

Introduction

- What is marine debris?
- Video



Objectives

- Determine when a Marine Debris Encounter form is required
- Demonstrate your ability to complete the Marine Debris form

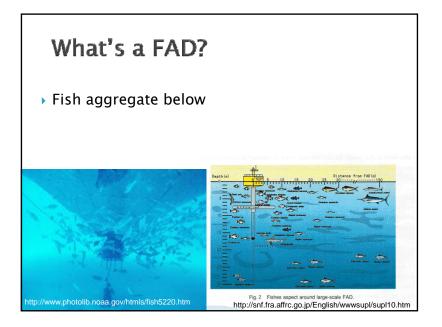
Marine Debris Encounter form

- Gear & vessel interactions
 - Longline, gillnet, purse seine > each encounter
 - Trawl > vessel interactions only

This infor	Marine Debris En nation is being used to help determine the e		
		Page	of
Observer code	Vessel code	Trip ID Haul No.	
	ounter with Debris (includes ve		
Date (dd/mm/yy) Time (24-h	r) Lat-Deg Lat-Min N L	ong-Deg Long-Min E	
	S	w	
Incident Type (check on	e or more):		
Gear Interaction		Entangled Species Caud	aht (o.a
Geal interaction	vessel interaction	entangled fish)	giit (e.g.,
Debris Type (check one	or more):		
Net:	Cloth	Plastic packing straps	
Rope	Plastic sheeting	Floats / buoys	
Monofilament lin	e Plastic bags	FAD (fish aggregating d	evice)
Metal (describe)	:		
Other (describe)	·		
Biota Type (check one of	r more and list species names it	known):	
Fish			
Crustaceans			
Encrusting orga	nisms		
No biota/organis	ms present		

Observer code		Vessel				Trio ID	Page	of
Observer code		Vesse	code			Trip ID	Haul No.	
Time & Position							nals)	
Date (dd/mm/yy)	Time (24-hr)	Lat-Deg	Lat-Min	N I	ong-Deg	Long-Min	E / W	
Incident Type (d	check one or	more):						
Gear Int	eraction	Ves	ssel Interact	ion		Entangled S		ght (e.g.,
Debris Type (ch	eck one or n	nore):						
Net:			Cloth			Plastic pack	ing straps	
Rope			Plastic she	eting		Floats / buo	ys	
Monofila	ament line		Plastic bag	s		FAD (fish ag	ggregating o	device)
Metal (d	escribe):			_				
Other (d	lescribe):			_				
Biota Type (che Fish	ck one or m	ore and li	st species n	ames i	f known):		
Crustac	eans							
	ing organism							

This infor	mation is being used to help determine the economic cost of marine debris impacts.	
Observer code	Vessel code Trip ID Haul No.	
Time & Position of Enc Date (dd/mm/yy) Time (24-I	counter with Debris (includes vessel, gear and animals) hr) Lat-Deg Lat-Min N Long-Deg Long-Min E / S W	
Incident Type (check or		a
Debris Type (check one	entangled fish)	
Net:		
Rope	Plastic sheeting Floats / buoys	
Monofilament lin	ne Plastic bags FAD (fish aggregating device)	
Metal (describe)):	
Other (describe)):	
Biota Type (check one o	or more and list species names if known):	
Crustaceans		
Encrusting orga	nisms	
No biota/organis		



FADs Fish aggregate below Floating objects – natural & man-made http://www.dennisalbert.com/2004/March.htm http://oceanexplorer.noaa.gov

=	a):
Other (describe	9):
Biota Type (check one Fish	or more and list species names if known):
Crustaceans	
Encrusting org	anisms
No biota/organ	isms present
	nt type and debris object/material (describe the type of incident in more n, length, colors and biota living on the debris):
detail, diameter or width	n, length, colors and biota living on the debris):
detail, diameter or width	n, length, colors and biota living on the debris): Photos: Y / N Brought onboard for disposal: Y / N
detail, diameter or width	n, length, colors and biota living on the debris): Photos: Y / N Brought onboard for disposal: Y / N
detail, diameter or width Weight (kg): Length of downtime (l	photos: Y / N Brought onboard for disposal: Y / N me and cost (describe what was done during downtime (e.g. propeller
Weight (kg): Length of downtime (I	photos: Y / N Brought onboard for disposal: Y / N me and cost (describe what was done during downtime (e.g. propeller

FADs Fish aggregate below Floating objects natural & man-made Allows tracking of objects http://forman.en.ec21.com/

Monofilan		Plastic bags			sh aggregat	ing device,	
Metal (de	scribe):						
Other (de	scribe):						
Biota Type (check	one or more	and list species nan	nes if kno	own):			
Crustacea	ins						
Encrusting	g organisms						
No biota/o	organisms pre	esent					
		nd debris object/m , colors and biota livi			type of inci	ident in more	е
detail, diameter or	width, length,	, colors and biota livi	ng on the	e debris):			
detail, diameter or Weight (kg):	width, length,	, colors and biota livi	ng on the	e debris):			
detail, diameter or Weight (kg): Length of downti	width, length,	, colors and biota livi	Brou	e debris):	ard for dispo	sal: V / I	
detail, diameter or Weight (kg): Length of downti	width, length,	hotos: Y / N	Brou	e debris):	ard for dispo	sal: V / I	
detail, diameter or Weight (kg): Length of downti Description of do	width, length,	hotos: Y / N	Brou	e debris):	ard for dispo	sal: V / I	
detail, diameter or Weight (kg): Length of downti Description of do	width, length,	hotos: Y / N	Brou	e debris):	ard for dispo	sal: V / I	

Activity

- Use information on handout to complete a Marine Debris Encounter form
- ▶ 5–10 minutes

Summary

- Would you need a Marine Debris Encounter form for...
 - Plastic sheeting caught in the trawl net?
 - Abandoned gillnet caught in the prop
 - Crab pot entangled with your demersal longline?
- Gear or vessel interaction for above?
- Thanks to Carey Morishige (NOAA Marine Debris Program, Honolulu, HI) for assistance with form design and development.

Activity – Marine Debris Encounter form

Name:

Observer code: GRR334 Vessel code: LIB 9997

Trip ID: 347 Haul: 21

On May 12, 2011, you are waiting to sample when the tension on the trawl warps suddenly gets noticeably tighter at 12:30pm. The captain immediately slows down and begins to retrieve the gear thinking he may have snagged a rock on the bottom. The position is 145° 22.3 W / 4°34.5 S. When the net comes up at 13:15, the starboard door and some of the cable has a FAD entangled in it. Part of the trawl mouth was also obstructed. The FAD is a bamboo raft-type and consists of ~15 pieces of bamboo with dimensions of 2x3meters. There is also a fair amount of netting clumped (although probably once hung underneath) next to the raft. The netting is made of some sort of orange synthetic line (<4mm) and has a mesh size of ~8cm. The net may have originally hung down 50 meshes or so. There are a few fish entangled in the netting but you are unable to determine the species due to deterioration.

It took the crew about 1 hour to cut out the FAD which the captain estimated as 'costing' about \$50 in down time. There was no permanent damage to the fishing gear. No photos were taken & the raft & netting were thrown overboard.

Marine Debris Enocunter

This information is being used to help determine the economic cost of marine debris impacts.

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ncident Type (che	eck one or mo	ore):			
Gear Intera	action	Vessel Interaction	on	Entangled Spentangled fis	pecies Caught (e.g., h)
Debris Type (chec	k one or more	e):			
Net:		Cloth		Plastic packi	ng straps
Rope		Plastic shee	eting	Floats / buoy	S
Monofilam	ent line	Plastic bags	s	FAD (fish ag	gregating device)
Metal (des	cribe):		_		
Other (des	cribe):		-		
Biota Type (check Fish	one or more	and list species na	ames if knov	vn):	
Crustacea	ns				
Encrusting	organisms				
No biota/o	rganisms pres	sent			
Description of inc letail, diameter or v		•	•	•	of incident in more
Veight (kg):	Pł	notos: Y / N	Broug	jht onboard for	disposal: Y / N
ength of downtin					
Description of dov lisentangled by div	wntime and o	cost (describe what	at was done	during downtim	ne (e.g. propeller