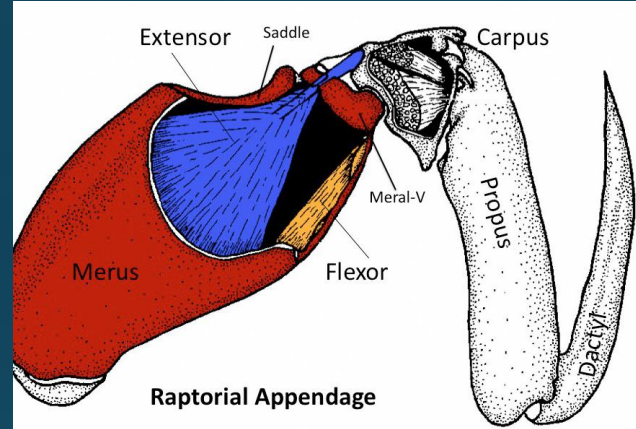


What do mantis shrimp eat?

How can we find out?

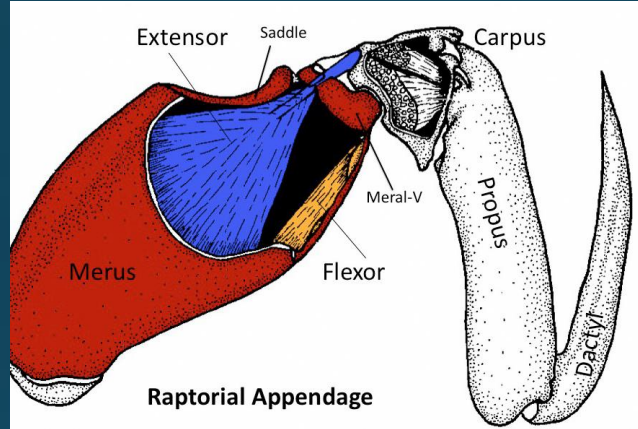
How can we find out?

- Morphology
- Stomach contents
- Fecal contents
- Observations

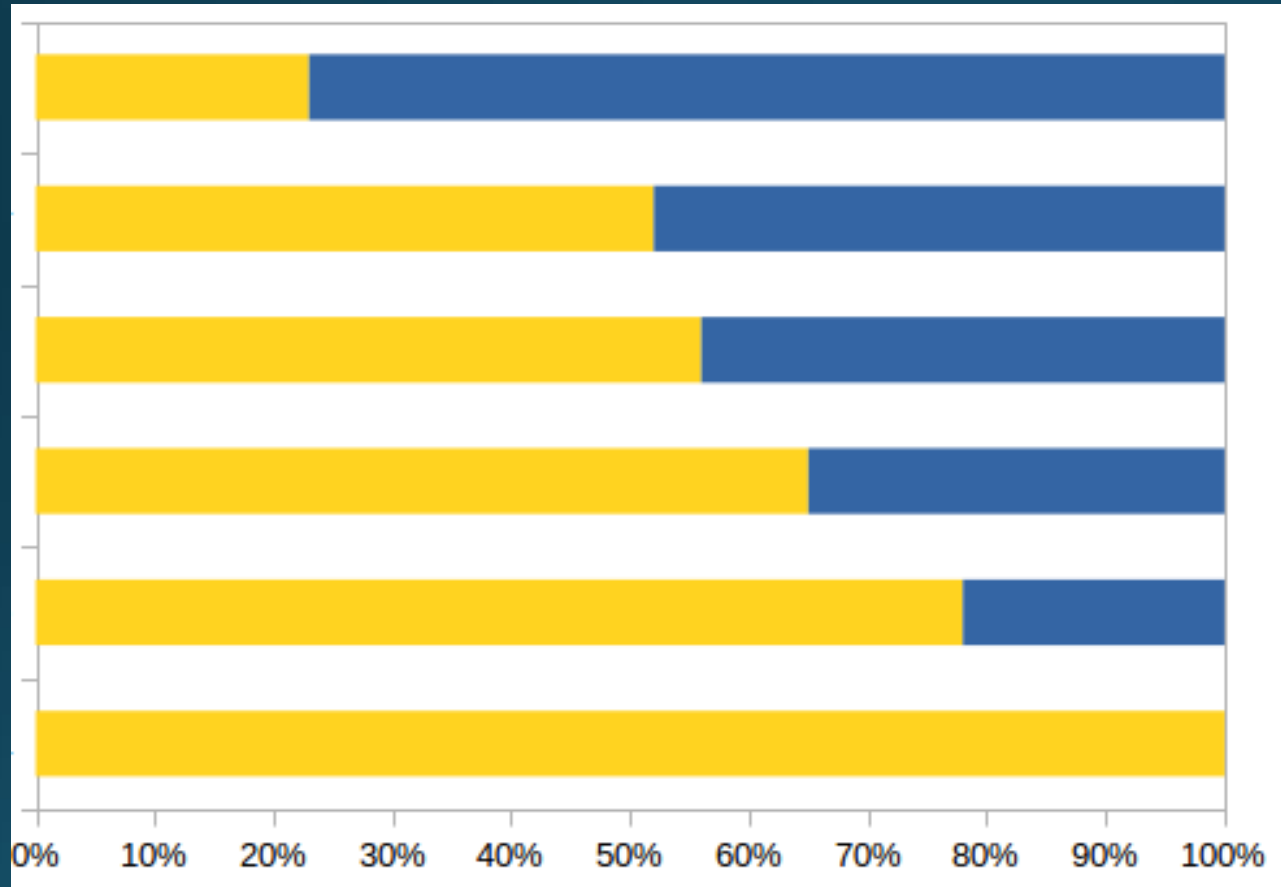
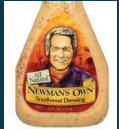


Limitations

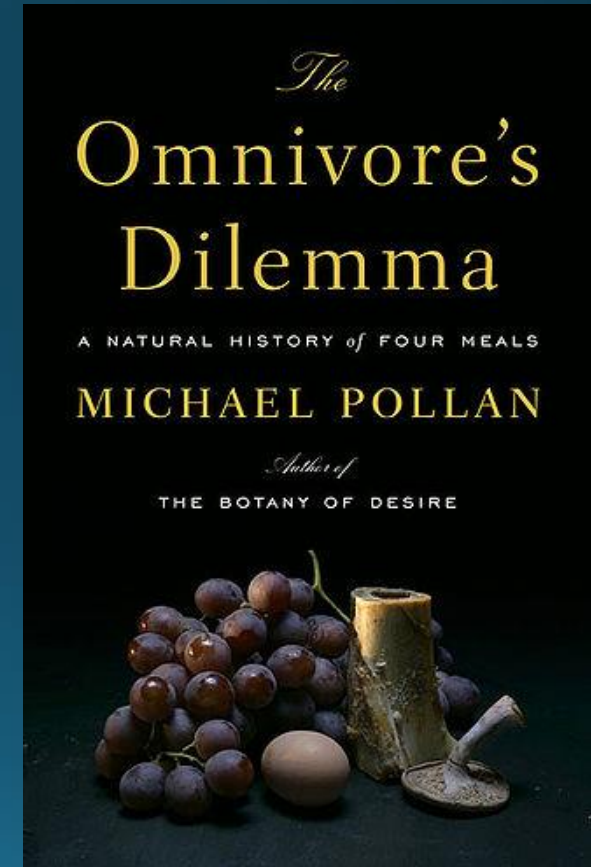
- Indirect
- Recent snapshot
- Time/labor
- Difficult to get %



Stable isotopes



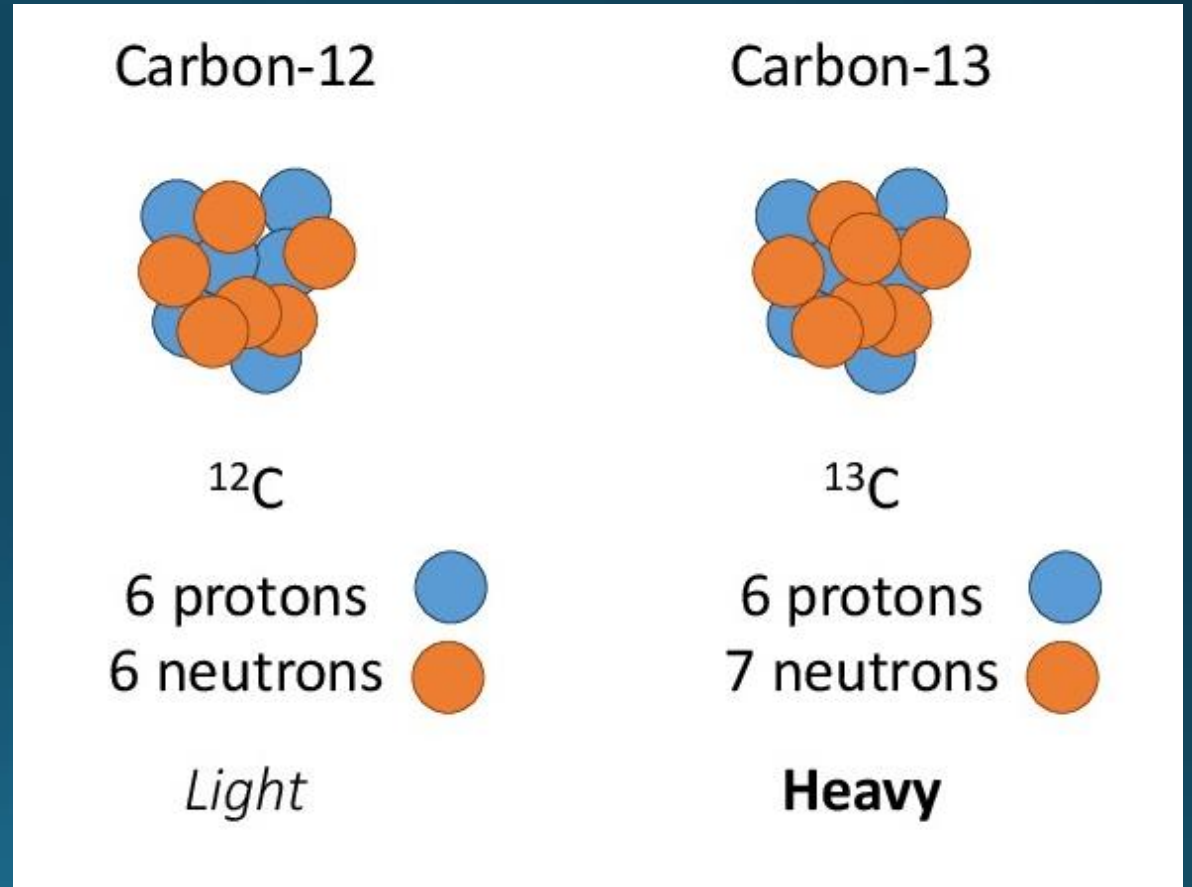
Percent Corn



p. 19-23, 116-117

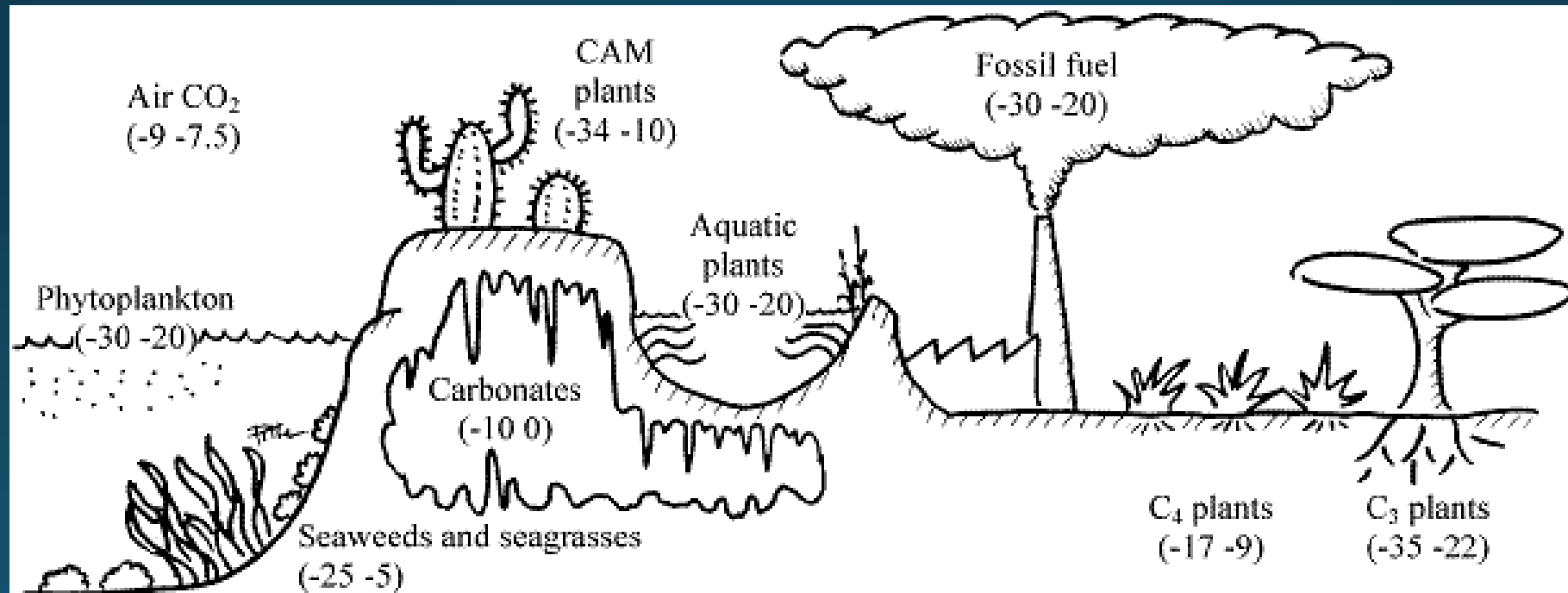
Stable isotopes

1. What is an isotope?



Stable isotopes

1. What is an isotope?
2. Isotopes vary



Stable isotopes

1. What is an isotope?
2. Isotopes vary
3. You are what you eat

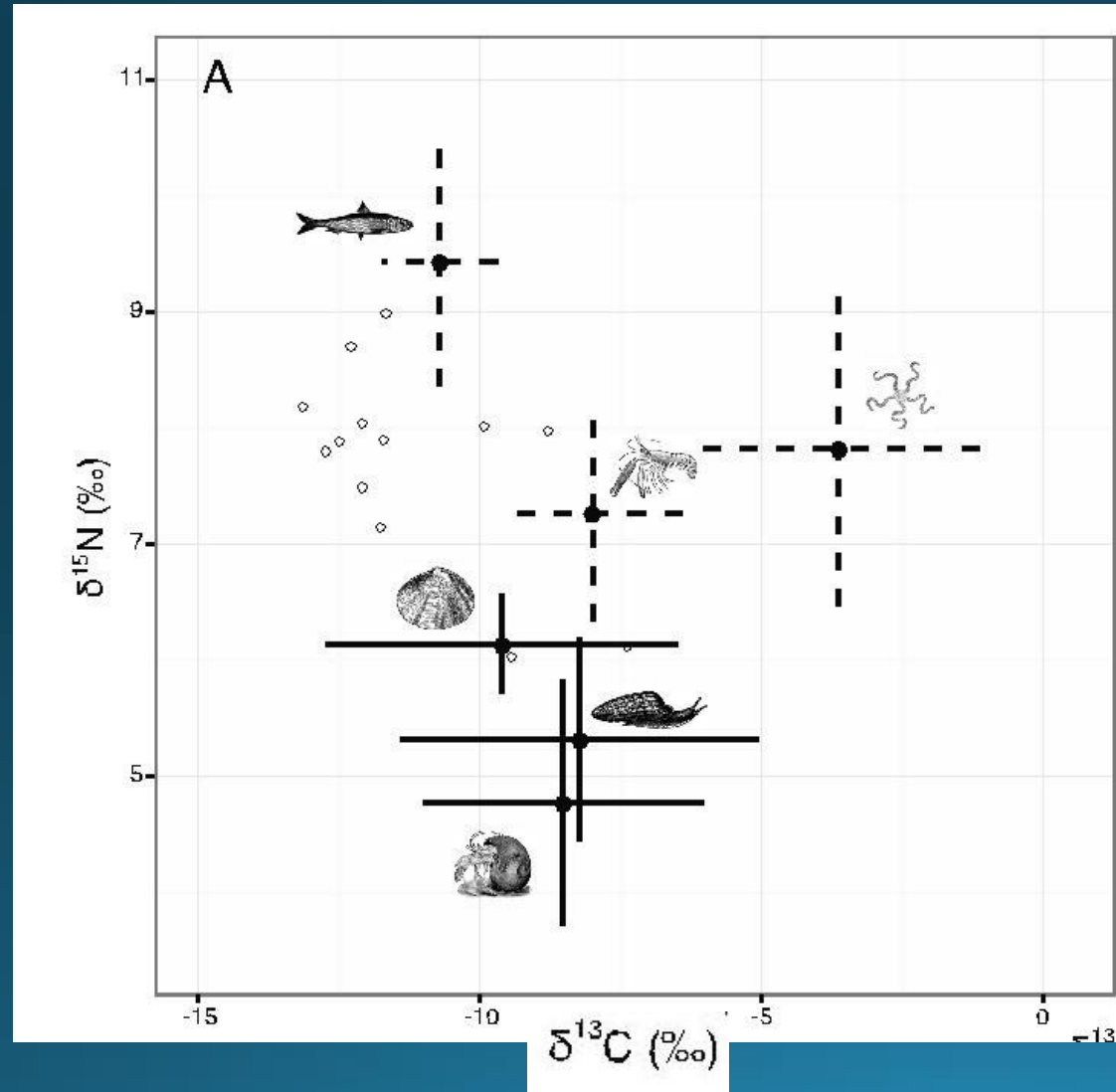


Stable isotopes

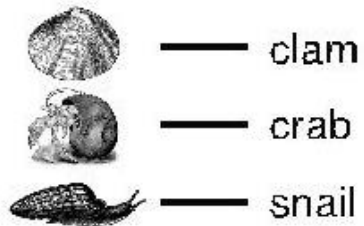
1. What is an isotope?
2. Isotopes vary
3. You are what you eat



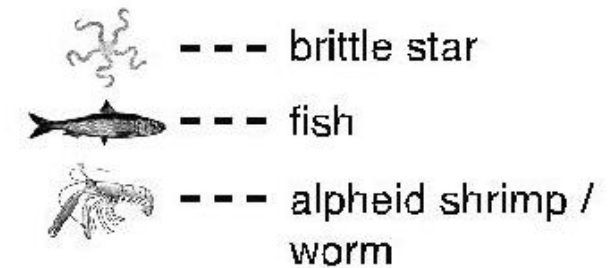
So... what do **mantis shrimp** eat?



Hard-shelled sources

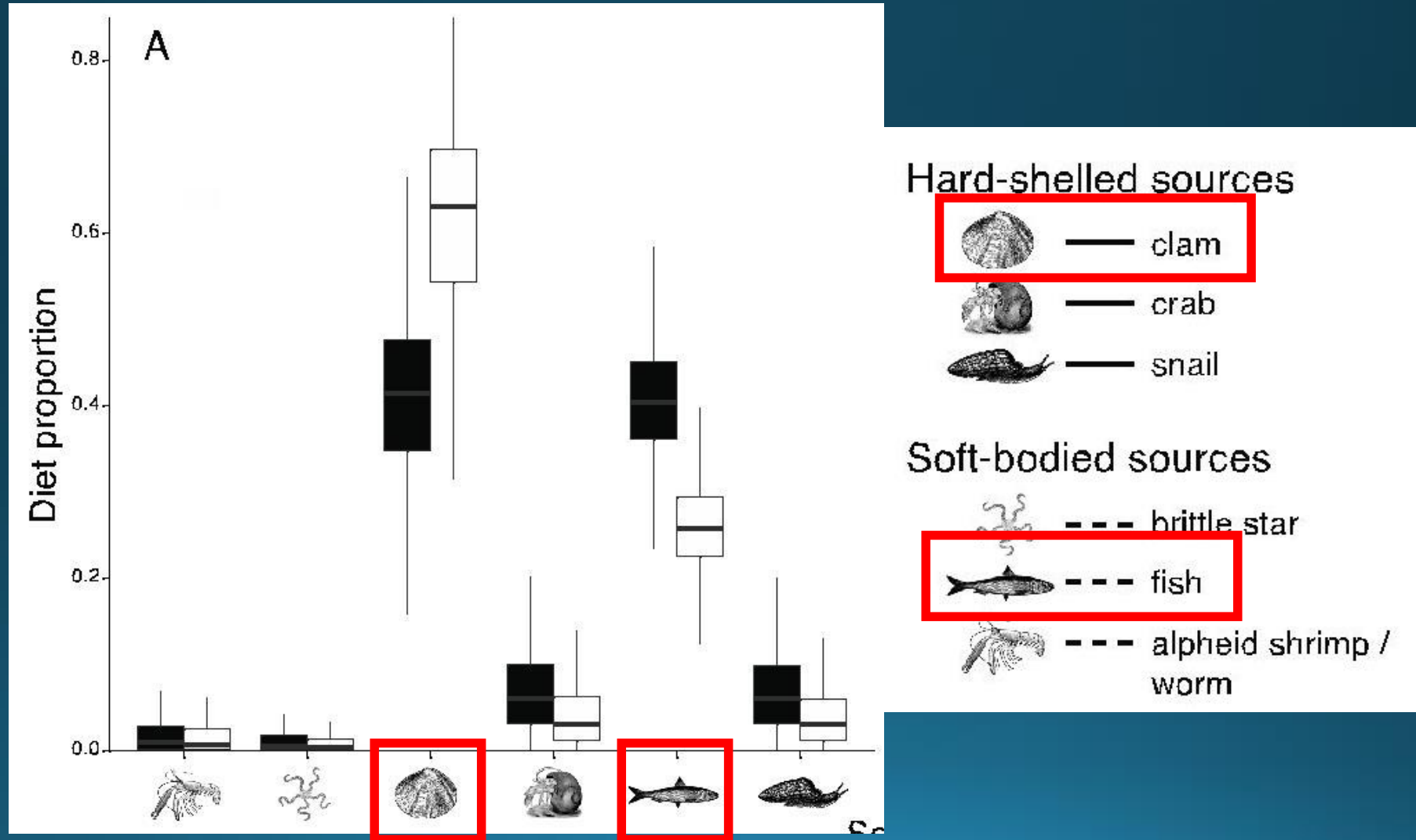


Soft-bodied sources



So... what do mantis shrimp eat?

Clams
and
Fish



I hope you've learned...

- Tools for estimating animal diets
- Stable isotopes
- Despite having specialized smashers, mantis shrimp eat a mix of hard and soft-shelled prey

Brian Stock

b1stock@ucsd.edu

<http://www.semmenslab.org/>