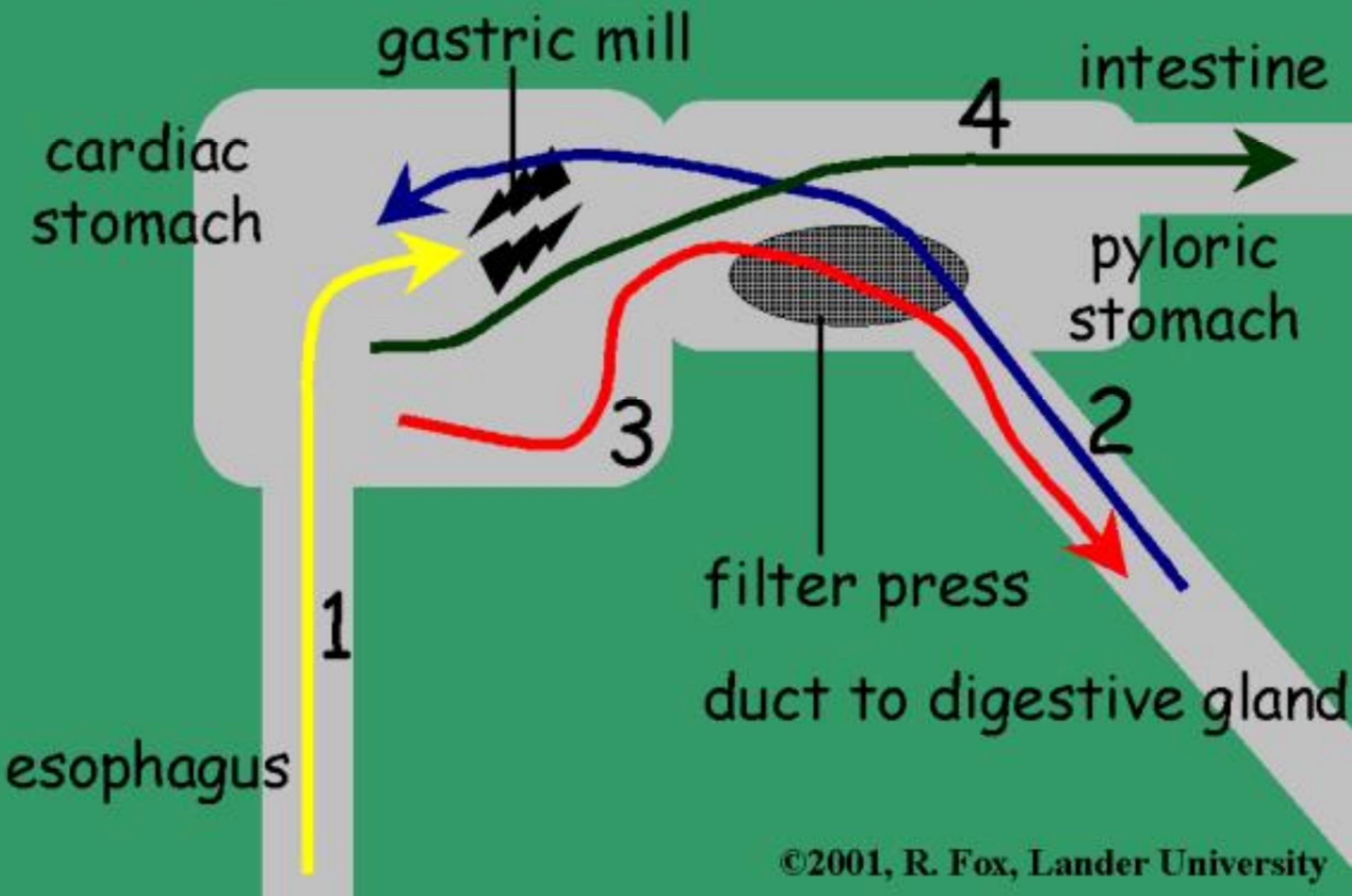


Potpourri

17. Decapod Proventriculus



Fun Stuff



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↪ FISH310 retweeted

 **Bonnie J. Becker** @pisastero 11h

Help identify this sponge, pop exploding in Dyes Inlet, Puget Sound. Smothering Oly #oysters. Spicules included.



FISH310 retweeted



Christopher Mah @echinoblog

16h

Fossil **#pentastomid** - A 425-million-year-old parasite found attached to host [bbc.com/news/science-e...](http://bbc.com/news/science-environment-33910000)

FISH310 retweeted



NAI'A @divenaia

4d

Can anyone identify this ridonkulous nudibranch?



Hakai

Hakai Institute @HakaiInstitute

1d

How do you age clams?

Like trees, count growth rings!

New paper @PLOSONE by @jmsharding et al
journals.plos.org/plosone/article...



rt FISH310 retweeted



Smithsonian's NMNH @NMNH

23h

New Shrimp Species in the Deep Ocean: s.si.edu/1JDTUN2 by @InvertebratesDC, Image via @oceanexplorer



FISH310 retweeted



Science News @ScienceNews

1d

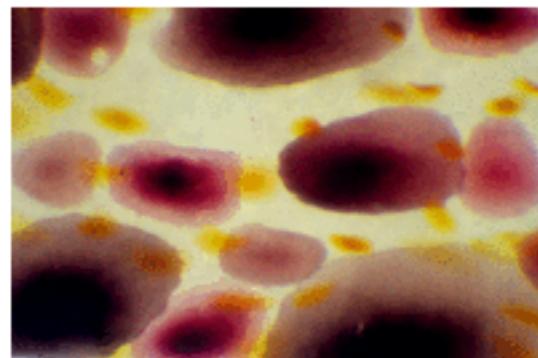
Octopuses can 'see' with their skin — no eyes or brain required: ow.ly/Nd9pk



Cephalopods sense light with skin

Kathryn Knight

kathryn@biologists.com



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Chromatophores in the skin of *Doryteuthis pealeii*. Photo credit: Alexandra Kingston.

Evidence for distributed light sensing in the skin of cuttlefish, *Sepia officinalis*

Lydia M. Mäthger, Steven B. Roberts, Roger T. Hanlon

DOI: 10.1098/rsbl.2010.0223 . Published 13 September 2010

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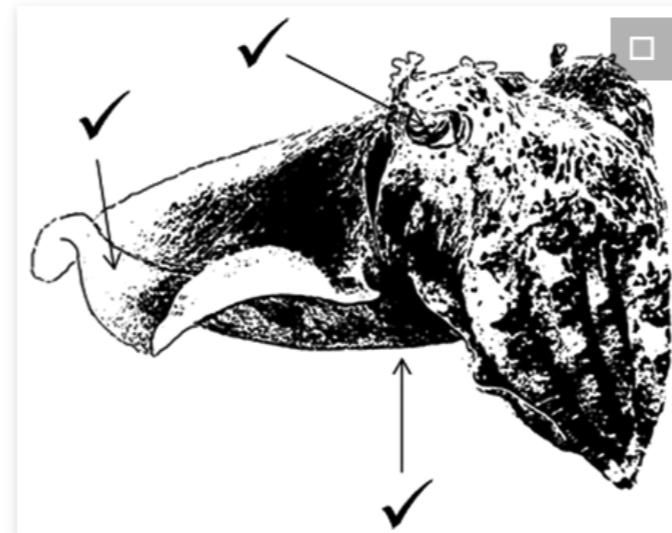


Figure 1.

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October 2010
Volume: 6 Issue: 5



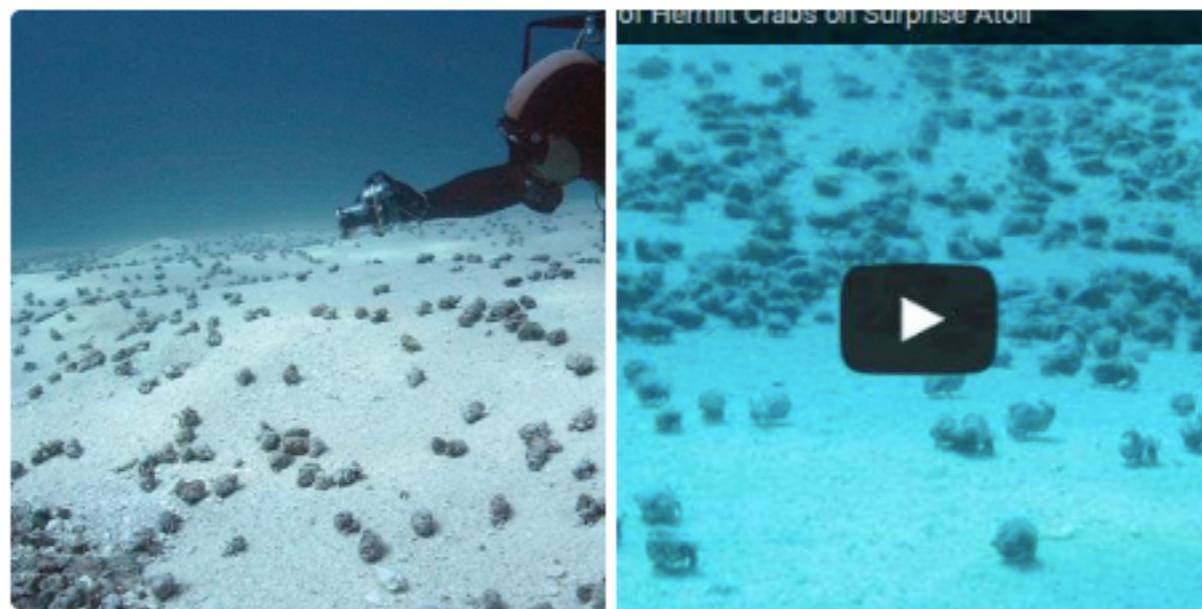
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MT @LivingOceansFdn: Hermit crab aggregation, New Caledonia
bit.ly/1IOM5DB



FISH310 retweeted



Carina M. Gsottbauer @CarinaDSLR

2d

I'm just gonna leave this here.
#crab #love

Photo by budak
flickr.com/photos/budak/1...



<https://youtu.be/lLooRwRCmUw?>



FlowerGardenBanksNMS @fgbnms

2d

New squat lobster species id'd among black corals in
#GulfofMexico named for @fgbnms staff person.



2 Specimens of a
new species of
squat lobster

FISH310 retweeted



Christopher Mah @echinoblog

2d

New Post! Cidaroid sea urchins & their weird spines!
deepsea.echinoblog.blogspot.com/2015/05/what-i...





Sea urchin tests (their skeletons) esp. cidaroids are pretty cool here's some art: echinoblog.blogspot.com/2013/08/the-se...



FISH310 retweeted



NOAA Ocean Explorer @oceanexplorer

2d

On the move! Video of brittle star making its way (missing limbs & all) across seafloor: go.usa.gov/38Ma5



FISH310 retweeted



New Scientist @newscientist

5/13/15

This beauty is one of the aquarium trade's mystery stars. It turns out to be a new species ow.ly/MUfnu



FISH310 retweeted



UW CoEnvironment @UW_CoEnv

5/12/15

#AmplifySci on 5/19 will cover #openscience & #openaccess! Let's chat pros, cons, & implementation. Details & RSVP: ow.ly/MOYTH

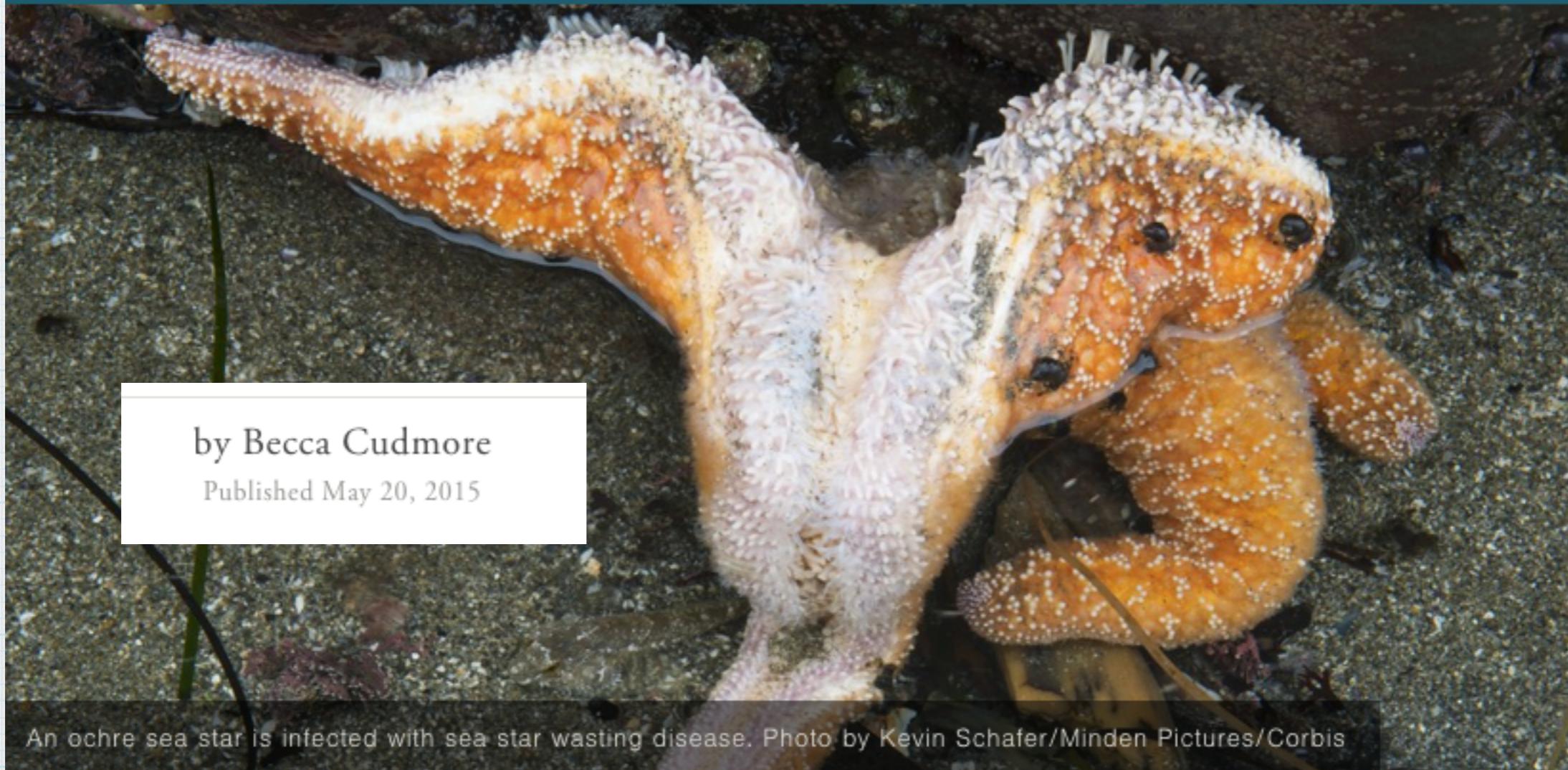
FISH310 retweeted



Skylar Bayer @strctlyfishwrap

5/12/15

Sea Lice and Salmon farming video... interesting and informative. fb.me/4yIIAywOG



by Becca Cudmore

Published May 20, 2015

An ochre sea star is infected with sea star wasting disease. Photo by Kevin Schafer/Minden Pictures/Corbis

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900 words / About 5 mins

Striking While the Water Is Warm

Last year scientists linked the actual symptoms of sea star wasting with a virus. But as those scientists noted in their study, that virus, a type of densovirus, was present in sea stars at least 72 years ago.

Clearly there's something different about this outbreak, one that has seemingly defied the geographic and seasonal limits of its predecessors. So what is it?

The key to historical die-offs always seems to be heat.

In 1978, wasting disease nearly eliminated the common sun star, an eight- to 14-armed species, in the Gulf of Mexico. At the time, Gulf waters were well above historical averages. The next recorded outbreak, in the early '80s, coincided with the ocean warming brought on by the 1982-83 El Niño. And in the summer of 1997, another El Niño saw a quarter of California's Channel Island stars disintegrated.

"We were calling it an echinoderm wasting back then," says John Engle, who studied the 1997 outbreak.

In the Channel Island outbreak, sea cucumbers, anemones, and brittle stars also succumbed to the warm water. In all of these past events, the epidemic ceased with the onset of autumn. It was like cool water somehow healed the stars, says Engle. In certain cases, you could even place sick stars into a bath of cold water and halt the disease.

Marine biologists are baffled by the current epidemic, says Engle, because the wasting has continued to spread through winter as well as summer. "It's just really curious that it's not closely tied to warm temperatures," he says.

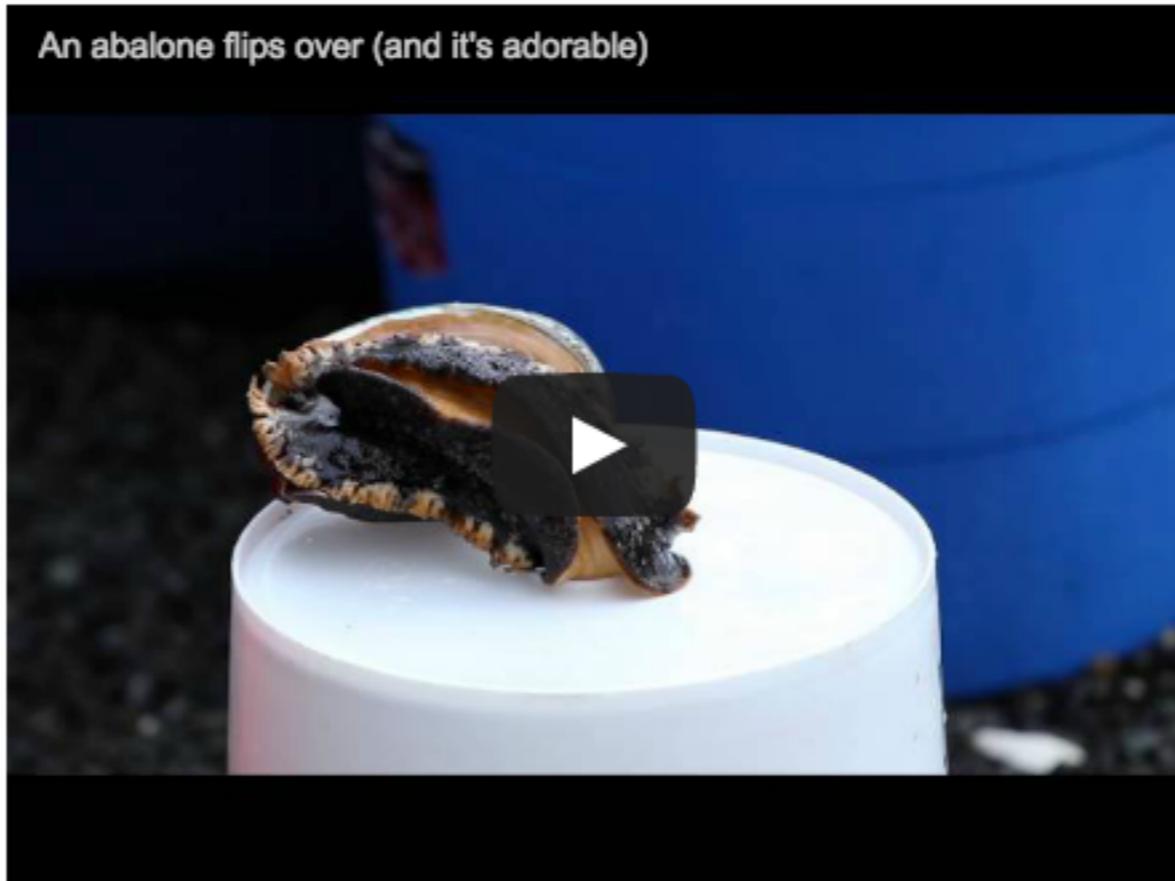
So has the virus adapted to cold water?

This Sea Snail Is Tasty, Pretty And Poached To The Brink

By Ashley Ahearn, kuow.org

May 17th, 2015

[View Original](#)



MUKILTEO, Wash. - In a dark fish tank at a government-run lab, a striking sea snail slowly inches from its hiding spot.

<https://youtu.be/bbNYy41Pzlw>

or this species.

Wildlife managers believe Washington's population of pinto abalone has declined by more than 92 percent since the early 1990s.

"We're going places where there should be wild abalone and they're not there," said Bob Sizemore, a research scientist with the state Department of Fish and Wildlife. "We're not seeing any wild juveniles at all, and we haven't for 20 years."

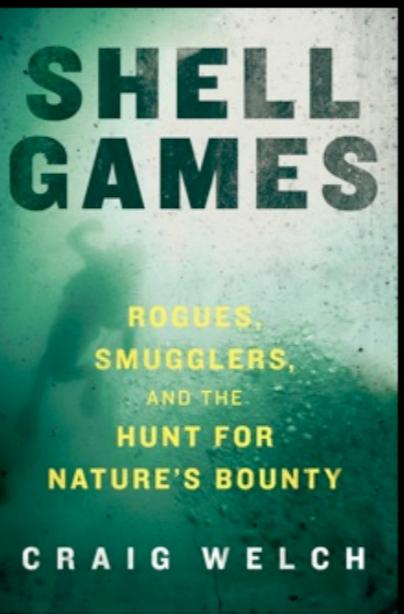
Shell Games



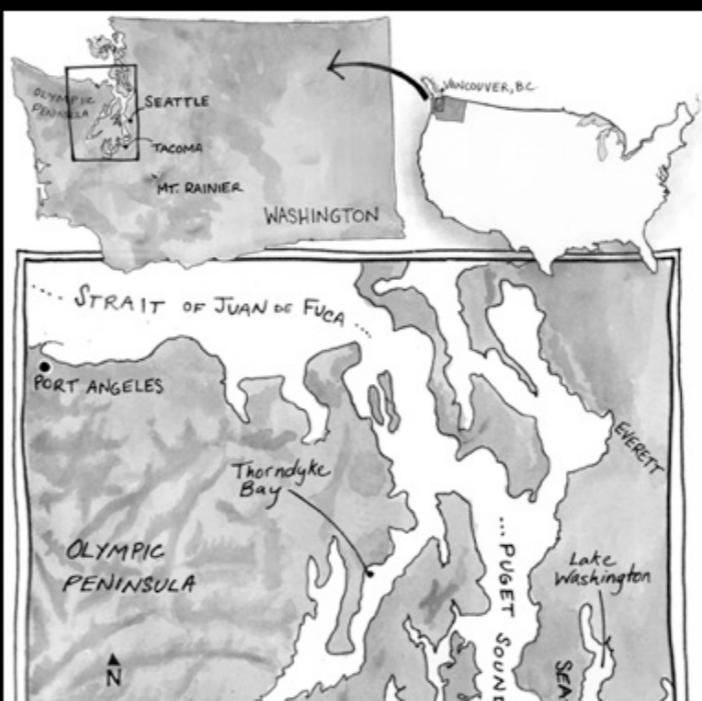
©2007 Natalie Fobes, www.fobesphoto.com

Shell Games is a unique blend of natural history and crime caper—a real-life drama about the theft of some of the world's most unusual creatures, set in one of the planet's most beautiful places. But it also serves as an exploration of North America's changing role in the global underground.

Craig Welch drops readers overboard into the frigid waters of Puget Sound, which sits south of the border between the U.S. and Canada. The Sound is home to the magnificent geoduck (pronounced "gooey duck"), the world's largest burrowing clam, a bizarre-looking creature that can live a century and a half. Comically proportioned but increasingly fashionable as seafood, the geoduck has been the subject of pranks, TV specials, gourmet feasts, and a legal commercial fishing industry. But this shellfish is so valuable it's also traded for millions of dollars on the black market—a world where outlaw scuba divers dodge cops while using souped-up



cover photo: Tom Reese



The book profiled a man named Dave Ferguson and how he profited from poached pinto abalone around Port Angeles. According to Welch, Ferguson made enough money to buy himself a new Jeep Cherokee and a fishing boat named the Abalone Made.

When Department of Fish and Wildlife cops busted him in 1994, Ferguson confessed and later became an informant, according to the book.

“Dave Ferguson was very good at it. He would get out on the water and sidle up to people and chat them up,” Welch said. “He was rough around the edges and nobody would have suspected a guy like that was working with the cops and he started feeding them information.”

One day, Ferguson’s boat exploded when he was on board. He spent weeks in the hospital and swore that it was sabotage and that other poachers were out to get him. He eventually resigned as an informant, headed to Alaska and, Welch writes, “was never heard from again.”

Ferguson never paid a fine or did any jail time for his poaching.

Sizemore and Bouma put on dive gear and drop into the water off the back of the Clamdestine, tubes in hand. They'll install the tubes 30 feet or so below the surface and let the mollusks acclimate to their surroundings. In 24 hours, they'll return to remove the netting from the ends of the tubes and the abalone will be free to explore their new habitat, and hopefully, to multiply.

With the hatchery program in place, the pinto abalone population at this site has crossed a threshold and is expected to be large enough for natural reproduction to start occurring here.

"This is a culmination of lots and lots of work," Sizemore said before putting on his scuba mask.

But these small reproductive pockets of abalone are just be a drop in the bucket, Sizemore said; recovery from decades of poaching and overharvesting may still be years away.

<https://youtu.be/fmfh0iL1WZc>

Arthropoda

Molting

Muscles

19



20

Sublasses

Malacostraca
Branchiopoda
Ostracoda
Copepoda
Pentastomida
Cirripedia

Crustacea

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Sublasses

Malacostraca → Orders
Isopoda
Branchiopoda Amphipoda
Ostracoda Euphausiacea
Copepoda Stomatopoda
Pentastomida Decapoda
Cirripedia

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Sublasses

Malacostraca → Orders
Isopoda
Branchiopoda Amphipoda
Ostracoda Euphausiacea
Copepoda Stomatopoda
Pentastomida Decapoda
Cirripedia

↓
Infraorders
Penaeidea Astacidae Anomura
Caridae Palinura Brachyura

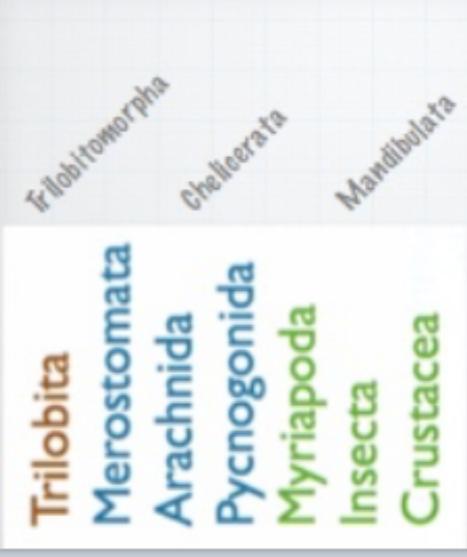
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Sublasses

Malacostraca
Branchiopoda
Ostracoda
Copepoda
Pentastomida
Cirripedia

Crustacea

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Arthropoda

Molting

Muscles

Trilobita

Merostomata

Arachnida

Pycnogonida

Myriapoda

Insecta

Crustacea

Trilobitomorpha

Chelicerata

Mandibulata

Subclasses

Malacostraca

Branchiopoda

Ostracoda

Copepoda

Pentastomida

Cirripedia

Subclasses

Malacostraca

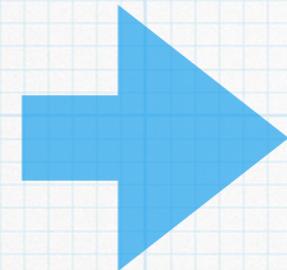
Branchiopoda

Ostracoda

Copepoda

Pentastomida

Cirripedia



Orders

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Amphipoda

Euphausiacea

Stomatopoda

Decapoda

Crustacea

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Malacostraca

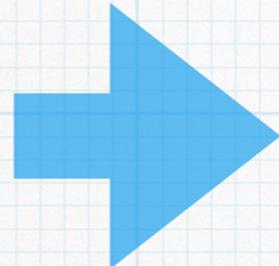
Branchiopoda

Ostracoda

Copepoda

Pentastomida

Cirripedia



Orders

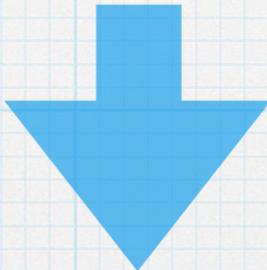
Isopoda

Amphipoda

Euphausiacea

Stomatopoda

Decapoda



Infraorders

Penaeidea

Caridae

Astacidae

Palinura

Anomura

Brachyura

Trilobita

Merostomata

Arachnida

Pycnogonida

Myriapoda

Insecta

Crustacea

Trilobitomorpha

Chelicerata

Mandibulata