

**DRAFT**



# ALGAE AND INVERTEBRATES of Deepwater Communities in the Northwestern Gulf of Mexico

Developed by Flower Garden Banks National Marine Sanctuary

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## KINGDOM PLANTAE

### DIVISION CHLOROPHYTA (GREEN ALGAE)

- Order Bryopsidales
- Order Cladophorales
- Order Siphonocladales
- Family Codiaceae
- Family Anadyomenaceae
- Family Valoniaceae



*Codium repens*      *Anadyomene lacerata*      *Ventricaria ventricosa*

### CLASS PHAEOPHYCEAE (BROWN ALGAE)

- Order Dictyotales
- Family Dictyotaceae
- Family Sargassaceae



*Padina profunda*      *Sargassum hystrix*

### DIVISION RHODOPHYTA (RED ALGAE)

- Order Cryptonemiales
- Family Cryptonemiaceae
- Family Schizmeniaceae



*Halymenia hancockii*      *Titanophora incrustans*

- Order Gigartinales
- Family Kallymeniaceae
- Order Caulerpales
- Family Caulerpacae



*Kallymenia westii*      *Caulerpa racemosa*

## KINGDOM ANIMALIA

- PHYLUM CNIDARIA
- CLASS ANTHOZOA
- SUBCLASS HEXACORALLIA
- Order Zoanthidea



*Protopalycha grandis*  
Mushroom zoanthid

- PHYLUM ANNELIDA
- CLASS POLYCHAETA
- ORDER CANALIPALPATA
- Family Serpulidae



Family Serpulidae  
*Filograna huxleyi?*

- Order Actinaria
- Family Aliciidae
- Family Isopheiliidae



*Alicia mirabilis*  
Warty anemone      *Telmatactis sp.*

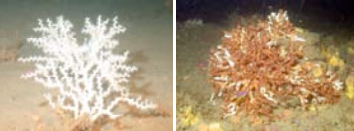
### ORDER SCLERACTINIA

- Family Pocilloporidae



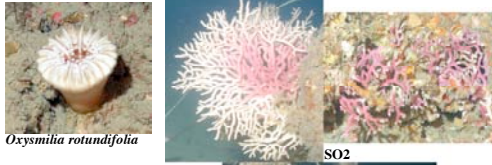
*Madracis cf asperula?*      *Madracis brueggemanni*

- Family Oculinidae



*Madrepora carolina*      *Oculina sp.2*

- Family Caryophylliidae



*Oxysmilia rotundifolia*      SO2

- Subclass Ceriantipatharia
- Order Cerianttharia



TA01      TA02      SO3

- Subclass Octocorallia
- Order Pennatulacea



SPEN1      SPEN2      SPEN3

February, 2007

### PHYLUM ECHINODERMATA

- CLASS ASTEROIDEA
- ORDER FORCIPULATIDA
- ORDER VALVATIDA
- Family Asteriidae
- Family Goniasteridae



*Coronaster briareus*      *Sclerasterias contorta*      *Tosia parva*

- Family Ophidiasteridae



*Linckia guildingii*      *Narcissia trigonaria*      *Haeclia superba*

### ORDER SPINULOSIDA

- Family Echinasteridae
- Yet to be identified sea stars



*Henricia sexradia* ST01      ST13      ST08      CR11

- CLASS OPHIUROIDEA
- ORDER PHRYNOPHIURIDA
- ORDER OPHIURIDA
- Family Gorgonocephalidae



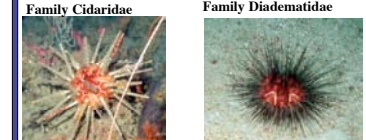
*Astrophyton muricatum*      *Astrocyclus caecilia*

- Family Gorgonocephalidae
- Family Ophiotrichidae



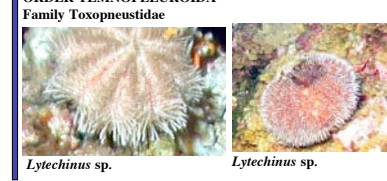
*Ophiotrix suensonii*      SO7

- CLASS ECHINOIDEA
- ORDER CIDAROIDA
- Family Cidaridae



*Stylocidaris affinis*      *Astropyga magnifica*

### ORDER TENNOPLEUROIDA



*Lytechinus sp.*      *Lytechinus sp.*

### CLASS HOLOTHUROIDEA ORDER ASPIDOCHIROTIDA

- Family Holothuriidae
- Family Stichopodidae
- Isostichopus badiotus*

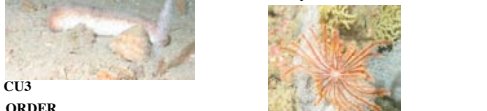


*Holothuria lentiginosa*      *Isostichopus badiotus*



CU1      CU2

- CLASS CRINOIDEA
- ORDER COMATULIDA
- Family Antedonidae



CU3      *Stylometra spinifera var. brevispina*

### ORDER CHARITOMETRIDAE



*Crinometra brevipinna*      CR07

- ORDER COMASTERIDAE
- Yet to be identified crinoids



*Comactinia meridionalis*      *Davidaster discoideus*      CR06

- PHYLUM MOLLUSCA
- CLASS CEPHALOPODA
- ORDER OCTOPODA
- Family Octopodidae



Octopus - *Scaevargus unicoloris*

- CLASS GASTROPODA
- ORDER VETIGASTROPODA
- Family Pleurotariidae



*Entemnotrochus adansonianus*  
Slit shell

- ORDER CAENOCASTROPODA
- Family Oculidae



*Cyphoma gibbosum*  
Flamingo Tongue

- PHYLUM ARTHROPODA
- CLASS MALACOSTRACA
- ORDER DECAPODA
- Family Pandalidae



*Plesionika longicauda*

- Family Palaemonidae
- Family Hippolytidae



*Lysmata grabhami*      *Periclimenes pedersoni*

- Family Axidae



*Calaxius sp.*

- Family Inachidae
- Family Galatheididae
- Family Diogenidae



*Stenorynchus seticornis*  
Arrow crab      *Munida sp.*      *Dardanus fucosus?*

All of these images were obtained with a camera on a remotely operated vehicle at depths between 50m and 150m