

## Week 3 Dichotomous Identification Key Common larval fishes of the Western Antarctic Peninsula

Always start with the first question, Q1. In this case, the questions are worded as statements. Choose the statement that best describes the organism in the photo, and then follow the instructions which will tell you which Question to go to next. Don't worry if that means you skip over a question – just follow the directions and you will get to an identification when you are done. Refer to the fish anatomy drawing on the last page of this key. Good luck!

## Question 1 (Q1)

1a – The eyes of the fish are on long,	, tubular stalks that extend away from the
skull	Bathylagus antarcticus (deep sea smelt)
1b – The eyes are not on stalks	Go to Q2

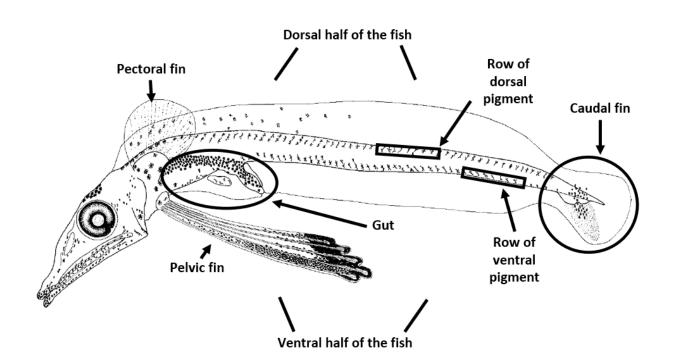
Q2	
2a – The eyes are oval, or bean shaped 2b – The eyes are circular	
Q3  3a — Part of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards, creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards and creating a shape that resolution of the eye extends downwards a shape tha	lae (lanternfish) ong and thin
<b>Q4</b> 4a – There is no pelvic fin visible 4b – A pelvic fin is visible	
Q5  5a – The fish is short and fat, almost bloated. The gut is massive, si and extends to ~50% of the body length. The body is entirely cover except for the caudal fin region	red in pigment, led plunderfish) only ~30% the atterns may be
<b>Q6</b> 6a – There are two rows of short spines that go along the length of row is near the dorsal side and the other row is near the ventral side body is covered in pigment	de. The entire ctic dragonfish)
<b>Q7</b> 7a – The fish is mostly white, with <b>two</b> , thick vertical stripes of pigr body	<b>s</b> (grey rockcod) ne stripe on the

Q8 8a — There are dozens of thin vertical stripes that run the length of the body. There is also pigmentation above the gut, behind the head, and on the dorsal side of the body
Q9 9a – The body is mostly white, with a single row of pigment on the dorsal part of the body. There is also some pigmentation directly above the gut and behind the skull
Q10  10a – The pelvic fin is much longer than it is wide; it extends over 50% of the body. It has a length of approximately 20 millimeters (mm) or more
10b – The pelvic fin is short; it is only as long as it is wide. It has a length of approximately 10 mm or less
Q11  11a – The entire pelvic fin, from the part attached to the body and extending outwards to the end of the fin, is darkly pigmented
Q12  12a – There is a patch of pigmentation on the dorsal area of the body directly behind the head. The pigmentation extends only halfway down the length of the body, the remaining body and tail are whitePagetopsis macropterus (icefish)  12b – There are dozens of thin vertical stripes that run the entire length of the body

## Q13

13a – The sides of the bo	ody are white. There is a single row of pigmentation that
runs along the dorsal poi	rtion of the fish
13b – There are dozens o	of thin vertical stripes that run the entire length of the
body	

## **Fish Anatomy**



Modified from Kellermann 1990