

VESSEL INFORMATION

Objectives

- List the 3 types of information gathered on the Vessel Information form
- Demonstrate ability to complete the Vessel Information form

Vessel Information

- 1 form for each trip
- Form in Observer Logbook
- Sections:
 - Vessel characteristics
 - Electronics
 - Refrigeration / capacity
 - Gear specific
- Information from license & captain

Vessel Information					
General Vessel Characteristics					
Vessel name	Country/Registration No.	Flag	Home port (city, country)		
Engine manufacturer	Engine model	Length overall (LOA, m)	Draft (m)	Beam (m)	
IMO No.	PSI radio call sign (M-C)	Hull material (circle): Wood / Steel / Fiberglass / Other			
SAISI No.	Global Registry ID	Tonnage: GT / NT / GRT / NRT			
Permit/license No.	Permit expiration (dd-mm-yy)	No. propellers: No. blades: Propeller pitch: Diameter (m): Ducted propeller? Y / N Bow thruster present? Y / N			
Manufacturer		Model		Horsepower	
Engine (main)		Kw:		RPM:	
Engine (auxiliary)		Kw:		RPM:	
Generator		Power (Kw)			
Transmission (gear box)		Ratio			
Winches (on deck)	How many?	Type: Electric / Hydraulic / Other			
Other:		Max hoisting weight			
Other:					
Water capacity (m3):		Fuel capacity:	m3 / tonnes	Fuel consumption (tonnes/day):	
Electronics					
	Present?	Usage	Manufacturer	Model	Additional information
GPS	Y / N				Accuracy (m)
VMS	Y / N				GPS: Internal / external
Radar	Y / N				KHz:
Other	Y / N				Other:

Vessel Information					
General Vessel Characteristics					
Vessel name	Country Registration No.	Flag	Home port (city, country)		
Previous vessel names	Previous flag	Length overall (LOA, m)			
IMO No.	Int'l radio call sign (RCS)	Draft (m)			
MMST No.	Global Registry ID	Beam (m)			
Permit/license No.	Permit expiration (dd-mm-yy)	Hull material (circle): Wood / Steel / Fiberglass / Other			
Owner name/address	Permit holder name/address	Tonnage: GT / NT / CRT / NRT			
		Year built			
		No. propellers: No. blades:			
		Propeller pitch: Diameter (m):			
		Ducted propeller? Y / N			
		Bow thruster present? Y / N			
Manufacturer		Model			
Engine (main)	Kw	RPM			
Engine (auxiliary)	Kw	RPM			
Generator	Power (Kw)				
Transmission (gear box)	Ratio				
Winches (on deck)	How many?	Max hoisting weight			
Other:		Type: Electric / Hydraulic / Other			
Other:					
Water capacity (m3)		Fuel capacity: m3 / tonnes		Fuel consumption (tonnes/day)	
Electronics					
	Present?	Usage	Manufacturer	Model	Additional Information
GPS	Y / N				Accuracy (m)
VMS	Y / N				GPS: Internal / external
Radar	Y / N				RNC
Sonar	Y / N				RNC
Sonar	Y / N				RNC
ADCP (current profiler)	Y / N				RNC
Radio beacon direction finder	Y / N				
Radio buoy / beacons	Y / N				How many? Frequency:
GPS buoy	Y / N				How many?
SST gauge	Y / N				
YBT (Bathythermograph)	Y / N				
Other:	Y / N				
Other:	Y / N				
Other:	Y / N				
Other:	Y / N				

Water capacity (m3)		Fuel capacity: m3 / tonnes		Fuel consumption (tonnes/day)	
Electronics					
	Present?	Usage	Manufacturer	Model	Additional Information
GPS	Y / N				Accuracy (m)
VMS	Y / N				GPS: Internal / external
Radar	Y / N				RNC
Sonar	Y / N				RNC
Sonar	Y / N				RNC
ADCP (current profiler)	Y / N				RNC
Radio beacon direction finder	Y / N				
Radio buoy / beacons	Y / N				How many? Frequency:
GPS buoy	Y / N				How many?
SST gauge	Y / N				
YBT (Bathythermograph)	Y / N				
Other:	Y / N				
Other:	Y / N				
Other:	Y / N				
Other:	Y / N				

Usage Codes

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

Electronics - GPS



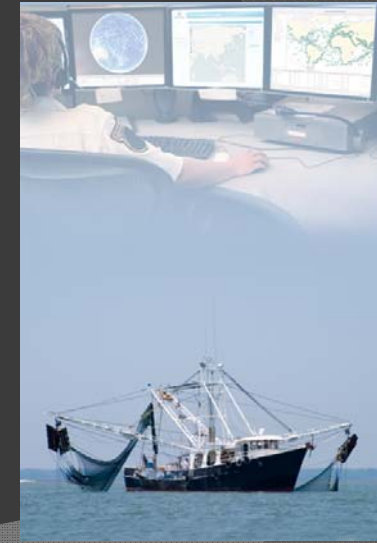
<http://www.nauticexpo.com>



Electronics - VMS



<http://www.nauticexpo.com>

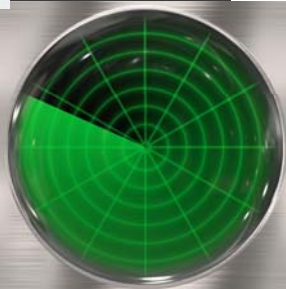
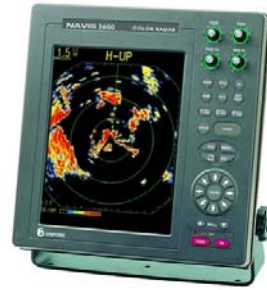


VMS Presentation – Absolute Software

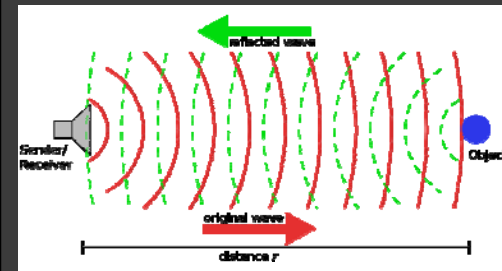
Electronics - Radar



<http://www.radartutorial.eu/>



Electronics - Sonar

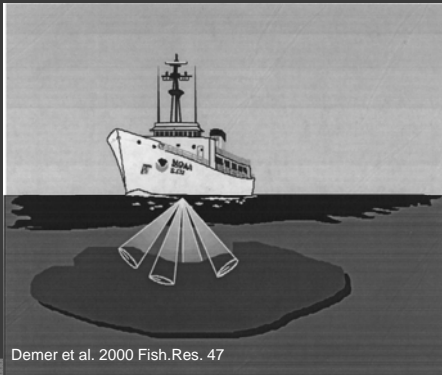


Images from SONAR: <http://en.wikipedia.org/>



Electronics - ADCP

- Acoustic Doppler Current Profiler



Demer et al. 2000 Fish.Res. 47



<http://www.rdiinstruments.com/mariner.aspx>

Electronics – Radio Beacon Direction Finder & Radio Beacons/Buoys



<http://www.commercial-fishing.net>



Electronics – GPS Buoys



Electronics – SST gauge



<http://www.si-tex.com>

Communications	Satellite	Y / N	Phone No.	Provider
	Fax	Y / N	Fax No.	Email
	VHF	Y / N	#	GMDSS
	SSB	Y / N	#	AIS
Other Information		Weather fax		Y / N
		Other		Y / N

Refrigeration			
Blast freezer?	Y / N	Capacity (today):	Gas:
Freezer hold?	Y / N	Capacity (m3):	Gas:
Ice?	Y / N	Capacity:	Other:

Waste Management (check all that apply & note types of materials for each)			
Incinerator:		Dispose on shore:	
Burned on board:		Throw overboard:	

Purse Seine			
	Present?	Usage	Comments
Ring stripper?	Y / N		
Speedboats	Y / N	How many?	Engine power (hp):
Raft	Y / N		
Bird radar	Y / N		
Net mensuration	Y / N	Make / Model	
Diver / dive equipment	Y / N	Used to rescue dolphins?	
High-intensity floodlight	Y / N	Operable? Y / N	
Spotter aircraft: plane / helicopter / none		Manufacturer	Model
		Registration	Range (km)

Trawl			
Sensors	Present?	Usage	Comments
Bottom contact	Y / N		

Communications	Satellite	Y / N	Phone No.	Provider
	Fax	Y / N	Fax No.	Email
	VHF	Y / N	#	GMDSS
	SSB	Y / N	#	AIS
Other Information		Weather fax		Y / N
		Other		Y / N

Refrigeration			
Blast freezer?	Y / N	Capacity (today):	Gas:
Freezer hold?	Y / N	Capacity (m3):	Gas:
Ice?	Y / N	Capacity:	Other:

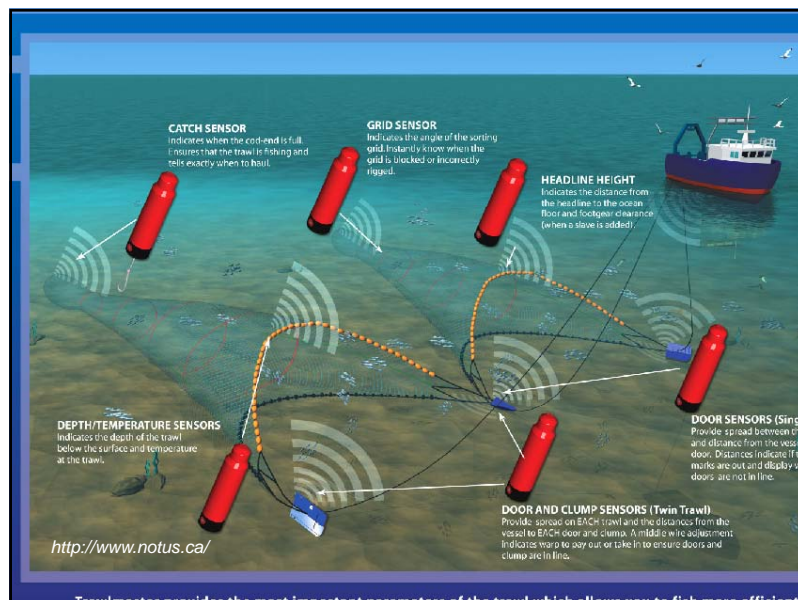
Waste Management (check all that apply & note types of materials for each)			
Incinerator:		Dispose on shore:	
Burned on board:		Throw overboard:	

Purse Seine			
	Present?	Usage	Comments
Ring stripper?	Y / N		
Speedboats	Y / N	How many?	Engine power (hp):
Raft	Y / N		
Bird radar	Y / N		
Net mensuration	Y / N	Make / Model	
Diver / dive equipment	Y / N	Used to rescue dolphins?	
High-intensity floodlight	Y / N	Operable? Y / N	
Spotter aircraft: plane / helicopter / none		Manufacturer	Model
		Registration	Range (km)

Trawl			
Sensors	Present?	Usage	Comments
Bottom contact	Y / N		

Communications	Satellite	Y / N	Phone No.	Provider:	
	Fax	Y / N	Fax No.	Email	Y / N
	VHF	Y / N	A	GMDSS	Y / N
	SSB	Y / N	A	AIG	Y / N
			Class (A/B)		
Other Information	Weather fax		Y / N	Other:	Y / N
	Other:		Y / N	Other:	Y / N
Refrigeration					
Blast freezer?	Y / N	Capacity (today):	Gas:	RSW?	Y / N
Freezer hold?	Y / N	Capacity (m3):	Gas:	Brine?	Y / N
Ice?	Y / N	Capacity:	Other:	Y / N	Capacity:
Waste Management (check all that apply & note types of materials for each)					
Incinerator:			Dispose on shore:		
Burned on board:			Throw overboard:		
Purse Seine					
	Present?	Usage	Comments		
Ring stripper?	Y / N				
Speedboats	Y / N	How many? Engine power (hp):			
Raft	Y / N				
Bird radar	Y / N				
Net mensuration	Y / N	Make / Model			
Diver / dive equipment	Y / N	Used to rescue dolphins?			
High-intensity floodlight	Y / N	Operable? Y / N			
		Manufacturer	Model	Registration	Range (km)
Spotter aircraft: plane / helicopter / none					
Trawl					
Sensors	Present?	Usage	Manufacturer	Model	Comments
Bottom contact	Y / N				

Net mensuration	Y / N	Make / Model			
Diver / dive equipment	Y / N	Used to rescue dolphins?			
High-intensity floodlight	Y / N	Operable? Y / N			
		Manufacturer	Model	Registration	Range (km)
Spotter aircraft: plane / helicopter / none					
Trawl					
Sensors	Present?	Usage	Manufacturer	Model	Comments
Bottom contact	Y / N				
Catch	Y / N				
Net sensors	Y / N				Wired / wireless
Hydrophone	Y / N				Hull mounted / towed
Other:	Y / N				
Other:	Y / N				
Other:	Y / N				
Comments:					



Activity

- Complete the blank Vessel Information form using information on the handout
- 10 minutes

Summary

- ◉ How often should you complete the Vessel information form?
- ◉ What are 3 types of information collected on this form?
- ◉ Where do you get the information for this form?

Vessel Information Form – Activity Handout

Complete the Vessel Information form using the following information:

You board the Liberian shrimp trawler Avatar 27 on April 7, 2011. The Registration number is A777-54X39. Its home port is Monrovia. The vessel length is 105 feet and has a 10 m beam and 3 m draft. The 125 GRT, steel vessel was built in 1985 and has a single prop with 3 blades. Pitch and diameter are unknown. The vessel does not have a Kort nozzle or bow thruster. There are no IMO, MMSI or Global registry numbers. The IRCS is 5LC-323.

The owner, Nan Smiley, also holds the permit (#Z23-G56, expiring Dec 31 2011). His address is Monrovia, Liberia.

The main engine is a Blaster, model B888, 1000 Kw and 2000 RPM. The generator is an Onan, 10 Kw. The transmission is an Hale, REB1018-012 with an unknown gear ratio. The vessel also has 2 hydraulic H12 Pullmaster winches on the deck for hoisting the nets on board. The max load is 12,000 lbs.

The vessel can hold 1000 gallons of water and 10,000 gallons of fuel. They burn 400 gallons per day.
Hint: 1 gallon = 0.003785 cubic meter; 1 m³ = 1000 liters = 264.2 gallons

The vessel uses its GPS, Radar & Sonar continuously. They have a Samyung (SGP-500) GPS with 5m accuracy. The radar is a Furuno 1832 which has a 4 kilowatt transmitter unit. The sonar is a Simrad ES60 single (85 kw).

The vessel has 3 VHF radios & 1 SSB. There is no satellite, fax or email.

The vessel freezes their catch and can process 10 tons/day. The capacity of the main freezer hold is 900 cubic meters.

The vessel disposes of all garbage overboard.

The vessel has no extra trawl sensors.

Vessel Information

General Vessel Characteristics

Vessel name	Country Registration No.	Flag	Home port (city, country)	
Previous vessel names	Previous flag	Length overall (LOA; m)		
		Draft (m)	Beam (m)	
IMO No.	Int'l radio call sign (IRCS)		Hull material (circle): Wood / Steel / Fiberglass / Other _____	
MMSI No.	Global Registry ID:			
Permit/license No.	Permit expiration (dd-mm-yy):		Tonnage: GT / NT / GRT / NRT	
Owner Name/address	Permit holder name/address		Year built	
			No. propellers: No. blades:	
			Propeller pitch: Diameter (m):	
			Ducted propeller? Y / N	
			Bow thruster present? Y / N	
	Manufacturer	Model		
Engine (main)			Kw:	RPM:
Engine (auxiliary)			Kw:	RPM:
Generator			Power (Kw)	
Transmission (gear box)			Ratio	
Winches (on deck)			Type: Electric / Hydraulic / Other _____	
	How many?	Max hoisting weight		
Other:				
Other:				
Water capacity (m3):		Fuel capacity:	m3 / tonnes	Fuel consumptions (tonnes/day):

Electronics

	Present?	Usage	Manufacturer	Model	Additional Information
GPS	Y / N				Accuracy (m)
VMS	Y / N				GPS: Internal / external
Radar	Y / N				KHz:
Sonar	Y / N				KHz:
Sonar	Y / N				KHz:
ADCP (current profiler)	Y / N				KHz:
Radio beacon direction finder	Y / N				
Radio buoys / beacons	Y / N				How many? Frequency:
GPS buoys	Y / N				How many?
SST gauge	Y / N				
XBT (Bathythermograph)	Y / N				
Other:	Y / N				
Other:	Y / N				
Other:	Y / N				
Other:	Y / N				

Usage Codes

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

Communications	Satellite	Y / N	Phone No:	Provider:		
	Fax	Y / N	Fax No:	Email	Y / N	Email:
	VHF	Y / N	#:	GMDSS	Y / N	
	SSB	Y / N	#:	AIS	Y / N	Class (A/B):
Other Information	Weather fax		Y / N	Other:		Y / N
	Other:		Y / N	Other:		Y / N

Refrigeration

Blast freeze?	Y / N	Capacity (t/day):	Gas:	RSW?	Y / N	Capacity:
Freezer hold?	Y / N	Capacity (m3):	Gas:	Brine?	Y / N	Capacity:
Ice?	Y / N	Capacity:	Other:	Y / N	Capacity:	

Waste Mangement (check all that apply & note types of materials for each)

Incinerator:	Dispose on shore:
Burned on board:	Throw overboard:

Purse Seine

	Present?	Usage	Comments			
Ring stripper?	Y / N					
Speedboats	Y / N		How many?	Engine power (hp):		
Raft	Y / N					
Bird radar	Y / N					
Net mensuration	Y / N		Make / Model			
Diver / dive equipment	Y / N		Used to rescue dolphins?			
High-intensity floodlight	Y / N		Operable? Y / N			
		Manufacturer	Model	Registration	Range (km)	
Spotter aircraft: plane / helicopter / none						

Trawl

Sensors	Present?	Usage	Manufacturer	Model	Comments
Bottom contact	Y / N				
Catch	Y / N				
Net sensors	Y / N				Wired / wireless
Hydrophone	Y / N				Hull mounted / towed
Other:	Y / N				
Other:	Y / N				
Other:	Y / N				

Comments: