



March 19, 2008

# tideline aquatics Newsletter

## Tideline Aquatics Store Hours

Monday – Friday 11am-7pm

Saturday 10am-6pm

Sundays 1pm-5pm

**NOTE: WE WILL BE CLOSED EASTER SUNDAY!!!**

## INTERESTING SHRIMP FOR THE MARINE AQUARIUM

Nearly every marine aquarist is aware of the more common shrimp species for the aquarium. Cleaner shrimp (*Lysmata amboinensis*), Coral Banded Shrimp (*Stenopus hispidus*) and Peppermint Shrimp (*Lysmata wurdemani*) are all beautiful and hardy crustaceans but there are a few less-known shrimp that deserve attention.

### **Pistol Shrimp (*Alpheus* sp.) –**



**CANDY PISTOL SHRIMP (*A. RANDALLI*), WITH A PAIR OF CANDY CANE GOBIES**

Pistol shrimp are one of the symbiotic shrimp available in our hobby. Symbiosis refers to the organisms living together to benefit one another. Pistol shrimp are practically blind crustaceans. They take up residence with what are referred to as Shrimp Gobies (Yellow Watchman Gobies, Candy Cane Gobies, Wheeleri Gobies, etc). The pistol shrimp digs out a burrow often lining it with tiny rocks and pebbles to stabilize the home it has made. The goby or pair of gobies lives within the burrow often staking out the opening

of the burrow. If a predator or invader comes too near, the goby will rapidly swipe its tail in the antennae of the pistol shrimp. This alerts the pistol shrimp of trouble causing the shrimp to loudly pop its large claw to deter the invader. The couple or group lives together to help one another. This behavior is called a symbiotic relationship or symbiosis.



**TIGER PISTOL SHRIMP (*A. BELLULUS*) WITH A YELLOW WATCHMAN GOBY**

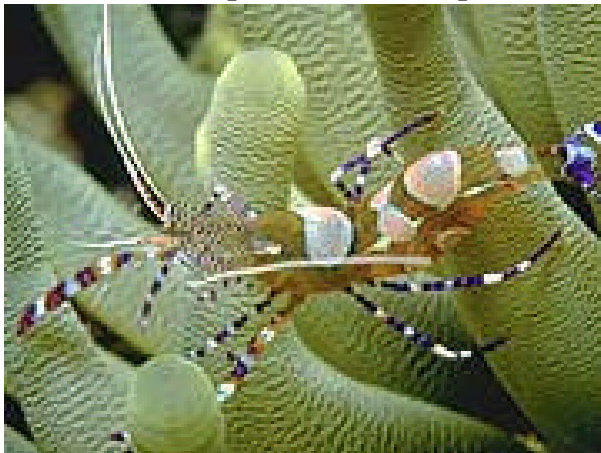
The sound a pistol shrimp makes when popping its claw can be heard all over the house! Pistols make good scavengers with their extreme sense of smell and they offer another bonus by digging in the substrate keeping it clean around their burrows. These shrimp are completely safe in the aquarium.



**RARE MICHAELS PISTOL SHRIMP (*A. SOROR*)**

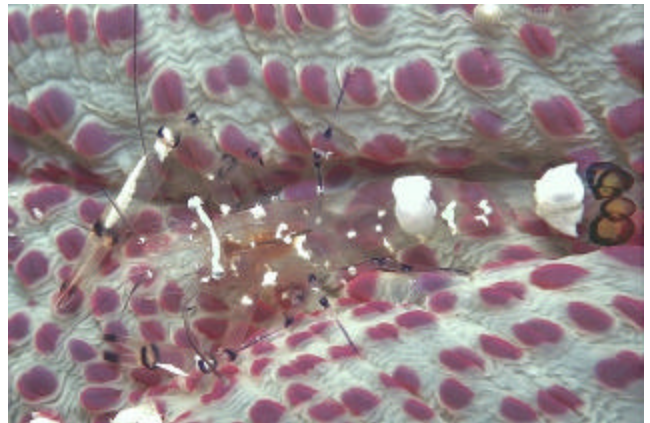
Avoid placing a pistol shrimp in an aquarium that contains predators like pufferfish, eels, large wrasses, lionfish and triggers (to name a few). Instead, keep them dwarf angelfish, tangs, gobies, blennies, rabbitfish and other non-predatory species. This is not a shrimp you will see every day but they are regularly moving sand or gravel in and out of their burrows offering you enough of a glimpse to find them quite enjoyable. Be aware that you will know it is there every day when it sounds it loud popping claw in your aquarium.

**Anemone Shrimp (*Periclimenes* sp.) –**



**P. BREVICAPARLIS IN ANEMONE TENTACLES**

Anemone shrimp (sometimes called Glass Shrimp) are found within the tentacles or base of sea anemones, mushroom polyps and even LPS corals. Most reach only about 1" in size, finding safety within the anemone. Like clownfish, they cover themselves with mucus from the anemone allowing them safety there. These shrimp are considered to be commensal organisms meaning they benefit from their host yet offer the host no benefit (like the 40 year old guy still living at home with his parents with no job or direction!). The anemone shrimp receives protection from predators and consumes excretions from the host while the anemone receives no known benefit from the shrimp. This is the perfect shrimp for nano aquariums due to their small size. Instead of an anemone, you may want to offer the shrimp a coralimorph mushroom polyp for a host. We have also had these shrimp take up house within the tentacles of Euphyllia corals (Hammers, Frogspawns, Torch, etc). We suggest offering the anemone shrimp tiny food particles to keep them healthy in the aquarium.



**ANEMONE SHRIMP DISGUISED UNDER ANEMONE**



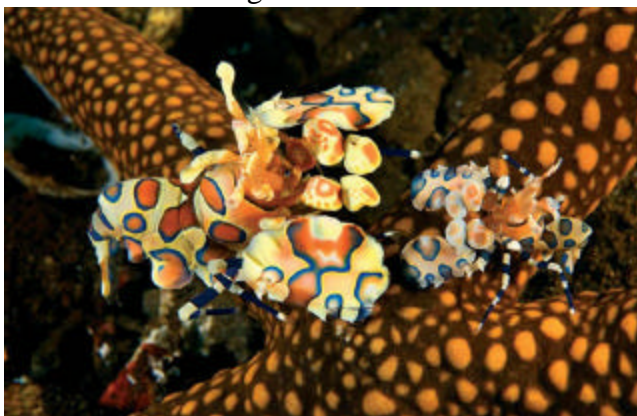
**P. BREVICAPARLIS ON GREEN CARPET ANEMONE**

If kept in pairs, these tiny shrimp will spawn regularly releasing the larvae into the water column offering natural live plankton to your live corals. Because of their tiny size, avoid housing them with larger fish that may make a meal of them!

**Harlequin Shrimp (*Hymenocera* sp.)**

Harlequin shrimp are some of the most unusual of all of the ornamental marine shrimp. The ornate markings, vivid coloration and odd shaped claws make them desirable to many hobbyists but there is a catch to keeping these striking shrimp. They only eat the legs and suction cup

feet of starfish! Do not be alarmed, everything has to eat something!



**PAIR OF HARLEQUIN CLOWN SHRIMP**

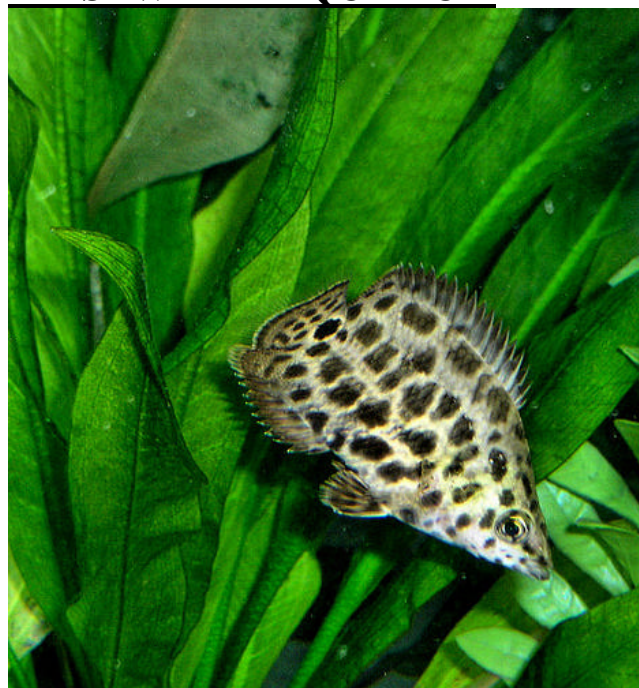
Consuming about one medium starfish per month, these beautiful specialized feeders are peaceful with all other invertebrates. Inexpensive starfish like Chocolate Chip Stars and Common Atlantic Starfish make good choices for keeping Harlequin Shrimp healthy. The flat claws are used to pry up the starfish's leg to reveal the shrimps favorite food, the suction cup feet.

### **POND PLANTS ARE HERE!!!**

Here is a list of all the plants we currently have in stock this week for your garden and/or pond: Assorted water lily cultivars (pinks, reds, yellows, peach), Water Snowflakes (Nymphoides in yellow or white), Canna flaccida (yellow flowers), Canna 'Erebus' (pink flowers), Red Stem Taro (elephants ear-like leaves with dark red stems), White Crinum Lilies (pictured above), Water papyrus (tall and medium varieties available), Water Bamboo (Dulichium arundinaceum), Bog Hibiscus (large red flowers), Iris 'Black Gamecock' (dark purple flowers), Louisiana Iris (mixed colors), Blue Flag Iris (blue flowers), Aquatic Mint (invasive in the ground – use in ponds only), Singapore Pink Pickerel (Pontederia sp.), Sagittaria montevidensis (AWESOME), Sagittaria lancifolia (long stems with white flowers), Graceful Cattails (medium height cattail), Bacopa caroliniana, Water Forget-Me-Nots (clusters of lantana-like flowers), Water Celery (pink variegated foliage), Ranunculus flammula (yellow flowers), Fiber Optic Grass (Scirpus cernuus), Yellow Bog Orchid (Cypella aquatilis), 'Crystal Confetti' Pennywort, Lindernia grandiflora (small purple flowers), Lysimachia (green and yellow available), Rotala indica (pink

flowers), Villarsia sp. (yellow flowers), Parrots Feather (oxygenator), Hornwort (oxygenator) and more to come as the weather warms up for this season!!

### **LEOPARD CTENOPOMA IN THE FRESHWATER AQUARIUM**



**THE LEOPARD CTENOPOMA (CTENOPOMA ACUTIROSTRE)**

Pronounced ten-oh-PA-mah, this African import is one of the more strikingly marked Ctenopomas. These fish are currently about 1.5" long but will grow to about 6" long adults. The shape and pattern of this fish allows it to blend in with leaf debris in its native waters where it can fool prey items like small fish and invertebrates. Though this fish is considered peaceful, it should not be kept with small slender fish like zebra danios, neons, rasboras, etc as it will eventually grow large enough to eat them. Instead, house them in an aquarium with plenty of cover (driftwood, rocks, caves, plants, etc) with larger peaceful species like Bala Sharks, Geophagus species, Mastecembelus eels (tiretack, fire eels), Gouramis, Severums, Rainbowfish, Uaru or even Discus. Though shy when first introduced, they become active feeders creeping in and out of rocks and crevices within the aquarium. If you plan on keeping more than one of these, it is suggested that you add them all at the same time to reduce the chance of aggression with one another. We are offering these on our website coupons this week for something different!



JUVENILE LEOPARD CTENOPOMA

## **PREMIUM DOMESTIC KOI AND POND COMETS ARE HERE!!**



Pond comets (goldfish) and premium domestic koi are now in stock. They will be ready for sale beginning this Friday!! We have a super selection of small, medium and medium/large domestic fish for your pond. These fish were all bred and raised locally from Japanese stock!! Speaking of Japanese.... Our Japanese koi shipment will arrive the last day of March. They will require a 30 day quarantine period but you will be allowed to place deposits on the fish of your choice for pick-up after the quarantine period has ended.

## **What's New At Tideline**

### **FEEDERS (NOW IN STOCK!!):**

Feeder Goldfish, Feeder Rosy Reds, Feeder Ghost Shrimp, Feeder Crayfish, Feeder Fiddler Crabs, Feeder Guppies & Live Black Worms.

### **FRESHWATER FISH:**

**Livebearers** – Yellow Endler's Livebearers, Dalmation Mollies, Sunset Variatus, Black Yucatan Mollies.

**Catfish/Loaches/Plecostomus** –Siamensis Rare Red Loricaria Whiptail Catfish, Large Common Plecostomus, Large Botia Angellicus Loaches,

Nice Botia Sidthimunki Loaches, Flying Fox Algae Eaters (safe for planted tanks), Shovelnose Catfish.

**Brackish**–Bumble Bee Gobies, Anableps anableps, Archerfish, Lg Green Spotted Puffers, Black Cheek Gobies (cool), Lg Figure Eight Puffers.

**Tetras / Rasboras / Barbs / Danios** – Florida Bred Neon Tetras, Black Wing Hatchetfish, Galaxy Rasboras, Red Pencilfish, Glolite Tetras, Bloodfin Tetras, Red Serpae Tetras, Zebra Danios, Glo-Fish. Sorry, but once again the Cardinal Tetras arrived DOA.

**Gouramis / Bettas** – Male Bettas, Black Fighter Bettas (males), White Pearl Fighter Bettas (males), Gold Gouramis, Opaline Gouramis, Red Sunset Gouramis (very nice!), Gold Honey Gouramis, Leopard Ctenompas.

**Cichlids** (Dwarf, South American, African) – Geophagus Jurupari Eartheaters, AWESOME Heckelii Eartheaters, Jack Dempseys, Firemouths, Brilliant Blue Jewel Cichlids, Premium Mix Mbuna African Cichlids,

**Other** – BABY Black Arowana (only one available!!!), Baby Fire Eels, Japanese Trapdoor Snails, Mystery Snails, Turquoise Rainbowfish, Parkinsoni Rainbowfish, Green Emerald Rainbowfish, Boesmani Rainbowfish, Red Millennium Rainbowfish, Leopard Ctenopomas, Red and Orange Glo-Fish, Elephant Nose, African Ropefish, Electric Blue Crayfish, Dwarf African Frogs, Blackberry Japonica Shrimp, Regular Japonica Shrimp, Bamboo Shrimp. Sorry but all of the freshwater stingrays arrived DOA this week.

**Goldfish** – (Now in Stock) Medium Red Cap Orandas, Red Orandas, Calico Ryunkins, Red Ryukins, Small Assorted Fantail Goldfish, Small Black Moors, Medium Assorted Fantail Goldfish, Medium Black Moors, Red Ranchu Lionhead.

**Koi, Pond Fish and Pond Plants** – Our pond is now open and is filled to the brim with goldfish, koi, water lilies, oxygenators, jumbo bullfrog tadpoles, bog plants and floating island plants. Tropical lilies and lotus will not be ready until about Mid-April.

**Live Aquarium Plants (Now in Stock) -**

Crypt. Red Wedntii, Crypt Balansae, Crypt Retrospiralis, Microsword (Lileopsis), Zosterifolia Bunches, Aponogeton ulvaceous, Giant Hairgrass, Dwarf Hairgrass, Dwarf Lilies, Anubias nana, Crinum calamistratum, Blyxa auberti Grass, Dwarf sagittaria, Italian sagittaria, Ludwigia peruensis bunches, Variegated Radican Sword Plants, Rotala wallichii Bunches, Water Wisteria Bunches, Rotala indica Bunches, Potamogeton gayi Bunches, Narrow Leaf Ludwigia Bunches, Amazon Swords, NEW Pogostemon helferi Bunches (Sold Out).

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

**SALTWATER FISH:**

**Angels / Butterflyfish** – Caribbean Argi Pygmy Angelfish, Flame Angelfish, Juvenile Emperor Angelfish, Coral Beauty Angelfish, XL Eiblii Angelfish, Awesome Flameback Angelfish, Swallowtail Angelfish, Male Zebra Angelfish, Flagfin Angelfish, Australia Scribbled Angelfish, Rainfordi Butterflyfish, Black & White Heniochus.

**Clownfish** – True Percula Clownfish, Tank Bred Ocellaris Clownfish, Tank Bred Black Onyx Percula Clownfish (Incredible), Sebae Clownfish.

**Gobies / Blennies** – Algae Blennies, Green Wolf Eel Blennies, Spotted Mandarins, Twospot Signal Gobies, Diamond Sifter Gobies, Dragon Sifter Gobies.

**Wrasses / Hogfish** – Paddlefin Wrasses, Exquisite Fairy Wrasses, Dragon Wrasses, Yellow Coris Wrasses, Super Red Fairy Wrasses.

**Tangs / Rabbitfish** – Blue Regal Tangs, African Powder Blue Tangs, Powder Brown Tangs, Hawaiian Yellow Tangs, Jumbo Clown Tang, Yellow Eye Kole Tangs, Baby African Yellow Belly Blue Regal Tangs, Convict Tangs, Sailfin Tangs, Foxface Rabbitfish, Redfin Foxface Rabbitfish.

**Triggerfish / Eels / Puffers** – Hawaiian Blue Jaw Triggerfish, Hawaiian Pinktail Triggerfish, Clown Triggerfish, Blueline Fuscus Triggerfish, Spotted Dogface Pufferfish, Porcupine

Pufferfish, Dogface Pufferfish, Snowflake Moray Eels, Caribbean Chainlink Moray Eels.

**Lionfish** – African Black Volitan Lionfish, Fuzzy Dwarf Lionfish

**Other** – Large Blue Damselfish, Large Fourstripe Damselfish, Large Twostripe Damselfish, Pink Damselfish, Domino Damselfish, Whitetail Damselfish, Royal Grammas, Sunburst Fathead Anthias.

**INVERTEBRATES:**

**Snails / Cucumbers / Starfish / Urchins** – Costa Rica Turbo Snails, Caribbean Turbin Snails, Costa Rica Redfoot Snails, Chocolate Chip Starfish, Sand Sifting Starfish, Short Spine Black Urchins.

**Crustaceans** – Cleaner Shrimp, Caribbean Peppermint Shrimp, Coral Banded Shrimp, Harlequin Clown Shrimp, Blueleg Reef Hermits, Scarlet Redleg Reef Hermits, Sand Sifting Horseshoe Crabs, Electric Blue Reef Hermits, Arrow Crabs, Sally Lite Foot Crabs, Assorted Pistol Shrimp.

**Corals / Polyps / Mushrooms** – Green Mushroom Rocks, Bright Yellow Toadstool Leather Corals, Cultured Nano Corals, Assorted Zoanthid Rocks, Caribbean Coralimorph Mushroom Polyps, Candy Caulestrea Corals, Green Hydnothophora Corals, Cultured Acropora Corals, Green Fox Corals, Red Trachyphilia Corals, Very Rare Duncanopsammia Axifuga Coral (5 polyps).

**Other** – Green Bubble Anemones, Rock Anemones, Money Plant (Halimeda species), Codium Algae, Finger Seafans (Caribbean), Red Tree Sponges, Atlantic Feather Dusters, Purple Tip Sebae Anemones, Long Tentacle Anemones, Mangrove Shoots.

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