

The Observer Logbook: Documenting your time at sea



Objectives



- List 3 standard forms that are part of your Observer Logbook
- Describe 5 additional sections that must be completed for each trip



Observer Logbook - Components

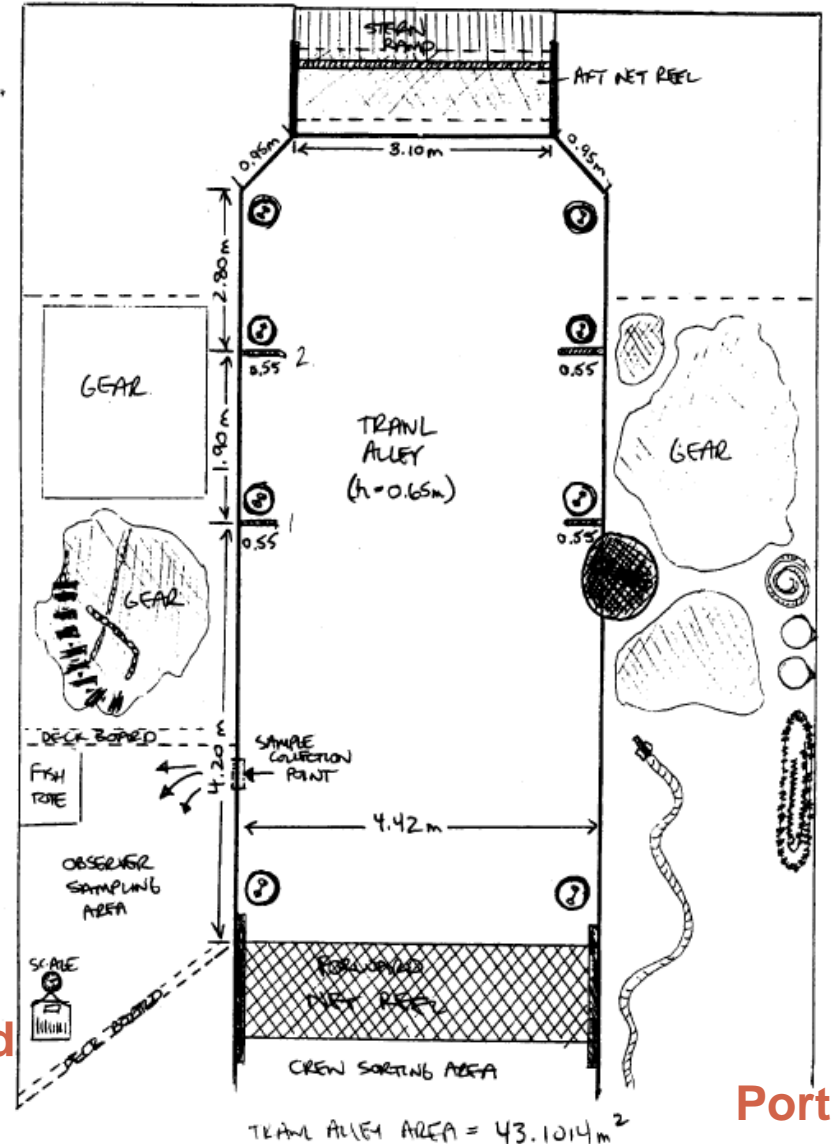


- **3 standard forms**
 - Safety checklist – complete before trip – Chapter 20, handout p.3
 - Trip Summary – Chapter 4 , handout p.4
 - Compliance Checklist – complete after trip– Chapter 17, handout p.6
- **Vessel Diagram**
- **Sampling Description**
- **Random Sample Table**
- **Calculations**
- **Daily Notes**
- **Photo log**

Observer Logbook – Vessel Diagram



- Handout p.7
- Where you sample
- Flow of fish - where do fish go as they come on board
- Indicate vessel orientation
- Label dimensions



Observer Logbook – Sampling Description



- Document how you sampled (handout p.9)
- Record initial sampling plans in Daily Notes
- For each vessel you must describe:
 - Describe flow of fish
 - Describe sample design at each level of sampling.
 - ✦ Haul level sample - **population** = “all hauls made by the vessel” selected using the Random Sample Table.
 - ✦ Within haul sample – **population** = “all objects (animals, algae, garbage, etc) caught by the gear”
 - Describe the sample frame - Spatial or Temporal. Sampling units can be baskets, pots, sections of longline, etc. Varies among vessels.
 - Describe the sample design

Observer Logbook – Random Sample Table



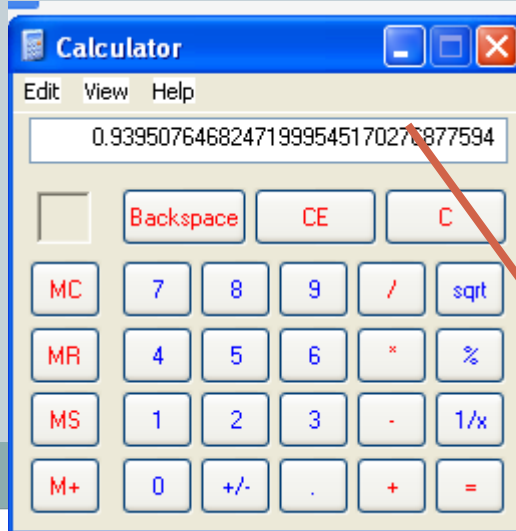
- RST – prescribes which haul to sample (handout p.13)
- 2 Tables – designed for different hauls per day
- Use 1 Table per trip – complete for every haul
- Discussed in more detail during Random Sampling talk

Date	Haul #	Samp?	Notes	Date	Haul #	Samp?	Notes
		Y				Y	
		Y				Y	
		Y				Y	
		N				N	
		Y				Y	
		Y				Y	
		N				Y	
		Y				N	
		Y				Y	
		N				Y	
		Y				Y	
		Y				N	
		N				Y	
		Y				Y	
		Y				Y	
		Y				Y	

Observer Logbook – Calculations



- All total catch calculations (handout p.14-15)
- Average weights (catch comp form)
- Pencil
- Rounding
 - Full field
 - “Normal” rounding rules apply (≥ 5 round up, <5 round down)



Haul #: 23 Total catch WT: 9.42 MT	Total Weight Calculation - Bin $V = \text{Rectangle} + \text{wedge}$ $V = (L * W * H) + (\frac{1}{2}(L * W * H))$ $V = (3.7 * 2.5 * 0.9) + \frac{1}{2}(1.7 * 2.5 * .8)$ $V = 8.325 + \frac{1}{2}(3.4)$ $V = 8.325 + 1.7 = 10.025 \text{ m}^3$
Density Calculation Basket volume = 0.023452 m ³ Basket WTS: 21.7, 23.0, 21.2, 22.5, 22.0, 21.8 $\Sigma = 132.2 \text{ kg}$ Density = 0.1322 MT / (0.023452 * 6) = 0.1322 / 0.140712 = 0.9395076 MT/m ³	Total WT = V * density = 10.025 m ³ * 0.9395076 MT/m ³ = 9.41856... MT

Observer Logbook – Daily Notes



- Handout p.16-17
- Make an entry for each day in INK
- Record day to day events (esp. relating to sampling)
- Record:
 - Sampling issues & changes to methods
 - Illnesses
 - Suspected or potential violations & actions taken
- Date & time of entry
- Documentation can make your life easier

Observer Logbook – Photo log



- **Disposable cameras**
 - Priority photos of turtles & mammals
 - Other unidentified items
- **Other camera – digital, mobile phone?**
 - Other unidentified items
 - List of photo tips in the logbook
 - Identify what's in the photo & insert scale
- **Log – date, haul#, camera or roll #, image # & description**

Date (dd/mm/yy)	Haul #	Camera # or roll #	Image #	Brief description
<i>Example</i>				
07/11/09	7	1	3-4	ID photo of Hawksbill sea turtle – 2 views
07/11/09	7	1	5-6	Hawksbill sea turtle – gear remaining upon release
20/11/09	25	1	7	Small cetacean, unidentified

Summary



- **What are the 3 standard forms in the Observer Logbook?**
- **Where should the following situations be recorded?**
 - You didn't sample because you were seasick
 - Estimate of total catch
 - Measurements of your sampling area
 - Notes regarding the quality of the food
 - Crew interaction that made you uncomfortable?
 - Sightings of marine mammals