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No. 173

Preliminary checklist of the  
Marine Benthic Plants from  
Glover's Reef, British Honduras  
by Roy T. Tsuda and Clinton J.  
Dawes

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PRELIMINARY CHECKLIST OF THE MARINE BENTHIC PLANTS

FROM GLOVER'S REEF, BRITISH HONDURAS<sup>1/</sup>

by

Roy T. Tsuda<sup>2/</sup> and Clinton J. Dawes<sup>3/</sup>

INTRODUCTION

The interest in Glover's Reef (16.5 N, 87.45 W), an atoll 25.6 km long and 10.4 km wide off the coast of British Honduras, has been intensified by its use as the planning workshop site for the Comparative Investigations of Tropical Reef Ecosystems (CITRE) program. One of the primary tasks of the individuals involved with the marine plants was the initiation of a checklist of the marine plants found on this atoll, since no published accounts were present in the literature.

This paper is a summary of three collections made on the atoll by A. L. Dahl (June, 1971), C. J. Dawes (July, 1971), and R. T. Tsuda (November, 1971). Thirty-four stations were made where a total of 104 species of marine plants were collected. The checklist consists of 4 seagrasses, 8 blue-green algae, 39 green algae, 19 brown algae, and 34 red algae.

The authors estimate that their present collections represent approximately 60 to 70 per cent of the number of marine plants which should occur on the atoll. Therefore, further collections are needed, especially of the epiphytic red algae. Persons interested in the descriptive aspects of the algae listed here should consult Taylor (1960).

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<sup>1/</sup> Contribution No. 19, The Marine Laboratory, University of Guam. IMSWE Contribution No. 2.

<sup>2/</sup> The Marine Laboratory, University of Guam, Agana, Guam 96910.

<sup>3/</sup> Department of Biology, University of South Florida, Tampa, Florida 33620.

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Also, for further information on the description of Glover's Reef, see Stoddart (1962).

All specimens collected by A. L. Dahl and R. T. Tsuda are deposited at the National Museum of Natural History, Smithsonian Institution, and those collected by C. J. Dawes at the University of South Florida Herbarium.

#### ACKNOWLEDGEMENTS

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#### STATION DESCRIPTIONS

The station descriptions of the three separate collections are listed in consecutive order in terms of the dates the individual collections were made. Since all sorting, identification and processing of Dr. Dahl's collections were done by the senior author, his own numbering system was used to identify each specimen. All of the collections were made by the respective collectors (A. L. Dahl, D. J. Dawes, or R. T. Tsuda), unless otherwise specified.

##### Collections of A. L. Dahl, June 22-26, 1971

- Station 1 - Windward reef, seaward reef slope, 5-10 m deep, 1.5 km north of Northeast Cay, June 22, 1971. (RT 4317-4331).
- Station 2 - Windward reef, seaward submarine terrace, 33 m deep, just north of West Entrance, June 23, 1971. (RT 4332 - 4342).
- Station 3 - Patch reef in lagoon, .5-1 m deep, near West Entrance, June 23, 1971. (RT 4343 - 4347).
- Station 4 - Patch reef in lagoon, .2 m deep, near West Entrance, June 23, 1971. (RT 4348 - 4353).
- Station 5 - Patch reef in lagoon, on silty slope with sand and coral rubble, 2-5 m deep, June 24, 1971. (RT 4354 - 4362).

- Station 6 - Patch reef in lagoon, on vertical surface of small algal-covered coral head, usually shaded, 1-2 m deep, June 24, 1971. (RT 4363 - 4375).
- Station 7 - Patch reef in lagoon, reef rim, .3 m deep, June 23, 1971. (RT 4376 - 4381).
- Station 8 - Patch reef in lagoon, top of dead coral branch, .2 m deep, June 24, 1971. (RT 4382 - 4383).
- Station 9 - Southwest outer reef, submarine cliff, 20-30 m deep, June 24, 1971. (RT 4384 - 4394).
- Station 10 - Patch reef in lagoon, center of tapered tubular sponge about 30 cm high, 3 m deep, June 24, 1971. (RT 4395).
- Station 11 - Seaward reef, submarine cliff, 25 m deep, just off Southwest Cay, June 25, 1971. (RT 4396 - 4398).
- Station 12 - Seaward reef, on coral rubble and in crevices, reef slope, 2-5 m deep, south of Southwest Cay, June 25, 1971. (RT 4399 - 4408).
- Station 13 - Seaward reef, on carbonate rock ridge in surf, intertidal zone, northeast of Long Cay, June 25, 1971. (RT 4409 - 4421).
- Station 14 - Seaward reef, on reef rock just below upper edge of submarine cliff, 25-33 m deep, outside Northeast Cay, June 26, 1971. (RT 4422 - 4429).

Collections of C. J. Dawes, July 18-26, 1971

- Station 15 - Windward reef, reef flat, 1-3 m deep, north seaward side of Long Cay, July 18, 1971. (CJD 6889 - 6900).
- Station 16 - Windward reef, 2-10 m deep, seaward side off Northeast Cay, July 19, 1971. (CJD 6901 - 6918).
- Station 17 - Windward reef, seaward side, 1.5 km south off Long Cay, July 20, 1971.
- A. Reef flat, 0-1 m deep, (CJD 6919 - 6921, 6924, 6929).
- B. Outer reef slope, 1-40 m deep. (CJD 6922, 6923, 6926 - 6928, 6930).
- Station 18 - Windward reef, 0-2 m deep, south seaward side off Long Cay, a transect line, July 24, 1971. (CJD 6932 - 6961).

- Station 19 - Patch reef in lagoon, 0-3 m deep, off northeast tip of Long Cay, July 23, 1971. (CJD 6962 - 6976).
- Station 20 - Windward reef, seaward side, 26-35 m deep, 800 m north of Northeast Cay, July 24, 1971. (CJD 6977 - 6990).
- Station 21 - Patch reef in lagoon, base of coral patch, 2-10 m deep, about 3 km west of Long Cay, July 25, 1971. (CJD 6991 - 7009).
- Station 22 - Windward reef, seaward side, 16-25 m deep, about 800 m south of Long Cay, July 26, 1971. (CJD 7010 - 7016).

Collections of R. T. Tsuda, November 2-14, 1971

- Station 23 - Lagoon, boat harbor at Long Cay, 3 m deep, November 2, 1971. (RT 4164 - 4166).
- Station 24 - Patch reef in lagoon, 1-1.5 m deep, 200 m northeast of Long Cay, November 2, 1971. (RT 4167 - 4182).
- Station 25 - Patch reef in lagoon, 1-1.5 m deep, 500 m west of Long Cay, November 3, 1971. (RT 4183 - 4199).
- Station 26 - Patch reef in lagoon, 1-1.5 m deep, 1 km west of Long Cay, November 3, 1971. (RT 4200 - 4204).
- Station 27 - Northeast windward reef, November 3, 1971, collected by R. T. Tsuda and M. S. Foster.
- A. Lagoon slope, 2 m deep. (RT 4205 - 4206).
- B. Reef flat, 1 m deep, (RT 4207 - 4209).
- C. Outer reef slope, 2-4 m deep. (RT 4210 - 4216).
- Station 28 - Patch reef in lagoon, 1-1.5 m deep, off Long Cay, November 3, 1971, collected by C. Birkeland. (RT 4217 - 4218).
- Station 29 - Beachdrift, lagoon side, Long Cay, November 3, 1971. (RT 4219).
- Station 30 - Patch reef in lagoon, 3-10 m deep, 2 km off Long Cay, November 4, 1971, collected by F. R. Fosberg. (RT 4220 - 4221).
- Station 31 - Windward reef, seaward side off Long Cay, November 5, 1971, collected by R. T. Tsuda and M. S. Foster.
- A. Reef flat, 1 m deep. (RT 4223 - 4224).

- B. Seaward slope, 3-5 m deep. (RT 4225 - 4226).
- C. Intertidal wave-washed bench at shoreline.  
(RT 4227 - 4239).
- Station 32 - Southeast leeward reef, November 6, 1971, collected by R. T. Tsuda and M. S. Foster.
- A. Lagoon slope, 2 m deep. (RT 4240 - 4241).
- B. Reef flat, 1 m deep. (RT 4242 - 4243).
- C. Seaward reef terrace, 15-20 m deep. (RT 4244 - 4250).
- D. Seaward reef slope, 25-30 m deep. (RT 4251 - 4254).
- Station 33 - Patch reef, lagoon slope, southeast sector of lagoon, November 9, 1971, collected by R. T. Tsuda and M. S. Foster.
- A. Coral substratum, 1 m deep. (RT 4263).
- B. Sand substratum, 3-15 m deep. (RT 4255 - 4262, 4264 - 4268).
- Station 34 - Southwest outer reef slope, 20 m deep, November 14, 1971, collected by M. S. Foster. (RT 4269).

#### SPECIES LISTING

##### DIVISION SPERMATOPHYTA (seagrasses)

*Halodule wrightii* Ascherson  
Sta. 33B - RT 4256.

*Halophila engelmanni* Ascherson  
Sta. 33B - RT 4258.

*Syringodium filiforme* Kutz.  
Sta. 23 - RT 4165, Sta. 33B - RT 4257.

*Thalassia testudinum* König.  
Sta. 23 - RT 4164, Sta. 33B - RT 4255.

##### DIVISION CYANOPHYTA (blue-green algae)

##### Order Oscillatoriales

*Calothrix confervicola* (Roth) Ag.

Sta. 25 - RT 4193 (epiphytic on *Dictyosphaeria cavernosa*).

*Calothrix crustacea* Thuret

Sta. 15 - CJD 6897. This alga forms black crusts on dead coral and limestone in the upper intertidal zone.

*Calothrix parietina* (Nageli) Thuret

Sta. 22 - CJD 6898.

*Calothrix pilosa* Harvey

Sta. 1 - RT 4345, Sta. 13 - RT 4411, Sta. 15 - CJD 6896, Sta. 19 - CJD 6954, Sta. 24 - RT 4174, Sta. 26 - RT 4204, Sta. 31C - RT 4239.

*Microcoleus lyngbyaceus* (Kütz.) Crouan

Sta. 10 - RT 4395.

*Rivularia nitida* Bornet & Flahault

Sta. 18 - CJD 6960.

*Schizothrix calcicola* (Ag.) Gomont

Sta. 12 - RT 4405, Sta. 15 - CJD 6895, Sta. 18 - CJD 6939, Sta. 31C - RT 4237 (intermixed with *Schizothrix mexicana*).

*Schizothrix mexicana* Gomont

Sta. 1 - RT 4331, Sta. 25 - RT 4198 (numerous diatoms and sand grains interspersed among filaments), Sta. 31C - RT 4237 (intermixed with *Schizothrix calcicola*).

#### DIVISION CHLOROPHYTA (green algae)

##### Order Cladophorales

*Chaetomorpha gracilis* Kütz.

Sta. 29 - RT 4219 (beachdrift).

*Cladophora frascatii* Collins & Hervey

Sta. 31C - RT 4235b.

*Cladophora fuliginosa* Kütz.

Sta. 18 - CJD 6958.

##### Order Siphonales

*Avrainvillea asarifolia* Boerg.

Sta. 26 - RT 4200.

*Avrainvillea levis* Howe

Sta. 16 - CJD 6909, Sta. 17B - CJD 6930, Sta. 19 - CJD 6964, Sta. 21 - CJD 6997.

*Avrainvillea rawsoni* (Dickie) Howe  
Sta. 31C - RT 4236.

*Bryopsis pennata* Lamx.  
Sta. 31C - RT 4238 (epiphytic on *Dictyota bartayresii*).

*Caulerpa cupressoides* (West) C. Ag.  
Sta. 5 - RT 4362 (var. *serrata*), Sta. 13 - RT 4419 (var. *lycopodium*),  
Sta. 16 - CJD 6903, Sta. 21 - CJD 6991, Sta. 31C - RT 4234 (var.  
*lycopodium*), Sta. 33B - RT 4260 (var. *serrata*).

*Caulerpa mexicana* (Sonder) J. Ag.  
Sta. 21 - CJD 7005, Sta. 33B - Rt 4264.

*Caulerpa microphysa* (Weber van Bosse) J. Feldmann  
Sta. 19 - CJD 6973, Sta. 21 - CJD 7004.

*Caulerpa racemosa* (Forssk.) J. Ag.  
Sta. 13 - Rt 4414, Sta. 18 - CJD 6940, Sta. 21 - CJD 7002 and  
CJD 7003 (var. *peltata*), Sta. 22 - CJD 7016, Sta. 27C - RT 4215.

*Caulerpa sertularioides* (Gmelin) Howe  
Sta. 18 - CJD 6944.

*Caulerpa urvilliana* Montagne  
Sta. 25 - RT 4194.

*Codium intertextum* Collins & Hervey  
Sta. 6 - RT 4366.

*Codium repens* Crouan  
Sta. 19 - CJD 6972.

*Codium taylori* Silva  
Sta. 20 - CJD 6981.

*Halimeda copiosa* Goreau & Graham  
Sta. 14 - RT 4424, Sta. 26 - RT 4203, Sta. 27C - RT 4213.

*Halimeda discoidea* Decaisne  
Sta. 1 - RT 4327, Sta. 2 - RT 4338, Sta. 5 - RT 4356, Sta. 14 -  
RT 4429, Sta. 16 - CJD 6911, Sta. 17A - CJD 6919, Sta. 19 - CJD  
6963, Sta. 20 - CJD 6980, Sta. 21 - CJD 6999, Sta. 22 - CJD 7011,  
Sta. 32C - RT 4249.

*Halimeda goreauii* Taylor  
Sta. 1 - RT 4320.

*Halimeda incrassata* (Ellis) Lamx.  
Sta. 5 - RT 4355, Sta. 16 - CJD 6911, Sta. 21 - CJD 6998, Sta.  
33B - RT 4265.



*Halimeda monile* (Ellis & Solander) Lamx.

Sta. 21 - CJD 6992, Sta. 25 - RT 4187, Sta. 28, 4217, Sta. 33B - RT 4259.

*Halimeda opuntia* (L.) Lamx.

Sta. 12 - RT 4399, Sta. 13 - RT 4418, Sta. 16 - CJD 6905, Sta. 17A - CJD 6920, Sta. 17B - CJD 6931, Sta. 18 - CJD 6941, Sta. 19 - CJD 6966, Sta. 21, CJD 7000, Sta. 24 - RT 4169.

*Halimeda simulans* Howe

Sta. 2 - RT 4333, Sta. 24 - RT 4178, Sta. 25 - RT 4186, Sta. 27B - RT 4209, Sta. 32C - RT 4250.

*Halimeda tuna* (Ellis & Solander) Lamx.

Sta. 6 - RT 4363, Sta. 7 - RT 4379, Sta. 9 - RT 4384, Sta. 24 - RT 4170, Sta. 32C - RT 4250b, Sta. 33B - RT 4266.

*Penicillus capitatus* Lamarch

Sta. 2 - RT 4336, Sta. 16 - CJD 6908, Sta. 18 - CJD 6943, Sta. 21 - CJD 6996, Sta. 25 - RT 4188a, Sta. 33B - RT 4261b.

*Penicillus dumentosus* (Lamx.) Blainville.

Sta. 5 - RT 4360, Sta. 32D - RT 4251, Sta. 33B - RT 4261.

*Penicillus lamourouxii* Decaisne

Sta. 25 - RT 4188c, Sta. 33B-RT 4261d.

*Penicillus pyriformis* A. & E. S. Gepp.

Sta. 5 - RT 4361, Sta. 22 - CJD 7015, Sta. 25 - RT 4188c, Sta. 33B - RT 4261c.

*Rhizocephalus phoenix* (Ellis & Solander) Kütz.

Sta. 1 - RT 4324, Sta. 2 - RT 4335, Sta. 14 - RT 4428, Sta. 16 - CJD 6904, Sta. 17A - CJD 6924, Sta. 20 - CJD 6982, Sta. 21 - CJD 6995, Sta. 25 - RT 4189, Sta. 32C - RT 4247, Sta. 33B - RT 4268.

*Udotea conglutinata* (Ellis & Solander) Lamx.

Sta. 17B - CJD 6926, Sta. 20 - CJD 6979, Sta. 21 - CJD 7006.

*Udotea cyathiformis* Decaisne

Sta. 1 - RT 4321, Sta. 5 - RT 4354b, Sta. 21 - CJD 6994, Sta. 22 - CJD 7010, Sta. 30 - RT 4220, Sta. 32C - RT 4246, Sta. 32D - RT 4254, Sta. 33B - RT 4268.

*Udotea flabellum* (Ellis & Solander) Lamx.

Sta. 5 - RT 4354a, Sta. 20 - CJD 6988, Sta. 21 - CJD 6993, Sta. 27B - RT 4208, Sta. 32C - RT 4244, Sta. 33B - RT 4267.

*Udotea occidentalis* A. & E. S. Gepp.

Sta. 25 - RT 4184.

## Order Siphonocladales

*Anadyomene stellata* (Wulfen) C. Ag.

Sta. 6 - 4370, Sta. 9 - RT 4392, Sta. 13 - RT 4412, Sta. 14 - RT 4426, Sta. 25 - RT 4199, Sta. 27C - RT 4216.

*Cladophoropsis membranacea* (C. Ag.) Boerg.

Sta. 13 - RT 4421, Sta. 18 - CJD 6942, Sta. 31C - RT 4235a.

*Dictyosphaeria cavernosa* (Forssk.) Boerg.

Sta. 2 - RT 4332, Sta. 5 - RT 4359, Sta. 6 - RT 4367, Sta. 17B - CJD 6927, Sta. 18 - CJD 6951, Sta. 19 - CJD 6976, Sta. 21 - CJD 7007, Sta. 24 - RT 4171, Sta. 25 - RT 4193, Sta. 32B - RT 4243b, Sta. 33A - RT 4263.

*Struvea anastomosans* (Harvey) Piccone

Sta. 14 - RT 4425.

*Valonia ocellata* Howe

Sta. 4 - RT 4351, Sta. 17B - CJD 6928, Sta. 19 - CJD 6974.

*Valonia ventricosa* J. Ag.

Sta. 1 - RT 4317, Sta. 12 - RT 4408, Sta. 16 - CJD 6901, Sta. 19 - CJD 6975, Sta. 24 - RT 4168, Sta. 30 - RT 4221.

## DIVISION PHAEOPHYTA (brown algae)

## Order Sphacelariales

*Sphacelaria* sp.

Sta. 24 - RT 4177 (intermixed with *Calothrix pilosa*).

The few multiseriate filaments present lacked propagulae, thus making a specific identification impossible.

## Order Dictyotales

*Dictyopteris delicatula* Lamx.

Sta. 27C - RT 4210, Sta. 31B - RT 4226.

*Dictyopteris jamaicensis* Taylor

Sta. 18 - CJD 6949.

*Dictyota bartayresii* Lamx.

Sta. 1 - RT 4322, Sta. 7 - RT 4381, Sta. 9 - RT 4390a, Sta. 12 - RT 4407, Sta. 13 - RT 4416, Sta. 24 - RT 4172, Sta. 25 - RT 4191, Sta. 26 - RT 4202.

*Dictyota cervicornis* Kütz.

Sta. 32A - RT 4241.

*Dictyota dentata* Lamx.

Sta. 18 - CJD 6953.

*Dictyota dichotoma* (Hudson) Lamx.

Sta. 4, RT 4349, Sta. 16 - CJD 6917, Sta. 18, CJD 6948, Sta. 20 - CJD 6985, Sta. 21 - CJD 7009.

*Dictyota divaricata* Kütz.

Sta. 1 - RT 4319, Sta. 6 - RT 4369, Sta. 23 - RT 4166, Sta. 31A - RT 4223.

*Lobophora variegata* (Lamx) Womersley

Sta. 1 - RT 4318, Sta. 2 - RT 4337, Sta. 3 - RT 4343, Sta. 5 - RT 4357, Sta. 6 - RT 4371, Sta. 7 - RT 4378, Sta. 9 - 4387, Sta. 12 - RT 4406, Sta. 14 - RT 4423, Sta. 15 - CJD 6892, Sta. 16 - CJD 6913, Sta. 17B - CJD 6923, Sta. 18 - CJD 6947, Sta. 20 - CJD 6983, Sta. 25 - RT 4190, Sta. 32D - RT 4253.

*Padina sanctae-crucis* Boerg.

Sta. 3 - RT 4346, Sta. 7 - RT 4377, Sta. 13 - 4415, Sta. 15 - CJD 6893, Sta. 16 - CJD 6914, Sta. 24 - RT 4179, Sta. 25 - RT 4185, Sta. 31C - RT 4231 (tetrasporic).

*Padina vickersiae* Hoyt

Sta. 18 - CJD 6937.

*Styopodium zonale* (Lamx.) Papenfuss

Sta. 9 - RT 4385, Sta. 14 - RT 4422, Sta. 15 - CJD 6891, Sta. 16 - CJD 6903, Sta. 17A - CJD 6921, Sta. 18 - CJD 6936, Sta. 20 - CJD 6986, Sta. 21 - CJD 7012, Sta. 24 - RT 4167, Sta. 31A - RT 4224.

#### Order Scytosiphonales

*Colpomenia sinuosa* (Roth) Derbès & Solier

Sta. 18 - CJD 6952.

*Hydroclathrus clathratus* (Bory) Howe

Sta. 18 - CJD 6938, Sta. 31C - RT 4232.

#### Order Fucales

*Sargassum filipendula* C. Ag.

Sta. 24 - RT 4181 (receptacles present).

This species was never found attached but always floating.

*Sargassum polyceratum* Montagne

Sta. 1 - RT 4325, Sta. 2 - RT 4340, Sta. 4 - RT 4348, Sta. 6 - RT 4364, Sta. 9 - RT 4386, Sta. 13 - RT 4410, Sta. 14, RT 4427, Sta. 15 - CJD 6890, Sta. 17A - CJD 6929, Sta. 18 - CJD 6932, Sta. 24 - RT 4180, Sta. 27B - RT 4207, Sta. 32D - RT 4252.

*Sargassum rigidulum* Kütz.  
Sta. 18 - CJD 6933.

*Turbinaria tricostata* Barton  
Sta. 2 - RT 4334, Sta. 6 - RT 4365, Sta. 18 - CJD 6934.

*Turbinaria turbinata* (L.) Kuntze  
Sta. 4 - RT 4353, Sta. 13 - RT 4409, Sta. 15 - CJD 6889, Sta. 16 -  
CJD 6918, Sta. 19 - CJD 6962, Sta. 25 - RT 4183.

#### DIVISION RHODOPHYTA (red algae)

##### Order Nematiales

*Galaxaura comans* Kjellman  
Sta. 7 - RT 4376, Sta. 16 - CJD 6915, Sta. 26 - RT 4201.

*Galaxaura rugosa* (Ellis & Solander) Lamx.  
Sta. 9 - RT 4388, Sta. 12 - 4404, Sta. 16 - CJD 6915, Sta. 19 -  
CJD 6965, Sta. 25 - RT 4192, Sta. 31B - RT 4225.

##### Order Gelidiales

*Gelidiella acerosa* (Forssk.) Feldmann & Hamel  
Sta. 15 - CJD 6894, Sta. 18 - CJD 6945, Sta. 31C - RT 4228.

*Wurdemannia miniata* (Draparnaud) Feldmann & Hamel  
Sta. 1 - RT 4323, Sta. 2 - RT 4342, Sta. 9 - RT 4393, Sta. 31C -  
RT 4230b.

##### Order Cryptonemiales

*Amphiroa fragilissima* (L.) Lamx.  
Sta. 1 - RT 4328, Sta. 12 - RT 4403, Sta. 18 - CJD 6957, Sta. 25 -  
RT 4195, Sta. 28 - RT 4218.

*Amphiroa hancockii* Taylor  
Sta. 1 - RT 4326, Sta. 19 - CJD 6970, Sta. 20 - CJD 6977.

*Amphiroa rigida* Lamx.  
Sta. 27C - RT 4214.

*Amphiroa tribulus* (Ellis & Solander) Lamx.  
Sta. 12 - RT 4402, Sta. 20 - CJD 6978, Sta. 27C - RT 4212.

*Fosliella farinosa* (Lamx.) Howe  
Sta. 23 - RT 4164b (epiphytic on *Thalassia testudinum*).

*Halymenia agardhii* De Toni  
Sta. 12 - RT 4400.

*Jania capillacea* Harvey

Sta. 4 - RT 4352, Sta. 6 - RT 4375, Sta. 18 - CJD 6935, Sta. 24 - RT 4177b (intermixed with *Calothrix pilosa*), Sta. 26 - RT 4204a (intermixed with *Calothrix pilosa*).

*Jania rubens* (L.) Lamx.

Sta. 8 - RT 4383.

*Kallymenia limminghii* Montagne

Sta. 9 - RT 4389, Sta. 11 - RT 4398, Sta. 34 - RT 4269 (on gorgonian branch).

*Metagoniolithon* sp.

Sta. 6 - RT 4368, Sta. 7 - RT 4380.

These specimens represent the first record of this genus in the Caribbean region. Further studies are needed before a specific identification can be made.

*Peyssonnelia conchicola* Piccone & Grunow

Sta. 27C - RT 4211.

## Order Gigartinales

*Eucheuma isiforme* (C. Ag.) J. Ag.

RT 4222 - This dehydrated specimen was found in the senior author's soup bowl. He was later told that the alga had been collected on a patch reef in the lagoon.

*Gelidiopsis intricata* (Ag.) Vickers

Sta. 24 - RT 4182, Sta. 25 - RT 4197, Sta. 32B - RT 4242.

*Hypnea spinella* (C. Ag.) Kutz.

Sta. 18 - CJD 6959.

## Order Rhodymeniales

*Botryocladia occidentalis* (Boerg.) Kylin

Sta. 11 - RT 4396.

*Botryocladia pyriformis* (Boerg.) Kylin

Sta. 9 - RT 4394 (one pyriform thallus), Sta. 26 - RT 4204b (one spheroid thallus).

*Champia parvula* (C. Ag.) Harvey

Sta. 9 - RT 4390b.

## Order Ceramiales

*Acanthophora spicifera* (Vahl) Boerg.

Sta. 18 - CJD 6950, Sta. 24 - RT 4175, Sta. 27A - RT 4205.

- Centroceras clavulatum* (C. Ag.) Montagne  
Sta. 3 - RT 4347, Sta. 27A - RT 4206, Sta. 31C - RT 4233.
- Ceramiella huysmansii* (Weber van Bosse) Boerg.  
Sta. 32B - RT 4243.
- Chondria floridana* (Collins) Howe  
Sta. 12 - RT 4401.
- Chondria leptacremom* (Melville) De Toni  
Sta. 13 - RT 4413b (Juvenile), Sta. 24 - RT 4176, Sta. 25 - RT  
4196, Sta. 31C - RT 4227.
- Digenia simplex* (Wulfen) C. Ag.  
Sta. 16 - CJD 6916, Sta. 18 - CJD 6955, Sta. 31C - RT 4230.
- Laurencia intricata* Lamx.  
Sta. 16 - CJD 6910, Sta. 18 - CJD 6946, Sta. 20 - CJD 6987.
- Laurencia papillosa* (Forssk.) Greville  
Sta. 4 - RT 4350, Sta. 6 - RT 4372, Sta. 8 - RT 4382, Sta. 13 -  
RT 4413a.
- Laurencia poitei* (Lamx.) Howe  
Sta. 21 - CJD 7008.
- Martensia pavonia* (J. Ag.) J. Ag.  
Sta. 1 - RT 4329
- Polysiphonia scopulorum* Harvey  
Sta. 32C - RT 4245b (epiphytic on *Udotea flabellum*).
- Spyridia filamentosa* (Wulfen) Herv.  
Sta. 6 - RT 4373.
- Wrangelia argus* Montagne  
Sta. 13 - RT 4420.

## LITERATURE CITED

- Stoddart, D. R. 1962. Three Caribbean atolls: Turneffe Islands, Lighthouse Reef, and Glover's Reef, British Honduras. Atoll Res. Bull. 87: 151 pp.
- Taylor, W. R. 1960. Marine algae of the eastern tropical and subtropical coasts of the Americas. Univ. Michigan Press, Ann Arbor, ix + 870 pp., 80 pls.