



tideline newsletter tideline aquatics

Tideline Aquatics Store Hours

Monday – Friday 11am-7pm
 Saturday 10am-6pm
 Sundays 1pm-5pm

(I remembered to change the date this week! lol)

ALGAE A PROBLEM? OR JUST A NORMAL PART OF AQUARIUM KEEPING

Regardless of how well you maintain your aquarium, some sort of algae will grow. In the average aquarium (fresh or salt), a brown or green dusting of algae on the glass and decorations over a 15-30 day period is completely normal. The addition of an algae-eating fish like the plecostomus (freshwater) will almost make it appear like algae never grows in your tank. There are plecostomus species that grow large while others that remain small. If your aquarium does not receive any sunlight, the water quality is within acceptable levels (pH, ammonia, nitrite, etc), and you do not run your aquarium lights more than 8-10 hours per day, algae growth should be minimal enough to be taken care of by an algae-eating fish.



THE PERFECT DESIGN FOR EATING ALGAE!

But there are algae that can be a problem. In the planted aquarium, black “beard” algae (*Rhodophyta*) can grow on your plants and decorations. This just seems to show up in planted aquariums that have been established for some time. It seems to thrive even in aquariums using CO2! We have yet to discover why this algae appears but it can be stopped. If you want to do it naturally, you can try a couple of different animals. The true siamensis flying fox (SAE for Siamese algae eater) seems to love this stuff. Juveniles seem to eat it best while adults appear to become less fond of it.



THE TRUE SIAMENSIS FLYING FOX ALGAE EATER
 Another fan of this algae is the Amano Shrimp (*Caridina japonica*). If you add 4-5 of these per 10 gallons of aquarium, this shrimp will quickly wipe out this algae (and most others!). Remember that many fish love to eat shrimp so fish choice can decide whether you can have Amano Shrimp in your aquarium.



FRESHWATER ALGAE EATING AMANO SHRIMP

If you don't want to add special fish for controlling algae, you can use a product like Aquarium Pharms Algae Fix. This product is available in both a freshwater and marine version that is even safe for reef aquariums. This product does work if used per the manufacturer's instructions. It cannot be used with freshwater crustaceans (completely safe for marine crustaceans however). Algae-Fix seems to work for just about all algae issues except slime algae.



Another great product (and all natural) for controlling algae in freshwater and saltwater aquaria is ALGONE. This product is already packaged to be placed directly into the filter where it helps to correct the water quality issues that caused the algae in the first place. We strongly suggest using this product in aquariums before algae becomes an issue!



In the marine aquarium (especially in reef aquariums) there are algae that can become major issues that can even kill your reef invertebrates and destroy the beauty of your tank. All of these algae are caused from water quality

issues often overlooked by the aquarist. These algae can take over the aquarium quickly and require immediate action by you to correct the problem causing it. Algae that shows up from elevated levels of organic material (trapped debris in the substrate, elevated phosphates, elevated nitrates, over feeding, etc) in the reef aquarium can be hair algae, slime algae (cyan bacterial) and dinoflagellate algae. Though there are fixes for all of these algae, you must fix the problem that caused it in the first place. If not, it will come back in short time!



A REEF AQUARIUM OVERTAKEN WITH HAIR ALGAE

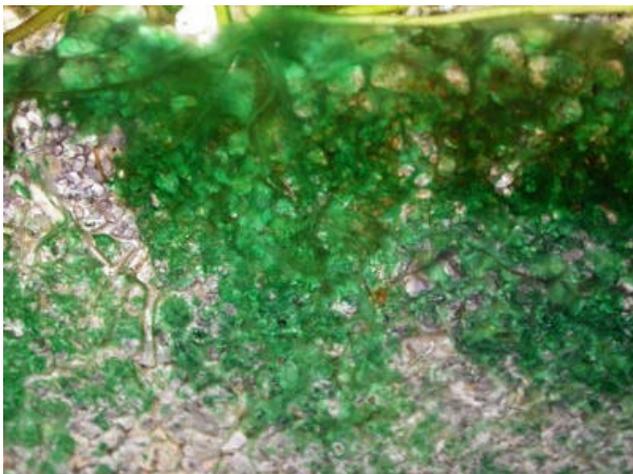
Hair algae often shows up in spots here and there in the reef aquarium. At first, the aquarist thinks little of it but then, BAM, it's covering every rock in the tank! Hair algae starts most often from overfeeding the reef tank. Most fish that are added to reef aquariums can go with only being fed about 3-4 times per week. Daily feeding is not recommended in most reef aquariums (some aquariums may utilize expensive filtration systems that allow daily feeding). Reduced feeding will lower the organic content in the water thus starving the algae of its food source. Refugiums can also help to reduce organic levels and starve the hair algae of its food source. Once you have corrected the problem, the addition of algae-eating snails, reef hermits and other herbivores can get any remaining algae under control (don't let it get to the point of that picture before correcting the problem!!). The use of products like ALGONE can also help to rid the aquarium of any remaining hair algae.

Then there is the plague that gives so many reef aquarists nightmares, Slime Algae. Cyanobacteria Algae (slime algae) can be green, red or brown and grows like a sheet over the

surface of anything it touches. This algae shows up suddenly and spreads like wildfire! Too much food, too little water changes, too little circulation and often too old aquarium lamps can all or singly get this ruthless algae started in your aquarium. Like a good American, we seem to always want the “instant gratification” method for fixing this problem. The addition of the antibiotic erythromycin is praised on the web as the ultimate cure. Well, at Tideline, we like to call it the ultimate quick fix before the algae grows back in a week or two! This antibiotic can also disrupt the biological filter causing an ammonia and/or nitrite spike. This leads to certain death for not only your reef organisms but also your fish!



RED SLIME ALGAE SMOTHERING ZOANTHIDS



GREEN SLIME ALGAE COATING THE SUBSTRATE

The fix should start with a complete water analysis and consultation. The water analysis should consist of testing the pH, ammonia, nitrite, nitrate and phosphate levels in the aquarium. The consultation should consist of your aquarium cleaning habits, your feeding habits, the filtration system components and their

efficiency, the circulation in your aquarium, surface agitation in your aquarium (extremely important!) and your lighting system (type, age of lamps, hours of operation). From this, we can nearly always determine what caused the outbreak of slime algae and often it is a combination of factors. It will not be a quick fix either. The cure will likely consist of several major partial water changes (and substrate vacuuming) using buffered reverse osmosis saltwater followed by the addition of chemical media (phosphate removers, nitrate removers, etc) that will assist you in keeping the organic levels low in the future (not a replacement for regular partial water changes!). Next you will likely have to change your feeding habits by using less food and of higher quality. You may also have to add or change the flow of your circulation pumps to provide strong oxygenation at the surface of the tank combined with adequate flow within the aquarium. If your aquarium lamps are old (this depends on the type of lighting your aquarium has), replace them with lamps of the correct spectrum for reef aquariums. After doing all of this, you may find that the red slime algae is still showing up (though much less) in your reef or fish aquarium. In this case, you can use a product to kill any remaining slime algae if you choose. There are products designed for killing it that are safe for your reef, for example, Ultralife Red Slime Remover.



Only after you have fixed the problems that caused the algae should you use a product like this to finish it off! However, if you are patient, the slime algae will eventually die out without using a chemical product as you have now removed the variable(s) that caused it in the first place.

Last we will talk about dinoflagellate algae. This algae often has the appearance of slime algae but is most often brown to golden in color and has an

appearance somewhat like jelly often with trapped bubbles within it. This algae most often shows up in aquariums with low pH (below 8.3 regularly) combined with elevated organic levels.



Since we rarely encounter this algae, we are going to refer you to a web article that discusses how to rid the aquarium of this problem. Tideline Aquatics has not used this method of cure so we cannot say whether it works or not but we would appreciate feedback from you if you choose on your own to use this method of cure. We will say this is coming from a source that is reputable.

Here is the link:

<http://reefkeeping.com/issues/2006-11/rhf/index.php>

As with any aquarium issue, prevention is your best method. If you have not experienced any of these nuisance algae in your aquarium, then keep up the good work! If you do find one of these algae starting up in your freshwater or saltwater aquarium, then let's analyze the problem together, take the appropriate action and get your aquarium back on track. Remember that most "quick fix" products for algae only mask the underlying cause. Fix the problem for good by working together with us!

CORAL OF THE WEEK: **DUNCANOPSAMMIA WHISKER** **CORAL FROM AUSTRALIA**

This coral just started showing up in the hobby regularly this year. It is absolutely beautiful and extremely hardy in the reef aquarium. We recently purchased a 70 head colony from our supplier and are now going to frag it out to you good folks. Just print off the coupon from our website and you can get a frag of this beauty for only \$12.00 per head. There are not many single

heads on this colony but there are plenty of triple head sections for cutting. We recommend using an underwater aquarium safe glue or epoxy and attaching your new frag on a rock in your reef aquarium in the upright position. Quickly this coral will divide into numerous heads forming a stunning colony that can be fragged over and over again.



PARTIALLY OPENED HEADS ON A WHISKER CORAL

Within months, you will see small 'buds' form on the side of the larger polyps that eventually form new heads. Duncan whisker coral appreciates being fed about three times per week. We suggest feeding a mixed diet of mysis shrimp, plankton and finely chopped shrimp. The coral heads are good size making it easy to place food into the tentacles of each head.



DUNCAN WHISKER CORAL HEADS LOOK LIKE FLOWERS!

This coral is hardy and striking in the reef aquarium. This is a chance for you to get a start on this coral without spending a fortune!

WORK ZONE AHEAD!!

In the coming days, we will be doing some remodeling to our front show reef aquarium. In

retrospect, we placed the SPS species too high causing them to poke out of the water. The orange montipora is growing over the spillover teeth blocking water flow. The addition of an aggressive star polyp species has spread to nearly every area of the tank. The Solaris LED fixture is too bright for the corals at the surface causing them to bleach in color. Also, we have found the Solaris to be a poor choice due to the shape of our reef tanks (a half circle). The LED light does not spread out enough for the shape of the tank causing the front of the tank to be dim (we are going to be installing it over a new SPS tank coming in February!). For these reasons, we will be remodeling our reef tank. You can be sure there will be plenty of coral frags for sale soon as we cut up these large colonies to move them into temporary housing. At the same time, it will likely go through a period of ugly unrest as we pull rocks out to remove unwanted species and reset the rock formation for the corals to be relocated. Don't be too critical until our job is finished as the reef will likely be somewhat ugly for a short period of time!

THE 2008 CHRISTMAS AQUARIUM GIVE-A-WAY!!



You are running out of time for getting your name in the give-a-way box for our 80 Gallon Euro Bowfront Aquarium Package!! We will be drawing the winner on Christmas Eve. No purchase is necessary to enter our drawing so stop by and put your name in the box before we close on Christmas Eve. We will announce the winner on next week's newsletter!!

NEW PRODUCTS ARRIVING ON FRIDAY:

BRIGHTWELL AQUATICS PRODUCTS



Soon you will be able to purchase quality Brightwell Aquarium Products at Tideline Aquatics! Brightwell makes products for freshwater, saltwater, reef and planted aquariums. We will let you know when this new product line arrives and highlight some of the unique products they offer. You can check out their entire product line at:

www.brightwellaquaticlabs.com

Check out their amazing product line to see what you will soon be able to purchase at Tideline Aquatics.

AQUARIUM PLANT OF THE WEEK MORE ARRIVING FRIDAY!!:

Crinum Calimistratum



We did not anticipate how many of you wanted this incredible plant. Needless to say, the coupon special went over too well! We have a dozen more of these extremely hardy and rare beauties arriving on Friday and the website coupon is still valid so don't miss out!!

WHATS NEW AT [tideline aquatics?](#)

FEEDERS (ALL IN STOCK!):

Guppies, Ghost Shrimp, Goldfish, Rosy Redds, Crayfish, Fiddler Crabs, Live Black Worms.

FRESHWATER FISH:

Livebearers – Red Wag Platies, Sunburst Platies, Mickey Mouse Candy Swordtails, Super Nice Sailfin Mollie Pairs, NEW! Santa Claus Swordtails, Gold Crescent Platies, Multi-Color Fancy Guppy Pairs, Dalmatian Mollies, Black Yucatan Mollies.

Catfish/Loaches/Plecostomus – Gold Bushynose Plecostomus, Longfin Bushynose Plecostomus, Tank Bred! Royal Farlowella Twig Catfish, Spotted Pictus Catfish, New! Hifin Mast Fin Catfish (cool), Albino Corydoras Catfish, Agassizii Corydoras Catfish, Orange Striped Corydoras Catfish, Green Aeneus Corydoras Catfish, Tank Bred! Venezuelanus Corydoras Catfish, Albino Longfin Paleatus Corydoras Catfish, Tank Bred! Davidsandsi Corydoras Catfish, Hybrid Jaguar Synodontis Catfish (beautiful), Small Clown Loaches, Botia Lohachata ‘YoYo’ Loaches, Botia Angellicus Loaches, Colombian Shark Catfish, Beautiful Corydoras Burgessi Catfish, Tank Bred! Otocinclus Algae Eaters, Botia Striata Loaches, Tank Bred Bushynose Plecostomus, L007 Dracula Plecostomus, Pygmy Corydoras Catfish, Horseface Loaches, Hypostomus Plecostomus, Chinese Butterfly Sucker Loaches, Golden Marble Chinese Algae Eaters, 4” Clown Loaches, Common Plecostomus.

Brackish – Tank Bred Mono Sebae, Tank Bred Mono Argentius, Figure Eight Pufferfish

Tetras / Rasboras / Barbs / Danios – Gold Barbs, Giant Danios, Black Phantom Tetras, Red Starfire Glo-fish Danios, Longfin Zebra Danios, Longfin White Cloud Mountain Minnows (awesome), Tank Bred Cardinal Tetras, Zebra Danios, Rummynose Tetras, Large Neon Tetras, Orange Von Rio Tetras, Sunburst Orange Glo-fish, Longfin Black Skirt Tetras, Red Serpae Tetras, Bloodfin Tetras, Scissortail Rasboras, Harlequin Rasboras, Male Longfin Rosy Barbs, Lg Congo Tetras, Red Phantom Tetras, Tiger Barbs, Medium Silver Dollars, White Cloud Mountain Minnows, Bleeding Heart Tetras.

Gouramis / Bettas – Assorted Color Male Bettas, Powder Blue Dwarf Gouramis, Female Bettas, Pearl Leeri Gouramis, Neon Dwarf Gouramis, Rainbow Dwarf Gouramis, Male Show Bettas, Pink Kissing Gouramis, Red Paradise Gouramis, Opaline Gouramis, Moonlight Gouramis, Gold Gouramis.

Cichlids (Dwarf, South American, African) – XL and Lg Adult Male Venustus Cichlids, Ruby Crystal Peacock Cichlids, German Blue Rams, German Gold Rams, Assorted Mbuna African Cichlids, Small Frontosa Cichlids, Geophagus Surinamensis Earth Eaters, Assorted S/M Peacock Cichlids, Demasoni Cichlids, Green Severums, Black “Inkfin” Calvus Cichlids, Black Lace Angelfish, Gold Veil Angelfish, Koi Angelfish, Festae Cichlids, Golden Rock Kribensis Cichlids, Altispinosa Bolivian Rams, S/M Jaguar Cichlids, M/L Jaguar Cichlids, Electric Blue Jack Dempseys, Small Oscars, Medium Striated Pike Cichlids, Metae Cichlids, Small Jaguar Cichlids, Assorted Medium Peacock Cichlids, Medium Firemouth Cichlids, XL Wild Caught Altum Angelfish (Nice), Assorted Small Standard Angelfish, Julidichromis Cichlids, Assorted Premium Mbuna African Cichlids, Telmatochromis brichardi Cichlids, Daffodil Brichardi Cichlids, Male Otopharynx Lithobates Cichlids.

Other – Medium Silver Arowanas, Red Millennium Rainbowfish, Boesemani Rainbowfish, Emerald Green Rainbowfish, Goyder River Rainbowfish, New Guinea Rainbowfish, Turquoise Rainbowfish, Threadfin Rainbowfish (large size!), Florida Flagfish, Blue Dolphin Sharks, False Tigrinus (Juruense) Shovelnose, Lima Shovelnose, Albino Frogs, African Frogs, M/L Tiretrack Eels, Orange Bee Algae Shrimp, Blackberry Shrimp, Clown Knives, Elipsifer Eel (stunning), Large Tiretrack Eel, Dwarf African Frogs, Lg Black Ghost Knife, Freshwater Flounders, Rainbow Sharks, Redtail Black Sharks, Leporinus Fasciatus, Lg Silver Arowanas, XL Clown Knifefish, Yellowtail Spiny Eels, African Ropefish, Chinese Algae Eaters, Bala Sharks, Olive Nerite Snails, Medium Silver Dollars, Cherry Shrimp.

German Stendker Discus – Green Turquoise, Red Turquoise, Marlboro Reds, Blue Diamonds, Silver Pigeon Bloods, Red Pigeon Bloods, Red

Snakeskins, Blue Cobalts. These fish are in perfect condition!!

Goldfish – Red Cap Orandas, Medium Assorted Orandas, Large Assorted Orandas, Assorted Ryunkin Fantails, Small Assorted Fantails, Small Black Moors.

LIVE AQUARIUM PLANTS:

Anubias on Driftwood (Friday), New! Pink Cabomba Furcata, Rotala Indica, Wisteria (Hygro. Difformis), Rotala Wallichii, Italian Vallesneria, Crinum Calimistratum Plants (on coupon 'til Christmas Eve more coming in Friday!), Amazon Swords, Ozelot Swords, Dwarf Baby Teardrop on rocks, Ludwigia Peruensis, Red Narrow Leaf Ludwigia, Filigree Frill, Microsword, Anubias Nana, Cryptocornye Moehlmanni, Rare! Apart Sword Plants, Dwarf Lily Bulbs, Blyxa Japonica, Moss Balls, Rare! Wide Leaf Madagascar Lace Plants, Anubias Afzelli.

The list above represents only the most recent livestock shipment. We have MANY other species available at the store!

SALTWATER FISH:

Angels / Butterflyfish – Half Black Angelfish, Flagfin Angelfish, Koran Angelfish, Auriga Butterflyfish, Coral Beauty Angelfish, Eiblii Angelfish, Potter's Angelfish, Flame Angelfish, Yellowtail Blue Spotted Poma Angelfish (incredible), Majestic Angelfish, Blueface Angelfish, Black & White Heniochus Butterflyfish, Yellow Longnose Butterflyfish, Vagabond Butterflyfish,

Clownfish – Ocellaris Clownfish, Tomato Clownfish, Melanopus Clownfish, Sebae Clownfish, Black Sebae Clownfish, Yellow Stripe Maroon Clownfish, Assorted Tank Bred Clownfish

Gobies / Blennies – Firefish Gobies, Green Mandarins, Spotted Mandarins, Diamond Sifter Gobies, Dragon Sifter Gobies, White Sifter Gobies, Green Line Sifter Gobies, Golden Head Sifter Gobies, Tiger Wardi Watchman Gobies, Pink Spotted Watchman Gobies, Yellow Watchman Gobies, Wheeleri Gobies, Randalli Orange Stripe Gobies, Starry Algae Blennies, Bluehead Fang Blennies.

Wrasses / Hogfish – Tonozu Fairy Wrasses, Carpenters Fairy Wrasses, Debilius Fairy Wrasses, Solorensis Fairy Wrasses, Sixline Wrasses, Australian Harlequin Tuskfish, Red Diana Hogfish, Lunare Wrasses.

Tangs / Rabbitfish – Yellow Tangs, Scopas Tangs, Sailfin Tangs, Blonde Naso Tangs, Blue Regal Tangs, Clown Tangs, Powder Brown Tangs, Yellow Mimic Tangs, Foxface Rabbitfish, Orange Shoulder Tangs, Yellow Eye Kole Tangs, Tominiensis Orangefin Tangs.

Triggerfish / Eels / Puffers – Dogface Pufferfish, Stars & Stripes Dogface Pufferfish, Humu Triggerfish, Rectangulus Triggerfish, Pinktail Triggerfish, Bursa Triggerfish.

Lionfish – Fuzzy Dwarf Lionfish, Dwarf Lionfish, Black Volitan Lionfish.

Other – Assorted Damsel fish, Panther Groupers, Village Belle Damsel fish, Miniatus Grouper, Bicolor Basslets, Blue Assessor Basslet (awesome!), Kauderni Bangaii Cardinalfish, Pajama Cardinalfish, Green Chromis, Spotted Hawkfish, Longnose Hawkfish, Hawaiian Redtail Filefish, Red Squirrelfish, Big Eye Squirrelfish, Tank Bred Seahorses, Shark Egg Capsules.

INVERTEBRATES:

Snails / Cucumbers / Starfish / Urchins – Mexican Turbo Snails, Gold Tequila Turbin Snails (the best algae eaters!), Atlantic Turbin Snails, Nerite Snails, Cerith Snails, Common Cucumbers, Brittle Starfish, Basket Starfish, Serpent Starfish, Blue Tuxedo Urchins, Sea Apple.

Crustaceans – Coral Banded Shrimp, Golden Banded Shrimp, Redtip Reef Hermits, Green Saron Shrimp, Sally Lite Foot Crabs, Emerald Crabs, Pom Pom Crabs, Common Pistol Shrimp, Candy Cane Pistol Shrimp.

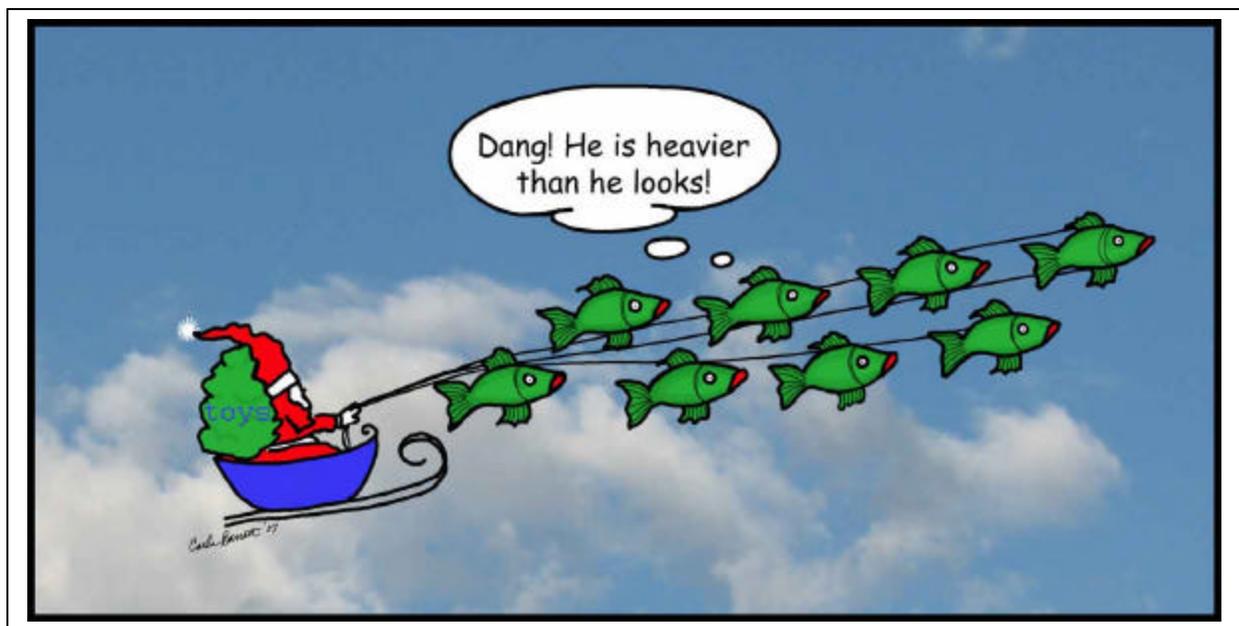
Corals / Polyps / Mushrooms – Assorted Nano Corals, Australian Orange & Green Scolymia Corals, Australian Red Lobophyllia Corals, 70 Head Duncanopsammia Coral (amazing!), Australian Green Hammer Corals, Australian Blasstomussa Corals, Metallic Cynarina Corals, Green Spiny Cup Pectinia Corals, Red Trachyphilia Corals, Green Trachyphilia Corals, Common Lobophyllia Corals, Premium Cultured

Acroporas, Premium Cultured Acropora Efflorescens Corals, Super Red Mushrooms, Pink Zoanthids, Blue Zoanthids, Orange Zoanthids, Green Metallic Zoanthids, Favia Corals, Favites Corals, Montipora Corals, Assorted Leather Corals, Indonesian Mushroom Rocks and much more...

Other – Green Bubble Anemones, 3” Squamosa Clams, 3” Teardrop Maxima Clams, Flowering Rock Anemones, Gorgonian Sea Fans, Long Tentacle Anemones, Common Feather Dusters, Red Hard Tube Coco Worm Dusters.

New Fiji Live Rock is nearly cured. We will be placing it in our selling tanks as soon as it is safe and ready for sale!

This list is based on our most recent shipments of saltwater livestock. There are many other species available in the store not included in this list.



**MERRY CHRISTMAS
FROM THE ENTIRE
TIDELINE AQUATICS
STAFF!!!**