

Fish 'N' Chips

A Monthly Marine Newsletter
August 2000 Issue

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From Liz

By Elizabeth M. Lukan 8/18/00

Clownfish Breeding Pairs Wanted - Fellow subscriber, Johan Bresler is desperately looking for Clownfish Breeding pairs. Johan is located in Durban, South Africa and he said that it would be easy for him to pick up deliveries at the airport in Johannesburg. Send Johan an email at jbresler@global.co.za if you help him.

eGroups Email Bouncing! As part of the integration of eGroups into the Yahoo! family of services, eGroups has announced email bouncing. If messages I send to you are returned to eGroups as undeliverable ("bouncing"), your eGroups account may be temporarily disabled. eGroups will periodically send test messages to check your email account if this happens. If eGroups' messages are returned without error, your account will be reactivated. If you want to reactivate your account manually, visit the eGroups site at <http://groups.yahoo.com/> (*updated 10/05/05*) and log in, visit your My Groups page and look for a bounce alert near the top of the page. Click on the alert link to reactivate your account.

Photo Page on Web Site - I've added a new page to the Fish 'N' Chips Web Site. The new photo page contains my first attempts at marine photography. No laughing at me please!

More Free Fish Buttons! Made some more freebies for ya! A series of dolphin buttons this

time. Go get them at my biz site, High Aspirations, Inc. (<http://www.highaspirationsinc.com/>).

Vacation Time! I will be on vacation from 8/27 to 9/3. I will not have access to a computer while away. Any emails sent will be answered after I return.

An FNC Web Ring? Back in the June issue I started a survey on whether you thought a FNC Web Ring was a good idea and if you'd join it or not, well everyone who voted thought it was a good idea, but that was only 6. 5 of those had sites they'd submit to the ring. That's pretty dismal voter turnout when you consider I have nearly 700 subscribers. So, I've shelved the idea for now, but not trashed it. Maybe I'll do it anyway, just because I want to. Speaking of web rings, on 8/7/00, WebRing (<http://www.webring.org/>), the free service that lets you create, manage, and power your web rings, sent me an email announcing it's integration with Yahoo! Any ideas I have on starting up a ring of our own will now also wait until WebRing is finished being swallowed up by Yahoo!

Visit This Month's Subscriber's Tank Showcase

Eric and Michelle Castren's Reef Tank is the Showcase for August and can be seen at <http://www.marinefiends.com/showcases.html> (updated 8/24/04).

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Critter Corner

Tridacna squamosa

By Elizabeth M. Lukan 8/22/00

General Information:

T. squamosa's are most commonly found with a brown **mantle** with many golden brown or yellow wavy lines. The mantle can be high in color with green and blue spotted varieties.

T. squamosa's reach a maximum length of 16 inches (40 cm).

Characteristics of T. squamosa:

- symmetrical shells
- shell has large, widely spaced scutes
- the hinge is half the shell's length
- the inhalant **siphon** has many large, branched tentacles
- the shells are usually white but can be yellow, orange, or pink
- the mantle extends well over the edges of the shell
- small/medium size **byssus gland** opening - it's wide, but not like T. crocea



Young T. squamosa are sometimes confused with T. maximas mostly because both clams have scutes on their shells. The scutes of the T. squamosa are much larger and not as close together as you'll see on T. maxima.

According to The Reef Aquarium Volume One, T. squamosa are known to form hybrids with T. crocea and T. maxima.

Common Name(s):

T. squamosa are commonly known as Fluted, Scaly or just Squamosa Clams.

In The Wild:

Found from East Africa through Polynesia in sheltered areas like back-reef lagoons, T. squamosa can be found as deep as 49-59 feet (15-18 m). Always attached by their byssus threads, they are usually found lying on the substrate.

T. squamosa's are sort after by the shell trade and are frequently imported from the

Philippines.

Home Aquaria:

A hardy clam in captivity, the *T. squamosa* can live for more than 10 years in your tank. Unlike other Tridacnids, *T. squamosa*'s aren't as demanding in the light department.

In your tank, place a large *T. squamosa* on a firm substrate. According to Aquarium Frontiers' *On The Half Shell* by Daniel Knop, *T. squamosa* is easily stressed if you put the clam under lighting that is too bright with strong currents. Also according to Knop, *T. squamosa* frequently develop central **bleaching** when under strong lighting.

If your *T. squamosa* is wild caught, start by putting it in the lower third of your tank. If the clam doesn't open within a few days, move it into a spot with indirect lighting. Remember, the water current should not be too strong.

If the lighting above your tank is good, place the clam at the bottom of your tank. *T. squamosa*'s can let loose a good, strong blast of water when they slam their shells shut. So, if you put your clam too close to the top of your tank, you'll end up with water up in your lights.

According to *The Reef Aquarium Volume One*, *T. squamosa*'s aren't usually imported into North America but are available in some European locations like Holland. *The Reef Aquarium Volume One* was published in 1994 so I don't know how true this still is. You can find small (1 inch / 3 cm) *T. squamosa*'s that have been maricultured in North America. These small maricultured clams are more delicate than other maricultured clams. Their survival rate is not good. Also according to *The Reef Aquarium Volume One*, larger maricultured *T. squamosa*'s will be available to hobbyists in the near future (published in 1994 remember!).

Cost:

Store: My local fish store (Queens, New York) didn't have any *T. squamosa*'s for sale.

Online:

US Dollars: Found two sites selling *T. squamosa* clams. Prices ranged from \$15 to \$40 dollars.

Canadian Dollars: Found two sites selling *T. squamosa* clams. Prices ranged from \$45 to \$85 Canadian dollars.

Photo Credits:

T. squamosa image used with permission of Gary Meadows of Harbor Aquatics <http://www.harboraquatics.com/> (*url dead, 10/02/05*).

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Caught In The Net

By Elizabeth M. Lukan 8/20/00

New Stuff Found

On marinefishonline.com (<http://www.marinefishonline.com/> (*url dead 10/05/05*)):

- Article on sea anemones and soft corals (in the inverts and corals section).
- Fish and Invert compatibility chart (in the fish section).
- Biological cycle article (in the biological cycle section).
- A sampling of Jeff Jeffords pictures from the Philippine Islands (in fish pictures section).

On Reefs.org (<http://www.reefs.org/>):

- #reefs Talk "Coral Farms - A How To Guide" by Rich King (Library / #reefs Talks section).
- #reefs Talk "Progress in sustainable propagation of marine aquarium invertebrates in the U.S. Affiliated Pacific Island" by Simon Ellis (Library / #reefs Talks section).
- Article "Anecdotal Evidence" by Eric Borneman, Michelle Jahn, and Ron Shimek (Library / Articles section).
- Article "Calcium Requirements of Fish" by Various Authors (Library / Articles section).
- Article "Cirolanid Isopods" by Keith Clarke and Ron Shimek (Library / Articles section).
- Article "Clam with Broken Hinge Ligament" by Daniel Knop (Library / Articles section).
- Article "Coral's Prey Response" by Eric Borneman and Ron Shimek (Library / Articles section).
- Article "Cyanobacteria" by Craig Bingman (Library / Articles section).
- Article "Ecosystem Population Dynamics" by Eric Borneman, Ron Shimek, and Dallas Warren (Library / Articles section).
- Article "Lighting Intensity Comparison Background" by Craig Bingman (Library / Articles section).

- Article "Millepora Algae Stains" by Eric Borneman and Walt Smith (Library / Articles section).
- Article "Some Chemistry Behind Ca(OH)₂ and CaCO₃/CO₂ Reactors" by Craig Bingman (Library / Articles section).

A New Look

Phase 1 of a redesign of the fishroom.com (<http://www.fishroom.com/> (*url dead 10/03/05*)) has been completed.

The Reefs.org website has a new look. It's worth a visit. Check it out at <http://www.reefsorg/>.

This Month's Selection From The Fish 'N' Chips Fishy List

Informational & Educational Sites - Critter (fish, coral, invert) Information

- [About Saltwater Aquariums](http://saltaquarium.about.com) - <http://saltaquarium.about.com> (11/1/99)
"Our Site has been in existence since 1997, formerly known as Miningco.com. It is a FREE informational and NetLinks saltwater aquariums site for marine aquarists of ALL Levels."
- [Australian Museum](http://www.austmus.gov.au/) - <http://www.austmus.gov.au/> (2/2/00) (Listed by FNC)
- [Australian Museum Sea Slug Forum](http://www.seaslugforum.net/) - <http://www.seaslugforum.net/> (2/2/00) (Listed by FNC) (*updated 10/05/05*)
- Cautious Coral - <http://www.cautiouscoral.com> (*url dead 8/24/04*) (3/11/99) (Listed by FNC)
- [CTSA \(Center for Tropical and Subtropical Aquaculture\)](http://library.kcc.hawaii.edu/CTSA/) - <http://library.kcc.hawaii.edu/CTSA/> (2/11/00) (Listed by FNC)
- CITES (Convention on International Trade in Endangered Species of Wild Fauna and Flora) - <http://international.fws.gov/global/cites.html> (2/11/00) (Listed by FNC) (*url dead 10/02/05*)
- [Choosing Your Next Anemone](http://fins.actwin.com/species/anemone.html) - <http://fins.actwin.com/species/anemone.html> (11/26/98) *By Phil C. Henderson (Listed by FNC)
- [Coral Realm](http://www.coralrealm.com/) - <http://www.coralrealm.com/> (3/31/00) *Some sections limited to paying members only. (Listed by FNC)
- [CoralFarms](http://www.coralfarms.com) - <http://www.coralfarms.com> (4/22/99)
"We are the largest importer of cultured Solomon Islands SPS and soft corals. Our

focus is on captive and cultured livestock."

- EMC Reef - <http://customer.wcta.net/emcreef> (*url dead 8/24/04*) (4/28/99)
- [Exotic Tropicals](http://ExoticTropicals.com) - <http://ExoticTropicals.com> (5/4/99)
- [Fish To The Nth](http://home.earthlink.net/~fish2nth/) - <http://home.earthlink.net/~fish2nth/> (9/20/99)
"I specialize in getting in what people are looking for, even if it is harder to find. Live food, such as ghost shrimps, aren't updated to the site, but I am selling them. And, ALL fish sold are in good health, and parasite treated before they leave here. I have sold to Public Aquariums, but I love selling to the individuals and provide after sales support for the fish they get from me. Sincerely, Carol E. Keen/Fish To The Nth"
- [Fishdomain.com](http://www.fishdomain.com/) - <http://www.fishdomain.com/> (06/21/00)
- fishroom.com - <http://www.fishroom.com> (7/29/99) (*url dead 10/03/05*)
"We are a community. Always looking for people to help."
- [Flying Fish Express](http://www.liveaquaria.com/FFExpress/) - <http://www.liveaquaria.com/FFExpress/> (12/20/99) (Listed by FNC)
- Harbor Aquatics - <http://www.harboraquatics.com> (1/12/99) (Listed by FNC) (*url dead, 10/02/05*)
- [Janet's Reef](http://www.janetsreef.com) - <http://www.janetsreef.com> (10/23/99)
- [marinefishonline.com](http://www.marinefishonline.com) - <http://www.marinefishonline.com>
"your marine fish and reef aquarium info site"
- [Marine Fish & Supplies](http://www.fishsupply.com) - <http://www.fishsupply.com> (8/9/00)
- Marine Life - <http://marinelife.cjb.net/> (6/5/00) (*url dead 10/03/05*)
"Marine community. It's your turn to post your things, including your links."
- My 29G Reef - <http://members.xoom.com/Reef29/> (*url dead 8/24/04*) (10/16/99)
- My Mini and Micro Reefs - <http://www.geocities.com/Hollywood/Park/7604/page1.htm> (*url dead 8/24/04*) (7/27/99)
- [ReefsUK](http://www.reefsuk.org) - <http://www.reefsuk.org> (*updated 8/24/04*) (8/14/99) (Listed by FNC)
- [Saltwater Connection](http://www.saltwaterconnection.com/) - <http://www.saltwaterconnection.com/> (6/3/00)
"A dedicated hobbyist dedicated to providing great products and great service."
- [Seahorses And More](http://www.seahorsesandmore.com/) - <http://www.seahorsesandmore.com/> (3/16/00) (*updated 10/03/05*)
- [Shrimp For The Tropical Marine Aquarium](http://www.ag.ohio-state.edu/~nathan/) by Nathan Cope, August 1997 - <http://www.ag.ohio-state.edu/~nathan/> (7/20/99) (Listed by FNC)
- [Thiel Infobase](http://www.athiel.com) - <http://www.athiel.com> (3/11/99) (Listed by FNC)
- [Ugo's Gwadeloop Reef](http://perso.wanadoo.fr/hugo.margo/) - <http://perso.wanadoo.fr/hugo.margo/> (4/25/99)
"A Caribbean reef tank in FWI, site in French, but short translations available, photos of diving spots on the Guadeloupe Island."
- [WALTHAM Centre for Pet Nutrition](http://www.waltham.com/) - <http://www.waltham.com/> (7/3/00) (Listed by FNC)

The above list matches a portion of the site list maintained on the Fish 'N' Chips Website as of the date of this publication. What you see above is what was listed as on their site by the submitter. The date that follows in parenthesis is the date submitted to the list. For the complete up-to-date list, check out the Fish 'N' Chips Website at (<http://www.marinefiends.com/> (*updated 8/24/04*)).

Site Submission and Updating: To submit your site for inclusion in the Fish 'N' Chips newsletter and website based Fishy Links List, please go to the Fish 'N' Chips website at (<http://www.marinefiends.com/> (*updated 8/24/04*)) and complete the Site Submission Form. Please do **not** send any site submission or update requests via email - *I will not process them*. Of course, emails are welcome if you are having trouble submitting the form.

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Chips...er...Tips

When you don't like a fish store?

Tip Submitted By Arthur D. Montgomery 8/6/00

Article Written By Elizabeth M. Lukan 8/18/00

On 8/6/00, subscriber Arthur D. Montgomery emailed me some news local to him. Someone dumped antibacterial soap into a pet supermarket's main filter around closing time. The following morning, when it was discovered, only a few fish had survived. According to Arthur, there are already two local fish stores in the area and the supermarket style store is sure to force someone out.

The saddest part of this story is the lost livestock. Was the sabotage from an employee, an unsatisfied customer, or the supermarket's competition? Who knows.

The tip here is this, if you don't like a pet store, don't go there. Tell your friends and fellow hobbyists why, but let them make their own decisions. I would never recommend slander or slander-type campaigns against a store or service. You end up in legal trouble that way. There is a right way and a wrong way to let the business know you don't like them - a letter to the manager or parent company declaring that you won't be shopping in their store. I've found that the best way is loyalty to your current local fish store. I gladly pay a higher price (within reason, of course) at my local fish store. They are, after all, my local fish store.

They know me, they know my family, I walk in and they say hello, I know nearly all of them by name.

Hopefully the hobbyists in Arthur's area will be loyal to their current fish stores and it will be the supermarket that goes out of business.

To Submit Your Tip: Send your tip via email to fishnchips@mail.com and I'll publish it in an upcoming issue of Fish 'N' Chips. I'll write it up for you or you can do it yourself if you are so inclined. Make sure you let me know if I can include your name and email address or if you'd rather go anonymous.

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Upcoming Events

By Elizabeth M. Lukan 8/20/00

Event	Start Date/ Time	End Date/ Time	Location	Event Details, Notes, and For More Info
Essay Contest	now	9/1/00 - 12:00am		<p>Essay Title: "Difficult to keep animals, should they or should they not be purchased from the aquarium shop as a "rescue attempt" by hobbyists?"</p> <p>Contest Rules, Etc.: Visit the Reefs.org website's contest page at http://www.reefs.org/contest/ (<i>url dead 10/03/05</i>).</p> <p>Prizes: 1st Prize - a Tullock or Fenner Book / 2nd Prize - Reef Holder.</p>
Aquarist Profile Survey	now	10/1/00		<p>For More Info: Visit the Reefs.org website's survey page at http://www.reefs.org/survey/.</p>

Salinity Survey	now	10/1/00		For More Info: Visit the Reefs.org website's survey page at http://www.reefs.org/survey/ .
Temperature Survey	now	10/1/00		For More Info: Visit the Reefs.org website's survey page at http://www.reefs.org/survey/ .
MACNA XII	9/29/00	10/1/00	Ft. Lauderdale Florida at the Wyndham Hotel	Hosted by: Marine Aquarium Society of North America Speakers: Speakers include: Walter Adey, Yehuda Benayahu, Bruce Carlson, Vincent Defour, Ruth Francis Floyd, John Forsythe, Richard Harker, Cindy Hunter, Kelly Jedlicki, Martin Moe, Mike Paletta, Ron Shimek, Julian Sprung, and Peter Wilkens. For information on what their topics are, visit http://www.masna.org . For More Info: Visit http://www.masna.org .
The Instant Ocean International Marine Seminar	10/22/00	10/22/00	Gilbert Murray Hall at Leicester (UK)	Speakers: Mike Paletta (USA), Svein Fossa (Norway), and Julian Sprung (USA). Tickets: £10. Make checks payable to WYMAG. Send a SASE to Mrs. Christine McCaffery, 31 Henconner Cresc. Leeds. LS7 3NS. For More Info: Roy Meeke from WYMAG can be reached via phone at 01924

				420101 (days) or 01274 611822 (evenings) or via email at roymeeke@wymag34.freeseve.co.uk .
Message Board Poll Contest	now	11/1/00		Contest Info, Etc.: Just go to fishroom.com's (http://www.fishroom.com/ (<i>url dead 10/03/05</i>)) The Reef message board and reply to the new poll posted there. Prize: 20 lbs. of Florida Keys aquacultured live rock.
Seahorse Exhibit	4/20/00	April 2001	New York Aquarium	Info: Some of the animals to be featured are leafy sea dragons, weedy sea dragons, pygmy seahorses, pot belly seahorses, local seahorses, giant seahorses, and pipe fish. Where & Contact Info: Brooklyn Aquarium, West 8 th Street and Surf Avenue, Brooklyn, NY (USA), 11224. Phone: (718) 265-FISH.

To Submit Your Event: Send your event and all the specifics (date, time, location, pricing, contact info, etc.) via email to fishnchips@mail.com and I'll publish it in all issues of Fish 'N' Chips prior to the event.

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What the ... ?

By Elizabeth M. Lukan 8/19/00

Bleaching

When corals or clams expel their zooxanthellae and appear pale or white.

Byssus Gland

The structure in clams that produces fibrous threads (byssus) that attach the clam to substrate. Sometimes permanent although more usually temporary attachment of tough organic threads secreted from a gland in the foot of the clam.

Mantle

Large, pigmented fleshy portion of tridacnid clams that is exposed to the light by gaping of the shell valves. Also called siphonal tissue. Also, the coral tissue in fleshy polyps (e.g. *Catalaphyllia*).

Siphon

The inhalant and exhalant siphons of tridacnid clams are used to allow for gas exchange and to expel wastes.

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Prove It!, a Bibliography

By Elizabeth M. Lukan 8/19/00

Article: Critter Corner

- The American Heritage Dictionary, Third Edition, Copyright 1994 by Houghton Mifflin Company
- Aquarium Frontiers (<http://www.aquariumfrontiers.com>), October 1997, On The Half Shell By Daniel Knop
- Coral Farms, <http://www.coralfarms.com/>
- Fishdomain.com, <http://www.fishdomain.com/>
- Harbor Aquatics, <http://www.harboraquatics.com/> (*url dead, 10/02/05*)
- Invert-ual Realities Canada, <http://www.interlog.com/~invertea/ire.htm> (*url dead 8/24/04*)
- Marine Biological Laboratory, <http://www.mbl.edu/>
- The Reef Aquarium Volume One by J. Charles Delbeek and Julian Sprung, First Printing July 1994, Published by Ricordea Publishing
- Saltwater Connection, <http://www.saltwaterconnection.com/>

- The Wave - Eastern PA Reef Club Newsletter Volume #1, Issue #9, July 1998, Tridacna Clams By Todd Kunkel, found on the Eastern PA Reef Club Website, <http://www.eparc.com> (*url dead 8/24/04*)

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To unsubscribe, send an email to ~~FishNChips-unsubscribe@egroups.com~~ visit <http://www.marinefiends.com/> (*updated 8/24/04*).

Any and all comments, suggestions, etc., should be directed to fishnchips@mail.com.

The Fish 'N' Chips Website can be found at <http://www.marinefiends.com/> (*updated 8/24/04*).

To view the current issue of Fish 'N' Chips, visit <http://www.marinefiends.com/current.html> (*updated 8/24/04*).

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