

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, skinny and tube-like. It may have many legs or no legsGo to (
1b – The zooplankton is <u>not</u> long and skinny and tube-like. It may have many leg	S
or no legsGo to 0	Q3
Q2	
2a – It has a long body with many legs, over 15 pairs. It has two red bands of col	
going across its body	-
2b – It has an arrow shaped head and wing-like structures near the tail. No legs	
presentChaetognatha (arrow worm	1)
Q3	
3a – The organism is gelatinous, transparent, or totally soft tissued. May have	
tentacles, but no legs are presentGo to C	Q 4
3b – The organism is not transparent or gelatinous; it appears to have hard	
external body parts such as an exoskeleton or shell. May have legs, no tentacles	,
are presentGo to (Q 9

Q4
4a – Tentacles are present
4b – Tentacles are not presentGo 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
teritacieseritacia (jenyrisii)
Q6
6a – The body is mostly clear or cloudy white. There may be a single reddish spot
presentGo to Q7 6b – The body is mostly colored, normally orangish or blackGo to Q8
6b – The body is mostly colored, normally orangish of black
Q7
7a – There is a single, large reddish spot
7b – The body is round and it has rows of cilia (they look like small hairs)
7c – The body is boxy with no cilia Siphonophorae (siphonophore)
Q8
8a – The body is mostly orange
8a – The body is mostly orange
8b – The body is mostly blackSpongiobranchaea australis (also a sea angel)
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Q11
11a – There are no eyes visibleGo to Q12
11b – There are obvious eyes visible. (Zooplankton eyes can be many different shapes,
sizes, and colors. Some species have small black dots, some have orange eyes, and 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 headGo to Q14
13b – The organism is shorter and does not look like a shrimp. The body is
sometimes curved. There is no green patch presentGo to Q15
Q14
14a – The eye is circular in shape and small compared to body
Euphausia superba (Antarctic krill)
14b – The eye is bean shaped and large compared to the body
Thysanoessa macrura (krill)
Q15
15a – The eye is large compared to the body, 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