

## Purse Seine Daily Activity Log



## Introduction

- Daily Activity Log
- Data uses
  - Fishing effort
  - Distribution of marine mammals & floating objects

## 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.**

## Objectives

- Describe 3 general activities that need to be accounted for on purse seine vessels
- List 3 cases when a new event must be recorded
- Demonstrate ability to complete the **Daily Activity Log**

# Daily Activity Log

- Continuous through trip
- Activities:
  - Searching effort
  - Fishing effort
  - Marine mammal sightings
- Observations made from bridge
- Activities – defined by 25 event codes

On Effort?	Event	Date/Time			Position							Beaufort	Weather	Obs. Condition	Water Temp	Speed	No. X20	Aerial Assst	MM Sight No.	Set No.	Float Object No.
		Day	Month	Year	Time (24-h)	Lat-Deg	Lat-Min	Lat-N/S	Long-Deg	Long-Min	Long-E/W										
	Port																				
	Run																				
	Search																				
	Cue-all types																				
	Heli Depart																				
	Heli Return																				
	Mammal																				
	Chase																				
	Start set																				
	Net cleaning set																				
	Investigate-free school																				
	Float object-investigate, deploy or retrieve																				
	Drift - Break down, night, or lights																				
	Drift - floating object																				
	Bad weather																				
	Transship/bunkering																				
	Other Fishing																				

Daily Activity Log - Purse Seine - Large Pelagics

Observer code: 175 Vessel code: XYZ 388 Trip ID: 00279 Page 1 of 1

On Effort?	Event	Date/Time			Position							Beaufort	Weather	Obs. Cond.	Water Temp	Speed (kn)	No. X20	Aerial Assst	MM Sight No.	Set No.	Float Object /Sighting No.
		Day	Month	Year	Time (24-h)	Lat-Deg	Lat-Min	Lat-N/S	Long-Deg	Long-Min	Long-E/W										
	1	13	12	09	0600	08	29.9	N	013	12.5	W										
	2				0805	08	29.9	N	013	12.5	W	1	0	E0	28.1	9.2					
	2				1005	08	27.6	N	013	30.6	W										
	2				1205	08	25.8	N	013	47.9	W	2	0	E0	9.0						
	3				1345	08	21.2	N	013	58.9	W	2	0	E0	27.9	9.0	PI				
	3				1545	08	15.5	N	014	20.1	W										
	3				1735	08	13.5	N	014	30.7	W	2	0	E1	27.6	9.0	PI				
	4A				1802						W						PI				
	7				1830	08	12.9	N	014	47.5	W	2	0	E0	27.6					1	
	11B				2135	08	13.1	N	014	47.5	W										

**Event Codes**

- 1 Port
- 2 Run
- 3 Search
- 4A Cue-birds
- 4B Cue-splash
- 4C Cue-breaser
- 4D Cue-floating object
- 4E Cue-other
- 5A Heli Depart
- 5B Heli Return
- 6A Mammal
- 7 Start set
- 8 Net cleaning set
- 9 Investigate-free school
- 10A Float object-investigate
- 10B Float object-deploy
- 10C Float object-retrieve
- 11A Drift - Break down
- 11B Drift - Night
- 11C Drift - floating object
- 11D Drift - lights
- 12 Bad weather
- 13 Transship/bunkering

**Weather Codes**

- 0 -50% Clouds
- 1 -50% Clouds
- 2 patchy fog
- 3 solid fog
- 4 mist / light rain
- 5 med / heavy rain
- 6 fog & rain
- 7 snow
- 8 None
- 9 Slight / grey (light)
- 10 Bright / 1 side (moderate)

**Observation Condition**

- E Excellent
- G Good
- F Fair
- P Poor
- Glare
- 0 None
- 1 Slight / grey (light)
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**No. X20 Codes**

- RAD Bird radar only PB
- 1 20x binocs
- 2 20x binocs
- 3 20x binocs

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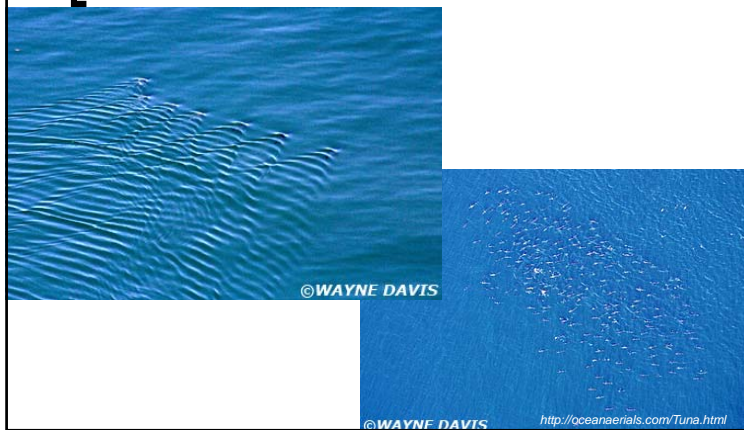
### [ Cues - Birds ]



### [ Cues - Splashes ]



### [ Cues - Breezer ]



### [ Cues – Floating Object ]



*Fishing around floating objects, usually called fish aggregating devices (FADs), has become one of the main strategies used by industrial tuna purse seiners all over the world to catch tropical tuna, the alternative strategy is to catch free-swimming schools. (Photo: FADIO/IRD-Ifremer/ M. Taquet)*

# Cues – Other

- Report by other vessel
- Make note in the margin

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Event Codes: 1 Port, 2 Run, 3 Search, 4A Cue-birds, 4B Cue-splash, 4C Cue-breaser, 4D Cue-floating object, 4E Cue-Other, 5A Heli Depart, 5B Heli Return, 6A Mammal, 6B Chase, 7 Start set, 8 Net cleaning set, 9 Investigate-free school, 10A Float object-investigate, 10B Float object-deploy, 10C Float object-retrieve, 11A Drift-Break down, 11B Drift-Night, 11C Drift-floating object, 12 Bad weather, 13 Tranship/bunkering, 14 Other Fishing.

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7					1830	08	12.9	N	014	47.5	W	2	0	EO	##		1	/	
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Event Codes: 1 Port, 2 Run, 3 Search, 4A Cue-birds, 4B Cue-splash, 4C Cue-breaser, 4D Cue-floating object, 4E Cue-Other, 5A Heli Depart, 5B Heli Return, 6A Mammal, 6B Chase, 7 Start set, 8 Net cleaning set, 9 Investigate-free school, 10A Float object-investigate, 10B Float object-deploy, 10C Float object-retrieve, 11A Drift-Break down, 11B Drift-Night, 11C Drift-floating object, 12 Bad weather, 13 Tranship/bunkering, 14 Other Fishing.

Weather Codes: 0 <50% Clouds, 1 <50% Clouds, 2 patchy fog, 3 solid fog, 4 mist/light rain, 5 med/heavy rain, 6 fog & rain, 7 snow.

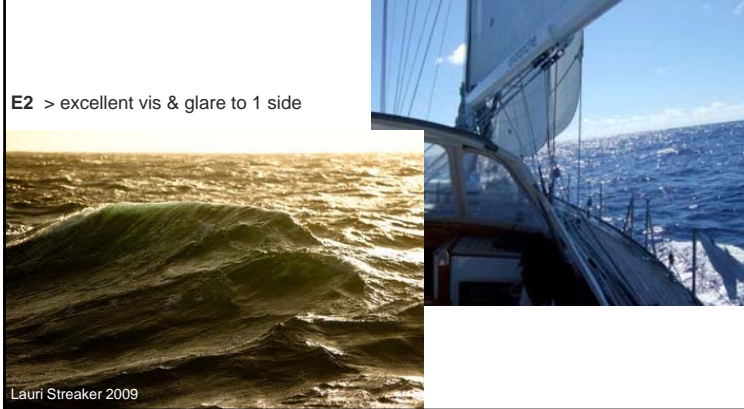
Observation Condition: Visibility: Excellent, Good, Fair, Poor; Glare: None, Slight/grey (light), Bright/1 side (moderate), Bright/forward, both sides.

No. X20 Codes: RAD Bird radar only P0 <20x binocs, P1 120x binocs, P2 220x binocs, P3 320x binocs.

## Visibility - Excellent

E3 > excellent vis but bright glare forward

E2 > excellent vis & glare to 1 side



## Visibility - Good

G0 - Good vis & no glare



## Visibility - Fair

F1 - Fair vis affected by heavy seas



## Visibility - Poor

P0 > poor visibility & zero glare



Daily Activity Log - Purse Seine - Large Pelagics

Observer code: 175 Vessel code: XYZ 388 Trip ID: 00279 Page 1 of 1

On Effort?	Date/Time				Position			Long-EW	Bearing	Weather	Obs. Cond.	Water Temp (°C)	Speed (kn)	No. X20	Aerial Assist	MM Sight No.	Set No.	Float Object / Sighting No.	
	Event	Day	Month	Year	Time (24-hr)	Lat-Deg	Lat-Min												Lat-NS
	1	13	12	09	0600	08	29.9	N	013	12.5	W								
N	2				0805	08	29.9	N	013	12.5	W	1	0	E0		9.2			
N	2				1005	08	27.6	N	013	30.6	W								
Y	2				1205	08	25.8	N	013	47.9	W	2	0	E0		9.0			
Y	3				1345	08	21.2	N	013	58.9	W	2	0	E0	##	9.0	FI		
Y	3				1545	08	15.5	N	014	20.1	W								
Y	3				1735	08	13.5	N	014	30.7	W	2	0	E1	##	9.0	FI		
4A					1802			N			W								
7					1830	08	12.9	N	014	47.5	W	2	0	E0	##				1
11B					2135	08	13.1	N	014	47.5	W								
								N			W								
								N			W								

Event Codes: 1 Port, 2 Run, 3 Search, 4A Cue-birds, 4B Cue-splash, 4C Cue-breaser, 4D Cue-floating object, 4E Cue-Other, 5A Heli Depart, 5B Heli Return, 6A Mammal, 6B Chase

Weather Codes: 0 <50% Clouds, 1 <50% Clouds, 2 patchy fog, 3 solid fog, 4 mist/light rain, 5 med/heavy rain, 6 fog & rain, 7 snow

Observation Condition: Visibility Excellent, Good, Fair, Poor; Glare None, 1 Slight/grey (light), 2 Bright/1 side (moderate)

No. X20 Codes: RAD Bird radar only P0 <20x binocs, P1 120x binocs, P2 220x binocs, P3 320x binocs

## Binocular power

■ 2 numbers  
 (e.g., 25 x 100)

Magnification ↑ Lens diameter

Daily Activity Log - Purse Seine - Large Pelagics

Observer code: 175 Vessel code: XYZ 388 Trip ID: 00279 Page 1 of 1

On Effort?	Date/Time				Position			Long-EW	Bearing	Weather	Obs. Cond.	Water Temp (°C)	Speed (kn)	No. X20	Aerial Assist	MM Sight No.	Set No.	Float Object / Sighting No.	
	Event	Day	Month	Year	Time (24-hr)	Lat-Deg	Lat-Min												Lat-NS
	1	13	12	09	0600	08	29.9	N	013	12.5	W								
N	2				0805	08	29.9	N	013	12.5	W	1	0	##	9.2				
N	2				1005	08	27.6	N	013	30.6	W								
Y	2				1205	08	25.8	N	013	47.9	W	2	0	E0		9.0			
Y	3				1345	08	21.2	N	013	58.9	W	2	0	E0	##	9.0	FI		
Y	3				1545	08	15.5	N	014	20.1	W								
Y	3				1735	08	13.5	N	014	30.7	W	2	0	E1	##	9.0	FI		
4A					1802			N			W								
7					1830	08	12.9	N	014	47.5	W	2	0	E0	##				1
11B					2135	08	13.1	N	014	47.5	W								
								N			W								
								N			W								

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Daily Activity Log - Purse Seine - Large Pelagics

Observer code: 175 Vessel code: XYZ 388 Trip ID: 00279 Page 1 of 1

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Y	3				1345	08	21.2	N	013	58.9	W	2	0	E0	##	9.0	FI		
Y	3				1545	08	15.5	N	014	20.1	W								
Y	3				1735	08	13.5	N	014	30.7	W	2	0	E1	##	9.0	FI		
4A					1802			N			W								
7					1830	08	12.9	N	014	47.5	W	2	0	E0	##				1
11B					2135	08	13.1	N	014	47.5	W								
								N			W								
								N			W								

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## Activity

- Questions
- Handout for activity
  - Groups of 2
  - 15 minutes
  - Okay to use manual

## Summary

- Describe 3 activities that need to be accounted for on purse seine vessels
- When does a new event need to be recorded?
- What forms are needed if you're on effort and...
  - You see a marine mammal?
  - Deploy a floating object?
  - Deploy gear?