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Trinidad longliner, 2005, FAO Fisheries Technica Paper. No. 482



Demersal longlining is global



#### Objectives

seafoods

- Define demersal longlining & describe 1 potential impact
- Describe 3 components of demersal longline gear
- List 2 types of specialized equipment you may encounter
- Demonstrate ability to complete the Gear Description form

#### What is demersal longlining?

- Hook & line gear uses bait to attract fish in on or near bottom
- □ Usually on continental shelf or slope



## What is demersal longlining?

□ Hook & line gear – uses bait to attract fish on or near bottom

- Usually on continental shelf & slope
- □ Primary targets: gadiiformes, sharks



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□ Bait = fish or squid depending on target



## What is demersal longlining?

- □ Hook & line gear uses bait to attract fish on or near bottom
- □ Usually on continental shelf & slope
- □ Primary targets: gadoids, sharks
- □ Bait = fish or squid depending on target
- Fishery impacts bycatch of seabirds, sharks, coral



### Data collection priorities

- 1. Estimate effort for each gear deployment;
- 2. Identify every individual caught in subsample and estimate percent retained;
- Collect biological information on target and other identified species as requested;
- 4. Record all sightings and interactions with marine mammals and sea turtles;
- 5. Record vessel and fishing gear characteristics.

































, III	Gear Description Form Gear Description - Demersal Longline								
	Lines	Type Ma	Dian terial (m	neter Bre	saking gth (kg) #st	trands Co	lor (	Comments	
	Groundline	1			gui (kg) # oi		······································	- CATIFICATING	
	Gangion	1							
	Gangion	2							
	Dropper	1							
	Material Codes		Steel wire	(	Color codes	4 Green	7 Clear	10 Other	
	2 Multiflamer 3 Cotton		Other:		2 Pink 3 Black	5 Dive 6 Red	8 Orange 9 Yellow	11 Multi-color	
					o bialdk	U Red	Vitelow		
	Hooks		Aanufacturer	Model/p	attern	Size	Material	Offset	N
		1		+					
		3		+					

Gear Description Form									
Floats			Weights						
Type SI 1 2 3 Float shapes Bullet Cylinder	Oval Round Cigar	Material T Other (describe):	Type Material	Weight (kg)					
	Location tance from sternm ance from sternm		Propeller up-wash Propeller down-wash						







#### Gear Description Form

- □ Questions about gear or the gear form?
- □ Practice exercise
  - Groups of 3-4
  - 10 minutes to complete Gear Description Form
  - Break 10 minutes
  - Discuss exercise

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# Summary

- Describe the difference between demersal & semi-pelagic longlining
- □ What are the potential impacts of this fishery?
- Describe 3 components of demersal longline gear
- □ List 2 types of specialized equipment you may encounter on demersal longline vessels

#### **Activity - Gear Description Form – Demersal longline**

Gather in groups. Use your manual, the gear we're passing out and the information that follows to complete the Gear Description form.

Your observer code is Z007 and you are aboard the f/v Rainy Days (code SLE005). This is trip 24.

The vessel did not use any floats but regularly attached rocks to the gear to keep it on the bottom. You weighed 25 of the rocks to get an average weight. Your weights are as follows:

4.8	5.9	5.62	5.36	5.48
4.8	5.8	5.13	5.4	5.5
5.6	4.9	5.4	5.36	4.87
4.3	5.1	4.98	5.06	4.97
5.2	5.2	5.6	5.33	5.54

The smiley face in the diagram below indicates the location of the setting station and the propeller is turning clockwise.



The vessel uses a mainline hauler every set. The vessel occasionally deployed 50m of 3-strand blue polypro line with packing straps attached every 2 m. There was small (0.3m diameter) float attached to the end for drag.

#### Gear Description - Demersal Longline

Observer code			V	essel code					Trip ID		l	
Lines			Diamete	er Brea	aking							
	Туре	Material	(mm)	streng		# strands	Co	lor		Comme	nts	
Groundline	1	<b></b>	<b> </b>									
Gangion	1		ļ									
Gangion	2		L									
Dropper	1		L									
			 I									
Material Codes	<u> </u>	· · · · · ·		 Cc	olor code	es.						
1 Monofilamer 2 Multifilamen		4 Steel	wire r:		1 White 2 Pink	e 4	Green Blue		7 Clear 8 Orang		Other Multi-co	lor
3 Cotton	l	o Guion			3 Black		Red		9 Yellov	-	Iviuiti <sup>-</sup> co	101
	T					0:				0//	-	
Hooks	Type 1	Manufa	acturer	Model/pa	ittern	Size	[	IVIa	aterial	Offset	t	
	2										$\neg$	
	3											
Model/pattern typ	Tuna       J-hook       Circle       Other (describe):											
Floats						Weig	ghts					
Туре 1 2 3	Sha	pe	Dimensio	ns Mate	erial		Туре 1 2 3	Ma	aterial	Weight (	<u>kg)</u>	
Float shapes												
Bullet Cylir	nder	Oval	Round C	Ň	ther							
	9		$\bigcirc$		escribe):							
Gear Deployn	nent Lo	ocation										
Stern Stbd Port	d, distai	nce from ຄ າce from s	stern stern	m m		Prope						

Other Equipment					
				Usage	]
Mainline hauler	Υ	/	Ν		
Line shooter	Υ	/	Ν		
Autobaiting machine	Υ	/	Ν		
Setting tube	Υ	/	Ν		
Weighing scales	Υ	/	Ν		
Other:	Y	/	Ν		
Other:	Υ	/	Ν		
Other:	Υ	/	Ν		
Other:	Y	/	N		]
Other:	Υ	/	N		

#### **Usage Codes**

- 1 Used continuously during fishing
- 2 Used often during fishing
- 3 Used sometimes during fishing
- 4 Broken during this trip but used normally
- 5 Rarely used
- 6 Used only during transit
- 7 No longer used
- 8 Unknown

#### Seabird Mitigation

Describe all techniques and equipment to deter birds from hooks during the set (e.g. streamer lines) and haul (e.g. bird curtain). Include diagrams with measurements of streamer lines and other equipment as necessary. Set

Haul

Comments

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