






# California Inverts & Algae, Part 4

Fishinar 9/16/2015, Jonathan Lavan – Instructor

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## Bryozoans, Tunicates and Algae

<p><b>REEF</b> <b>1. Fluted Bryozoan</b> Up to 5 in. (width), 4 in. (height)</p>  <p>Steve Lonhart 7</p>	<p>Fan-like tightly curled folds.</p>
<p><b>REEF</b> <b>2. Lacy Bryozoan</b> To 2.5 in. (height), 8.5 in. (width)</p>  <p>Janna Nichols 9</p>	<p>Forms upright pinkish-orange or white lace-like colonies.</p>
<p><b>REEF</b> <b>3. Northern Staghorn Bryozoan</b> To 4 in. (height), 4 in. (width)</p>  <p>diver.net Chris Grossman 11</p>	<p>Resembles coral. The branches are round in cross-section and are light yellow.</p>

**4. Southern Staghorn Byzoan**

To 4 in. (height), 6 in. (width)



Chris Grossman

13

Light to dark yellow. The cross-section of the branches are flattened.

**5. Light-Bulb Tunicate**

To 2 in. (height), 20 in. (width)



Chris Grossman

15

Has a transparent skin with visible internal organs that look like the filament of a light bulb.

**6. Stalked Tunicate**

Up to 10 in.



Chris Grossman

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Solitary, with vertical ridges and one siphon that is down-turned like a dog ear. High current and surge areas.

**7. Club Tunicate (invasive)**

Up to 10 in.



Janna Nichols

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Invasive, lacks vertical ridges, warty, and siphons are both upright.

**8. Bull Kelp**

Up to 90 ft./5 in. (diameter of pneumatocyst floats)



John Wolfe

31

A single, narrow stipe (stem), which gradually increases in diameter to one single pneumatocyst (float). From there, two clusters of blades grow.

**REEF 9. Giant Kelp**

Up to 150 ft.



Deb Karimoto

33

Two species, both which grow very quickly and have multiple floats. Blades are textured and have serrated edges.

**REEF 10. Northern Sea Palm**

Up to 8 ft.



Jeff Mondragon

35

The stipe ends in a flattened, oblong area, from which multiple blades grow. (One stem points north).

**REEF 11. Southern Sea Palm**

Up to 3 in.



Steve Lonhart

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Has a distinctive, Y-shape at the top of the stipe. The two short branches support numerous blades.

**REEF 12. Oarweed**

Up to 15 ft.



Lauren Ragsac

39

One short stipe leads to one single large blade. There is no pneumatocyst and the blade tends to lie on the bottom. Large like a beach towel in size.

**REEF 13. Asian Wakame (invasive)**



Steve Lonhart

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Invasive, a prominent ridge runs down the blade. Spikey and ruffled in texture.