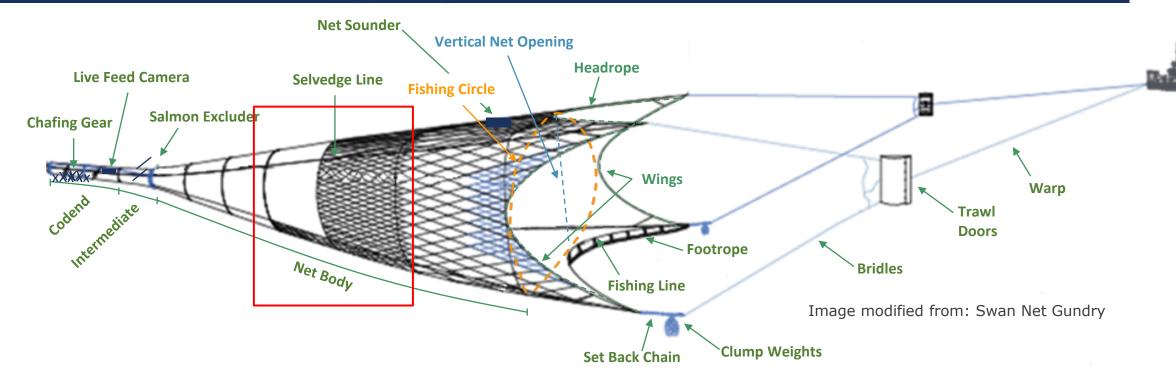




(iii)(B) Has no parallel lines spaced closer than 64 inches (162.6 cm) from all points on the fishing line, headrope, and breast lines and extending aft to a section of mesh, with no stretched mesh size of less than 60 inches (152.4 cm) extending aft for a distance equal to or greater than one half the vessel's LOA;



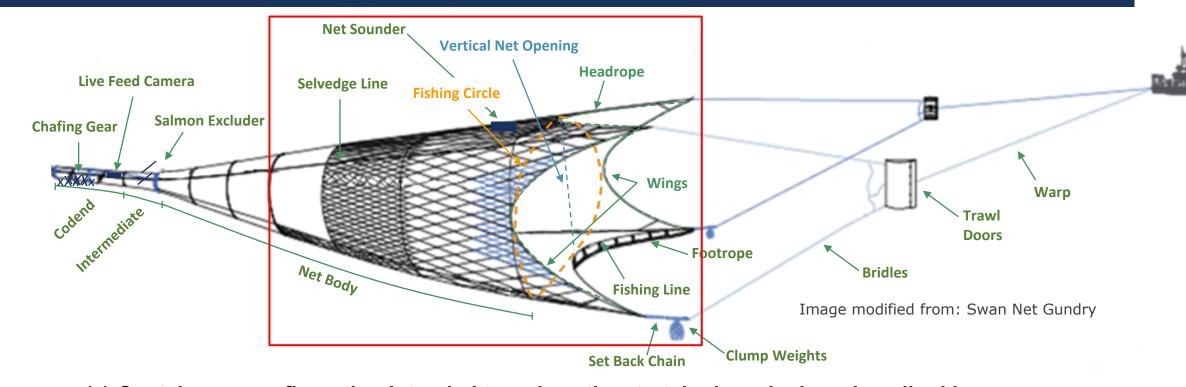
Section 3.1 pg. 19



(iv) Has no stretched mesh size less than 15 inches (38.1 cm) aft of the mesh described in paragraph (14)(iii) of this definition for a distance equal to or greater than one-half the vessel's LOA;



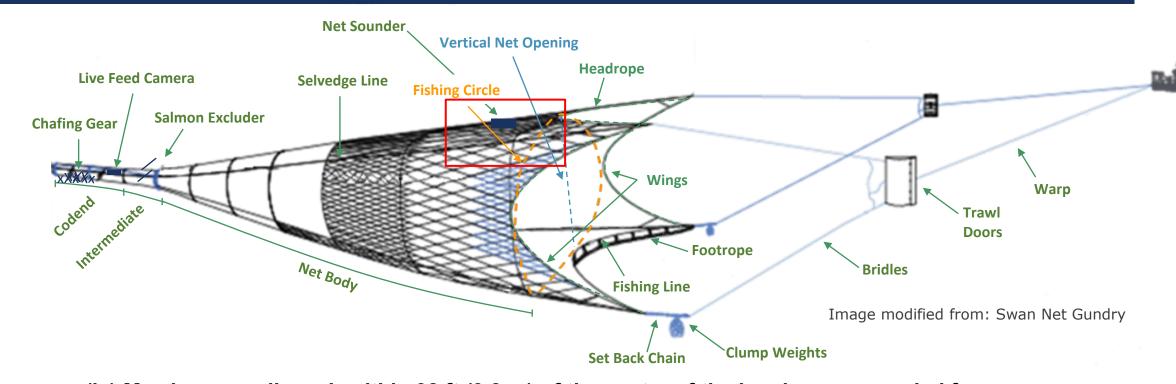




(v) Contains no configuration intended to reduce the stretched mesh sizes described in paragraphs (14)(iii) and (iv) of this definition;





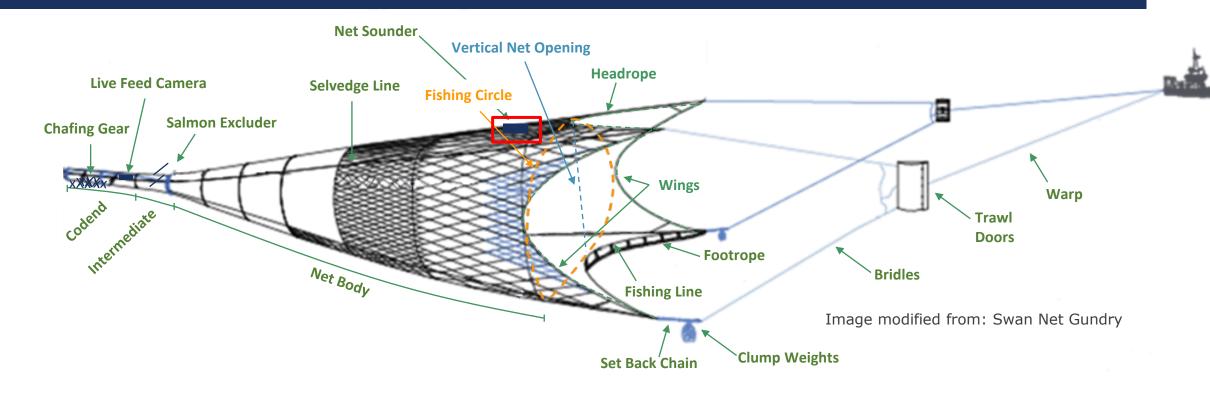


(ix) May have small mesh within 32 ft (9.8 m) of the center of the headrope as needed for attaching instrumentation (e.g., net-sounder device);





#### Section 3.1 pg. 19

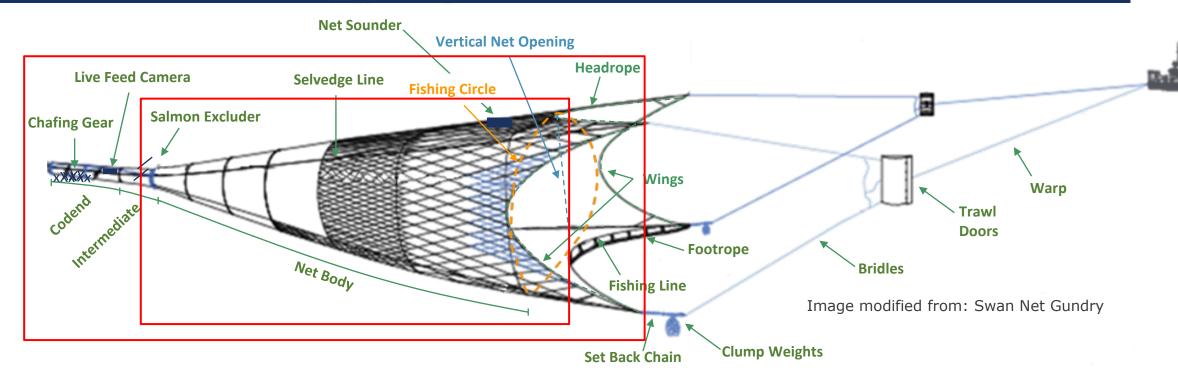


(vi) Has no flotation other than floats capable of providing up to 200 lb (90.7 kg) of buoyancy to accommodate the use of a net-sounder device;





#### Section 3.1 pg. 19



(viii) Has no metallic component except for connectors (e.g., hammerlocks or swivels) or a netsounder device aft of the fishing circle and forward of any mesh greater than 5.5 inches (14.0 cm) stretched measure;





### Where metallic components are allowed

#### [Pelagic Trawl Gear]

(viii) <u>Has no metallic component</u> except for connectors (e.g., hammerlocks or swivels) or a net-sounder device <u>aft of the fishing circle and forward of any mesh greater than 5.5 inches stretched measure</u>;

- **Example a:** The only metallic components allowed in pelagic trawl gear (other than the listed exceptions) are connectors and a net sounder device and they must be located aft of the fishing circle and forward of mesh greater than 5.5 inch stretched measure.
- **Example b:** While any metallic components are allowed elsewhere in the net, only connectors and a net sounder device are allowed in the section aft of the fishing circle and forward of mesh greater than 5.5 hch stretched measure.



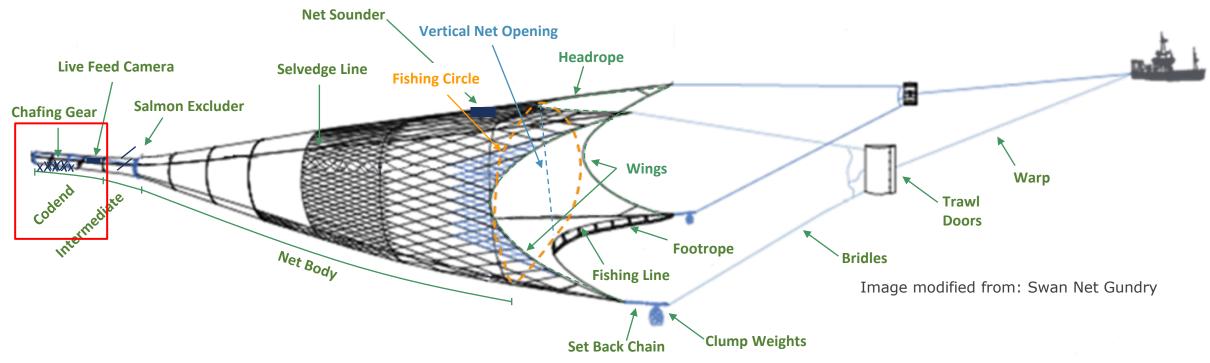
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The terminal, closed end of a trawl net.



#### Alternative 1: Status Quo

< 5.5 inch stretched mesh (Codend and some intermediate)

- no flotation
- unclear: metallic components

- > 5.5 inch stretched mesh and aft of fishing circle
- flotation (200 lb buoyancy) allowed only to support one net sounder
- connectors (hammer locks or swivels) allowed
- a net sounder is allowed
- minimum mesh size to ensure large spacing to reduce bycatch

## Forward of the fishing circle

- no flotation
- Allows two weighted lines on bottom of trawl between wingtip and fishing circle
- wingtips can have weights
- unclear: metallic components
- most likely to contact sea floor





#### Alternatives and Options:

**Alternative 1: Status Quo (no change)** 

Alternative 2: Revise regulations at 50 CFR 679.2 that define authorized fishing gear for pelagic trawl gear and trawl gear to:

- Option 1: Exclude the codend from limitations applicable to the trawl net.
- Option 2: Remove outdated text related to parallel line trawls.
- Option 3: Allow the use of flotation for bycatch excluder devices.
- Option 4: Allow hardware that secures technology to the trawl as long as the hardware does not appreciably change the intended performance of the trawl. Technology that may need to be secured to the trawl includes live-feed cameras, flow sensors, etc.



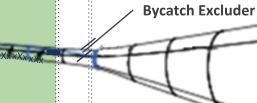
## Alternative 2, Option 1: Exclude the codend

Section 2.2.1 pg. 14 Section 4.2.1 pg. 34

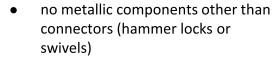
Codend (< 5.5 inch stretched mesh) > 5.5 inch stretched mesh and aft of fishing circle

fishing circle

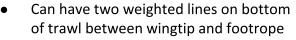
Forward of the fishing circle



- allow flotation
- allow metallic components
- allow instrumentation



- a net sounder is allowed
- flotation (200 lb buoyancy) allowed to support one net sounder



- wingtips can have weights
- no other metallic components between wingtips and fishing circle
- no flotation

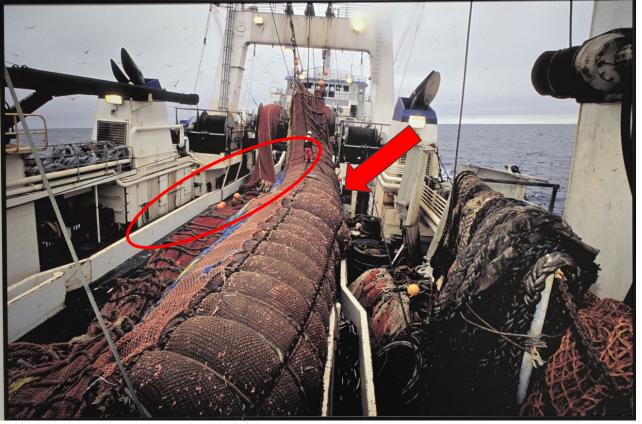




### Alternative 2, Option 1: Exclude the codend

## The codend functions to collect fish caught

- Metallic components
  - chain riblines
  - catch sensors
- Flotation







## Alternative 2, Option 2: Remove outdated text relating to parallel line trawls

679.2 "authorized Fishing Gear"(14)(iii)(B) [Pelagic Trawl gear] Has no parallel lines spaced closer than 64 inches (162.6 cm) from all points on the fishing line, headrope, and breast lines and extending aft to a section of mesh, with no stretched mesh size of less than 60 inches (152.4 cm) extending aft for a distance equal to or greater than one-half the vessel's LOA;

Parallel line trawls are obsolete

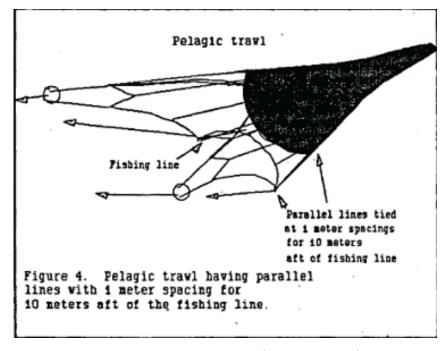


Image credit: NOAA Fisheries





## Alternative 2, Option 3: Allow flotation in bycatch excluder devices

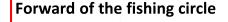
Section 2.2.3 pg. 15 Section 4.2.3 pg. 36

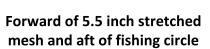
## Codend (<5.5 inch stretched mesh)

- no flotation
- no metallic components
- no electronics containing metallic components



- Allow flotation
- any or no metallic components other than connectors (depending on mesh size)





- connectors (hammer locks or swivels) allowed
- a net sounder is allowed
- flotation (200 lb buoyancy) allowed to support net sounder

- Can have two weighted lines on bottom of trawl between wingtip and footrope
- wingtips can have weights
- no other metallic components between wingtips and fishing circle
- no flotation





### Bycatch Excluder Device design

#### "Flapper" style salmon excluder tested in 2013.

"Over/Under" style salmon excluder tested in 2014.

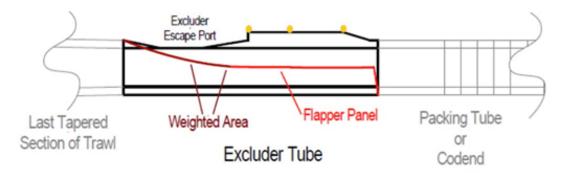


Image credit: EFP 2013-1, March 2015

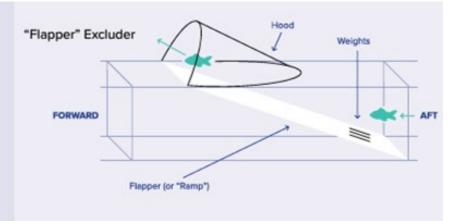


Image credit: EFP 2013-1, March 2015

## SALMON EXCLUDER DEVICE TECHNOLOGY

#### IS USED BY EVERY VESSEL.

Ongoing innovation and collaborative research play pivotal roles in developing technology aimed at reducing bycatch. The Salmon Excluder Device, used by every vessel, uses lights to attract swimming Chinook salmon out of open net panels, reducing salmon bycatch.







## Alternative 2, Option 4: Allow hardware securing technology to the net...

Section 2.2.4, pg. 15 Section 4.2.4, pg. 38

> 5.5 inch stretched mesh and Codend Forward of the fishing circle aft of fishing circle (< 5.5 inch stretched mesh) **Bycatch Excluder** codend "...as long as the hardware does not appreciably change the intended Where in the net should hardware be allowed? What is the purpose of the technology that is intended to be performance of the trawl." allowed in addition to a net sounder?





## Next steps

#### Scope of Options 3 and 4:

- Are there discrete modifications that could be made to Options 3 and 4 to more clearly delineate between this action and the intended scope of the separate action to incentivize gear innovation?
- Information on the cost, benefits, and impacts of each change are requested at this meeting.

#### Impact Analysis:

- Depending upon direction from the Council, Analysts will prepare a full analysis of impacts for the next review draft.
- If this action should continue to be considered separate from the ongoing work to incentivize pelagic trawl gear innovation, analysts have posed questions intended to help the Council clarify its intent for Option 3 and Option 4.
- If the scope of this action is expanded to address the performance standard or gear innovations, the scope of analytical work would also be expanded.







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