

The marine algae collected from sea turtles and from the reefs on Laysan Island, by Alan Kam in March and April 1982. Identified by Dennis J. Russell accordingly as this list, May 1983.

LA 01

Plocamium brasiliense (male, female and tetrasporophytes)  
Laurencia sp.  
Dictyota friabilis  
Bryopsis pennata  
Jania micrarthrodia

LA 02

Laurencia cartilaginea 90%  
Dictyota friabilis 10%  
Zonaria sp.  
Amphiroa fragilissima

LA 03

Bryopsis plumosa 99%  
Plocamium sandvicensis 1%  
Dictyota friabilis Trace  
Laurencia nidifica Trace  
Corallina sp. Trace

LA 04

Asparagopsis taxiformis

LA 05

Turbinaria ornata 40%  
Laurencia cartilaginea 40%  
Bryopsis hypnoides 15%  
Asparagopsis taxiformis 5%  
Amphiroa fragilissima Trace  
Jania capillacea Trace

LA 21

Caulerpa racemosa var. peltata 90%  
Halimeda discoidea 10%  
Corallina Trace

LA 22

Asparagopsis taxiformis 90%  
Chondrococcus hornemanni 10%  
Halimeda discoidea Trace

LA 23

Microdictyon montagnei

LA 24

Marensia fragilis 99%  
Chondrococcus hornemanni 1%

LA 25

Caulerpa racemosa var. turbinata 50%  
Martensia fragilis 50%  
Chondrococcus hornemanni Trace  
Halimeda discoidea Trace

LA 26

Caulerpa webbiana

LA 27

Gelidium crinale 40%  
Dictyota friabilis 30%  
Trailliella sp. 20%  
Plocamium sandvicense 10%  
Halimeda micronesica Trace  
Ceramium sp. Trace  
Corallina sp. Trace

LA 31

Bryopsis pennata var. secunda 99%  
Valonia aegagropila Trace  
Microdictyon montagnei Trace

LA 32

Chondrococcus hornemanni 50%  
Fosliella farinosa Trace  
Caulerpa webbiana 50%  
Dictyota friabilis Trace  
Amphiroa fragilissima Trace

LA 33

Hydroclathrus clathratus 99%  
Halimeda sp. Trace

LA 34

Corallina sandvicensis

LA 35

Microdictyon Montagnei 90%  
Monostroma oxyspermum 10%

LA 36

Gelidium crinale  
Jania capillacea Trace

LA 37

Microdictyon montagnei

LA 38

Asparagopsis taxiformis

LA 39

Caulerba webbiana 99%

Chondrococcus hornemanni 1%

Halimeda opuntia

LA 40

Asparagopsis taxiformis 80%

Halimeda discoidea 10%

Dictyota fragilis 5%

Chondrococcus hornemanni 5%

Hypnea spinella Trace

Ceramium sp. Trace

Amphiroa fragilissima Trace

Caulerpa webbiana Trace

LA 60

Asparagopsis taxiformis 20%

Halimeda discoidea 5%

Codium edule 5%

Dictyota stolonifera Trace

Caulerpa racemosa var. peltata 5%

Ulva fasciata 40%

Plocamium sandvicensis Trace

Corallina sp. Trace

Amphiroa anastomosans 10%

Martensia fragilis 10%

Laurencia decumbens 5%

LA 70

Sargassum echinocarpum

Zonaria sp.

Dictyosphaeria versluysii

Halimeda discoidea

Champia parvula

Microdictyon montagnei

Dictyota acuteloba

Laurencia nidifica

Polysiphonia saccorhiza (on Laurencia)

Ceramium sp.

Laurencia galtsoffi

Chondria sp.

LA 81

Polysiphonia tsudana

LA 82

Polysiphonia tsudana

Barnacles Trace

Diatoms Trace

Cladophora sp. Trace

LA 83

Caulerpa lentillifera 90%

Caulerpa racemosa var. peltata 10%

LA 84

Cladophoropsis membranacea

Microdictyon sp. Trace

Herposiphonia parca

LA 85

Caulerpa lentillifera

LA 86

Caulerpa lentillifera

Herposiphonia parca (abundant as an epiphyte)

Microdictyon montagnei

Herposiphonia variabilis

Laurencia sp.

The following is a listing of the different species contained in the above samples:

CHLOROPHYTA

Bryopsis hypnoides Lamx.

Bryopsis pennata Lamx.

Bryopsis pennata var. secunda (Harvey) Collins and Harvey

Bryopsis plumosa (Hudson) C. Ag.

Caulerpa lentillifera J. Ag.

Caulerpa racemosa var. peltata (Lam.) Eubank

Caulerpa racemosa var. turbinata (J. Ag.) Eubank

Caulerpa webbiana Mont.

Cladophora sp.

Cladophoropsis membranacea (C. Ag.) Boerg.

Codium edule Silva

Dictyophaeria versluysii Weber van Bosse

Halimeda discoidea Decaisne

Halimeda micronesica Yamada

Halimeda opuntia (L.) Lamx.

Halimeda sp.

Microdictyon montagnei Harvey

Microdictyon sp.

Monostroma oxyspermum (Kützing) Doty

Ulva fasciata Delile

Valonia aegagropila C. Ag.



PHAEOPHYTA

Dictyota acuteloba J. Ag.  
Dictyota friabilis Setchell  
Dictyota stolonifera  
Hydroclathrus clathratus (C. Ag.) Howe  
Sargassum echinocarpum J. Ag.  
Turbinaria ornata (Turner) J. Ag.  
Zonaria sp.

RHODOPHYTA

Amphiroa anastomosans Weber von Bosse  
Amphiroa fragilissima (L.) Lamx.  
Asparagopsis taxiformis (Delile) Coll. and Harvey  
Ceramium sp.  
Champia parvula (C. Ag.) Harvey  
Chondria sp.  
Chondrococcus hornemanni (Mert.) Schmitz  
Corallina sandvicensis Lemm.  
Corallina sp.  
Fosliella farinosa (Lamx.) Howe  
Gelidium crinale (Turn.) Lamx.  
Herposiphonia parca Setchell  
Herposiphonia variabilis Hollenberg  
Hypnea spinella (J. Ag.) Kützing  
Jania capillacea Harvey  
Jania micrarthrodia Lamx.  
Laurencia cartilaginea Yamada  
Laurencia decumbens Kützing  
Laurencia galtsoffi Howe  
Laurencia nidifica J. Ag.  
Laurencia sp.  
Martensia fragilis Harvey  
Plocamium brasiliense (Greville) Howe and Taylor  
Plocamium sandvicense J. Ag.  
Polysiphonia saccorhiza (Collins and Hervey) Hollenberg  
Polysiphonia tsudana Hollenberg  
Trailliella sp.



18 May 1983

George Balazs  
National Marine Fisheries Service  
Honolulu Laboratory  
P.O. Box 3830  
Honolulu, Hawaii 96812

Dear George,

I have finally finished the algae identifications for you. Enclosed is the master list of sample contents and the summary of species according to Division. All went well, a few species stumped me for awhile, but eventually I found them in the literature (Plocamium brasiliense may be a new record for Hawaii). A better algologist than myself may differ in their opinion as to the species according to published observations, but fortunately you have all of the life stages in your sample! This will help anyone following to better pin-point the species. It is a very narrow thallus, highly branched and very interesting.

I must admit, to my embarrassment, that somehow I must have mixed No. 26 in with another sample. I have the algae identified, but cannot find the sample. I hope this does not effect you data. Please excuse the error.

The bill for this work has been sent to Mary L. Godfrey, the samples have been placed into jars (most of them), and into their original bags, and are being sent to you by separate mail.

I certainly hope everything is working out for the best for you and your family. We receive no news about Hawaii state at all, but I assume all is normal. Please feel free to send more samples as you gather them and set a dead-line if you need to have the results quicker than this last batch.

Aloha,

Dennis J. Russell