

ALGAE IDs  
BY DENNIS RUSSELL

Federation Camp, Lanai Island, Ten Fecal Samples, September 2002

Identification of algae by Dennis J. Russell

FC-1 Federation Camp, Lanai Island, September 2002

*Melanamansia glomerata* 100%

*Pterocladia capillacea* Trace

Sand

FC-2 Federation Camp, Lanai Island, September 2002

*Melanamansia glomerata* 100%

Sand

FC-3 Federation Camp, Lanai Island, September 2002

*Melanamansia glomerata* 100%

FC-4 Federation Camp, Lanai Island, September 2002

*Melanamansia glomerata* 85%

*Turbinaria ornata* 10

*Codium arabicum* 5

*Sargassum* sp. Trace

FC-5 Federation Camp, Lanai Island, September 2002

*Melanamansia glomerata* 65%

*Codium arabicum* 20

*Pterocladia capillacea* 12

*Sargassum* sp. 5

*Acanthophora spicifera* 3

*Cladophoropsis* sp. Trace

FC-6 Federation Camp, Lanai Island, September 2002

*Melanamansia glomerata* 75%

*Codium arabicum* 15

*Sargassum* sp. 8

*Cladophoropsis* sp. 2

FC-7 Federation Camp, Lanai Island, September 2002

*Melanamansia glomerata* 40%

*Codium arabicum* 25

*Sargassum* sp. 30

*Acanthophora spicifera* 5

*Cladophoropsis* sp. Trace

FC-8 Federation Camp, Lanai Island, September 2002

<i>Melanamansia glomerata</i>	55%
<i>Codium arabicum</i>	25
<i>Sargassum</i> sp.	15
<i>Acanthophora spicifera</i>	5
Sand	

FC-9 Federation Camp, Lanai Island, September 2002

<i>Melanamansia glomerata</i>	60%
<i>Codium arabicum</i>	30
<i>Gelidium</i> sp.	5
<i>Pterocladia capillacea</i>	5
<i>Valonia aegagropila</i>	Trace
Sand	

FC-10 Federation Camp, Lanai Island, September 2002

<i>Melanamansia glomerata</i>	90%
<i>Valonia aegagropila</i>	7
<i>Gelidium</i> sp.	5

**Algae species present in these samples**

**Rhodophyta**

*Acanthophora spicifera*  
*Gelidium* sp.  
*Melanamansia glomerata*  
*Pterocladia capillacea*

**Phaeophyta**

*Sargassum* sp.  
*Turbinaria ornata*

**Chlorophyta**

*Cladophoropsis* sp.  
*Codium arabicum*  
*Valonia aegagropila*

**Kahue, Lanai Island, Ten Samples, September 2002**

**Identification of algae by Dennis J. Russell**

**K-1 Kahue, Lanai Island, September 2002**

<i>Dictyophaeria versluysii</i>	80%
<i>Valonia aegagropila</i>	90%

**K-2 Kahue, Lanai Island, September 2002**

<i>Valonia aegagropila</i>	90%
<i>Melanamansia glomerata</i>	10
<i>Sphacelaria</i> sp.	Trace

**K-3 Kahue, Lanai Island, September 2002**

<i>Melanamansia glomerata</i>	100%
<i>Valonia aegagropila</i>	20
<i>Codium arabicum</i>	Trace

**K-4 Kahue, Lanai Island, September 2002**

<i>Melanamansia glomerata</i>	85%
<i>Codium edule</i>	10
<i>Cladophora sercea</i>	5

**K-5 Kahue, Lanai Island, September 2002**

<i>Melanamansia glomerata</i>	65%
<i>Dictyophaeria versluysii</i>	20
<i>Pterocliadiella capillacea</i>	10
<i>Cladophora sercea</i>	5

**K-6 Kahue, Lanai Island, September 2002**

<i>Melanamansia glomerata</i>	100%
<i>Cladophora sercea</i>	Trace

**K-7 Kahue, Lanai Island, September 2002**

<i>Melanamansia glomerata</i>	95%
<i>Valonia aegagropila</i>	3
<i>Pterocliadiella capillacea</i>	2

**K-8 Kahue, Lanai Island, September 2002**

<i>Melanamansia glomerata</i>	100%
<i>Cladophora</i> sp.	Trace

**K-9 Kahue, Lanai Island, September 2002**

<i>Melanamansia glomerata</i>	85%
<i>Pterocliadiella capillacea</i>	15

**K-10 Kahue, Lanai Island, September 2002**

<i>Pterocladia capillacea</i>	85%
<i>Melanamansia glomerata</i>	10
<i>Valonia aegagropila</i>	5
<i>Cladophoropsis luxurians</i>	Trace

**Species present in these samples**

**Rhodophyta**

*Pterocladia capillacea*  
*Melanamansia glomerata*

**Chlorophyta**

*Cladophora sercea*  
*Cladophora* sp.  
*Cladophoropsis luxurians*  
*Codium arabicum*  
*Codium edule*  
*Codium* sp.  
*Dictyosphaeria versluysii*  
*Valonia aegagropila*

**Phaeophyta**

*Sphacelaria* sp.

**White Rock, Lanai, Ten Fecal Samples, September 2002**  
**Identifications by Dennis J. Russell, November 24, 2003**

WR1 9-02, White Rock, Lanai

<i>Pterocladia capillacea</i>	60%
<i>Melanamansia glomerata</i>	40
<i>Codium</i> sp.	Trace
<i>Dictyota</i> sp.	Trace

WR2 9-02, White Rock, Lanai

<i>Pterocladia capillacea</i>	90%
<i>Melanamansia glomerata</i>	10

WR3 9-02, White Rock, Lanai

<i>Melanamansia glomerata</i>	80%
<i>Pterocladia capillacea</i>	20
<i>Dictyosphaeria versluysii</i>	Trace
<i>Cladophora</i> sp.	Trace

WR4 9-02, White Rock, Lanai

<i>Pterocladia capillacea</i>	100%
<i>Melanamansia glomerata</i>	Trace

WR5 9-02, White Rock, Lanai

<i>Melanamansia glomerata</i>	95%
<i>Pterocladia capillacea</i>	5

WR6 9-02, White Rock, Lanai

<i>Melanamansia glomerata</i>	99%
<i>Sphacelaria</i> sp.	1
<i>Pterocladia capillacea</i>	Trace

WR7 9-02, White Rock, Lanai

<i>Melanamansia glomerata</i>	85%
<i>Codium arabicum</i>	10
<i>Valonia aegagropila</i>	5
<i>Sphacelaria</i> sp.	Trace

WR8 9-02, White Rock, Lanai

<i>Melanamansia glomerata</i>	99%
<i>Caulerpa racemosa</i>	1
<i>Pterocladia capillacea</i>	Trace

WR9 9-02, White Rock, Lanai  
*Melanamansia glomerata* 90%  
*Pterocladia capillacea* 8  
*Codium* sp. 2  
*Caulerpa* sp. Trace  
*Cladophora* sp. Trace

WR10 9-02, White Rock, Lanai  
*Melanamansia glomerata* 90%  
*Dictyosphaeria versluysii* 3  
*Pterocladia capillacea* 7

**Species present in these samples**

**Rhodophyta**

*Pterocladia capillacea*  
*Melanamansia glomerata*

**Chlorophyta**

*Caulerpa racemosa*  
*Caulerpa* sp.  
*Cladophora* sp.  
*Codium arabicum*  
*Codium* sp.  
*Dictyosphaeria versluysii*

**Phaeophyta**

*Dictyota* sp.  
*Sphacelaria* sp.

## Kapoho, Puna, Hawaii Island, Six Samples, March 2003

### Identification of algae by Dennis J. Russell

Algae in formalin tubes for identification of algae by Dennis J. Russell.  
Green turtle stomach flushes and one reef sample.

KH-1: 3-19-03 S4A, #1, Green turtle stomach flush, Kapoho, Puna, Hawaii Island

<i>Melanamansia glomerata</i>	90%
<i>Martensia fragilis</i>	10
<i>Hypnea sp.</i>	Trace
<i>Laurencia nidifica</i>	Trace
<i>Pteroclatiella capillacea</i>	Trace

KH-2: 3-20-03 #2, Blind Inlet Green, reef, Kapoho, Puna, Hawaii Island

<i>Bryopsis pennata</i>	100%
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Diatoms abundant (filamentous, several species)  
Two amphipods

KH-3: 3-20-03 #3, Blind Inlet Green, reef, Kapoho, Puna, Hawaii Island

Diatoms (100%) forming long chains, filaments, (five different species, *Biddulphia*, etc.)

KH-4: 3-20-03 #5, Blind Inlet Green, reef, Kapoho, Puna, Hawaii Island

<i>Acrochaetium sp.</i>	90%
<i>Ulva sp.</i>	5
<i>Dictyota friabilis</i>	3
<i>Laurencia nidifica</i>	2

Diatoms are very abundant, filamentous, 5+ different species  
Amphipods  
Isopods

KH-5: 3-20-03 #7, Blind Inlet Green, reef, Kapoho, Puna, Hawaii Island

Diatoms (100%), filaments, more than five different species.

KH-6: 3-20-03 #9, Blind Inlet Green, reef, Kapoho, Puna, Hawaii Island

<i>Gracilaria salicornia</i>	100%
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Diatoms abundant, several species.

### List of species present in these samples

#### Rhodophyta

*Acrochaetium sp.*  
*Gracilaria salicornia*  
*Hypnea sp.*  
*Laurencia nidifica*  
*Martensia fragilis*  
*Melanamansia glomerata*  
*Pteroclatiella capillacea*

**Chlorophyta**

*Bryopsis pennata*

*Ulva* sp.

**Phaeophyta**

*Dictyota friabilis*

**Diatoms**

Abundant, several species present, forming chains or filaments



40 fecal samples (fwd)

**Subject:** 40 fecal samples (fwd)  
**From:** "George H. Balazs" <gbalazs@honlab.nmfs.hawaii.edu>  
**Date:** Sun, 30 Nov 2003 14:41:37 -1000  
**To:** Shawn Murakawa2 <shawn.murakawa@noaa.gov>

this one also please.

----- Forwarded message -----  
Date: Sun, 30 Nov 2003 15:40:20 +0400  
From: Dennis Russell <drussell@aus.ac.ae>  
To: [gbalazs@honlab.nmfs.hawaii.edu](mailto:gbalazs@honlab.nmfs.hawaii.edu)  
Subject: 40 fecal samples

George,

Here are the results of the 40 fecal samples you sent to me in June. There isn't much left to the seaweeds after they have passed through the turtle.

Aloha, Dennis

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\*\*\*\*\* Message from InterScan E-Mail VirusWall NT \*\*\*\*\*

\*\* No virus found in attached file Honokowai.doc

was scanned and no virus found. - AUS ITD Network & Telecom Section

\*\*\*\*\* End of message \*\*\*\*\*

## Honokowai Project, Maui Island, 40 Fecal Samples: Algae Identification

by Dennis J. Russell June 2003

The way the dates are reported for these data is confusing and incorrect. I can't distinguish the day from the month from the time of day – The 27Sep02 method of reporting dates is far better. These samples were taken by someone who needs to be trained in proper and professional data collection techniques. It is also impossible to put the samples back into the tiny 1.5 ml vials after rehydration. I suggest using the larger 50cc vials, especially for fecal samples.

NM1 ~~020704~~ <sup>Year Month DAY</sup> (What does this mean?) Kapalua off Hale Manu II in *Halimeda*

*Pterocladia capillacea* 100%

NM2 ~~020705pm~~ <sup>Year Month DAY</sup> (?) Shredder's Ridge

*Pterocladia capillacea* 90%

*Melanamansia glomerata* 10

Terrestrial plant material

NM3 020705am Shredder's Ridge (different area)

*Pterocladia capillacea* 95%

*Ulva* sp. 5

*Melanamansia glomerata* Trace

*Sargassum* sp. Trace

Terrestrial plant material

NM4 020705am *Halimeda* beds by Graveyard

*Pterocladia capillacea* 100%

NM5 020704am Turtle house directly out of 1999, turtle #163 (sighted 99,00,01,02)

*Codium edule* 80

*Pterocladia capillacea* 15

*Ulva* sp. 5

*Polysiphonia howei* Trace

NM6 020709pm Cavern (small bag D)

*Pterocladia capillacea* 100%

NM7 020709pm Cavern (small bag B)

*Pterocladia capillacea* 100%

NM8 020709pm Bag E

<i>Pterocladia capillacea</i>	100%
<i>Cladophoropsis</i> sp.	Trace
<i>Melanamansia glomerata</i>	Trace
<i>Turbinaria ornata</i>	Trace

NM9 020714am Bag B, by first rock just past seawall (very shallow).

<i>Pterocladia capillacea</i>	100%
Sponge	

NM10 020714am Bag C, collected on surface between reef 1 & 2.

<i>Pterocladia capillacea</i>	100%
<i>Melanamansia glomerata</i>	Trace

NM11 020714am Bag E, by sand scoop near Yellow Rock in shallows (related to #10)

<i>Pterocladia capillacea</i>	100%
<i>Lyngbya majuscula</i>	Trace

NM12 020714am Bag A, several in a clump, by corals mauka of Outback.

<i>Pterocladia capillacea</i>	100%
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NM13 020716pm At The Net (South Pasture), several pellets in a clump.\*

<i>Pterocladia capillacea</i>	100%
<i>Halophila hawaiiiana</i>	Trace

NM14 020717pm Bag D, in sand trough at Reef 2, in a clump.

<i>Pterocladia capillacea</i>	100%
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NM15 020717pm Bag F, green fecal pellet found on top of coral.

<i>Melanamansia glomerata</i>	75%
<i>Codium arabicum</i>	22
<i>Cladophora</i> sp.	2
<i>Microdictyon setchellianum</i>	1
<i>Acanthophora spicifera</i>	Trace
<i>Sphacelaria</i> sp.	Trace

NM16 020718am Hawksbill (Kiniana) South Pasture, nar The Net.

<i>Codium reedae</i>	85%
<i>Codium edule</i>	10
<i>Enteromorpha</i> sp.	5
<i>Halimeda discoidea</i>	Trace
<i>Melanamansia glomerata</i>	Trace

NM17 020725 Found in Cavern, small pellet.

*Pterocladiaella capillacea* 100%

NM18 020728pm Bag K, South Park.

*Melanamansia glomerata* 100%

*Pterocladiaella capillacea* Trace

NM19 020729am Bag H, Mt. Balazs (only subadults present)

*Pterocladiaella capillacea* 100%

NM20 020730am Bag D, Mt. Balazs\*.

*Pterocladiaella capillacea* 90

*Melanamansia glomerata* 10

NM21 020731pm Bag A, Lahaina of Hale Manu II (small pellet).

*Pterocladiaella capillacea* 55%

*Enteromorpha* sp. 30

*Melanamansia glomerata* 15

NM22 020731pm South Pasture, small firm pellet.

*Pterocladiaella capillacea* 90%

*Melanamansia glomerata* 10

NM23 020731pm Found on top of a coral head.\*

*Pterocladiaella capillacea* 100%

NM24 020801am Found in coral just Lahaina of East House.

*Pterocladiaella capillacea* 100%

NM25 020804pm At Wana's Trample.

*Pterocladiaella capillacea* 100%

NM26 020804pm Bag C, East House (small pellet).

*Pterocladiaella capillacea* 100%

*Laurencia* sp. Trace

Terrestrial plant material

Black colonial ascidian

NM27 020804pm Bag E, found in *Halimeda* bed, mauka of Reef 1.

*Pterocladiaella capillacea* 100%

NM28 020805am     Bag B, inside sea wall.

*Pterocladia capillacea*     100%

NM29 020805pm     Bag F, Lahaina of Hale Manu II

*Melanamansia glomerata*     90%

*Codium edule*     10

*Pterocladia capillacea*     Trace

NM30 020805     Bag D, makai of sea wall.

*Pterocladia capillacea*     100%

NM31 020810am     Bag A, mauka of Reef 1, near sample #27.

*Pterocladia capillacea*     100%

NM32 020813pm     Lahaina and makai section of Reef 2.

*Pterocladia capillacea*     100%

NM33 020814am     From Wana's Trample

*Pterocladia capillacea*     100%

NM34 020815am     On surface above K17 Rock Regression, case 1999 #52 (Acorn left profile), turtle swimming nearby, soft pellet.

*Pterocladia capillacea*     80%

*Melanamansia glomerata*     20

NM35 020816am     Reef 2, near Wana's Trample, close to East House, solid pellet.

*Pterocladia capillacea*     100%

NM36 020717am (?) Small pellet from surface near Ho'oulu.

*Pterocladia capillacea*     100%

*Turbinaria ornata*     Trace

NM37 020819pm     In sand just Lahaina of Hale Manu II.

*Pterocladia capillacea*     100%

*Melanamansia glomerata*     Trace

*Ulva* sp.     Trace

NM38 020823pm     Battery Male 2000, Turtle #12.

*Pterocladia capillacea*     90%

*Melanamansia glomerata*     10

NM39 020823pm From sand between Polzbarney's scratch post and *Halimeda* / seahare area.

*Pteroclatiella capillacea* 70%  
*Ahnfeltiopsis concinna* 30

NM40 020824pm Kapalua edge of Hale Manu II in coral rubble.

*Pteroclatiella capillacea* 70%  
*Melanamansia glomerata* 20  
*Halophila hawaiiiana* 10  
*Laurencia* sp. Trace

**List of species in these samples**

**Rhodophyta**

*Acanthophora spicifera*  
*Ahnfeltiopsis concinna*  
*Laurencia* sp.  
*Melanamansia glomerata*  
*Polysiphonia howei*  
*Pteroclatiella capillacea*

**Chlorophyta**

*Cladophora* sp.  
*Cladophoropsis* sp.  
*Codium arabicum*  
*Codium edule*  
*Codium reedae*  
*Enteromorpha* sp.  
*Halimeda discoidea*  
*Microdictyon setchellianum*  
*Ulva* sp.

**Phaeophyta**

*Sargassum* sp.  
*Sphacelaria* sp.  
*Turbinaria ornata*

**Cyanophyta**

*Lyngbya majuscula*

**Sea grass**

*Halophila hawaiiiana*

\*Duplicate vial taken to Canada