

Table of Contents

Introduction	1
Instructions	1
Gear Types	2
Hook and Fishing Line Gear Instructions	3
Hook	3
Line	5
Leader	6
Gear Submission	8
Trap/Pot Gear Instructions	9
Trap/Pot	9
Line/Rope	11
Buoy	13
Gear Submission	14
Net Gear Instructions	15
Netting	15
Net Components	17
Line	18
Buoy	18
Gear Submission	19
Nautical Rope Instructions	20
Line/Rope	20
Buoy	22
Gear Submission	23
Gear Characterization and Submission Reference Guide	24
Sea Turtle Stranding and Salvage Network – Hook and Fishing Line Gear Form	25
Sea Turtle Stranding and Salvage Network - Trap/Pot Gear Form	27
Sea Turtle Stranding and Salvage Network - Net Gear Form	30
Sea Turtle Stranding and Salvage Network - Nautical Rope Form	32
Appendix A. Complete Gear Photo Series	34

Introduction

The Gear Characterization Guide is a component of the Sea Turtle Stranding and Salvage Network (STSSN). The purpose of this guide is to describe the characterization process for fishing gear recovered from sea turtles documented by the STSSN. The objective is consistent and informative characterization of fishing materials that informs threat identification and monitoring. The guide includes data collection forms that should be used in coordination with the guide.

Instructions.

- 1. Based on the gear in hand, select the gear section on page 2 that best describes the material. Multiple sections may be used if necessary.
- 2. Use the **gear forms** at the end of this guide to document the fishing gear, as instructed in this guide.
- 3. Take photographs of the gear, as directed in this guide. Please see the **appendix** for examples of a complete photo series.
- 4. Upload the completed gear form to the STSSN database (seaturtlestranding.com) as a miscellaneous form under the stranding report. Additionally, upload all photos of gear to the stranding report.

Gear submission. If fishing gear meets the submission criteria outlined in this guide, it should be sent to a NOAA gear specialist for evaluation. Any gear configuration that is suspected of coming from a commercial fishery, or if you are unsure, should be photographed and sent to a NOAA gear specialist.

- Depending on the region and gear type, all or parts of the gear may be requested to be shipped, or photographs with internal scales may be requested. Please include a copy of the gear form with the gear shipment.
- Follow the gear submission instructions below based on the stranding region.

Southeast Region (SER; Gulf of Mexico US states and Atlantic coast states NC to FL)

- In addition to uploading forms and photos to the STSSN database, please email the form and photos to Lyndsey Howell(Lyndsey.Howell@noaa.gov).
- Send all gear that meets submission criteria to:

NOAA Fisheries Attn: Lyndsey Howell 3209 Frederic St. Pascagoula, MS 39567

Greater Atlantic Region (GAR; Atlantic coast states ME to VA)

- Contact the GAR Sea Turtle Stranding and Disentanglement Coordinator: Kate Sampson (Kate.Sampson@noaa.gov, 978-282-8470) for any gear submissions.
- For gear that does not meet submission criteria, document and photograph as
 described in this guide, and dispose of gear according to your state stranding or
 disentanglement coordinator guidelines.
- A **quick reference guide** of the necessary gear characterization steps, including photo documentation and submission for each gear type, is also provided.

Unknown gear. Any unknown origin gear should be thoroughly photographed and retained until a gear specialist can examine photographs or requests for the gear to be sent to them. Contact the state or regional contact as soon as possible.

Hook and Fishing Line Gear

Includes:

- Hooks
- Fishing line (≤ 0.5 cm)
- Leaders

Go to page 3.







Trap/Pot Gear

Includes:

- Trap/Pot & fragments
- Nautical rope
- Trap/Pot buoys

Go to page 9.







Net Gear

Includes:

- Whole nets
- Net pieces
- Gear attached to net material





Go to page 15.

Nautical Rope

A nautical rope is defined as a multifilament or braided line of any material, ≥ 0.5 cm in diameter, used for marine applications, such as a buoy, mooring, or anchor lines.

Includes:

- Braided rope
- Nylon rope
- Polypropylene rope
- Buoy rope (Miscellaneous, unknown origin)

Go to page 20.





Hook and Fishing Line Gear Instructions

Start with Step 1 below to determine what information, material, and photographs should be collected. Use the Hook and Fishing Line Gear Form (see p. 25 - 26) provided to record the data requested in this guide. Please send all photographs, requested information, and gear according to the regional submission instructions located at the end of this section.

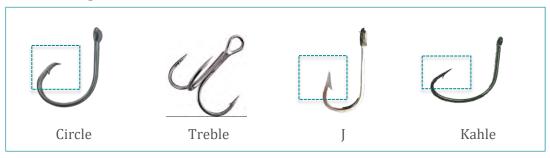
Any gear configuration that is suspected to be commercial should be sent to a NOAA gear specialist for further analysis.

Hook

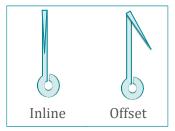
 Take photographs of the entire gear with a scale bar. Record if a hook(s) is present (Yes/No), and if yes, record the total number of hooks present. If >3 unique hooks present, complete an additional hook gear form to characterize all hooks present. See Appendix A – example 1 for a complete photo series of hook and line gear.



2. For each unique type of hook, determine the shape of the hook and record it as either Circle, Treble, J, Kahle or, undetermined. A hook is considered unique if any physical characteristics (e.g., shape, color, condition, or size) are dissimilar from any other hook present. On a **Circle hook**, the tip is curved back towards the shank at a 90° angle. On a **Non-circle hook**, the tip is not curved back towards the shank at a 90° angle.



3. For each unique type of hook, record whether the hook is offset (Yes/No/Unknown). On an offset hook, the tip of the hook is not in line with the eye.

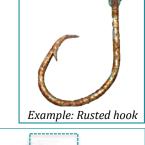


Hook (Continued)

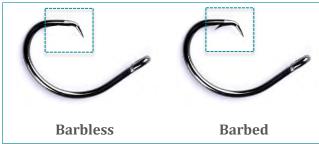
4. For each unique type of hook, record the hook's color as either silver (metallic or shiny appearance), red, grey (matte or non-shimmer), black, unknown, or other. If the color is not listed, use the other box to record the color. Hooks embedded in turtles for long periods may appear black due to a layer of oxidization. This layer can be rubbed off to reveal if the hook is silver or painted.

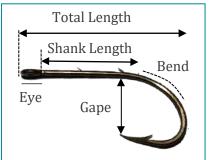


- 5. For each unique type of hook, record whether the hook is rusted or discolored.
- 6. For each unique type of hook, record whether the hook is barbless (Yes/No/Undetermined). Barbless hooks are hooks that do not have the small v-shaped metal piece at the hook's pointed end.



7. For each unique type of hook, measure and record the Total Length (mm) measurement. A metric vernier caliper is recommended for recording each hook measurement.



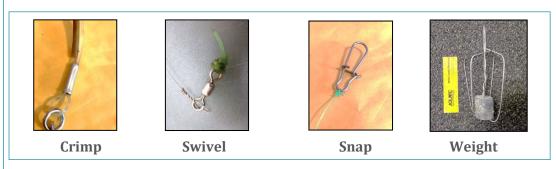


- 8. For each unique type of hook, measure and record the Shank Length (mm) measurement. The shank is the hook section from the eye's base to where the hook bend starts.
- 9. For each unique type of hook, measure and record the Gape (mm) measurement. See diagram for gape measurement illustrations.
- 10. For each unique type of hook, record whether the

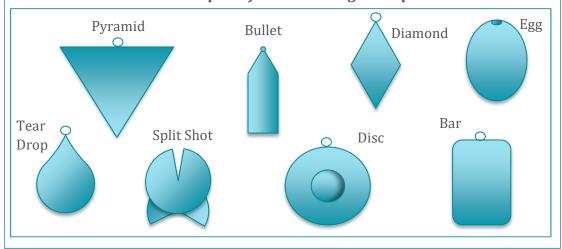
hook is magnetic (Yes/No/Undetermined). Iron is magnetic, so any metal with iron in it will be attracted to a magnet. In most cases, stainless steel hooks do not have iron in their composition and are not magnetic.

Line (≤ 0.5 cm)

- 11. Using a scale, photograph and record the number of any small diameter fishing lines (≤0.5 cm) present. Answer all subsequent line questions for each unique type of line present. A line is considered unique if any physical characteristics (e.g., material, color, condition, or diameter) are dissimilar from any other line present. Record information consistently for each unique line type and any hook type recorded (e.g., Hook type #1 connected to line type #1). If the material consists of a tangle of many types of line (> 3), only describe the most abundant line or line directly entangled to the turtle and photo-document the rest of the line.
- 12. For each line type, record the line material, either monofilament or multifilament. A monofilament line is a single piece of plastic, usually nylon. A multifilament line (e.g., braided) consists of multiple synthetic materials woven into a line.
- 13. For each line type, record the diameter of the line (mm). A metric vernier caliper is recommended for recording this measurement.
- 14. Examine the line for attachments, such as a crimp, swivel, snap, or weight. Photograph all sides of each attachment and record what attachment type is present. If a weight is present, record the shape of the weight (e.g., pyramid, egg, diamond, bar, bullet, etc.) and the weight (g).

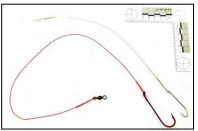


Examples of common weight shapes



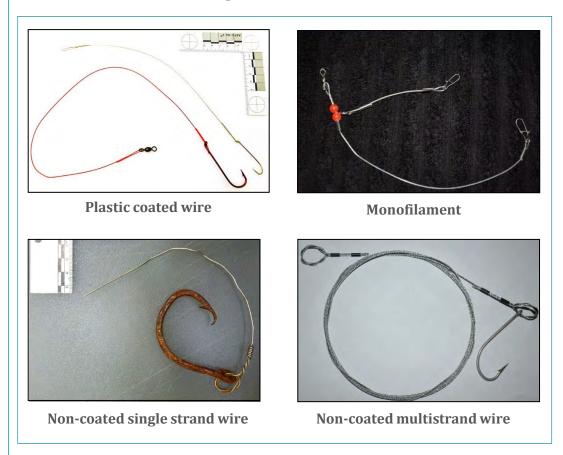
Leader

15. Using a scale, photograph, and record the number and presence of all leaders. A fishing leader is a length of fishing line (e.g., monofilament or wire) placed in between the mainline and the hook/lure. Answer all subsequent leader questions for each type of unique leader present. Record information consistently for each unique leader type and



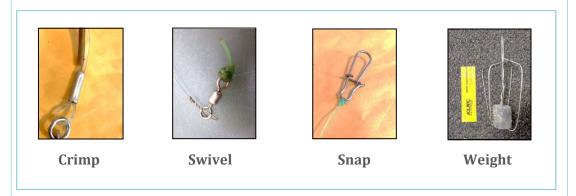
leader type and hook type recorded (e.g., Hook type #1 connected to leader type #1). If the material consists of a tangle of many types of leaders (> 3), only describe the leader that is most abundant or directly entangled to the turtle, and photo-document the remaining leaders.

16. Record the material the leader is made of; either plastic coated wire, monofilament, non-coated single strand wire, or non-coated multistrand wire.

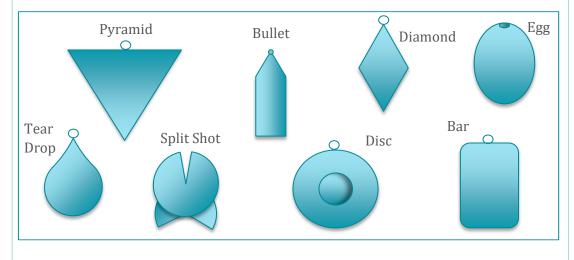


Leader (Continued)

17. Examine the leader for any attachments, such as a crimp, swivel, snap, or weight. Photograph all sides of each attachment and record what attachment type is present. If a weight is present, record the shape of the weight (e.g., pyramid, egg, diamond, bar, bullet, etc.) and the weight (g).



Examples of common weight shapes



Gear Submission

For Greater Atlantic and Southeast regions:

1. If a hook and the attached line/leader meets one (or more) of the following criteria, collect and submit the gear for additional analyses. If there is no hook present, it is not required to submit the line/leader to a Gear specialist.

Circle Hook	J Hook
If only a circle hook is present, submit if:	If a J hook is present, submit hook and
1. Silver or grey color, or rusted	any attached gear if:
If circle hook and line/leader are present, submit all gear if *:	1. Total hook length measurement is ≥7.0 cm
1. Non-coated wire leader, or	
2. Monofilament line ≥ 0.74 mm	
*Submission is not necessary for silver/ grey circle hooks attached to leaders or line that do not meet the criteria listed here.	

2. Send the gear, data collection form, and all photographs according to your regional instructions provided in the guide introduction.

Trap/Pot Gear Instructions

Start with Step 1 below to determine what information, material, and photographs should be collected. Use the Trap/Pot Gear Form (see p. 27 - 29) to record the data requested in this guide. Please send all photographs, requested information, and gear according to the regional submission instructions located at the end of this section.

Examples of common traps/pots (Left to right: Whelk pot, Lobster pot, Blue crab trap, Finfish trap)







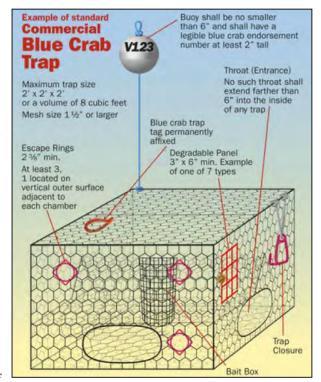


Trap/Pot

1. Take photographs of the entire trap/pot, including the bait box, cage, bag, and any associated gear, such as the surface system, rope, line and buoys. If possible, open the trap/pot door and take photographs of the internal structure, including the funnel.

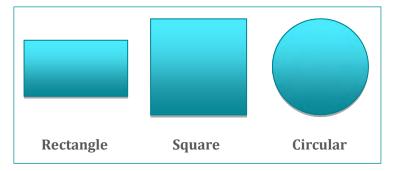
Record all materials that the trap/pot is constructed of, including plastic coated wire, galvanized wire, and rebar frame. Use the other field to record any trap/pot construction materials not listed, such as wood or plastic.

See Appendix A –example 2 for a complete photo series of Trap/Pot gear.

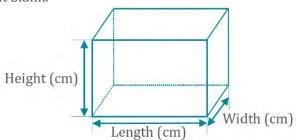


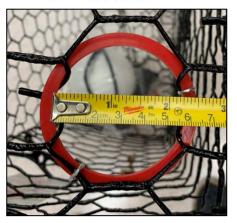
Trap/Pot (Continued)

- 2. Inspect the trap/pot overall body condition and record it as either intact, collapsed/dented, or only a fragment/piece of the original trap/pot.
- 3. Record the trap/pot frame shape as either Rectangle, Square, Circular, or use the other field to describe a unique shape (e.g., Hexagon, Octagon, Pyramid, H, etc.) from the three common shapes provided.



- 4. Measure and record the trap/pot length (cm) as indicated in the diagram. For circular-based traps/pots, record the diameter as the length measurement and leave the width measurement blank.
- 5. Measure and record the trap/pot width (cm).
- 6. Measure and record the trap/pot height (cm).
- 7. Count and record the number of escape rings present. If no rings are present, record zero.
- Measure and record the inside diameter measurement (cm) of the escape rings.
 Take a photograph of this measurement(s).





Trap/Pot (Continued)

- Record and photograph any Turtle
 Excluder Devices. These bycatch
 reduction devices are generally
 rectangular inserts, constructed of
 either plastic or metal, attached to the
 throat or funnel entrance into a
 trap/pot.
- 10. Record whether there is catch or bycatch present in the trap/pot. If present, describe the general contents of the items.
- 11. Inspect the trap/pot for a permanent identification tag. If a tag is present, photograph and record all information on the tag.

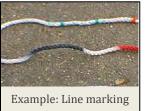


Trap/Pot ID 123456 Jane Smith 12345 Smith Rd TEXAS 77777

Line/Rope – Trap/Pot (≥0.5 cm)

- 12. Photograph and record the number of unique lines or ropes present, including photographs of the point of attachment of the line to the trap/pot and each unique line. Answer all subsequent questions for each unique type of line present. A line is considered unique if any physical characteristics (e.g., material, color, condition, markings, or diameter) are dissimilar from any other line present.
 - If the material consists of a tangle of many types of line (> 3), only describe the most abundant line or line directly entangled to the turtle and photo-document the rest of the line.
- 13. For each unique line type, record the line material, either monofilament or multifilament. If a line varies (markings, material, or color) down the length of the line, each section is considered a unique line type.
- 14. For each line type, record the diameter of the line (mm). A vernier caliper is recommended for recording this measurement.
- 15. For each line type, record the length of the line(m).
- 16. For each line type, describe the line color(s).







Line/Rope – Trap/Pot (≥0.5 cm) (Continued)

17. Examine the line for knots.

Record whether there are any knots present (Yes/No). If present, photograph and record the number of knots present.

Include photographs of any connections (e.g., knots, splices, etc.) between two ropes or a rope and a buoy.



18. Examine the line for loops.

Record whether there are any loops present (Yes/No). If present, photograph and record the number of loops present. The image to the right is an example of a line formed into a loop with the ends overlapped and hog ringed together to form a weak link.



19. Examine the line for breakaway/weak links. Weak links are made in various styles and configurations (e.g., plastic pieces, hog rings, etc.). Record whether there is a breakaway/weak link present (Y/N). If present, photograph the breakaway/weak links.



- 20. Examine the line for weights. Record whether there are any weights present (Yes/No) on the line. If present, photograph the weighted section of rope.
- 21. Examine the line for any additional attachments not previously described. If present, photograph these attachments and describe them. Use the next section to document any buoys attached to the line.



Example: Weighted line

Buoy - Trap/Pot

- 22. Photograph each buoy present and record the total number of buoys present.
- 23. Record if multiple buoys are stacked on the same line (e.g., double bullet, double acorn, or 1 bullet on top of 1 acorn).
- 24. For each unique buoy, record the buoy's shape as either round, acorn, bullet, or poly ball. If the buoy is not one of these shapes, record as other







- 25. For each unique buoy, record the color and describe any patterns.
- 26. For each unique buoy, record the condition of the buoy. The condition of each buoy can be described as good (no deterioration), fair (slight to moderate deterioration), poor (significant deterioration), or other (describe the condition).
- 27. For each unique buoy, if identification numbers are present, record whether they are illegible or legible. Photograph and record all legible numbers/alphabet letters, including old and new permit numbers.



Gear Submission

If the turtle is in the marine environment and the gear is still actively fishing, document the gear and leave the gear in place. For gear that is derelict, either displaced, lost or on a stranded beached turtle, follow the submission steps below.

For Greater Atlantic Region:

- 1. Collect all pot/trap gear (besides the pot/trap) for submission.
- 2. Send the gear requested, data collection form, and all photographs according to your regional instructions provided in the guide introduction.

For Southeast Region:

- 1. Cut a 12" section of each unique rope, include any special attachments, such as weights or breakaway links.
- 2. Send the gear requested, data collection form, and all photographs according to your regional instructions provided in the guide introduction.



Net Gear Instructions

Start with Step 1 below to determine what information, material, and photographs should be collected. Use the Net Gear Form (see p. 30 – 31) to record the data requested in this guide. Please send all photographs, requested information, and gear according to the regional submission instructions located at the end of this section.

Examples of nets (Left to right: Cast Net, Shrimp Trawl, Fish Aggregation Device)







Netting

 Take multiple photographs of the entire net or net piece stretched out. Include a scale in the photographs.
 See Appendix A – example 3 for a complete photo series of net gear.

Photograph and record whether the net is constructed of monofilament (e.g., cast net) or multifilament (e.g., shrimp trawl) material, or both.

Answer this question and all subsequent questions for each unique type of net present. A net is considered different if any of the physical characteristics (e.g., material, color, mesh length) are dissimilar.





Netting (Continued)

- 2. Measure and record the stretched length of mesh for each netting type present.
 - For knotted netting, this is the distance between the <u>centers</u> of two opposite knots in the same mesh when the net is fully stretched. To obtain this measurement, stretch the net until the sides come together and the opening is completely collapsed.



 For knotless netting, this is the distance between the <u>centers</u> of two opposite joints along its long axis when the net is fully stretched. To obtain this measurement, stretch the net until the sides come together and the opening is completely collapsed.



 Take a photograph of the netting close-up with scale; include photographs of all sizes or types of netting.



- 3. Examine the netting for any identifying marks or text and record whether any such marks are present (Yes/No). If present, photograph and document the identifying marks or text located on the netting.
- 4. Examine the net for the presence of rollers. Record whether there are any rollers present (Y/N). If present, photograph all unique rollers on the net.



Net Components

5. Examine the net for the presence of a chain. Record whether there is a chain present (Y/N). If present, photograph any chain present on the net.



6. Examine the net for the presence of any weights, including a lead line. Record whether there are weights present (Y/N). If present,



photograph each unique weight type.

7. Photograph and record any other components on the net (e.g., TED, BRD, shackles, bag rings, floats, pingers), and include the overall net location.

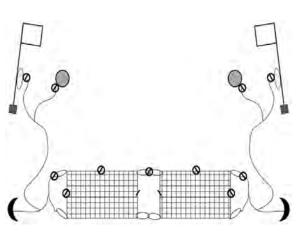


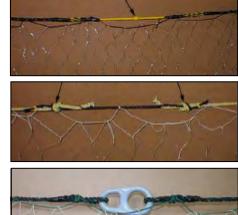




Examples of Net Components (L:R): Pinger, BRD, TED

8. Photograph and record the presence of any weak links along the floatline or net panels. The graphic below depicts a anchored gillnet gear configuration with the circle-backslash symbols depicting weak link locations in the lines and panels. The images below are examples of weak links in the float lines of the net panels.



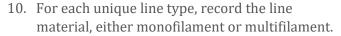


Example: Anchored gillnet gear configuration with weak links (circle-backslash)

Line – Net Gear

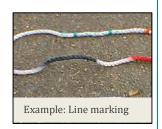
9. Photograph and record the number of unique line or ropes present with the net. Answer all subsequent questions for each unique type of line present. A line is considered unique if any physical characteristics (e.g., material, color, condition, markings, or diameter) are dissimilar from any other line present. If a line varies (markings, material, or color), each section is also considered a unique line type.

If the material consists of a tangle of many types of line (> 3), only describe the most abundant line or line directly entangled to the turtle and photo-document the rest of the line.



- 11. For each line type, record the diameter of the line (mm). The use of a caliper is recommended for this measurement.
- 12. For each line type, record the length of the line (m).
- 13. For each line type, describe and record all line colors.



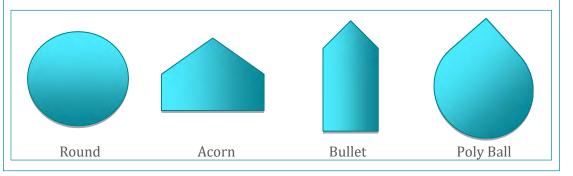




Buoy -Net Gear

- 14. Photograph each buoy present and record the total number of buoys present.
- 15. Record if there are multiple buoys stacked upon each other on the same line (e.g., double acorn, double bullet, or 1 bullet on top of 1 acorn).
- 16. For each unique buoy, record the buoy's shape as either round, acorn, bullet, or poly ball. If the buoy is not one of these shapes, record as other, and describe the shape. A buoy is considered unique if the shape, color, pattern, marking, or condition is dissimilar.





Buoy - Net Gear (Continued)

- 17. For each unique buoy, record the color and describe any patterns.
- 18. For each unique buoy, record the condition of the buoy. The condition of each buoy can be described as good (no deterioration), fair (moderate deterioration), poor (significant deterioration), or other (describe the condition).
- 19. For each unique buoy, if identification numbers are present, record whether they are illegible or legible. Photograph and record all legible numbers/alphabetletters.



Gear Submission

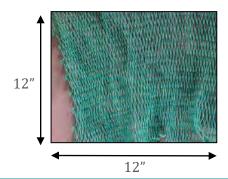
For Greater Atlantic Region:

- 1. Collect all net gear for submission.
- 2. Send the gear requested, data collection form, and all photographs according to your regional instructions provided in the guide introduction.

For Southeast Region:

- 1. Cut a section of each mesh type, measuring approximately $12" \times 12"$. If the mesh stretched length is >12", send a cut section that is 4' x 4'.
- 2. Cut a 12" section of each unique rope, include any special attachments, such as weights or breakaway links on the rope.
- 3. Send the gear requested, data collection form, and all photographs according to your regional instructions provided in the guide introduction.





Nautical Rope Instructions

The nautical rope section encompasses miscellaneous lines, buoys, and attachments of uncertain origin. Start with Step 1 below to determine what information, material, and photographs should be collected. Use the Nautical Rope Form (see p. 32-33) to record the data requested in this guide. Please send all photographs, requested information, and gear according to the regional submission instructions located at the end of this section.





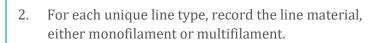


Line/Rope - Nautical Rope

1. Photograph and record the number of unique line or ropes present, including photographs of the point of attachment of the line to any non-rope material and each unique line. Answer all subsequent questions for each unique type of line present. A line is considered unique if any physical characteristics (e.g., material, color, condition, markings, or diameter) are dissimilar from any other line present.

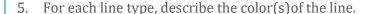


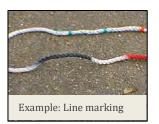
If the material consists of a tangle of many types of line (> 3), only describe the most abundant line or line directly entangled to the turtle and photo-document the rest of the line.













Line/Rope - Nautical Rope (Continued)

6. Examine the line for knots. Record whether there are any knots present (Yes/No). If present, photograph and record the number of knots present. Include photographs of any connections (e.g., knots, splices, etc.) between two ropes or a rope and a buoy.



7. Examine the line for loops. Record whether there are any loops present (Yes/No). If present, photograph andrecord the number of loops present. The image to the right is an example of a line formed into a loop with the ends overlapped and hog ringed together to form a weak link.



8. Examine the line for breakaway/weak links. Weaklinks are made in various styles and configurations (e.g., plastic pieces, hog rings, etc.). Record whether there is a breakaway or weak link present (Y/N). If present, photograph the breakaway/weak links.



Examples: off the shelf weak links

9. Examine the line for weights. Record whether there areany weights present (Yes/No) on the line. If present, photograph the weighted section of rope.



10. Examine the line for any additional attachments not previously described. If present, photograph these attachments and describe them. Use the next section to document any buoys attached to the line.

Buoy - Nautical Rope

- 11. Photograph any buoy present, including any unique markings or text, and record the total number of buoys present.
- 12. Record if multiple buoys are stacked on the same line (e.g., double acorn, double bullet, or 1 bullet on top of 1 acorn).



13. For each unique buoy, record the buoy's shape as either round, acorn, bullet, or poly ball. If the buoy is not one of these shapes, record as other and describe the shape. A buoy is considered unique if the shape, color, pattern, marking, or condition is dissimilar.



- 14. For each unique buoy, record the color and describe any patterns.
- 15. For each unique buoy, record the condition of the buoy. The condition of each buoy can be described as good (no deterioration), fair (slight to moderate deterioration), poor (significant deterioration), or other (describe the condition).
- 16. For each unique buoy, if identification numbers are present, record whether they are illegible or legible. Photograph and record all legible numbers/alphabet letters.



Gear Submission

For Greater Atlantic Region:

- 1. Collect all gear for submission.
- 2. Send the gear requested, data collection form, and all photographs according to your regional instructions provided in the guide introduction.

For Southeast Region:

- 1. Cut a 12" section of each unique rope, include any special attachments, such as weights or breakaway links.
- 2. Send the gear requested, data collection form, and all photographs according to your regional instructions provided in the guide introduction.



Gear Characterization and Submission Reference Guide

NET GEAR NAUTICAL ROPE HOOK AND LINE TRAP/POT GEAR HOOK NETTING LINE/ROPE TRAP/POT Record and Record and Record and Record and Photograph: **Photograph:** Photograph: Photograph: • Material Shape Material Material Identifying marks Offset Condition • Color(s) Weak links • Color Knots Shape Rusted/discolored • Escape ring • Loops Measure: Barbless Weak links • TED Stretched mesh Weight Catch/bycatch length (cm) Measure: Tag information Attachments Total length (cm) **COMPONENTS** Shank length (cm) Measure: • Gape (cm) Measure: Diameter (mm) Record and Length (cm) Photograph: Length (m) LINE Width (cm) Rollers Height (cm) Chain **BUOY** Record and Ring diameter (cm) Weights Photograph: Other components Record and Material TRAP/POT LINE - O **Photograph:** Attachments LINE Shape Weight Shape Record and Color/pattern Weight(g) Photograph: Record and Condition **Photograph:** Material • Identification marks **Measure** • Color(s) Material • Line diameter (mm) • Knots • Color(s) Loops Weak links **GEAR SUBMISSION LEADER** Weak links Л **Measure:** Weight Record and Diameter (mm) Attachments GAR: Send all gear Photograph: SER: Send a 12" • Length (m) Material Measure: length of each unique rope, Attachments Diameter (mm) **NET BUOY** include special Weight Shape · Length (m) attachments Weight (g) Record and **Photograph:** TRAP/POT BUOY **GEAR SUBMISSION** Shape Q. Color/pattern Record and SER & GAR: If a hook Condition **Photograph:** and the attached Identification marks Shape line/leaders meets Color/pattern one or more of the **GEAR SUBMISSION** Condition followingcriteria, submit the gear: Identification marks GAR: Send all gear If a Circle Hook: **SER:** Send 12 x 12" • Silver or grev. or cut section of each **GEAR SUBMISSION** rusted appearance mesh type. If straight Non-coated wire mesh length >12" leader GAR: Send all gear send 4' x 4' piece. If a Monofilament (minus the pot) line/rope is present. line ≥0.74mm **SER:** If a line/rope is send a 12" length of present, send a 12" each unique rope, • If a J Hook: length of each unique include special • Total length ≥ 7.0cm rope, include special attachments

attachments

OMB #0648-0496 Exp Date: XX/XX/20XX

Sea Tu	urtle Stra	andin	g and Salvage Ne	etwor	k – Hook	and Fishing L	ine G	iear Forr	n
All fishing gear removed from a sea turtle by the Sea Turtle Stranding and Salvage Network should be documented using this form. Depending on the gear type, all or specific parts of the gear may be requested to be shipped to a NOAA or state gear specialist. Please include this form with gear submission.									
Shipping Date		Stranding ID Number							
Stranding Location:	State			Info	Contact rmation:	First Name			
Latitude					Las	st Name			
Longitude					Phone I	Number			
				I					
Hook									
1. Is there a	hook(s) p	resen	t? 🔲 No) [] Yes, #	present:			
If yes, answer the following questions for each unique			Type #1		Ту	 pe #2		Type #	‡3
hook present.			☐ Circle ☐ T	reble	☐ Circle	r □ Treble		Circle 🗆] Treble
2. What shape is the hook?			□ J □ Kahle	è		Kahle	□ J	□ K	ahle
THOUR.			☐ Undetermined		□ Unde	termined		Jndeterm	nined
			□ No □ Ye	es	□ No	☐ Yes		No 🗆] Yes
3. Is the hool	k offset?		□ Unknown		□ Unkno	own		Jnknown	
			☐ Silver ☐ R	ed	□ Silver	□ Red		Silver 🗆] Red
4. What colo	r is the h	ook?	□ Grey □ B	lack	□ Grey	□ Black		Grey □] Black
			□ Unknown		□ Unkno	own		Jnknown	
			□ Other:		□ Other	·:		Other:	
5. Is the hook rusted or discolored?		or	□ No □ Yes		□ No	□ Yes		No 🗆	Yes
6. Is the hoo	k barbles	s?	□ No □ Yes		□ No	□ Yes		No 🗆	Yes
			☐ Undetermine	d	□ Unde	termined		Undeter	mined
7. What is th (mm)?		ength							
8. What is th Length (m									
9. What is th (mm)?	ne Gape								
10. Was the h	iook magi	netic?	□ No □ Ye □ Undetermine		□ No □ Und	☐ Yes letermined		No I Undeter	□ Yes mined

Line						
11. Is there a line presen		□Yes, # present:				
If yes, answer the following	ng questions for each uniq	ue line:				
	Type #1	Type #2	Type #3			
12. What material is the	☐ Monofilament	☐ Monofilament	☐ Monofilament			
line?	☐ Multifilament	☐ Multifilament	☐ Multifilament			
13. What is the line diameter (mm)?						
14 6-1+ :	☐ Snap ☐ Crimp	☐ Snap ☐ Crimp	☐ Snap ☐ Crimp			
14. Select if present (select all that apply). If	☐ Swivel ☐ Weight:	☐ Swivel ☐ Weight:	□ Swivel □ Weight:			
weight(s) present, provide shape and	Shape:	Shape:	Shape:			
weight (g).	Weight (g):	Weight (g):	Weight (g):			
Leader						
15. Is there a leader pr	esent? \square No \square	Yes, # present:				
If yes, answer the followi	ng questions for each uniq	ue leader:				
	Type #1	Type #2	Type #3			
16. What material is the	☐ Plastic Coated Wire	☐ Plastic Coated Wire	☐ Plastic Coated Wire			
leader made of?	☐ Monofilament	☐ Monofilament	☐ Monofilament			
	☐ Non-coated Single	☐ Non-coated Single	☐ Non-coated Single			
	Strand Wire	Strand Wire	Strand Wire			
	☐ Non-coated Multistrand Wire	☐ Non-coated Multistrand Wire	☐ Non-coated Multistrand Wire			
17. Select if present	☐ Crimp ☐ Swivel	☐ Crimp ☐ Swivel	☐ Crimp ☐ Swivel			
(select all that apply).	·	·	·			
If weight(s) present, provide shape and	☐ Snap ☐ Weight: Shape:	☐ Snap ☐ Weight: Shape:	□ Snap □ Weight: Shape:			
weight (g).	Weight (g):	Weight (g):	Weight (g):			
For Gear Specialist	Only – please attach any a	dditional notes related to	the gear evaluation			
Gear examined by:						
The gear is determined to be: ☐ Commercial ☐ Recreational ☐ Undetermined						
Can the gear be attributed to a fishery? □ No □ Yes:						
If a crimp is present, how was it applied? Mechanical Hand-crimp Undetermined						
If leader present, is it premanufactured? □ No □ Yes						
If a hook is present, is it:	□ No	on-stainless steel 🗆 Stainle	ess steel 🗆 Undetermined			
Comments:						

Sea Turtle Stranding and Salvage Network – Trap/Pot Gear Form							
All fishing gear removed from a sea turtle by the Sea Turtle Stranding and Salvage Network should be documented using this form. Depending on the gear type, all or specific parts of the gear may be requested to be shipped to a NOAA or state gear specialist. Please include this form with gear submission.							
		Strandir	ng ID Nu	ımber			
State			Info	Contact mation:	First Name		
				Lâ	ast Name		
				Phone	Number		
			I				
I. What is the trap/pot constructed of?□ Plastic Coated Wire □ Rebar Frame (Select all that apply): □ Galvanized Wire □ Other:					Frame		
trap/pot	condition?		Intact		ollapsed/	/Dented	☐ Fragment
trap/pot	t frame shape	:? □	Rectang	;le □:	Square	□Circ	cular
			Other:				
trap/po	t length (cm)?	?					
trap/pot	width (cm)?						
6. What is the trap/pot height (cm)?							
7. How many escape rings?							
8. What is the inside diameter of the rings (cm)?							
9. Is there a Turtle Excluder Device? \(\subseteq \text{No} \) \(\subseteq \text{Yes} \)							
10. Is there catch/bycatch present? ☐ No ☐ Yes, describe:							
11. If tag present, record information:							
	emoved ng this for shipped State trap/potent apply trap/potent a	emoved from a sea turng this form. Dependir shipped to a NOAA or State trap/pot constructed at apply): trap/pot condition? trap/pot frame shape trap/pot length (cm)? trap/pot width (cm)? trap/pot height (cm)? scape rings? inside diameter of the rtle Excluder Device?	emoved from a sea turtle by the shipped to a NOAA or state gears at a state gears. Stranding Stranding Stranding Stranding Stranding Stranding Stranding Strap/pot constructed of? trap/pot condition? trap/pot frame shape? trap/pot length (cm)? trap/pot width (cm)? trap/pot height (cm)? scape rings? inside diameter of the rings (capable frame) shape shape? Inside diameter of the rings (capable frame) shape shape? Inside diameter of the rings (capable frame) shape sh	emoved from a sea turtle by the Sea Turning this form. Depending on the gear typishipped to a NOAA or state gear special Stranding ID Nu State	emoved from a sea turtle by the Sea Turtle Stranding this form. Depending on the gear type, all or spending probabilities on the gear specialist. Please Stranding ID Number Stranding ID Number	emoved from a sea turtle by the Sea Turtle Stranding and S ng this form. Depending on the gear type, all or specific par shipped to a NOAA or state gear specialist. Please include to Stranding ID Number Contact Information: Name	emoved from a sea turtle by the Sea Turtle Stranding and Salvage Netrong this form. Depending on the gear type, all or specific parts of the geshipped to a NOAA or state gear specialist. Please include this form with shipped to a NOAA or state gear specialist. Please include this form with shipped to a NOAA or state gear specialist. Please include this form with shipped to a NOAA or state gear specialist. Please include this form with shipped to a NOAA or state gear specialist. Please include this form with shipped to a NOAA or state gear specialist. Please include this form with shipped th

Line/Rope - Trap/Pot Gear							
12. Is there a line present? No Yes, # present:							
If yes, answer the following questions for each line type present.							
Type #1	Type #1 Type #2						
☐ Monofilament	☐ Monofilament	☐ Monofilament					
☐ Multifilament	☐ Multifilament	☐ Multifilament					
□ No	□ No	□ No					
☐ Yes, number:	☐ Yes, number:	☐ Yes, number:					
□ No	□ No	□ No					
☐ Yes, number:	☐ Yes, number:	☐ Yes, number:					
□ No □ Yes	□ No □ Yes	□ No □ Yes					
□ No □ Yes	□ No □ Yes	□ No □ Yes					
□ No	□ No	□ No					
☐ Yes, describe:	☐ Yes, describe:	☐ Yes, describe:					
	Type #1 Monofilament Multifilament No Yes, number: No Yes, number: No Yes, number:	Type #1 Type #2 Monofilament Monofilament Multifilament Multifilament No No Yes, number: Yes, number: No No Yes, number: Yes, number: No Yes, number: No Yes, number:					

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0648-0496. Without this approval, we could not conduct this information collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection reducing this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the NOAA National Marine Fisheries Service, Office of Protected Resources, Attn: Stacy Hargrove (stacy.hargrove@noaa.gov).

Buoy- Trap/Pot Gear						
22. Is there a buoy? ☐ No ☐ Yes, # present:						
If <i>yes,</i> answer the next q	uestions for each bu	uoy type present.				
23. Are the buoys stacked?	□ No □ Yes, order of stacking:					
	Type #1	Type #2	Type #3			
24. What is the shape	☐ Round ☐ Ac					
of the buoy?	□ Bullet □ Po Ba		□ Bullet □ Poly Ball			
	□ Other:	☐ Other:	□ Other:			
25. Describe the buoy color and pattern:						
26. What is the	☐ Good ☐ Fair	Good □ Fair	☐ Good ☐ Fair			
condition of the buoy?	□ Poor	□ Poor	□ Poor			
	□ Other:	□ Other:	☐ Other:			
27. What is the condition of ID	□ Illegible	□ Illegible	☐ Illegible			
number(s)/letter(s)?	☐ Legible, record	I: ☐ Legible, record:	☐ Legible, record:			
For Gear Specialist C	Only – please attach	any additional notes related t	o the gear evaluation			
Gear examined by:						
The gear is determined to	o be:	☐ Commercial ☐ Recreat	ional 🗆 Undetermined			
Can the gear be attributed to a fishery? \square No \square Yes:						
What material is the line/rope? □ Braided □ Nylon □ Polypropylene						
		☐ Other:				
What is the bait door/well type?		□ Inverted □ Wire Panel Lid	☐ Missing ☐ Lidless			
Was the bait door/well o	pen? [□ No □ Yes				
Comments:						

Sea Turtle Stranding and Salvage Network - Net Gear Form All fishing gear removed from a sea turtle by the Sea Turtle Stranding and Salvage Network should be documented using this form. Depending on the gear type, all or specific parts of the gear may be requested to be shipped to a NOAA or state gear specialist. Please include this form with gear submission. Shipping Date Stranding ID Number Stranding Contact First State Location: Information: Name Latitude Last Name Phone Number Longitude **Netting** Type #1 Type #2 Type #3 Monofilament Monofilament Monofilament What type of net material? Multifilament Multifilament Multifilament 2. What is the stretched mesh length (cm) for each netting type? □No □ Yes, describe: □No □ Yes, describe: \square No \square Yes, describe: 3. Were there identifying marks/text? **Net Components** Type #2 Type #3 Type #1 □No □ Yes □No □ Yes □No□ Yes 4. Are there rollers present? □No □ Yes □No□ Yes □No □ Yes 5. Is there a chain present? □No □ Yes □No □ Yes □No □ Yes 6. Are there weights present? □No □ Yes □No□ Yes □ No □ Yes 7. Are there other components? 8. Are there weak links present? П По П Yes П По П Yes □No □ Yes Line 9. Is there a line present? No ☐ Yes, # present: If yes, answer the following questions [Type #1 Type #2 Type #3 for each line type present. 10. What material is the line? ☐ Monofilament ☐ Monofilament ☐ Monofilament ☐ Multifilament ☐ Multifilament ☐ Multifilament 11. What is the line diameter (mm)? 12. What is the line length (m)?

13. What is the color of the line?

Buoy - Net Gear						
14. Is there a buoy? No Yes, # present:						
If yes, answer the next q	uestions for each buoy ty	pe present.				
15. Are the buoys stacked?	□ No □ Yes, order of stacking:					
	Type #1	Type #2	Type #3			
16. What is the shape of the buoy?	☐ Round ☐ Acorn ☐ Bullet ☐ Poly Ball	☐ Round ☐ Acorn ☐ Bullet ☐ Poly Ball	☐ Round ☐ Acorn ☐ Bullet ☐ Poly Ball			
	☐ Other:	☐ Other:	□ Other:			
17. Describe the buoy color and pattern:						
18. What is the	☐ Good ☐ Fair	☐ Good ☐ Fair	☐ Good ☐ Fair			
condition of the	□ Poor	□ Poor	□ Poor			
buoy?	□ Other:	☐ Other:	□ Other:			
19. What is the condition of ID number(s)/	☐ Illegible	□ Illegible	□ Illegible			
letter(s)?	☐ Legible record:	☐ Legible, record:	☐ Legible, record:			
For Gear Specialist (Only – please attach any a	dditional notes related to	the gear evaluation			
Gear examined by:						
The gear is determined to	be: Co	mmercial 🗆 Recreation	al 🗆 Undetermined			
Can the gear be attribute	d to a fishery?	o □ Yes				
Was the netting (select all that apply): ☐ Trawl ☐ Chafe ☐ Elephant Ear						
☐ Gillnet ☐ Other, describe:						
Was the netting material: ☐ Monofilament ☐ Nylon ☐ Polypropylene						
Where there any gill net tie-downs present?:						
Comments:						

Sea Turtle Stranding and Salvage Network – Nautical Rope Form All fishing gear removed from a sea turtle by the Sea Turtle Stranding and Salvage Network should be documented using this form. Depending on the gear type, all or specific parts of the gear may be requested to be shipped to a NOAA or state gear specialist. Please include this form with gear submission. Shipping Date Stranding ID Number Stranding Contact First State Location: Information: Name Last Name Latitude Phone Number Longitude Line/Rope 1. Is there a line present? No ☐ Yes, # present: If yes, answer the following questions for each line type present. Type #1 Type #2 Type #3 2. What material is the line? ☐ Monofilament ☐ Monofilament ☐ Monofilament ☐ Multifilament ☐ Multifilament ☐ Multifilament 3. What is the line diameter (mm)? 4. What is the line length (m)? 5. What is the color of the line? 6. Are there knots present? П По П No П По ☐ Yes, number: ☐ Yes, number: ☐ Yes, number: 7. Are there loops present? □ No □ No □ No ☐ Yes, number: ☐ Yes, number: ☐ Yes, number: 8. Are there breakaway/weak links? ☐ Yes ☐ Yes □ No □ No П Yes □ No 9. Are there any weights present? ☐ Yes ☐ Yes □ No Yes Νo

□ No

☐ Yes, describe:

10. Are there any attachments?

□ No

☐ Yes, describe:

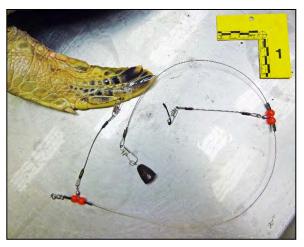
□ No

☐ Yes, describe:

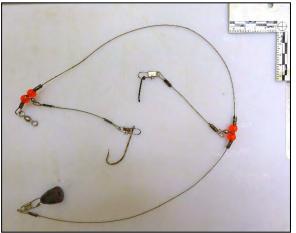
Buoy - Nautical Rope Ge	ear						
11. Is there a buoy? ☐ No ☐ Yes, # present:							
If <i>yes</i> , answer the next questions for each buoy type present.							
12. Are the buoys stacked?	□ No □ Yes, order of stacking:						
	Type #1	Type #2	Type #3				
13. What is the shape	☐ Round ☐ Acorn	☐ Round ☐ Acorn	☐ Round ☐ Acorn				
of the buoy?	□ Bullet □ Poly Ball	□ Bullet □ Poly Ball	□ Bullet □ Poly Ball				
	☐ Other:	☐ Other:	□ Other:				
14. Describe the buoy color and pattern:							
15. What is the	☐ Good ☐ Fair	☐ Good ☐ Fair	☐ Good ☐ Fair				
condition of the buoy?	□ Poor	□ Poor	□ Poor				
,	☐ Other:	□ Other:	□ Other:				
16. What is the condition	□ Illegible	□ Illegible	☐ Illegible				
of ID number(s)/ letter(s)?	☐ Legible, record:	☐ Legible, record:	☐ Legible, record:				
For Gear Specialist (Only – please attach any ac	dditional notes related to	the gear evaluation				
Gear examined by:							
The gear is determined t	o be:	ommercial 🗆 Recreatio	nal 🗆 Undetermined				
Can the gear be attribute	ed to a fishery? \square No	o □ Yes:					
What material is the line/rope? □ Braided □ Nylon □ Polypropylene							
	□ O ⁻	ther:					
Comments:							

Appendix A. Complete Gear Photo Series

Example 1: Hook and Line Gear

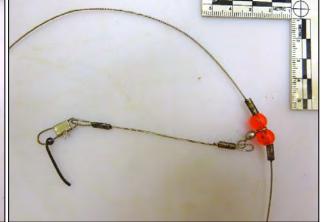


Example: Green turtle with embedded hook attached to a leader and multiple accessories.



Complete photo: Take a photo that shows all of the gear/tackle with a ruler or scale. Use a dark background for light colored or transparent line. *Please do not use objects (e.g., coins, instruments), in lieu of a numeric scale.*





Configuration photos: Take closer images of all aspects of the material to clearly show how they are attached or arranged. Always include an internal ruler or scale.

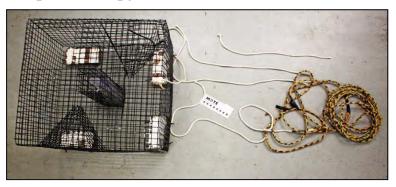




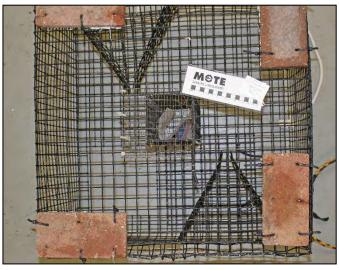
Example 2: Trap/Pot Gear

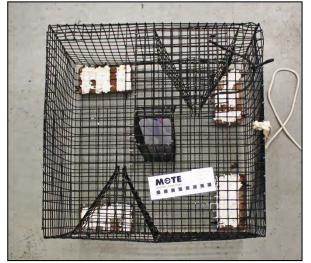


Example: Loggerhead turtle entangled in trap/pot gear.

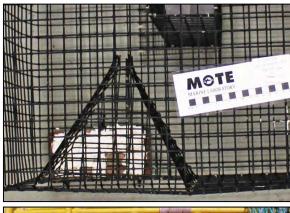


Complete photo: Take a photo that shows all the gear as intact as possible with a ruler or scale. Include any lines, weights, or floats. *Please do not use objects (e.g., coins, instruments), in lieu of a numeric scale.*





Trap photos: Take photos of <u>multiple sides</u> of the pot/ trap to clearly show its size and shape and any features, such as openings, escape rings and bait holders.





Trap component close-ups: Take closer images of any tags, identifiers/numbers, openings, other trap



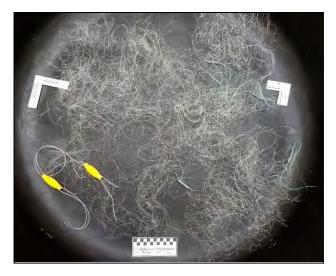


Buoy and line: Take photos of buoys and line. Include close-ups of any knots, loops, weak links, numbers/identifiers, or other components.

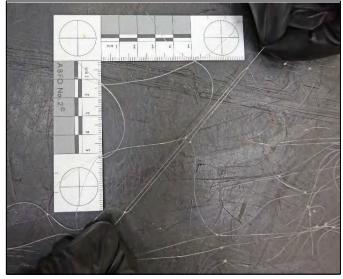
Example 3: Net Gear



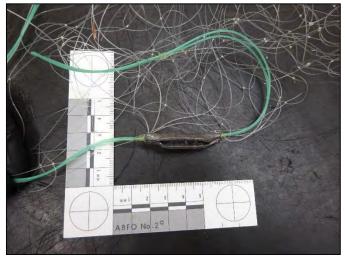
Example: Green turtle entangled in monofilament gillnet.



Complete photo series: Take a photo that shows all the netting as intact as possible with a ruler or scale. Spread out the netting as much as possible. Use a dark background for transparent netting. Include any lines, including unique lines tied together, markings, weights, buoys, or floats. Please do not use objects (e.g., coins, instruments) instead of a numeric scale.



Measure stretched length of mesh: Continue pulling the mesh until fully stretched and the sides have come together. Measure the distance between the centers of the two opposite knots.



Component photos: Take closer images of any floats, weights, and attachments and the associated mesh and line. Always include an internal ruler or scale.

