

I.D. Antarctica



Week 2 Dichotomous Identification Key Common zooplankton 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. Good luck!

Question 1 (Q1)

1a – The zooplankton is long and skinny, shaped like a pencil. It may have many	
egs or no legsGo to Q	2
1b – The zooplankton is <u>not</u> shaped like a pencil. It may have many legs or no	
egsGo to Q	3

Q2

2a - It has a long body with many legs, over 15 p	airs. It has two red bands of color
going across its body	<i>Tomopteris</i> spp. (bristle worm)
2b - It has an arrow shaped head and wing-like s	structures near the tail. No legs
present	Chaetognatha (arrow worm)

Q3

3a – The organism is gelatinous, transparent, or totally soft tissued. N	/lay have
tentacles, but no legs are present	Go to Q4
3b - The organism is not transparent or gelatinous; it appears to have	e hard
external body parts such as an exoskeleton or shell. May have legs, n	o tentacles
are present	Go to Q9

Q4

4a – Tentacles are present	Go to Q5
4b – Tentacles are not present	Go to Q6

Q5

5a – There are obvious eyes and eight or fewer tentacles
Cephalopoda (squid)
5b – No eyes present. The organism is completely round and has more than eight
tentacles Cnidaria (jellyfish)

Q6

6a – The body is mostly clear or cloudy white. There may be a single reddi	ish spot
present	Go to Q7
6b – The body is mostly colored, normally orangish or black	Go to Q8

Q7

7a – There is a single, large reddish spot	Salpa thompsoni (salp)
7b – The body is round and it has rows of cilia (the	y look like small hairs)
	Ctenophora (ctenophore)
7c – The body is boxy with no cilia	Siphonophorae (siphonophore)

Q8

8a – The body is mostly orange	Clione limacina (sea angel)
8b – The body is mostly black	<i>iobranchaea australis</i> (also a sea angel)

Q9

9a – The organism has no legs	Go to Q10
9b – The organism has legs	Go to Q11

Q10

10a – The organism's shell is round and twiste	d
-	<i>Limacina helicina</i> (sea butterfly)
10b – The organism's shell is shaped like a	
cone	Clio pyramidata (also a sea angel)

Q11

11a – There are no eyes visible	Go to Q12
11b – There are obvious eyes visible. (Zooplankton eyes can be many diff	erent shapes,
sizes, and colors. Some species have small black dots, some have orange eyes, a	ind some
resemble the compound eyes of insects)	Go to Q13

Q12

12a – The organism looks like a spider and has eight legs
Pycnogonida (sea spider)
12b – The organism looks like a grain of rice with antennae at one end
Copepoda (copepod)

Q13

13a – The organism looks like a shrimp. It has orange coloration or is totally	
orange with a greenish patch right behind its head	Go to Q14
13b – The organism is shorter and does not look like a shrimp. The body is	
sometimes curved. There is no green patch present	Go to Q15

Q14

14a – The eye is circular in shape and small compared to body
14b – The eye is bean shaped and large compared to the body

Q15

15a – The eye is large compared to the body	r, almost as big as the head. The
surface of the eye looks bumpy	Hyperiidea (hyperiid amphipod)
15b – The eye is small compared to the body and smooth	
	Gammaridea (gammarid amphipod)