

# Purse Seine Floating Object Record



INSERT  
presenter name  
here

# Introduction

- Fish aggregate below

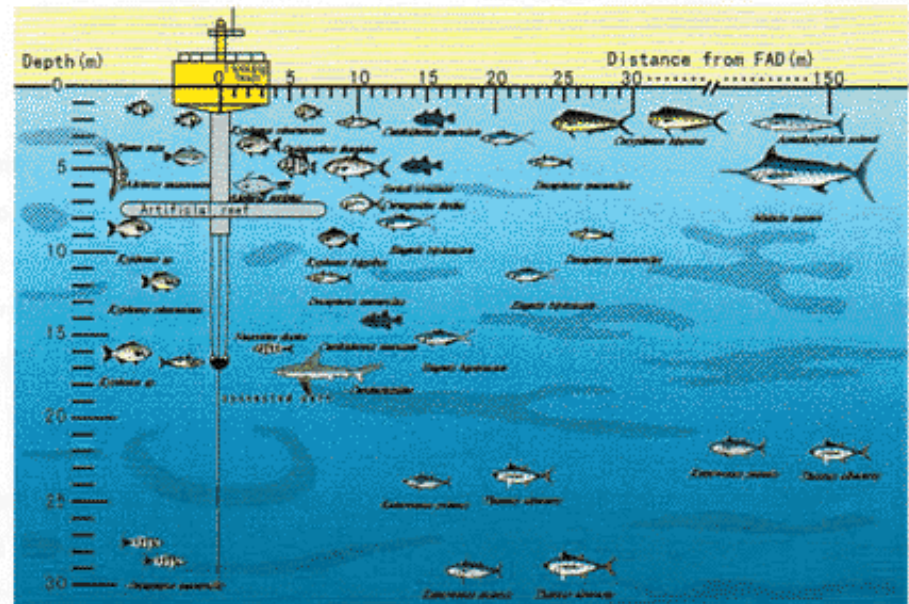


Fig. 2 Fishes aspect around large-scale FAD.

<http://snf.fra.affrc.go.jp/English/wwwsupl/supl10.htm>

<http://www.photolib.noaa.gov/htmls/fish5220.htm>

# Introduction

- Fish aggregate below
- Floating objects – natural & man-made



<http://www.dennisalbert.com/2004/March.htm>



<http://oceanexplorer.noaa.gov>

# Introduction

- Fish aggregate below
- Floating objects – natural & man-made
- Allows tracking of objects



# Introduction

- Fish aggregate below
- Floating objects – natural & man-made
- Allows tracking of objects
- Variation in catch around different object types



# Objectives

- Describe how data from the Floating Object Record (FOR) can be used
- List the 4 situations that require the completion of the FOR
- Demonstrate ability to complete the FOR

# [ Sampling priorities ]

1. Record vessel activity continuously each day on board;
2. Estimate total catch for each gear deployment;
3. Collect random samples for catch composition of each set and document species retained and discarded;
4. **Describe all floating objects sighted, especially those involved in a fishing set;**
5. Subsample catch for lengths;
6. Record all sightings and interactions with marine mammals and sea turtles;
7. Record fishing gear characteristics.

# When to complete the FOR?

- Investigate
- Deploy/retrieve FAD
- Set within 250m of floating object
- NOT for sightings (4D on Daily Activity Log)



# Floating Object Record

Page \_\_\_ of \_\_\_

Observer code	Vessel code	Trip ID	Object No.	Sighting No.	Set No.
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Components (check all that are applicable)			Prior origin of object (check one)			
	As found	As left				
Tree	<input type="checkbox"/>	<input type="checkbox"/>	Your vessel - this trip	<input type="checkbox"/>	<input type="checkbox"/>	
Dead animal _____	<input type="checkbox"/>	<input type="checkbox"/>	Your vessel - previous trip	<input type="checkbox"/>	<input type="checkbox"/>	
Chain/cable/rings/weights	<input type="checkbox"/>	<input type="checkbox"/>	Other vessel - w/ owner consent	<input type="checkbox"/>	<input type="checkbox"/>	
Cane/bamboo	<input type="checkbox"/>	<input type="checkbox"/>	Other vessel - no owner consent	<input type="checkbox"/>	<input type="checkbox"/>	
Bait container / bait	<input type="checkbox"/>	<input type="checkbox"/>	Drifting object found	<input type="checkbox"/>	<input type="checkbox"/>	
Cord / rope	<input type="checkbox"/>	<input type="checkbox"/>	Unknown	<input type="checkbox"/>	<input type="checkbox"/>	
Floats / corks	<input type="checkbox"/>	<input type="checkbox"/>	Other _____	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Artificial light for attracting fish	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Netting material	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Sacks / bags	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Planks / pallets / plywood / spools	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Metal drum / plastic drum	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
PVC or other plastic tubes	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Plastic sheeting	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Unknown	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
Other _____	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
If there's netting....			Locating method (check one)			
Estimated area of hanging netting (m2)	<input type="checkbox"/>	<input type="checkbox"/>	Radar	<input type="checkbox"/>	<input type="checkbox"/>	
Predominant mesh size (cm)	<input type="checkbox"/>	<input type="checkbox"/>	Direction finder	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	Satellite	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	Visual - the object itself	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	Visual - birds	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	Unknown	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	Other _____	<input type="checkbox"/>	<input type="checkbox"/>	
Locating equipment (check all applicable)			Other data			
Flag	<input type="checkbox"/>	<input type="checkbox"/>	Bait container attached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	Bait container refilled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	Fauna entangled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Y   N   NA   Unk

Chain/cable/rings/weights		
Cane/bamboo		
Bait container / bait		
Cord / rope		
Floats / corks		
Artificial light for attracting fish		
Netting material		
Sacks / bags		
Planks / pallets / plywood / spools		
Metal drum / plastic drum		
PVC or other plastic tubes		
Plastic sheeting		
Unknown		
Other _____		

Other vessel - no owner consent	
Drifting object found	
Unknown	
Other _____	

**Locating method (check one)**

Radar	
Direction finder	
Satellite	
Visual - the object itself	
Visual - birds	
Not applicable	
Unknown	
Other _____	

**If there's netting....**

Estimated area of hanging netting (m2)	
Predominant mesh size (cm)	

**Other data**

	Y	N	NA	Unk
Bait container attached				
Bait container refilled				
Fauna entangled				

**Locating equipment (check all applicable)**

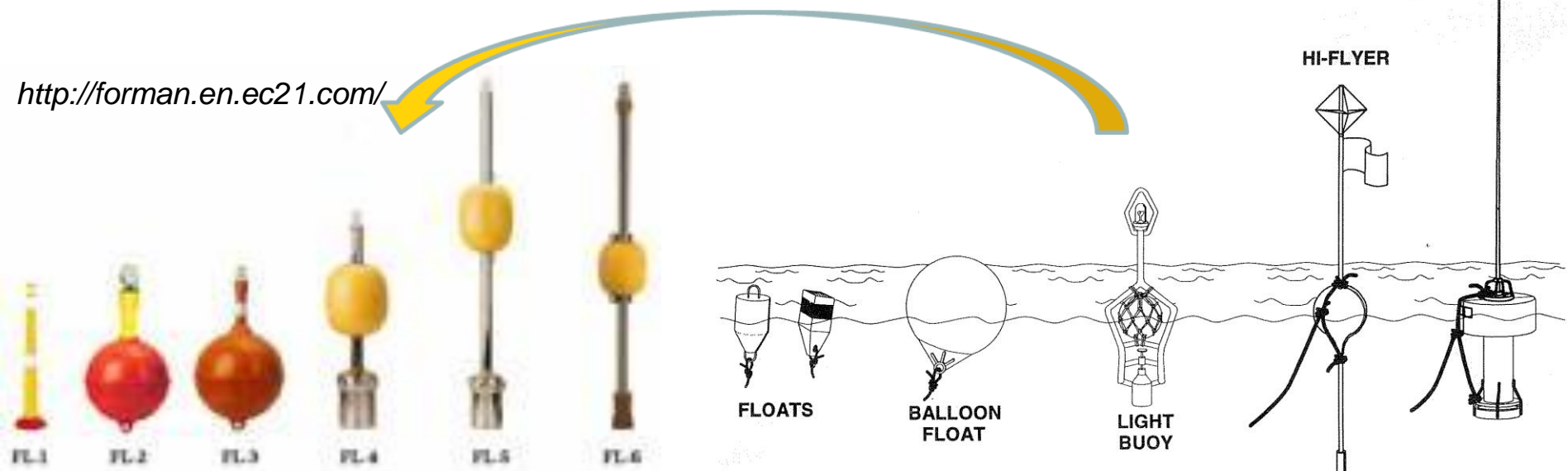
	As found	As left
Flag		
Satellite buoy		
Buoy, corks, etc		
Lights		
Radio transmitter / beeper / beacon		
Radar reflector		
Unknown		
Other _____		

Check one:  Anchored  Drifting

Water clarity: Clear / Turbid / Very turbid

% biota  Tag Number

# Locating equipment



<http://forman.en.ec21.com/>



[williamsmarinelt.ca/Manufacturing.html](http://williamsmarinelt.ca/Manufacturing.html)



<http://forman.en.ec21.com/>

# Floating Object Record

Page \_\_\_\_ of \_\_\_\_

Observer code	Vessel code	Trip ID	Object No.	Sighting No.	Set No.
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Components (check all that are applicable)			Prior origin of object (check one)			
	As found	As left				
Tree	<input type="checkbox"/>	<input type="checkbox"/>	Your vessel - this trip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dead animal _____	<input type="checkbox"/>	<input type="checkbox"/>	Your vessel - previous trip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain/cable/rings/weights	<input type="checkbox"/>	<input type="checkbox"/>	Other vessel - w/ owner consent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cane/bamboo	<input type="checkbox"/>	<input type="checkbox"/>	Other vessel - no owner consent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bait container / bait	<input type="checkbox"/>	<input type="checkbox"/>	Drifting object found	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cord / rope	<input type="checkbox"/>	<input type="checkbox"/>	Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floats / corks	<input type="checkbox"/>	<input type="checkbox"/>	Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Artificial light for attracting fish	<input type="checkbox"/>	<input type="checkbox"/>	Your vessel - deployed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Netting material	<input type="checkbox"/>	<input type="checkbox"/>	<b>Locating method (check one)</b>			
Sacks / bags	<input type="checkbox"/>	<input type="checkbox"/>	Radar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Planks / pallets / plywood / spools	<input type="checkbox"/>	<input type="checkbox"/>	Direction finder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metal drum / plastic drum	<input type="checkbox"/>	<input type="checkbox"/>	Satellite	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PVC or other plastic tubes	<input type="checkbox"/>	<input type="checkbox"/>	Visual - the object itself	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plastic sheeting	<input type="checkbox"/>	<input type="checkbox"/>	Visual - birds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>If there's netting....</b>			Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Estimated area of hanging netting (m2)	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<b>Other data</b>			
Predominant mesh size (cm)	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	Bait container attached	Y	N	NA
<b>Locating equipment (check all applicable)</b>			Bait container refilled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flag	<input type="checkbox"/>	<input type="checkbox"/>	Fauna entangled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cast net	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Cane/bamboo		
Bait container / bait		
Cord / rope		
Floats / corks		
Artificial light for attracting fish		
Netting material		
Sacks / bags		
Planks / pallets / plywood / spools		
Metal drum / plastic drum		
PVC or other plastic tubes		
Plastic sheeting		
Unknown		
Other _____		

Drifting object found	
Unknown	
Other _____	

**Locating method** (check one)

Radar	
Direction finder	
Satellite	
Visual - the object itself	
Visual - birds	
Not applicable	
Unknown	
Other _____	

**If there's netting....**

Estimated area of hanging netting (m2)

Predominant mesh size (cm)

**Other data**

	Y	N	NA	Unk
Bait container attached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bait container refilled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fauna entangled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Locating equipment** (check all applicable)

	As found	As left
Flag	<input type="checkbox"/>	<input type="checkbox"/>
Satellite buoy	<input type="checkbox"/>	<input type="checkbox"/>
Buoy, corks, etc	<input type="checkbox"/>	<input type="checkbox"/>
Lights	<input type="checkbox"/>	<input type="checkbox"/>
Radio transmitter / beeper / beacon	<input type="checkbox"/>	<input type="checkbox"/>
Radar reflector	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>

Check one:  Anchored  Drifting

**Moved**  **Position:** \_\_\_\_\_

Water clarity: Clear / Turbid / Very turbid

% biota  Tag Number

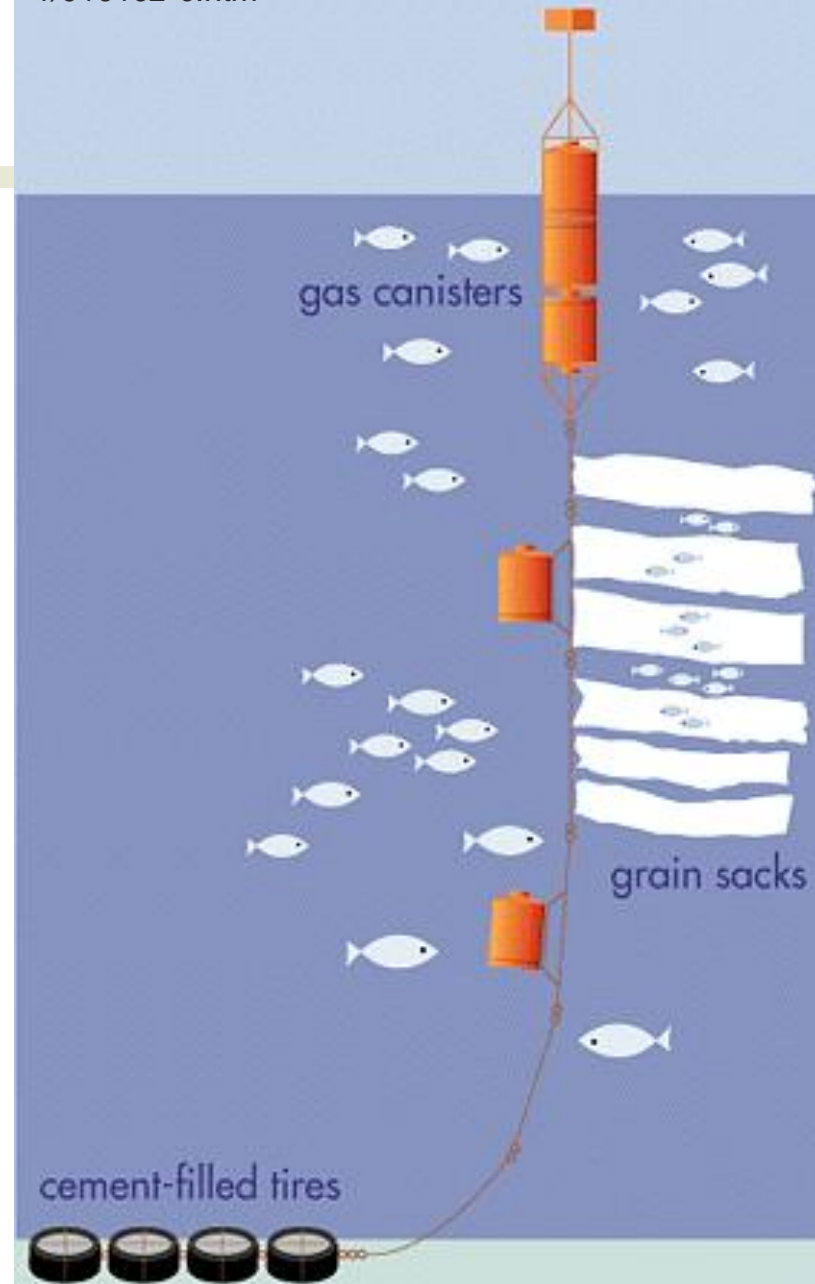
Overhead view (include dimensions)

Side view

Comments

# [ Activity

- Complete Floating Object Record for the scenario described on the handout and the image to the right – 10 minutes



# Activity

## Floating Object Record

Observer code <b>999</b>	Vessel code <b>GAB6732</b>	Trip ID <b>00101</b>	Object No. <b>6</b>	Sighting No. <b>2</b>	Set No.
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Components (check all that are applicable)	Prior origin of object (check one)
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Components (check all that are applicable)	Prior origin of object (check one)
	As found   As left
Tree	<input type="checkbox"/>   <input type="checkbox"/>
Dead animal _____	<input type="checkbox"/>   <input type="checkbox"/>
Chain/cable/rings/weights	<input type="checkbox"/>   <input type="checkbox"/>
Cane/bamboo	<input type="checkbox"/>   <input type="checkbox"/>
Bait container / bait	<input type="checkbox"/>   <input checked="" type="checkbox"/>
Cord / rope	<input checked="" type="checkbox"/>   <input checked="" type="checkbox"/>
Floats / corks	<input type="checkbox"/>   <input type="checkbox"/>
Artificial light for attracting fish	<input type="checkbox"/>   <input type="checkbox"/>
Netting material	<input type="checkbox"/>   <input type="checkbox"/>
Sacks / bags	<input checked="" type="checkbox"/>   <input checked="" type="checkbox"/>
Planks / pallets / plywood / spools	<input type="checkbox"/>   <input type="checkbox"/>
Metal drum / plastic drum	<input checked="" type="checkbox"/>   <input checked="" type="checkbox"/>
PVC or other plastic tubes	<input type="checkbox"/>   <input type="checkbox"/>
Plastic sheeting	<input type="checkbox"/>   <input type="checkbox"/>
Unknown	<input type="checkbox"/>   <input type="checkbox"/>
Other _____	<input type="checkbox"/>   <input type="checkbox"/>

If there's netting....	Locating method (check one)
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Estimated area of hanging netting (m2)	<input type="text"/>
Predominant mesh size (cm)	<input type="text"/>

Locating equipment (check all applicable)	Other data
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Locating equipment (check all applicable)	Other data
	Y   N   NA   Unk
	Bait container attached <input checked="" type="checkbox"/>   <input type="checkbox"/>   <input type="checkbox"/>   <input type="checkbox"/>
	Bait container refilled <input type="checkbox"/>   <input checked="" type="checkbox"/>   <input type="checkbox"/>   <input type="checkbox"/>
	Fauna entangled <input type="checkbox"/>   <input type="checkbox"/>   <input type="checkbox"/>   <input checked="" type="checkbox"/>
	Check one: <input checked="" type="checkbox"/> Anchored   <input type="checkbox"/> Drifting
	Water clarity: <input checked="" type="radio"/> Clear   <input type="radio"/> Turbid   <input type="radio"/> Very turbid
	% biota <input type="text" value="40%"/>   Tag Number <input type="text"/>

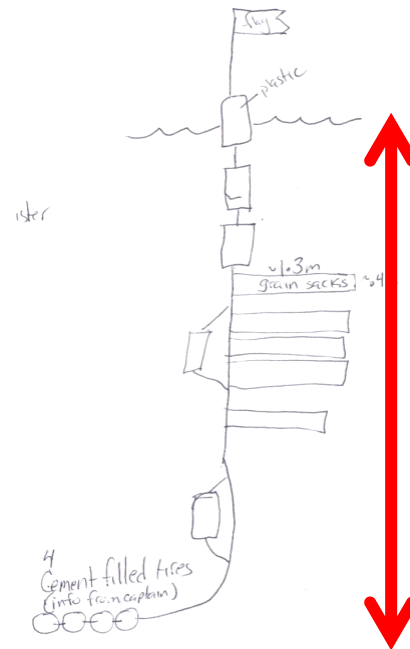


# Activity

Overhead view (include dimensions)



Side view



Comments

*Captain provided additional detail regarding the FAD specifications since he deployed it originally (back in 2008).*

# Summary

- How can data from the Floating Object Record be used?
- What are the 4 situations that require the completion of the Floating Object Record?