

February 11, 2013

Activity 2– Biological Sampling

Name:

On this haul you collected 1) a fish that you encountered for the first time, 2) otoliths from one of the discard species and 3) found a tagged shark. Complete a Specimen Collection, Tag Encounter/Recovery and Species Identification form using the following information.

Observer code: A732; Vessel code: LIB732; Trip 91; Date: May 1, 2011; haul 3

The otoliths are from three African red snapper (*Lutjanus agennes*).

Specimen#	Sex	Length (fork)	weight
75	M	45	3.2
76	F	24	0.8
77	F	34	1.15

A tag was found on a milk shark (*Rhizoprionodon acutus*). Total length 85 cm; weight 3.75 kg. The tag is a red spaghetti tag (conventional) that was attached at the base of the dorsal fin. You were the first to notice the tag while you were sampling. The fish was retained as part of the catch. Tag info is below:

HCP5499934 Spanish Inst.Ocean. Vigo

You've identified the new fish as a swallowtail seaperch (*Anthias anthias*) which is in the family Serranidae. You did not take any photos but you collected the fish for ID verification back at the observer program. The specimen is 16cm (fork), 19cm (total) and weighs 0.4 kg. The coloration is red/orange and has some yellow blotches/stripes on its back & stripes on opercle. The dorsal fin has 10 spines and 15 rays and the anal fin has 3 spines and 8 rays.

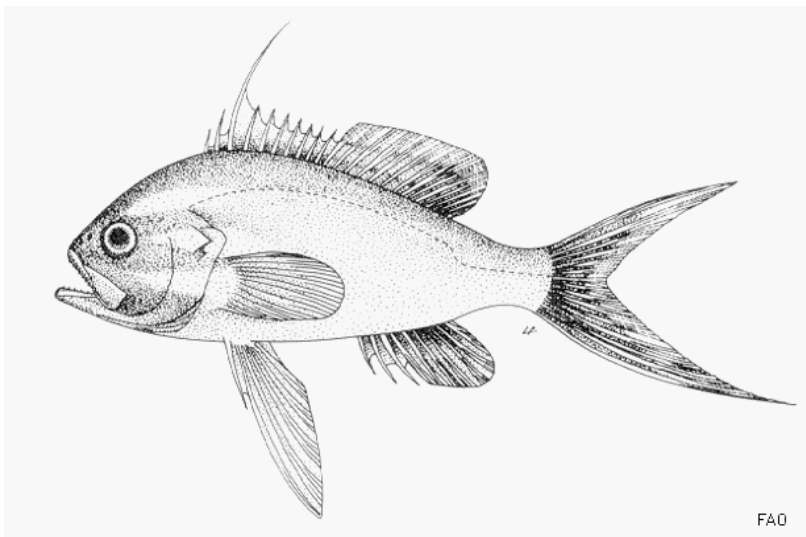


Image: Schneider (1990)

Specimen Collection

Observer code	Vessel code	Trip ID
Date (dd/mm/yy)	Haul	

Species Name	Species Code	Spec. Type	Specimen #	Sex	Mat.	Length	Length Type	Weight (kg)	Comment

Specimen Type 1 - whole animal 2a - scales 2b - spine/ray 2c - otoliths	2d - thorn 2e - vertebrae 3 - stomachs	Sex: M - Male F - Female I - Indeterminate U - Unknown	Common length types (record as number & letter combination): 01 - Fork 02 - Total (natural) 03 - Standard 05 - Lower jaw to fork 13 - Total (stretched or pinched) 34 - Carapace length (lobster) 37 - Carapace length (crab) 38 - Carapace width (crab) S - Straight C - Curved E - Estimated
--	--	---	--

Tag Encounter and Recovery

Observer code	Vessel code	Trip ID	Haul / Set
---------------	-------------	---------	------------

Tag Information	
Tag Number	Check one: <input type="checkbox"/> Applied <input type="checkbox"/> Recaptured & released alive <input type="checkbox"/> Removed
Tag type	Tag location
<input type="checkbox"/> Conventional <input type="checkbox"/> Archival (implanted) <input type="checkbox"/> Electronic (other) <input type="checkbox"/> Other _____	<input type="checkbox"/> Below 1st dorsal fin <input type="checkbox"/> Behind pectoral <input type="checkbox"/> Opercle <input type="checkbox"/> Belly
	<input type="checkbox"/> Carapace <input type="checkbox"/> Other _____
	Tag color
	<input type="checkbox"/> Blue <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Red <input type="checkbox"/> Pink <input type="checkbox"/> Orange <input type="checkbox"/> White <input type="checkbox"/> Metal <input type="checkbox"/> Other _____
Who found tag?	When was tag found?
Name:	<input type="checkbox"/> While fishing
Address:	<input type="checkbox"/> During offload
Phone/email:	Date:
	Location:

Fish Information							
Species name	Species code	Length (cm)	Weight (kg)	Sex (M,F,I,U)			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"> Structures collected? <input type="checkbox"/> Otoliths <input type="checkbox"/> Scales <input type="checkbox"/> Other: _____ <input type="checkbox"/> None </td> <td style="width: 35%;"> Length types (Circle # and letter) 01 Fork C Curved 02 Total S Straight 03 Standard E Estimated 04 Eye to fork 05 Lower jaw to fork 11 Disc width </td> <td style="width: 35%;"> Weight types (Circle # and letter) Blank - no weight A Actual 01 Whole E Estimated 02 Gilled & gutted 03 Gilled & headed 04 Headed & gutted 99 Other, describe in comment </td> </tr> </table>					Structures collected? <input type="checkbox"/> Otoliths <input type="checkbox"/> Scales <input type="checkbox"/> Other: _____ <input type="checkbox"/> None	Length types (Circle # and letter) 01 Fork C Curved 02 Total S Straight 03 Standard E Estimated 04 Eye to fork 05 Lower jaw to fork 11 Disc width	Weight types (Circle # and letter) Blank - no weight A Actual 01 Whole E Estimated 02 Gilled & gutted 03 Gilled & headed 04 Headed & gutted 99 Other, describe in comment
Structures collected? <input type="checkbox"/> Otoliths <input type="checkbox"/> Scales <input type="checkbox"/> Other: _____ <input type="checkbox"/> None	Length types (Circle # and letter) 01 Fork C Curved 02 Total S Straight 03 Standard E Estimated 04 Eye to fork 05 Lower jaw to fork 11 Disc width	Weight types (Circle # and letter) Blank - no weight A Actual 01 Whole E Estimated 02 Gilled & gutted 03 Gilled & headed 04 Headed & gutted 99 Other, describe in comment					

Invertebrate Information							
Species name	Species code	Length (cm)	Weight (kg)	Sex (M,F,I,U)			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"> Structures collected? <input type="checkbox"/> Carapace <input type="checkbox"/> Eggs <input type="checkbox"/> Other: _____ <input type="checkbox"/> None </td> <td style="width: 35%;"> Length types (Circle one) 02 Total 32 Body 34 Carapace length (lobster) 37 Carapace length (crab) 38 Carapace width (crab) </td> <td style="width: 35%;"> Weight types (Circle # and letter) Blank - no weight A Actual 01 Whole E Estimated 99 Other, describe in comment </td> </tr> </table>					Structures collected? <input type="checkbox"/> Carapace <input type="checkbox"/> Eggs <input type="checkbox"/> Other: _____ <input type="checkbox"/> None	Length types (Circle one) 02 Total 32 Body 34 Carapace length (lobster) 37 Carapace length (crab) 38 Carapace width (crab)	Weight types (Circle # and letter) Blank - no weight A Actual 01 Whole E Estimated 99 Other, describe in comment
Structures collected? <input type="checkbox"/> Carapace <input type="checkbox"/> Eggs <input type="checkbox"/> Other: _____ <input type="checkbox"/> None	Length types (Circle one) 02 Total 32 Body 34 Carapace length (lobster) 37 Carapace length (crab) 38 Carapace width (crab)	Weight types (Circle # and letter) Blank - no weight A Actual 01 Whole E Estimated 99 Other, describe in comment					

Comments

Misc. Fish Species Description

Observer code: _____ Vessel Code: _____ Trip ID: _____

Common name / code: _____

Haul: _____ Specimen collected? **Y / N** Total length (cm): _____ Fork length (cm): _____

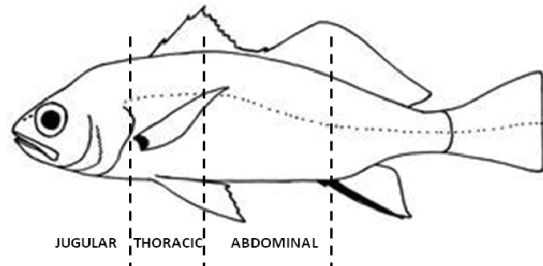
Date: _____ Photos? **Y / N** Weight (kg): _____

Sex: **M / F / I / U**

Check box for presence/absence Present Absent

Adipose fin	Present	Absent
Pelvic fins		
Chin barbel		

Pelvic fin position (circle one)



	How many?	Spines	Rays
Dorsal fins			
Anal			

Describe color : _____

	Upper	Lower
Gill rakers		

Draw the animal and include the following:

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Shape of dorsal fin –fill in spine heights 2. Caudal fin shape 3. Pectoral fin shape 4. Anal fin shape | <ol style="list-style-type: none"> 5. Pelvic fin position 6. Lateral line(s) 7. Position of any spines, cirri, barbells, etc. |
|--|--|

Additional field characteristics used to identify this species: