

Fish 'N' Chips

A Monthly Marine Newsletter
August 2006 Issue

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From Liz

By Elizabeth M. Lukan 08/25/06

Links Directory: Last month I announced the new Links Directory. I haven't received many submissions so here's a reminder to go and submit your site. If you don't see the category that would best fit your site, just suggest one. Visit the Fish 'N' Chips Links Directory at <http://www.marinefiends.com/wsnlinkspreview/>.

UPS Survey: I started tallying the survey responses but have been so busy with work ([High Aspirations, Inc.](#)) that I haven't been able to finish them. Hopefully next month!

Visit This Month's Subscriber's Tank Showcase: Hassan & Laurie Moore's 625 Gallon Reef Tank is this month's Showcase and can be seen at <http://www.marinefiends.com/showcases.html>. To submit your tank photos and information, visit <http://www.marinefiends.com/submittank.html>.

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How To Set Up A Quarantine Tank

By Mike Magnum, www.FishLore.com

Edited by Elizabeth M. Lukan 08/12/06

Ah, yes, the often dismissed but very necessary part of the tropical fish hobby, the infamous quarantine tank. Do you really need one to be successful in this hobby?

For freshwater fish you may be able to get by without having one. Freshwater fish are generally more suited to captivity because they are usually tank raised and don't seem to break out in disease as readily as their saltwater counterparts. However, if newly acquired fish do come down with something, you will surely wish that you had one ready to go. One newly bought fish that is introduced to your main tank can easily wipe out the entire tank population. Better safe than sorry, right?

For saltwater aquarium keepers, I would say that you **definitely** need a quarantine tank. Marine specimens are mostly wild caught and not used to being kept in captivity. Their journey to a dealers tank is usually much longer and much more stressful for them. Stressed out fish will usually come down with some kind of disease if they don't simply die from the whole ordeal. Saltwater fish keepers will usually have other things in the main display tank such as invertebrates and live rock, that they don't want to expose to the harsh medicines necessary to treat one or two fish. Some medicines can wipe out all of the invertebrates in a tank, so be sure to research any medicine before using it in your tank.

Quarantine Tank Setup

You don't need to go all out here. A simple tank size of 10 - 20 gallons will suffice for most people. If you have larger fish then obviously you want to get a bigger quarantine tank. All you really need is a bare bones setup with the following equipment:

- Some type of filtration (a hang on the back of the tank power filter will work, just use filter floss without the carbon since carbon will remove medication from the water, being counter productive)
- Heater
- A powerhead and/or an airstone for increased surface agitation
- Test Kits for pH, ammonia, nitrite and nitrate
- Fish Net - don't use the same net for your main tank

Fill the quarantine tank with water from the main tank and then turn everything on in the quarantine tank.

Freshwater Fish Quarantine

For newly acquired freshwater fish you will want to acclimate them to the water in the quarantine tank and monitor them very closely for a period of two to three weeks. Monitor the water parameters with your test kits and check for signs of parasites or bacterial infections.

If the newly acquired fish does come down with something you will need to use the appropriate medication and you will need to keep them in quarantine for a further two weeks to make sure that you have indeed treated them effectively. If after a few weeks no problems develop, you can then acclimate them to the main tank water and then introduce them.

If a fish comes down with something while in your main tank, just net them and plop them into the quarantine tank. There should be no need to acclimate them because you used water from your main tank. If you didn't use water from the main tank you will need to acclimate them to the quarantine tank water. Diagnose the problem/disease and treat appropriately. After the disease clears up you will still want to keep the fish in quarantine for a week or so monitoring the water parameters with your test kits the whole time.

Saltwater Fish Quarantine

For newly acquired saltwater fish you will want to acclimate them to the water in the quarantine tank and monitor them very closely for a period of two to three weeks. Monitor the water parameters with your test kits and check for signs of parasites or bacterial infections.

If the newly acquired fish does come down with something you will need to use the appropriate medication and you will need to keep them in quarantine for a further two weeks to make sure that you have indeed treated them effectively. If after a few weeks no problems develop, you can then acclimate them to the main tank water and then introduce them.

If a fish comes down with something while in your main tank, just net them and plop them into the quarantine tank. There should be no need to acclimate them because you used water from your main tank. If you didn't use water from the main tank you will need to acclimate them to the quarantine tank water. Diagnose the problem/disease and treat appropriately. After the disease clears up you will still want to keep the fish in quarantine for a week or so monitoring the water parameters with your test kits the whole time.

Always have some extra saltwater ready in case you need to perform an emergency water change. Remember, you want to monitor those water parameters frequently (daily or at least once every two days). Many saltwater hobbyists always have saltwater ready just in case. You

never want to mix up saltwater and add it right away. Freshly mixed saltwater can be fairly toxic to fish, in turn causing you more problems.

Conclusion

Freshwater hobbyists may get away with not using a quarantine tank, but saltwater hobbyists would be crazy not using one. Save yourself some money, headaches and especially the fish by having a quarantine tank. The fish in your main tank will thank you for it.

Author Bio

Mike is an editor at FishLore.com. Designed for beginners, FishLore.com provides tropical fish information, how-to guides, articles, fish profiles, FAQs, forums and more! www.FishLore.com - [Tropical Fish Information](http://www.FishLore.com)

FishLore.com - [Tropical Fish Information](http://www.FishLore.com)

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A Short & Sweet Review

CPR Aquatic, Inc. Cyclone BAK-PAK 2R+

By stepnrazr, 10/14/2005

Edited By Elizabeth M. Lukan, 03/17/06

When I set up my first little reef, I bought the CPR BAK-PAK 2R+ hang-on skimmer based on its reputation. It turned out to be an excellent little skimmer. It was easy to set up and adjust, the only real adjustment being the level of the collection cup. For 2 years, until I shut the tank down, it consistently produced good skimmate and required minimal tweaking. In normal use, a few bubbles escaped into the tank, but it was never a problem. Like any skimmer, the venturi needs occasional cleaning and it's good to clean out the body every few months. I was very pleased with it, and would recommend it to anyone with a 30 gallon or smaller tank.

It also comes in a non-reef version, with a bio-bale instead of the bubble trap in the second chamber.

Editor's Comments:

Editing was limited to spelling corrections and some grammar (capitalizing the beginning of a sentence, adding a period at the end, etc.). No other editing was done, what you read was exactly what was posted on the Saltcreep web site.

More information and an image of the product can be found at <http://www.cpraquatic.com/products/bakpak2r.html>.

Please visit Saltcreep at <http://www.saltcreep.com/> for this review, forums, and much more.



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Caught In The Net

By Elizabeth M. Lukan 08/25/06

New Stuff Found

Advanced Aquarist's Online Magazine (<http://www.advancedaquarist.com/>):

- Volume V, Issue VIII, August 2006 - <http://www.advancedaquarist.com/2006/8>

Reefkeeping Magazine (<http://reefkeeping.com/>):

- August 2006 - Volume 5, Issue 7 - <http://reefkeeping.com/issues/2006-08/index.php>

Seas the Day Ocean Book of the Month (<http://seastheday.theoceanproject.org/seastheday/book/index.htm>)

- August 2006 - Ocean's End by Colin Woodward - <http://seastheday.theoceanproject.org/seastheday/book/august2006.htm>

Wallpaper of the Month



Title: pig in a blanket

Copyright: [Reefs.org](http://www.reefs.org)

Link to Wallpaper: <http://www.reefs.org/phpBB2/download.php?id=4965>

You must have a Reefs.org Login to get this wallpaper.

Marine Aquarium Council Update Second Quarter 2006

Director's Note

Why is there a need for international standards and certification for the marine aquarium trade? Consider what governments around the world are doing and saying about marine ornamentals' collection and commerce:

- **United States (US):** The US Coral Reef Task Force adopted a major new resolution addressing the collection of marine ornamentals using cyanide and other poisons. The US government is investigating how to better document the level of ornamental fish imports, with initial results suggesting the trade is two times larger than estimated. In 2005, the US House Bill 3469 sought to prohibit the importation of any coral reef species that were not collected in accordance with a qualified scientifically-based management plan. In 2004, the US Commission on Ocean Policy report recommended to the President and the Congress regulations requiring sustainable collection of imported reef species and controls to prevent the release of non-native species.
- **Europe:** The European Union (EU) continues to suspend from trade the Indonesian supply of several coral species and is considering new monitoring and reporting requirements for many heavily traded fish species. In April 2006, the EU suspended the import of most species of giant clam from many Asia-Pacific export countries and suspended the import of many species of coral from Indonesia, as well as some species of coral from Tonga and the Solomon Islands.

- Philippines: Many local governments, which have responsibility for aquarium fisheries, have banned harvesting of marine ornamentals or have banned the use of compressors.
- Indonesia: The government decreased the CITES quota for coral export species in 2002 and again for some additional species in 2005.
- Fiji: The government revised the CITES quota for coral exports in recent years.
- United Nations (UN): The synthesis report of the UN Millennium Ecosystem Assessment states: "Coral reefs are at high risk from many kinds of human activity, including destructive fishing (for example: use of cyanide to stun and capture fish.), collecting for the marine ornamental trade."

Responsible industry operators may want to distinguish themselves as those who use best practices and support the management of marine ornamentals stocks and the conservation of coral reefs for sustainable use. MAC Certification provides the means to do so.

Communications and Outreach

Special Interzoo Activities

At Interzoo, the Marine Aquarium Council (MAC) organized gatherings on MAC Certification, with the support of *Aquarium Systems* and the Interzoo organizer- *Zentralverband Zoologischer Fachbetriebe (ZZF) Deutschlands e.V.* The seminar on the "Marine Aquarium Council (MAC) Certification: Quality Marine Ornamentals from Sustainable, Responsible Sources" was designed for companies which had signed the MAC 'Statement of Commitment and Support' and for the ones that were actively interested in understanding more about MAC Certification. The seminar attracted interest from a range of companies.

A meeting of the "Marine Aquarium Council (MAC) International Certified Industry Group Forum" brought together MAC Certified companies from around the world (Fiji, France, Germany, Indonesia, Singapore and the UK) that were present at Interzoo. This meeting provided these Certified companies the chance to meet with each other, some for the first time, and to raise issues, opportunities and ideas on areas for improvement in MAC Certification and increasing the interaction among MAC Certified companies.

MAC presence at Interzoo also provided the opportunity for MAC to meet press

representatives with whom MAC has developed collaboration in Europe and the USA.

The MAC Public Aquarium Declaration of Support Available in French

Public aquariums, museums and zoos are one of the important stakeholders in the work to ensure that the marine ornamentals trade is sustainable and responsible. In response to the interest expressed by public aquariums to improve their support for MAC Certification, the 'MAC Public Aquarium Declaration of Support' was developed. Several institutions have already signed it, as the *Zoological Society of London* has recently done.

This form is now available in French for institutions to state publicly their support toward MAC and its programs. To receive a copy of this form, please contact Nathalie Gamain at: nathalie.gamain@aquariumcouncil.org.

European Update

The First MAC Exhibit at the Oceanographic Museum of Monaco

As part of the World Ocean Day's celebration (June 8), the *Oceanographic Museum of Monaco* focused its special activities on the sustainable management of the reefs through a responsible marine ornamental trade and responsible practices. Among the speakers, MAC gave a presentation about the transformation of the marine ornamental trade. The audience was particularly interested by the projection of the movie about "Transforming the Aquarium Trade with the Industry for Ecological Sustainability" in Indonesia, made in collaboration with the *World Wide Fund for Nature (WWF)* Indonesia.

The *Oceanographic Museum* has always been dedicated to conservation, education and research programs, in particular about corals, with its first living reef exhibit inaugurated in 1989. Encouraging MAC and its programs, the Museum provided MAC the opportunity to launch its first exhibit on June 8 (World Ocean Day). Through this exhibit, visitors can learn more about the marine ornamental trade and the progress MAC, with the rest of the industry, is making to reach a sustainable management of the reefs through best practices and a responsible trade. It is composed of six (6) large panels. This exhibit has been made possible through the generous support of one of the Museum's print companies, *MS2*.

MAC Celebrates the Week of the Environment in Monaco

From June 5th to June 11th, Monaco celebrated the week of the Sustainable Management and of the Environment, with the World Ocean Day on June 8.

The non governmental organization, *Act for Nature*, with its local partner, the *Stars N Bars*, organized several activities on the Monaco harbor. In collaboration with the *Oceanographic Museum of Monaco*, and the association *Acroporis*, MAC participated in the booth dedicated to the "ocean's sustainable management". The week's events raised the awareness of the school groups and other visitors about the ocean issues, with a focus on coral reefs, through MAC, *Acroporis* and the *Oceanographic Museum* presentations. As members of the World Ocean Network, the three organizations distributed the World Ocean Passport to the participants as well.

North America Update

Increasing Supply of MAC Certified Organisms Imported to North America

North American MAC Certified importers are receiving a greater variety of MAC Certified organisms than ever before. As the number of Certified supply lines increases, more and often highly desirable species are becoming available. For the first time, species such as Emperor Angelfish (*Pomacanthus imperator*) and Blue Tang (*Paracanthurus hepatus*) are now being offered for sale to hobbyists as MAC Certified. As of July 2006, MAC Certified fish are available at, or have been ordered by, all MAC Certified retailers in the US.

MAC Presence at North American Pet Industry Trade Shows

John Brandt, North America Director, attended two major trade shows with the MAC exhibit booth. Many retailers showed interest in becoming MAC Certified at the Global Pet Expo in San Diego, CA (March 23-25) and at the Backer Spring Trade Show in Atlantic City, NJ (April 7-9).

International Marine Aquarium Conference (IMAC) and MAC

MAC Communications Director, Nathalie Gamain, and North America Director, John Brandt, attended the International Marine Aquarium Conference (IMAC) in Chicago, IL (April 28-30). IMAC is an annual three-day conference offering lectures, workshops and special events. Many retailers visited the MAC exhibit

booth to express their interest in becoming MAC Certified.

MAC at the United States Coral Reef Task Force Meeting

The United States Coral Reef Task Force (USCRTF) held its 15th meeting in Washington, DC on May 4th. The MAC North America Director was in attendance with the MAC exhibit booth. The Task Force adopted a significant new resolution addressing the collection of marine ornamentals using cyanide and other poisons. This resolution sets forth actions designed to identify and develop a usable detection test for cyanide in fishes and also for the development of improved methods of enforcing laws against the use of poisons.

Reports and summaries from the meeting are available at: <http://www.coralreef.gov/taskforce/meetings/meet8.html>. This webpage also includes the new resolution and a Public Comment by MAC to the Task Force.

Indonesia Update

Meeting of Bali-Based Exporters

On April 25, Bali based exporters gathered for an afternoon meeting at the Marine Aquarium Council (MAC) office to:

- Introduce the Bali exporters to the MAC staff and programs;
- Allow an opportunity for Bali exporters to raise and discuss related issues; and
- Discuss about MAC modalities to assist exporters in their activities and the trade in general.

Sixteen (16) exporters participated, and raised issues such as the possibility to re-create the Bali exporter association and to establish a working group for MAC Certified activities. Others asked the benefits of becoming MAC Certified, and how MAC programs could assist a better trade in Indonesia. The exporters also inquired if training for the exporters' staff could be conducted to achieve compliance with MAC Certification.

Visitors from Padang and South Sulawesi

In Indonesia, the news about the fishermen training on how to manage their

resources and use nets to collect aquarium fish is spreading from one fishing community to the next and is leading to a growing interest in MAC Certification. This is being expressed in very direct ways. Several dozen representatives from both the government and the collectors groups of Padang of West Sumatra and Selayar District of South Sulawesi traveled to Bali to meet with MAC representatives and find out more about MAC programs. The delegation from these two districts also visited the sites and met the collectors groups in North Bali. MAC and its partners will start working in Padang, considered as one of the major collection areas for marine aquarium fishery. Many collectors fish around the Padang area and travel as far as to the Mentawai Islands to collect fish.

First Ever Documentation of "Roving" Collection Practices

In Indonesia, aquarium fish collectors rove for a variety of reasons, but it is fair to say that roughly ten (10) to fifteen (15) percent of all fishers (not just aquarium collectors) are mobile, following their seasonal prey wherever there is abundance. This practice is allowed by the Indonesian government. The country has an "open-access" policy on marine resources.

Fishing is traditionally, and inherently, a "roving" industry to begin with where fishermen follow schools of fish. The marine ornamental industry is generally more than an exception to this, where resources tend to be static around coral reefs. Collectors rove to enable them to fish in the most abundant areas where the highest value fish live. However, this common practice can lead to overfishing and reef destruction of the collection areas.

MAC has started to study the roving collection situation as part of the efforts to involve the full range of fishing activities into the transformation of the marine ornamental trade. Interviews with collectors and exporters have been taking place since 2005 and, according to the local industry operators, about eighty percent (80%) of all fish collected come from roving fishers. This represents a significant figure, both in terms of volume and value of the catch. Moreover, the roving collectors provide a larger range of caught species available to the market.

In order to have a better documentation of the situation, the first MAC trip with roving collectors was organized last April. MAC representative, Sudaryanto, joined a group of nineteen (19) roving collectors as they traveled from Bali to South Sulawesi. Covering a distance of over one thousand, six hundred and seventy (1,670) kilometers, this long journey started from Sumber Kima village in North Bali to reach the collection areas on the Karumpa reefs. These fringing

reefs extend to several kilometers to the northwest of the Karumpa Islands, southeast of Taka Bonerate National Park, and are acknowledged by fishermen as an ideal area for fish collection.

During the thirteen (13) days of traveling, collectors consciously prepared their fishing gears. They use three different kinds of nets with different sizes of mesh: the fine mesh netting is made from mosquito nets; medium nets use a mesh of one fourth ($\frac{1}{4}$) of an inch and one half ($\frac{1}{2}$) of an inch for large sizes.

Sudaryanto noticed that the group of collectors started to spend six (6) hours a day in the water, as soon as they arrived at the fishing site. The shallow water of the site provided fishermen a safe diving environment. They could collect in the seagrass beds of the inner reefs a majority of the popular common clownfish (*Amphiprion ocellaris*) and other clownfish species. After six (6) days of collection, fishermen caught over fourteen thousand, two hundred and fifty-three (14,253) fish representing sixty-five (65) species.

This successful collection trip, as with the previous ones, has encouraged the roving collectors of Sumber Kima to travel twice a month to the Karumpa reef site, over many years. This practice is well known in Indonesia, and has led local authorities to provide collection permission to roving collectors prior to their journey. However, they sometimes need to move on to find new collection areas if they are no longer allowed to collect in a particular site.

This journey provided MAC with a better understanding of the roving collection practice. The collected data and the experience itself will encourage MAC to continue working with those communities to enhance a sustainable management of the reefs using best practices.

Philippines Update

The Launch of the "Identity Preservation and Traceability" System

On May 29, 2006, MAC and its partners (the *United States Agency for International Development* (USAID), the *Academy for Educational Development* (AED), the Spanish software company *Soluziona* and the computer industry giant *Microsoft Corporation*) hosted in Cebu a technical demonstration of the "Identity Preservation and Traceability" system.

This initiative, which promotes "digital inclusion in the marine aquarium

fishery", is an unprecedented partnership that seeks better returns on investments for fishermen earning a living out of collection of tropical fish, invertebrates and other organisms. The system consists of rich information databases, which facilitate complete, on-line, real time, 'end to end' transactions in the marine aquarium trade.

Orders can be placed and fulfilled between retailers, importers, exporters and collector- coordinators using a combination of desktop, personal digital assistants (PDAs) and streaming short messages (SMS) via cell phone.

The traceability system significantly strengthens conservation efforts as it provides statistics on the size, characteristics and mortality rates of marine organisms passing through the global industry value chain. Feedback from collector-coordinators and exporters suggests that the traceability system may also help reduce the paper-based documentation requirements for MAC Certification. At this event, MAC also received a software grant of thirty two thousand US dollars (USD 32,000) from *Microsoft Corporation* to support the system.

The use of this digital device represents a significant milestone in natural resources management as the pilot initiative promotes a more responsible and sustainable marine aquarium industry.

Pacific Update

Solomon Islands Livelihood Program

The World Fish Centre (WFC) project "Creating Rural Livelihoods in the Solomon Islands Using Environmentally Friendly Aquaculture and Trade of Marine Ornamentals" is well underway. MAC involvement is ramping up with its participation in the Post-Larval Workshop held at the project site in Gizo, Western Province, Solomon Islands. At the workshop, there were twenty-six (26) participants from eight (8) communities around Gizo Island, with among them six (6) women. They were taught post-larval fish and invertebrate collection and culture techniques in addition to the MAC best practice techniques for collection, handling and transport. MAC provided major input to the practical sessions when the best-practice techniques were demonstrated.

MAC and its project partners (WWF and WFC) will continue providing technical support to communities to ensure that farmers are adequately trained in the

second year of this program, starting in July 2006. The next step for MAC will be to introduce the concept of the Collection Area Management Plan (CAMP) and the Mariculture Area Management Plan and train communities to develop and implement these plans.

Remember to visit the MAC website at <http://www.aquariumcouncil.org/> for more information and to subscribe to the newsletter.



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Marine News

By Elizabeth M. Lukan 08/25/06

07/03/06, Marine Biodiversity and Ecosystem Functioning

Marine Biology meets Information Technology - new era in marine biology begins

<http://www.marbef.org/modules.php?name=News&file=article&sid=119>

07/04/06, Fishupdate.com

Celebrity chef joins MCS call to stop destruction by dredging

<http://www.fishupdate.com/news/fullstory.php/aid/4853/>

[Celebrity_chef_joins_MCS_call_to_stop_destruction_by_dredging.html](#)

07/06/06, Environmental News Network

Florida Coral Battered by Hurricanes and Disease

<http://www.enn.com/today.html?id=10812>

07/19/06, Chicago Sun-Times

Newborn beluga makes a splash at Shedd

<http://www.suntimes.com/output/news/cst-nws-beluga19.html>

NBC 4's news story contains video of the birth: <http://www.nbc4.tv/news/9540884/detail.html>

07/23/06, Honolulu Star-Bulletin

Hawaii's Reef Fish Need Protection From Bad Harvesting Methods

<http://starbulletin.com/2006/07/23/editorial/special2.html>

07/24/06, EurekAlert

Alternative approaches to marine management prove successful in reef conservation

http://www.eurekalert.org/pub_releases/2006-07/cp-aat072006.php

07/25/06, Fishupdate.com

UK: Marine wildlife surveys detect ocean sunfish invasion off Cornish coast

<http://www.fishupdate.com/news/fullstory.php/aid/5002/UK:>

[Marine_wildlife_surveys_detect_ocean_sunfish_invasion_off_Cornish_coast.html](http://www.fishupdate.com/news/fullstory.php/aid/5002/UK:Marine_wildlife_surveys_detect_ocean_sunfish_invasion_off_Cornish_coast.html)

07/31/06, Census of Marine Life

20,000+ Kinds of Bacteria Found in 1 Liter of Seawater

http://www.coml.org/medres/microbe2006/CoML_ICOMM%20Public_Release_07-31-06.pdf

07/31/06,

Dryden man brings light to coral farming

<http://www.pressconnects.com/apps/pbcs.dll/article?AID=/20060731/>

[BUSINESS/607310302/1002/BUSINESS](http://www.pressconnects.com/apps/pbcs.dll/article?AID=/20060731/BUSINESS/607310302/1002/BUSINESS)

Snail Regulations

Frank M. Greco, well known in the hobby and owner of The Freshwater Crustacean Farm (<http://www.franksaquarium.com/>), posted a message to the UniQuaria (<http://www.uniquaria.com/>) mailing list on June 26, 2006 stating that the USDA is going to start enforcing the rules already in place for snail importations. This will affect snails intended for aquarium use. Importers will be required to obtain a free permit in order to bring in any type of marine or freshwater snail into the USA. Frank didn't know when the USDA would begin enforcing these rules.

I (Elizabeth M. Lukan of Fish 'N' Chips) was unable to find anything online to confirm this. I tried to look on the USDA web site (<http://www.usda.gov/wps/portal/usdahome>) but trying to find anything on that site makes my head hurt. I couldn't find any press releases either. When it comes to this hobby, I trust Frank above most others. His day job at the New York Aquarium (<http://www.nyaquarium.com/>) and his own business (The Freshwater Crustacean Farm - <http://www.franksaquarium.com/>) make me believe that he'd be in the know. I don't know what the ramifications of this will be in the long run. I've visited a few online retailers that sell snails

and other cleanup critters and haven't seen anything on their sites about a change in the order procedures. I'd guess the prices of snails will be going up when this does start as the labor costs for the extra paperwork will have to be passed along to the purchaser. I'd also hazard a guess that certain types of snails may soon become unavailable. But, those are just the ramblings of one hobbyist, we'll all have to wait and see on this one.

UK: The Marine Bill

The Marine Conservation Society needs support to convince the Government that the seas need to be protected. View the video to see what they are trying to protect and then add your name in support and have your vote forwarded to Ben Bradshaw, MP. Visit <http://www.marinereservesnow.org.uk/>.

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Chips...er...Tips

Removing Ammonia during Acclimation

By Stan & Debbie Hauter

Edited By Elizabeth M. Lukan, 08/27/06

It doesn't hurt to add an ammonia buffer or destroyer such as AmQuel to the bag water in the bucket with the fish in it prior to starting the procedure, as ammonia build up may still occur while the fish is kept here, no matter how long completion of acclimation takes.

Editor's Comments:

Editing was limited to spelling and grammar corrections and putting into the Fish 'N' Chips format. The above is part of a larger article, Acclimating Saltwater Fish the Drip Line Way, which can be found at <http://saltaquarium.about.com/library/weekly/aa111802.htm>.

About®
Saltwater Aquariums

To Submit Your Tip: Visit <http://www.marinefiends.com/submit.html>.

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Upcoming Events

By Elizabeth M. Lukan 08/25/06

Event	Start Date / Time	End Date / Time	Location	Event Details, Notes, and For More Info
September 2006				
MASLAC Meeting: Bob Fenner, author, visits	Sep. 9, 2006			Marine Aquarium Society of Los Angeles County: http://www.maslac.org/
Aquaria China	Sep. 7, 2006	Sept. 10, 2006	Guangzhou Jinhan Exhibition Center, Guangzhou, Guangdong, China	http://www.biztradeshows.com/trade-events/aquaria-china.html
International Coastal Cleanup	Sep. 16, 2006			http://www.coastalcleanup.org/
Glee Petindex	Sep. 17, 2006	Sep. 19, 2006	NEC Birmingham, UK	http://www.gleebirmingham.com/page.cfm/link=33/GoSection=1
California and the World Ocean '06	Sep. 17, 2006	Sep. 20, 2006	Sacramento, CA, USA	http://resources.ca.gov/ocean/cwo06/
Marine Aquarium Conference of North America (MACNA)	Sept. 22, 2006	Sept. 24, 2006	Westin Galleria, Houston, Texas, USA	http://www.macnaxviii.com/
2006 AZA Annual Conference	Sept. 25, 2006	Sept. 29, 2006	Tampa, FL, USA	http://www.aza.org/ConfWork/AC_Intro/
October 2006				
Backer's 40th Annual Pet Industry Trade Show and Educational Conference	Oct. 6, 2006	Oct. 8, 2006	Donald E. Stephens Convention Center, Rosemont (Chicago), Illinois, USA	http://www.hhbacker.com/hhbacker/x06tradeshow.asp
MASLAC Meeting: Sarah Lardizabal will speak on seagrasses in the aquarium	Oct. 14, 2006			Marine Aquarium Society of Los Angeles County: http://www.maslac.org/
Oceano Marine Conference	Oct. 21, 2006	Oct. 22, 2006	Pointe Hilton Resort at Squaw Peak, Phoenix, Arizona, USA	http://www.sioceano.com/

November 2006

Second Annual Coral Reef Conservation and Management Conference	Nov. 8, 2006	Nov. 9, 2006	James L. Knight International Center, Miami, Florida, USA	http://www.informalearning.com/coralreefs
MASLAC Meeting: Adam Blundell will talk about "What is Reef Safe?"	Nov. 11, 2006			Marine Aquarium Society of Los Angeles County: http://www.maslac.org/

To Submit Your Event: Visit <http://www.marinefiends.com/submit.html>.

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Just for Laughs

Edited by Elizabeth M. Lukan 08/25/06

What is the fastest fish in the sea? Go-carp.

To Submit Your Joke: Visit <http://www.marinefiends.com/submit.html>. Your joke **must** be family friendly and fish related. If you can't tell it to your children, don't send it to me and expect to see it published.

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