

## Midway Atoll Algae / Seagrass Identifications

By Dennis J. Russell

October 26, 2001

09-09-01 Midway Atoll, GHBalazs, Mouth algae, MT 4  
(broken vial lid, leaking)

*Halophila hawaiiiana* (several scraps)

09-11-01 Midway Atoll, GHBalazs, Mouth algae, MT 67, 4135783778  
(broken vial lid, leaking)

*Halophila hawaiiiana* (one full leaf)

09-11-01 Midway Atoll, cargo pier, GHBalazs, beach wash,  
(broken vial lid, leaking)

*Halophila hawaiiiana* (several leaves)

09-12-01 Midway Atoll, GHBalazs, Mouth algae, MT 68  
(broken vial cap, cap fell off, contents spilled into bag)

*Halophila hawaiiiana* (one small scrap recovered from the the inside of the vial).

09-13-01 Midway Atoll, green buoy, 25 ft depth, bottom collection, off turtle  
beach, GHBalazs

*Halophila hawaiiiana* (many leaves of both species)  
*Halophila decipiens*

The *H. hawaiiiana* leaves were more robust, larger and thicker than the *H. decipiens* leaves.

09-15-01 Midway Atoll, inner harbor drift, GHBalazs  
(broken vial lid, leaking)

*Halophila hawaiiiana* (several leaves)

# Midway Atoll Green Turtle Algae Samples

Results of identifications done by Dennis J. Russell on December 30, 2000

11-14-00 Midway Atoll, #4135796E0E, MT #51, mouth sample

*Spyridia filamentosa* All

11-16-00 Midway Atoll, #414B682450, <sup>tood</sup> MT #56, stomach flush

*Halophila hawaiiiana* 95%

*Spyridia filamentosa* 3

*Zonaria* sp. 2

*Hypnea* sp. 1

*Centroceros clavulatum* Trace

*Cladophora* sp. Trace

*Sargassum* sp. Trace

1 micromollusc snail

1 amphipod

11-17-00 Midway Atoll, #41351A476D, <sup>tood</sup> MT #59, stomach flush

*Centroceros clavulatum* Trace

*Jania capillacea* Trace

Masses of jellyfish tissue with nematocystes

2 amphipods

2 isopods

3 small (1-2 mm long) flukes or marine leeches

1 sea cucumber larva?

1 hydrzoan

Curled, coiled purple synthetic fibers 10 um thick

Paper pieces and fibers

Squamous epithelium tissue and loose cells

11-17-00 Midway Atoll, #413639640E, <sup>tood</sup> MT #60, stomach flush

*Laurencia nidifica* 90%

*Codium cuniatum* 5

*Laurencia* sp. 4

*Centroceros clavulatum* 1

*Ceramium* sp. Trace

*Griffithsia* sp. Trace

*Halophila hawaiiiana* Trace

*Polysiphonia* sp. Trace

*Sphacelaria tribuloides* Trace

*Spyridia filamentosa* Trace

Squamous epithelia cells abundant



11-14-00 Midway Atoll, #1F6D676D20, MT #15, mouth sample

*Hypnea nidifica*

Trace

*Dictyota crenulata*

Trace

11-16-00 Midway Atoll, #4136342335, MT #55, fecal samples

*Halimeda* sp.

Trace

*Lyngbya majuscula*

Trace

Terrestrial vegetation (trace)

Spong spicules, masses and major bulk of sample contents

Turquoise blue paint chips

10-30-00 Midway Atoll, Stomach necropsy sample A

*Halophila hawaiiiana* (with nice flowers) 90%

*Codium cuneatum* 10

*Laurencia* sp. Trace

*Microdictyon setchellianum* Trace

Orange sponge spicules and small chunks

10-30-00 Midway Atoll, Stomach necropsy sample B

*Halophila hawaiiiana* 99%

Tufts of filamentous meshwork red algae 1  
(looks like the tips off *Galaxaura* sp.)

Bright orange sponge, 2 cm<sup>3</sup>

### Summary of species found in these samples:

#### Chlorophyta

*Cladophora* sp.

*Codium cuniatum*

*Halimeda* sp.

*Microdictyon setchellianum*

#### Sea Grass

*Halophila hawaiiiana*

#### Phaeophyta

*Dictyota crenulata*

*Sargassum* sp.

*Sphacelaria tribuloides*

*Zonaria* sp.

#### Rhodophyta

*Ceramium* sp.

*Griffithsia* sp.

*Galaxaura* ?

*Hypnea nidifica*

*Hypnea* sp.

*Jania capillacea*

*Laurencia nidifica*

*Laurencia* sp.

*Polysiphonia* sp.

*Spyridia filamentosa*

#### Cyanophyta

*Lyngbya majuscula*