

A tribute to Isabella Aiona Abbott on the occasion of her 85th birthday. Happy Birthday Izzie!

John M. HUISMAN^a and James N. NORRIS^b

^aMurdoch University, Western Australia, Australia

^bNational Museum of Natural History, Smithsonian Institution,
Washington, D.C., U.S.A.



Fig. 1. Izzie in Virginia for the wedding of Jim's son, Jesse & Alix Norris on 29 May 2004. Photo by: Chip Clark (National Museum of Natural History).

This edition of *Cryptogamie, Algologie* is dedicated to Isabella Aiona Abbott, in celebration of her 85th birthday. Born in Hana, Maui, of Chinese-Hawaiian parents, "Izzie" (to her many friends and colleagues) went to the University of Hawaii where she developed an interest in marine algae. After graduation in 1941, she began her professional career at the University of Michigan with William Randolph Taylor, completing her B.Sc. in 1942. From there she went to the University of California, Berkeley, and completed her Ph.D. with George F. Papenfuss in 1950. In the late 1950s she received a Lectureship and Research Associate position at Stanford University, where she went on to become a full Professor of Biological Sciences in 1972. Living in Pacific Grove on the beautiful Monterey Peninsula, she and her husband Don (also a Stanford Professor) conducted their marine biological research, she on algae and he on invertebrates, and taught classes at Hopkins Marine Station of Stanford. Here she focused on the taxonomy and floristics of the marine algae of the

Monterey Peninsula. Resulting studies led to the publication of a *Supplement* to Gilbert M. Smith's "Marine Algae of the Monterey Peninsula" (Hollenberg & Abbott, 1966; Smith, Hollenberg & Abbott, 1969), and from there to what is possibly Izzie's most well-known work, the landmark "Marine Algae of California" (Abbott & Hollenberg, 1976).

It was during the Monterey years, in 1970, that JNN as a beginning student first met Izzie, and she invited him to study algae in her lab. As always, she was very generous with her time and knowledge and was most encouraging. She went on to serve as research advisor and graduate committee member for both his M.A. and Ph.D. research, and has remained a close friend. Although living in California, she also maintained an interest in tropical marine algae, particularly the Liagoraceae. Izzie had a strong influence on many students of marine phycology, working with many as professor and mentor, including serving as research advisor and graduate committee member to several who are now well established phycologists.

In 1982, Izzie and Don (both as Professor Emerita at Stanford) returned to their beloved Hawaii. Izzie, as the "G.P. Wilder Professor of Botany" at the

University of Hawaii at Manoa, embarked on yet other ambitious projects, this time taxonomic and floristic accounts of the marine algae of the Hawaiian Islands, as well as studies on the Hawaiian uses and ethnobotany of seaweeds and plants. The Hawaiian marine flora was published in two parts, the first (Abbott, 1999) dealing with the red algae, the second (Abbott & Huisman, 2004) with the green and brown algae. During this period Izzie was also the instigator of a series of nine workshops dealing with the taxonomy of economic seaweeds. The first of these was held in Guam in 1984, the most recent (the ninth) in Hilo, Hawaii Island, in 2002. The proceedings of all of these workshops have been published as a series of books. In Honolulu, Oahu Island, she also began a strong association with the Bernice Pauahi Museum in 1987, as a Research Botanist and also serving on the museum's Board of Directors.

With a professional career spanning over 60 years and over 189 publications including nine books, and numerous awards, one might reasonably expect Izzie to sit back and rest on her laurels. To this day, however, she remains very active, a dedicated and hard-working phycologist, spending most days in the office and laboratory. Rather than slowing down with age, Izzie has increased her research output to the extent that the last few years have been some of the most productive of her career. One group of algae that have always been close to Izzie's heart is the Liagoraceae, and it was a joint interest in these red algae that brought the first author of this tribute to Hawai'i. Izzie has referred to *Liagora* and company as members of the "goeeyales" to her friends and students, and also as her "pets" (Abbott & McDermid, 2002). Beginning in 2002 it was a pleasure for JMH to be able to work with her on these algae, which are obviously one of her ongoing passions. The first paper of Izzie's career was on *Liagora* in Hawaii (Abbott, 1945) and after nearly 60 years of research we were still able to pull new species from the Hawaiian flora. For example, it was with great delight that we were able to name a new species of *Liagora* after Izzie's late husband, her beloved Donald. This honor was not without justification, as Donald was the first to collect specimens of this species from O'ahu, in 1945!

In a career filled with highlights, a few deserve special mention. Izzie was the first Hawaiian to be awarded a Ph. D. She has received numerous awards in recognition of her contributions, not only to phycology but to her second great interest, ethnobotany. Some of these include: the *Distinguished Ethnobotanist* award given by the Society of Economic Botany (2001), the *ARCS Scientist of the Year* (2000), the prestigious *G.M. Smith Medal* awarded by the US National Academy of Sciences (1997), the Botanical Society of America's *Darbaker Prize* (1969), *Merit Award of The Phycological Society of America* (1995), and the *Ford Foundation's Award for Research in China* (1987). Most recently, the Phycological Society of America bestowed its highest honor on Izzie for her lifetime achievements in phycology – the *PSA Award of Excellence* (2003).

There is no doubt that Izzie holds a special place in phycology, but for many of us she also holds a special place in our hearts. Anyone who has met Izzie cannot help but be impressed by her warmth, hospitality, and her nurturing spirit. Izzie is also fondly remembered for her unique way when dealing with people. Mike Foster recalls: "Izzie always leaves me thinking long after I see her – a remark at the Seaweed Symposium in Japan: "I won't talk to you much because there are so many people here I don't see very often." A comment while sorting through a stack of my unknowns: "This feels like a *Grateloupia*" (aha, the real keys to the red algae). She is refreshingly frank in this day of the professional hustle, and her knowledge and insights enrich but also humble – mentoring at its best!" Isabel Meneses also has fond memories: "Thanks for the opportunity to include

Chère Dr Abbott et chère Izzie,

Fée des Algues, inlassable détective de la Systématique, vous avez continuellement accumulé et perfectionné sans relâche une énorme masse de connaissances toujours grandissante. Que de résultats obtenus dans ce monde toujours plein de questions!

Vous lire est toujours un bonheur et nous vous en sommes profondément reconnaissants.

Jacqueline Cabioch

Roscoff, le 20 mai 2004

From the Canaries, which are also volcanic islands and a paradise for the study of the marine algae, I send to the Hawaiian Islands my congratulations to Prof. Abbott to honour her 85th birthday. Izzie Abbott is highly esteemed by her colleagues around the world. Best wishes


Julio Afonso-Carillo

Aloha Izzie

It is a great pleasure to congratulate you on your 85th birthday, and to wish you well for the years to come. The quantity and sheer quality of your publications; the many results of your teaching commitments; and your passion for your family and Hawaiian homeland are aspects of your life that I have been privileged to share in recent years.

Happy Birthday Izzie, and very best wishes
Yvonne Chamberlain

With very best wishes from Bruno de Reviere



DEAR IZZIE -

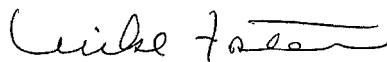
APRIL 25, 2004

IT SEEMS LIKE YESTERDAY WHEN YOU INTRODUCED ME TO THE WONDERS OF SEAWEEDES AND THEIR LITTLE RELATIVES THE "GATGORE" - SPRING 1964! THE CONTINUED CYSTOCARPING OF OUR RELATIONSHIP, AS PROFESSIONALS AND FRIENDS, HAS BEEN A VERY IMPORTANT PART OF MY LIFE.

SO HERE WE ARE NOW, PROFESSORS OF HEATHER'S COMMITTEE! THE PRIDE AND WARMTH YOU MUST FEEL WHEN LOOKING BACK ON YOUR LIFE. I AM HONORED TO HAVE BEEN A SMALL PART OF IT, AND LOOK FORWARD TO MANY MORE YEARS OF OUR "TALKING STUFF."

HAPPY BIRTH!

YOUR STUDENT, COLLEAGUE AND FRIEND



To Izzie, with every best wish:
I shall never forget your kindnesses to me as a student in London.



11 May, 2004

Congratulations Izzi on your 59th year as a publishing scholar in phycology. What a record: 5 major floods for two biogeographic provinces and papers on every important marine algal group. Your life and work have been an inspiration to us all.
With appreciation,
Max H. Hommersand

To my favorite phycological matriarch..
May the tides always be low for you,
may the weeds always wash up on your beach,
may these algae always be fertile,
and may their names always spring to mind.
Warmest wishes,
Alan MILLAR

Dear Izzi -

Do you remember the day when an aspiring young phycologist in navy uniform met a kindred soul who would become one of the world's foremost practitioners of the profession? If not, I forgive you, as this momentous occasion took place 60 years ago! Enough water has flowed under the bridge to fill Kurekua Barge!
Love from Paul (Silva)

Fig. 4. Salutations: Max Hommersand, Alan Millar, Paul Silva.

To Izzie on her 85th

Congratulations on a lifetime of achievement. We first failed to meet in Pacific Grove in 1952 when you were otherwise occupied producing a daughter, but we have enjoyed our contacts and visits ever since. Your outstanding efforts in stimulating research on central Pacific algae, as well as the west coast of the U.S.A., have so enriched physiological knowledge. We are all most grateful and look forward to your years to come.

Bryan (and Alleyne) Womersley

Dear Dr. Abbott,

Kindly accept my heartfelt thanks for the friendship shown to me for 40 years. I hope this friendly relationship continue much longer.

Tadao Yoshida

Izzie:

Happy birthday greetings from Guam. Salutations to a great mentor, and to a dedicated and most productive physiologist and ethnobotanist.

Roy T. Tsuda

IZZIE,
E HO'IKI MAI ANA KA
LĀ'AU A KE KIA MANU.
FOLKS AT UH WILL NEVER BE
ABLE TO
E HO'OPiHA I KA MĀKĀLUA
I HAKAHAKA.
Aloha,
Gerry Kraft
(HE WAHI LIMU PAE)

Dear Izzie, 17. iv. 2004
Congratulations on your 85th birthday!
Where would the Hawaiian flora be
without you? Your continuing productivity
and seven-day work week are an
inspiration to all.

Sincerely, Craig W Schneider

05-05 2004

Dear Izzie,

Thinking back on my time at Berkeley (1966-1994) I remember with fondness the collecting trips to Monterey with Frikkie and the visits with you and Don at Hopkins Marine Station. Those were wonderful years and it was always exciting finding so many algae along the coast that were new to me. Too bad we can't crank back the clock 40 years!

Glad you are still enjoying phycology as much today!

John West

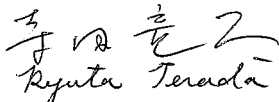
Fig. 6. Salutations: Gerry Kraft, Craig Schneider, John West.

Happy Birthday, Dr. Isabella A. Abbott!

On the behalf of phycologists around the world,
I am honored to celebrate your birthday.

From the bottom of our hearts,
we wish you many more years of
good health and happiness.

Omedetou Gozaimasu!

Sincerely yours, 

Ryuta Terada
Kagoshima University, Japan

Dear Izzie,

Warmest greetings on the occasion of
your 85th birthday, and continued
success in your impressive and productive
psychological career that already has
spanned well over half a century.

Bill Woelkerling

6 May 2004

Dear Izzie,

Congratulations on this
significant milestone.

Michael Wynne

something about Izzie. What I remember most was not when I was a graduate student at the University of Hawaii, but from a time when I was very, very young and had not been exposed to many professional women scientists. Izzie (then of course, "Dr. Abbott" to me) had come to Santiago, Chile, and gave a summer course on algae. Afterwards she stayed on to work with Dr. Bernabe Santelices on the marine flora of Easter Island. We were in the laboratory of the Zoology Department (the building has long since disappeared) of the Universidad Católica, and she was using a microscope next to the one I was using. This was an extremely old building, with wooden, creaky floors, very high ceilings and legends of disagreeable ghosts wandering around at night. The algal material from Easter Island was kept in a Formalin-solution inside glass jars with screw-type lids, which she had a hard time opening. Seeing her struggling with the lid of one of these jars, I offered my help. Reaching for the jar, it slipped and hit the floor, breaking into hundreds of pieces, a bath of formaldehyde and ... a freed sample of some unknown seaweed! Izzie carefully recovered the alga from the center of the scene. I learned that she not only cared for the algae, but her students. She impressed me that she knew very clearly what she wanted to do and believed she could accomplish it. In working with Izzie, I learned more than just about algae. What meant the most to me, was her providing the encouragement that I too could do it myself."

This edition of *Cryptogamie, Algologie* was conceived by the two of us and produced with JNN acting as guest "co-editor", and we acknowledge the usually uncredited input of our associate editors. It includes contributed papers dedicated to Izzie, and also personal greetings from the many phycologists who were not in a position to contribute a paper (see Figs 2-7). Izzie's popularity in the phycological community saw an unprecedented response to our call for papers, with the result that this tribute will be continued into the next edition of *Cryptogamie, Algologie*.

On behalf of the phycological community, we send Izzie our warmest wishes as she enters her 86th year.

BIBLIOGRAPHY OF ISABELLA AIONA ABBOTT

1945

1. ABBOTT I.A. — The genus *Liagora* (Rhodophyceae) in Hawaii. *Occasional Papers Bernice P. Bishop Museum* 18: 145-169.

1946

2. ABBOTT I.A. — The genus *Griffithsia* (Rhodophyceae) in Hawaii. *Farlowia* 2: 439-453.

1947

3. ABBOTT I.A. — Brackish-water algae from the Hawaiian Islands. *Pacific Science* 1: 193-214.

1954

4. ABBOTT I.A. — Marine Algae and Flowering Plants. In: Smith, R.I. et al., *Light's Manual of Intertidal Invertebrates of the Central California Coast*. Berkeley, University of California Press.

1960

5. ABBOTT I.A. & DOTY M.S. — Studies in Helminthocladiaceae (Rhodophyta) II. *Trichogloeopsis*. *American Journal of Botany* 47: 632-640.

1961

6. DOTY M.S. & ABBOTT I.A. — Studies in Helminthocladiaceae (Rhodophyta) I. *Helminthocladia*. *Pacific Science* 15: 56-63.

7. ABBOTT I.A. — On *Schimmelmannia* from California and Japan. *Pacific Naturalist* 2: 3-8 [379-386].
8. ABBOTT I.A. — A check list of marine algae from Ifaluk Atoll, Caroline Islands. *Atoll Research Bulletin* No. 77: 1-5.

1962

9. ABBOTT I.A. — Structure and reproduction of *Farlowia* (Rhodophyceae). *Phycologia* 2: 29-37.
10. ABBOTT I.A. — Morphological studies in a new species of *Acrosymphyton* (Rhodophyceae). *American Journal of Botany* 49: 845-849.
11. ABBOTT I.A. — Some *Liagora*-inhabiting species of *Acrochaetium*. *Occasional Papers Bernice P. Bishop Museum* 23: 77-120.

1964

12. DOTY M.S. & ABBOTT I.A. — Studies in the Helminthocladiaceae, III: *Liagoropsis*. *Pacific Science* 18: 441-452.

1965

13. ABBOTT I.A. — *Helminthora* and *Helminthocladia* from California. *Hydrobiologia* 25: 88-98.
14. ABBOTT I.A. & NORRIS R.E. — Studies on *Callophyllis* (Rhodophyceae) from the Pacific coast of North America. *Nova Hedwigia* 10: 67-84, pls. 6-19.
15. HOLLENBERG G.J. & ABBOTT I.A. — New species and new combinations of marine algae from the region of Monterey, California. *Canadian Journal of Botany* 43: 1177-1188.

1966

16. HOLLENBERG G.J. & ABBOTT I.A. — *Supplement to Smith's Marine Algae of the Monterey Peninsula*. Stanford, California, Stanford University Press. xi + [i] + [2]-130 pp.
17. ABBOTT I.A. — Elmer Yale Dawson (1918-1966). *Journal of Phycology* 2: 129-132.
18. ABBOTT I.A. — Observations on *Liagorophila endophytica*, a rare species in the Acrochaetiaceae (Rhodophyceae). *Journal of Phycology* 2: 147-150.

1967

19. ABBOTT I.A. — *Liagora tanakai*, a new species from southern Japan. *Bulletin of the Japanese Society of Phycology* 15: 32-37.
20. ABBOTT I.A. — Studies in some foliose red algae of the Pacific Coast, I: Cryptonemiaceae. *Journal of Phycology* 3: 139-149.
21. ABBOTT I.A. — Studies in the foliose red algae of the Pacific Coast, II: *Schizymenia*. *Bulletin of the Southern California Academy of Sciences* 66: 161-174.

1968

22. HOLLENBERG G.J. & ABBOTT I.A. — New species of marine algae from California. *Canadian Journal of Botany* 46: 1235-1251.
23. ABBOTT I.A. — Studies in some foliose red algae of the Pacific coast, III: Dumontiaceae, Weeksiaceae, Kallymeniaceae. *Journal of Phycology* 4: 180-198.
24. ABBOTT D.P., EPEL D., PHILLIPS J.H., ABBOTT I.A. & STOHLER R. (eds) — The Biology of *Acmaea*. *The Veliger* 11(Supplement): iv+112 pp.
25. ABBOTT D.P., EPEL D., PHILLIPS J.H. & ABBOTT I.A. — Undergraduate research and the biology of *Acmaea*. In: Abbott D.P., Epel D., Phillips J.H., Abbott I.A. & Stohler R. (eds), The Biology of *Acmaea*. *The Veliger* 11(Supplement): 1-4.
26. WOMERSLEY H.B.S. & ABBOTT I.A. — Structure and reproduction of *Neoardissonaea* Kylin (Rhodophyta—Naccariaceae). *Journal of Phycology* 4: 173-177.
27. ABBOTT I.A. — An examination of the type specimens of some species of *Acrochaetium* (Rhodophyceae). *Taxon* 17: 518-520.

1969

28. ABBOTT I.A. — Some new species, new combinations, and new records of red algae from the Pacific Coast. *Madrono* 20: 42-53.
29. SMITH G.M., HOLLENBERG G.J. & ABBOTT I.A. — *Marine Algae of the Monterey Peninsula, California*, 2nd Edition: *Incorporating the 1966 Supplement by George*

J. Hollenberg and Isabella A. Abbott. Stanford, California, Stanford University Press. ix + [i] + [2]-752 p.

30. ABBOTT I.A. & LITTLER M.M. — Some Rhodymeniales from Hawaii. *Phycologia* 8: 165-169.

1970

31. ABBOTT I.A. — *Yamadaella*, a new genus in the Nemaliales (Rhodophyta) *Phycologia* 9: 115-123.
32. ABBOTT I.A. — On some new records of marine algae from Washington State. *Syesis* 3:1-4.

1971

33. ABBOTT I.A. — On some Ceramiaceae (Rhodophyta) from California. *Pacific Science* 25: 349-356.
34. KRAFT G.T. & ABBOTT I.A. — *Predaea weldii*, a new species of Rhodophyta from Hawaii, with an evaluation of the genus. *Journal of Phycology* 7: 194-202.
35. ABBOTT I.A. — On the species of *Iridaea* (Rhodophyta) from the Pacific coast of North America. *Syesis* 4: 51-72.
36. ABBOTT I.A. — U.S.-Japan Seminar on benthic algae marine algae of the Pacific. *Phycologia* 10: 433-435.

1972

37. ABBOTT I.A. & KUROGI M. (eds) — *Contributions to the Systematics of Benthic Marine Algae of the North Pacific*. Kobe, Japanese Society of Phycology, xiv + 279 p.
38. ABBOTT I.A. — Field studies which evaluate criteria used in separating species of *Iridaea* (Rhodophyta). In: Abbott I.A. & Kurogi M. (eds), *Contributions to the Systematics of Benthic Marine Algae of the North Pacific*. Kobe, Japanese Society of Phycology, pp. 253-264.
39. ABBOTT I.A. & NORTH W.J. — Temperature influences on floral composition in California coastal waters. In: Nisizawa K. (ed.), *Proceedings of the Seventh International Seaweed Symposium, Sapporo, Japan: 72-79*. Tokyo, University of Tokyo Press.
40. ABBOTT I.A. — U.S.-Japan Seminar on Benthic Marine Algae (Report). *Phycologia* 10: 433-435.
41. NORRIS J.N. & ABBOTT I.A. — Some new records of marine algae from the R/V *Proteus* cruise to British Columbia. *Syesis* 5: 87-94.
42. ABBOTT I.A. — Taxonomic and nomenclatural notes on North Pacific marine algae. *Phycologia* 11: 259-265.

1973

43. OGDEN J.C., ABBOTT D.P. & ABBOTT I.A. (eds) — Studies on the activity pattern and food of the Echinoid *Diadema antillarum* Philippi on a West Indian patch reef. *Special Publication No. 2, West Indies Laboratory of Fairleigh Dickinson University*, Christiansted, St. Croix, U.S. Virgin Islands. iii + 96 p.
44. TAYLOR W.R. & ABBOTT I.A. — A new species of *Botryocladia* from the West Indies. *British Phycological Journal* 8: 409-412.

1974

45. ABBOTT I.A. & WILLIAMSON E.H. — Limu: an ethnobotanical study of some edible Hawaiian seaweeds. *Bulletin of the Pacific Tropical Botanical Garden, Lawai, Kauai* 4: 1-21.
46. ABBOTT D.P., OGDEN J.C. & ABBOTT I.A. (eds) — Studies on the activity pattern, behavior, and food of the echinoid *Echinometra lucunter* (Linnaeus) on beach-rock and algal reef at St. Croix, U. S. Virgin Islands. *Special Publication No. 4, West Indies Laboratory of Fairleigh Dickinson University*, Christiansted, St. Croix, U. S. Virgin Islands. iii+111 p.
47. DOTY M.S., GILBERT W.J. & ABBOTT I.A. — Hawaiian marine algae from seaward of the algal ridge. *Phycologia* 13: 345-357.

1975

48. ABBOTT I.A. — Intertidal Plants. In: Smith R.I. & Carlton J.T. (eds), *Light's Manual: Intertidal Invertebrates of the Central California Coast*, 3rd Edition. Berkeley & Los Angeles, University of California Press, pp. 669-684.

1976

49. ABBOTT I.A. & HOLLENBERG G.J. — *Marine Algae of California*. Stanford, Stanford University Press, xii + 827 p.
50. ABBOTT I.A. — *Dotyophycus pacificum* gen. et sp. nov., with a discussion of some families of Nematiales (Rhodophyta). *Phycologia* 15: 125-132.
51. ABBOTT I.A. — On the red algal genera *Grallatoria* Howe and *Callithamniella* Feldmann-Mazoyer (Ceramiaceae). *British Phycological Journal* 11: 143-149.

1977

52. ABBOTT I.A. — On the identity of *Zonaria hawaiiensis* (Phaeophyta, Dictyotales). *Bulletin of the Japanese Society for Phycology* 25 (Suppl.): 1-8.

1978

53. ABBOTT I.A. & DAWSON E.Y. — *How to Know the Seaweeds*, 2nd Edition. Dubuque, Wm. C. Brown Co. Publ., viii+141 p.
54. ABBOTT I.A. — Morphologic and taxonomic observations on *Neogardhiella* (Gigartinales, Rhodophyta), with emphasis on Pacific populations. *Journal of Phycology* 14: 48-53.
55. SANTELICES B. & ABBOTT I.A. — New records of marine algae from Chile and their effect on phytogeography. *Phycologia* 17: 213-222.
56. ABBOTT I.A. — Two Phycology Texts [Reviews]. *Bioscience* 28: 723.
57. ABBOTT I.A. — The influence of the major food crops on the social system of old Hawaii. *Newsletter of the Hawaiian Botanical Society* 16: 78-79.
58. ABBOTT I.A. — The uses of seaweed as food in Hawaii. *Economic Botany* 32: 409-412.

1979

59. ABBOTT I.A. — Some tropical species related to *Antithamnion* (Rhodophyta, Ceramiaceae). *Phycologia* 18: 213-227.
60. ABBOTT I.A. — The importance of taxonomy to the utilization of marine algae. In: Santelices B. (ed.), *Taxonomic problems in economically important species of algae. Actas Primer Symposium sobre Algas marinas Chilenas*, Santiago, Chile, Ministerio de Economia ..., Subsec. Pesca, p. 51-58.
61. ABBOTT I.A. — Taxonomy and nomenclature of the type species of *Dumontia* Lamouroux (Rhodophyta). *Taxon* 28: 563-566.

1980

62. ABBOTT I.A. — Some field and laboratory studies on colloid-producing red algae in central California. *Aquatic Botany* 8: 255-266.
63. MURRAY S.N., LITTLER M.M. & ABBOTT I.A. — Biogeography of the California Marine Algae with emphasis on the Southern California Islands. In: Power D.M. (ed.), *The California Islands: Proceedings of a Multidisciplinary Symposium*. Santa Barbara, California, Santa Barbara Museum of Natural History, pp. 325-339.
64. ABBOTT I.A., FOSTER M.S. & EKLUND L. (eds) — *Pacific Seaweed Aquaculture: Proceedings of a Symposium* La Jolla, California Sea Grant College Program, 228 p.
65. ABBOTT I.A. — Seasonal population biology of some carrageenophytes and agarophytes. In: Abbott I.A., Foster M.S. & Eklund L. (eds), *Pacific Seaweed Aquaculture: Proceedings of a Symposium*. Pacific Area Sea Grant Advisory Programs [PASGAP], Pacific Grove, California. La Jolla, California Sea Grant College Program, pp. 45-53, [References] 213-228.
66. ABBOTT I.A. — Early collections of Hawaiian marine algae. *Pacific Science* 34: 101-107. [published 1980]

1981

67. ABBOTT I.A. & CHAPMAN F.A. — Evaluation of kappa carrageenan as a substitute for agar in microbiological media. *Archives of Microbiology* 128: 355-359.

68. ABBOTT I.A. — Seaweed, Sea Wonder. *The Stanford Magazine*, Spring/Summer 9: 50-55.
69. ABBOTT I.A. & YOSHIKAZI M. — A second species of *Dotyophycus* (Nemaliales, Rhodophyta) that emphasizes the distinctness of a diffuse gonimoblast. *Phycologia* 20: 222-227.
70. ABBOTT I.A. — Carpogonial morphology and post-fertilization events in the lower Nemaliales (Rhodophyta). *Proceeding of the International Seaweed Symposium* 8: 54-58. Menai Bridge, Wales, U.K.

1982

71. ABBOTT I.A. — *Phycology* by R.E. Lee [Book review]. *Aquatic Botany* 12: 93-95.
72. ABBOTT I.A. & YOSHIKAZI M. — *Liagora valida* Harvey (Rhodophyta) from Sand Key, Florida. *Japanese Journal of Phycology* 30: 9-14.
73. ABBOTT I.A. — *Seaweeds and their Uses* by V.J. Chapman and David J. Chapman [Book review]. *Aquatic Botany* 12: 389-390.
74. ABBOTT I.A. — On *Abbotia* Perestenko, 1975 (Rhodophyta). *Taxon* 31: 300-302.
75. ABBOTT I.A. — The ethnobotany of Hawaiian taro. *Native Planters* 1: 17-22.
76. ABBOTT I.A. & CHENEY D. — Commercial uses of algal products: Introduction and bibliography. In: Rosowski J.R. & Parker B.C. (eds), *Selected Papers in Phycology II*. Lincoln, University of Nebraska Press, Phycological Society of America, pp. 779-787
77. ABBOTT I.A. — *Xth International Seaweed Symposium Proceedings* [Book review]. *Aquatic Botany* 12: 389-390.
78. ABBOTT I.A. — *The Ecology of Algae* by R.E. Round [Book review]. *Quarterly Review of Biology* 57: 485-486.
79. ABBOTT I.A. — Obituary: George Frederik Papenfuss (1903-1981). *British Phycological Journal* 17: 347-349.

1983

80. ABBOTT I.A. — Some species of *Gracilaria* (Rhodophyta) from California. *Taxon* 32: 561-564.
81. ABBOTT I.A. — Hawaiian plant resources for Tapa: the record is faulty. *Newsletter of the Hawaiian Botanical Society* 22: 23-24.
82. ABBOTT I.A. — (Reports) — XI International Seaweed Symposium, Qingdao, China. *Phycologia* 22: 463-464.

1984

83. ABBOTT I.A. — *Limu: An Ethnobotanical Study of Some Hawaiian Seaweeds*. 3rd edition. Pacific Tropical Botanical Garden, Lawai, Kauai, Hawaii, 35 p.
84. ABBOTT I.A. — *Dotyella irregularis* sp. nov. and new observations on *Cottoniella* (Sarcomenioideae, Rhodophyta). *Phycologia* 23: 369-375.
85. ABBOTT I.A. — Two new species of *Liagora* (Nemaliales, Rhodophyta) and notes on *Liagora farinosa* Lamouroux. *American Journal of Botany* 71: 1015-1022.
86. ABBOTT I.A. — [Book review]. *Marine Algae in Pharmaceutical Science*. Vol. 2. H.A. Hoppe & T. Levring (eds), Walter de Gruyter, Berlin and New York, 1982. XI, 309 pages. *Aquatic Botany* 20: 359-360.
87. ABBOTT I.A. — *Peleophycus multiprocarpium* gen. et sp. nov. (Gloiosiphoniaceae, Rhodophyta). *Pacific Science* 38: 324-332.
88. ABBOTT I.A. & HANSEN J.E. — *Multiple species utilization of the Herring eggs-on-seaweed fishery*. California Sea Grant Biennial Report, 1980-2. La Jolla, California Sea Grant College Program, University of California.

1985

89. ABBOTT I.A. & NORRIS J.N. (eds) — *Taxonomy of Economic Seaweeds, with reference to some Pacific and Caribbean species*. Volume I. La Jolla, California Sea Grant College Program, University of California., xv + 167 p.
90. ABBOTT I. A., CHIANG Y. M., FREDERICQ S., NORRIS J.N., TSUDA R.T., BANGMEI, X. & YAMAMOTO, H. — The red alga *Gracilaria* Greville (Gracilariaceae, Gigartinales): Introduction. In: Abbott I.A. & Norris J.N. (eds), *Taxonomy of Economic Seaweeds with reference to some Pacific and Caribbean*

- species*, Volume I. La Jolla, California Sea Grant College Program, University of California, pp. 67-68.
91. SANTELICES B. & ABBOTT I.A. — *Gelidium rex* sp. nov. (Gelidiales, Rhodophyta) from Central Chile. In: Abbott I.A. & Norris J.N. (eds), *Taxonomy of Seaweeds, with reference to some Pacific and Caribbean species*. Volume I. La Jolla, California Sea Grant College Program, University of California, pp. 33-36
 92. ABBOTT I.A. — *Gracilaria* from the Philippines: list and distribution of the species. In: Abbott I.A. & Norris J.N. (eds), *Taxonomy of Economic Seaweeds, with reference to some Pacific and Caribbean species*. Volume I. La Jolla, California Sea Grant College Program, University of California, pp. 89-90.
 93. ABBOTT I.A. — *Gracilaria* from Hawaii: key, list and distribution of the species. In: Abbott I.A. & Norris J.N. (eds), *Taxonomy of Economic Seaweeds, with reference to some Pacific and Caribbean species*. Volume I. La Jolla, California Sea Grant College Program, University of California, pp. 85-87.
 94. ABBOTT I.A. — *Gracilaria* from California: key list and distribution of the species. In: Abbott I.A. & Norris J.N. (eds), *Taxonomy of Economic Seaweeds, with reference to some Pacific and Caribbean species*. Volume I. La Jolla, California Sea Grant College Program, University of California, pp. 97-99.
 95. ABBOTT I.A. — New species of *Gracilaria* Grev. (Gracilariaceae, Rhodophyta) from California and Hawaii. In: Abbott I.A. & Norris J.N. (eds), *Taxonomy of Economic Seaweeds, with reference to some Pacific and Caribbean species*. Volume I. La Jolla, California Sea Grant College Program, University of California, pp. 115-121.
 96. XIA BANGMEI & ABBOTT I.A. — The genus *Polycavernosa* Chang et Xia (Gracilariaceae, Rhodophyta): a comparison with *Gracilaria* Grev. and a Key to the species. In: Abbott I.A. & Norris J.N. (eds), *Taxonomy of Economic Seaweeds with reference to some Pacific and Caribbean species*. Volume I. La Jolla, California Sea Grant College Program, University of California. pp. 157-162.
 97. ABBOTT I.A. — Vegetative and reproductive morphology in *Reticulocaulis* gen. nov. and *Naccaria hawaiiiana* sp. nov. (Rhodophyta, Naccariaceae). *Journal of Phycology* 21: 554-561.
 98. ABBOTT I.A. & SHIMAZU C. — The geographic origin of the plants most commonly used for medicine by Hawaiians. *Journal of Ethnopharmacology* 14: 213-222.
 99. TSUDA R.T. & ABBOTT I.A. — Collection, handling, preservation and logistics In: Littler M.M. & Littler D.S. (eds), *Handbook of Phycological Methods, V. Ecological Field Methods: Macroalgae*. Cambridge, Cambridge University Press, pp. 67-86.
 100. AGEKIAN C.R. & ABBOTT I.A. — Deep-water macroalgal communities: a comparison between Penguin Bank (Hawaii) and Johnston Atoll. In: Harmelin Vivien M. & Salvat B. (eds), *Proceedings of the Fifth International Coral Reef Congress, Tahiti*, vol. 5: Miscellaneous Papers (A), p. 47-50. Antenne Museum-Ephe, Moorea, French Polynesia.
 101. ABBOTT I.A. & SANTELICES B. — The marine algae of Easter Island, Eastern Polynesia. In: Harmelin Vivien M. & Salvat B. (eds), *Proceedings of the Fifth International Coral Reef Congress, Tahiti*, vol. 5: Miscellaneous Papers (A), p. 71-75. Antenne Museum-Ephe, Moorea, French Polynesia.
- 1986**
102. ABBOTT I.A. — A unique form of *Valoniopsis pachynema* (Chlorophyta) from French Polynesia. *Cryptogamie, Algologie* 7: 161-167.
- 1987**
103. ABBOTT I.A. — There are aliens among the algae, too — or Limu Malihini. *Newsletter of the Hawaiian Botanical Society* 26: 60-63.
 104. ABBOTT I.A. — Limu — A Hawaiian Delicacy. *Gourmet [Magazine]* (September).
 105. XIA BANGMEI & ABBOTT I.A. — Edible seaweeds of China and their place in the Chinese diet. *Economic Botany* 41: 341-353.
 106. MENESES I. & ABBOTT I.A. — *Gracilaria* and *Polycavernosa* (Rhodophyta) from Micronesia. *Micronesica* 20: 187-200.

107. SANTELICES B. & ABBOTT I.A. — Geographic and marine isolation: an assessment of the marine algae of Easter Island. *Pacific Science* 41: 1-20.
 108. XIA BANGMEI & ABBOTT I.A. — New species of *Polycavernosa* Chang & Xia (Gracilariaceae, Rhodophyta) from the western Pacific. *Phycologia* 26: 405-418.

1988

109. ABBOTT I.A. — Food and food products from seaweeds. In: Lembi C.A. & Waaland J.R. (eds), *Algae and Human Affairs*. Cambridge, Cambridge University Press, pp. 135-147.
 110. ABBOTT I.A. (ed.) — *Taxonomy of Economic Seaweeds with reference to some Pacific and Caribbean species*. Volume II. La Jolla, California Sea Grant College Program, University of California, xv + 264p.
 111. ABBOTT I.A. — Introduction(s). In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific and Caribbean species*. Volume II. La Jolla, California Sea Grant College Program, University of California, p. 89-90 [Gelidiales], p. 127-130 [... *Gracilaria* and *Polycavernosa*...], p. 157-158 [*Euचेuma*].
 112. ABBOTT I.A., TSENG C.K. & LU BAOREN — Clarification of some nomenclature in *Sargassum* subgenus *Sargassum*. In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific and Caribbean species*. Volume II. La Jolla, California Sea Grant College Program, University of California, pp. 55-57.
 113. ABBOTT I.A. — Some species of *Gracilaria* and *Polycavernosa* from Thailand. In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific and Caribbean species*. Volume II. La Jolla, California Sea Grant College Program, University of California, pp. 137-150.
 114. ABBOTT I.A. — Some species of *Gracilaria* and *Polycavernosa* from the Siboga Expedition. In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific and Caribbean species*. Volume II. La Jolla, California Sea Grant College Program, University of California, pp. 151-156.

1989

115. SANTELICES B., RAMIREZ M.E. & ABBOTT I.A. — A new species and new records of marine algae for Chile. *British Phycological Journal* 24: 73-82.
 116. ABBOTT I.A. — Marine algae of the Northwest Hawaiian Islands. *Pacific Science* 43: 223-233.
 117. SCHLECH K.E. & ABBOTT I.A. — Species of Dasyaceae (Rhodophyta) from Hawaii. *Pacific Science* 43: 332-351.
 118. ABBOTT I.A. — George Jacob Hollenberg (1897-1988). *Phycologia* 28: 400-402.
 119. OGDEN N.B., OGDEN J.C. & ABBOTT I.A. — Distribution, abundance and food of sea urchins on a Leeward Hawaiian Reef. *Bulletin of Marine Science* 45: 539-549.
 120. MAGRUDER W. & ABBOTT I.A. — Marine algae of the Hawaiian Islands. *Herbarium Pacificum News* 8: 4.

1990

121. ABBOTT I.A. — A taxonomic and nomenclatural assessment of the species of *Liagora* (Rhodophyta, Nemaliales) in the herbarium of Lamouroux. *Cryptogamie, Algologie* 11: 111-136.
 122. ABBOTT I.A. — A taxonomic assessment of the species of *Liagora* (Nemaliales, Rhodophyta) recognized by J. Agardh, based upon studies of type specimens. *Cryptogamic Botany* 1: 308-322.
 123. ABBOTT I.A. — [Book review]. *Biology of Seagrasses: a treatise on the biology of seagrasses with special reference to the Australian region*, by Larkum A.W.D., McComb A.J. & Shepherd S.A. (eds). *Aquatic Botany* 36: 297-298.
 124. ABBOTT I.A. — [Book review]. *Marine Plants of the Caribbean* by Littler D.S., Littler M.M., Bucher K.E. & Norris J.N. *Aquaculture* 89: 387-388.

1991

125. ABBOTT I.A., ZHANG JUNFU & XIA BANGMEI. — *Gracilaria mixta*, sp. nov. and other western Pacific species of the genus (Rhodophyta: Gracilariaceae). *Pacific Science* 45: 12-27.

126. ABBOTT I.A. — In memoriam: William Randolph Taylor (1895-1990), an appreciative tribute. *Phycologia* 30: 378-380.
127. ABBOTT I.A. — Polynesian uses of seaweed. In: Cox P.A. & Banack S.A. (Eds), *Islands, Plants and Polynesians: An Introduction to Polynesian Ethnobotany*. Portland, Dioscoides Press, pp. 135-145.
128. ABBOTT I.A. — [Book review]. *Phycology*, 2nd Edition, by Lee R.S. *Aquatic Botany* 39: 379-380.

1992

129. ABBOTT I.A. (ed.) — *Taxonomy of Economic Seaweeds, with reference to some Pacific and Western Atlantic species*. Volume III. La Jolla, California Sea Grant College Program, University of California. xiv+241 p.
130. ABBOTT I.A. — Introduction(s). In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific and Western Atlantic species*. Volume III. La Jolla, California Sea Grant College Program, University of California, pp. 1-4 [*Sargassum* subsp. *Sargassum*], pp. 149-150 [Gelidiales], pp. 193-194 [*Gracilaria*], pp. 233-234 [*Eucheuma*].
131. ABBOTT I.A. — *La'au Hawai'i. Traditional Hawaiian Uses of Plants*. Honolulu, Bishop Museum Press, xii + 163 p.
132. ABBOTT I.A. — Symposium on marine diversity and biogeography in the tropics: Pacific Science Congress, May-June 1991, Honolulu. *Pacific Science* 46: 426-428.
133. NORRIS R.E. & ABBOTT I.A. — New taxa of Ceramieae (Rhodophyta) from Hawaii. *Pacific Science* 46: 453-465.
134. HODGSON L.M. & ABBOTT I.A. — Nearshore benthic marine algae of Cape Kina'u, Maui. *Botanica Marina* 35: 535-540.
135. ABBOTT I.A. — Marine algae of the Hawaiian Islands Update. *Herbarium Pacificum News* 10: 4.

1993

136. ABBOTT I.A. & NORRIS R.E. — New species of Ceramiaceae (Rhodophyta) from the Hawaiian Islands. *Phycologia* 32: 451-461.
137. HOKAMA Y., ASAHINA A.Y., TITUS E., SHIRAI J.L.R., HONG T.W.P., CHUN S., MIYAHARA J.T., TAKATA D., MURANAKA A., PANG E., ABBOTT I.A. & ICHINOTSUBO D. — A survey of ciguatera: Assessment of Puako, Hawaii, associated with ciguatera toxin epidemics in humans. *Journal of Clinical Laboratory Analysis* 7: 147-154.

1994

138. ABBOTT I.A. (ed.) — *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume IV. La Jolla, California Sea Grant College Program, University of California, xvii + 200 p.
139. ABBOTT I.A. — Introduction(s). In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume IV. La Jolla, California Sea Grant College Program, University of California, pp. 1-2 [*Sargassum* species], pp. 81-84 [*Gracilaria*].
140. NORO T. & ABBOTT I.A. — A tentative identification of some specimens of *Sargassum* from the tropical South Pacific. In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume IV. La Jolla, California Sea Grant College Program, University of California, pp. 33-34.
141. ABBOTT I.A. — New records and a reassessment of *Gracilaria* (Rhodophyta) from the Philippines. In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific species* Volume IV. La Jolla, California Sea Grant College Program, University of California, pp. 111-118.
142. ABBOTT I.A. & WILDER G.P. — Taxonomy of economic algae – identification of algae is necessary in order to derive the most profit from colloid producing algae. In: Phang S.M., Lee Y.K., Borowitzka M.A. & Whitton, B.A. (eds), *Algal Biotechnology in the Asia-Pacific Region*. Kuala Lumpur, Institute of Advanced Studies, University of Malaya, pp. 243-247.

1995

143. NORRIS J.N., ABBOTT I.A. & AGEGLIAN C.R. — *Callidictyon abyssorum*, gen. et sp. nov. (Rhodophyta), a new deep-water, net-forming alga from Hawai'i. *Pacific Science* 49: 192-201.
144. ABBOTT I.A. (ed.) — *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume V. La Jolla, California Sea Grant College Program, University of California, xx + 254 p.
145. ABBOTT I.A. — Introduction(s). In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume V. La Jolla, California Sea Grant College Program, University of California, pp. 1-2 [*Sargassum* species], pp. 145-146 [Gelidiales]; pp. 175-176 [*Gracilaria*], pp. 227-228 [*Eucheuma*].
146. ABBOTT I.A. — A decade of species of *Gracilaria (sensu lato)*. In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume V. La Jolla, California Sea Grant College Program, University of California, pp. 185-195.
147. ABBOTT I.A. — A new "tetrasporangial" species of *Liagora* (Rhodophyta, Nemaliales) from Hawai'i. *Chinese Journal of Oceanology and Limnology* 13: 343-347.
148. ABBOTT I.A. — The state of systematics of marine algae in Tropical Island Pacific. In: Maragos J.E., Peterson M.N.A., Eldredge L.G., Bardach J.E. & Takeuch H.F. (eds), *Marine and Coastal Biodiversity in the Tropical Island Pacific Region: Species Systematics and Information Management Priorities*. Honolulu, Program on Environment, University of Hawaii East-West Center Publication, pp. 25-38.
149. ABBOTT I.A. — Hawaiian herbivorous fish: what algae are they eating, or what's left? In: Hokama Y., Scheuer P. & Yasumoto T. (eds), *Proceedings of the International Symposium on Ciguatera and Marine Natural Products*, Honolulu, Asian-Pacific Research Foundation, pp. 11-18.

1996

150. ABBOTT I.A. — New species and notes on marine algae from Hawai'i. *Pacific Science* 50: 142-156.
151. ABBOTT I.A. — Ethnobotany of seaweeds: clues to uses of seaweeds. In: Lindstrom S.C & Chapman D.J. (eds), *Proceeding of the XVth International Seaweed Symposium*. *Hydrobiologia* 326/327: 15-20.
152. ABBOTT I.A. — *Limu: An ethnobotanical study of some Hawaiian seaweeds*. (4th Edition). Lawai, Kauai, Hawaii, National Tropical Botanical Garden. 39 p.

1997

153. KRAFT G.T. & ABBOTT I.A. — *Platoma ardreanum* (Schizymeniaceae, Gigartinales) and *Halymenia chiangiana* (Halymeniaceae, Halymeniales), two new species of proliferous, foliose red algae from the Hawaiian Islands. *Cryptogame, Algologie* 18: 97-116.
154. MILLAR A.J.K. & ABBOTT I.A. — The new genus and species *Ossiella pacifica* (Griffithsiaceae, Rhodopyta) from Hawaii and Norfolk Island, Pacific Ocean. *Journal of Phycology* 33: 88-96.
155. ABBOTT I.A. (ed.) — *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume VI. La Jolla, California Sea Grant College Program, University of California, xx + 212 p.
156. ABBOTT I.A. — Introduction(s). In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume VI. La Jolla, California Sea Grant College Program, University of California, pp. 1-2 [*Sargassum* species], p. 75 [Gelidiales], p. 89 [*Gracilaria* and related species], pp. 125-126 [*Hypnea* species].

1998

157. ABBOTT I.A. — Some new species and new combinations of marine red algae from the central Pacific. *Phycological Research* 46: 97-109.
158. KRAFT G.T. & ABBOTT I.A. — *Gelidiella womersleyana* (Gelidiales, Rhodophyta), a diminutive new species from the Hawaiian Islands. *Botanica Marina* 41: 51-61.
159. ABBOTT I.A. — Some marine red algae (Rhodophyta) new to the Hawaiian Islands. *Phycological Research* 46: 15-27.

1999

160. ABBOTT I.A. — *Marine Red Algae of the Hawaiian Islands*. Honolulu, Bishop Museum Press, xv + 477 p.
161. ABBOTT I.A. (ed.) — *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume VII. La Jolla, California Sea Grant College Program, University of California, xviii + 181 p.
162. ABBOTT I.A. — Introduction(s). In: Abbott I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific species*, Volume VII. La Jolla, California Sea Grant College Program, University of California, pp. ix-xi; [*Sargassum* species] pp. 1-2; [*Gelidiales*] pp. 53-54; [*Gracilariales*] pp. 87-88; & [*Halymenia* species] pp. 145-146.
163. ABBOTT I.A. — Notes on some species of *Halymenia* in the southwestern Pacific. In: Abbott, I.A. (ed.), *Taxonomy of Economic Seaweeds with reference to some Pacific species* Volume VII. La Jolla, California Sea Grant College Program, University of California, pp. 163-172.

2001

164. ABBOTT I.A. & MCDERMID K.J. — *Dudresnaya babbittiana* (Dumontiaceae, Gigartinales) a new red algal species from Midway Atoll, North Central Pacific. *Cryptogamie, Algologie* 22: 249-261.

2002

165. ABBOTT I.A. & MCDERMID K.J. (eds) — *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Volume VIII. La Jolla, California Sea Grant College Program, University of California, xviii + 332 p.
166. ABBOTT I.A. & MCDERMID K.J. — On two species of *Kallymenia* (Rhodophyta: Gigartinales: Kallymeniaceae) from the Hawaiian Islands, Central Pacific. *Pacific Science* 56: 149-162.
167. ABBOTT I.A., Introduction(s). In: Abbott, I.A. & McDermid, K.J. (eds) *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Vol. VIII. La Jolla, California Sea Grant College Program, University of California, pp. ix-x [A special introduction and explanation]; p. 1 [*Sargassum* species]; p. 149 [*Gelidiales*]; p. 207 [*Gracilariales*]; p. 245 [*Kappaphycus/Eucheuma*]; p. 257 [*Halymenia* species]; p. 289 [The marine algae of Vietnam].
168. ABBOTT I.A., FISHER J. & MCDERMID K.J. — Newly reported and revised marine algae from the vicinity of Nha Trang, Vietnam. In: Abbott, I.A. & McDermid, K.J. (eds) *Taxonomy of Economic Seaweeds with reference to some Pacific species*. Vol. VIII. La Jolla, California Sea Grant College Program, University of California, pp. 291-321.
169. ABBOTT I.A. — Interpreting pre-western Hawaiian culture as an ethnobotanist. *Economic Botany* 56: 3-6.
170. KRAFT G.T. & ABBOTT I.A. — The anatomy of *Neotenophycus ichthyosteus* gen. et sp. nov. (Rhodomelaceae, Ceramiales), a bizarre red algal parasite from the central Pacific. *European Journal of Phycology* 37: 269-278.
171. JAMES S.A., PUTTOCK C.F. & ABBOTT I.A. — *A key to common Hawaiian marine algae*. Version 1.0. [CD-ROM].

2003

172. HUISMAN J.M. & ABBOTT I.A. — The Liagoraceae (Rhodophyta: Nemaliales) of the Hawaiian Islands. 1: First record of the genus *Gloiostrichus* for Hawai'i and the Pacific Ocean. *Pacific Science* 57: 267-273.
173. ABBOTT I.A. & HUISMAN J.M. — New records and notes on Hawaiian marine benthic Chlorophyta, including *Pseudochlorodesmis abbreviata* (Gilbert), n. comb. (Udoteaceae) and *Cladophora luxurians* (Gilbert) n. comb. (Cladophoraceae). *Pacific Science* 57: 275-285.
174. ABBOTT I.A. & HUISMAN J.M. — New species, observations, and a list of new records of brown algae (Phaeophyceae) from the Hawaiian Islands. *Phycological Research* 51: 173-185.

175. HUISMAN J.M., SHERWOOD A.R. & ABBOTT I.A. — Morphology, reproduction, and the 18s rRNA gene sequence of *Pihiella liagoraciphila* gen. et sp. nov., (Rhodophyta), the so-called “monosporangial discs” associated with members of the Liagoraceae (Rhodophyta), and proposal of the Pihiellales ord. nov. *Journal of Phycology* 39: 978-987.
176. ABBOTT I.A. & HUISMAN J.M. — The Liagoraceae (Nemaliales, Rhodophyta) of the Hawaiian Islands II: The species of *Liagora* with quadripartite carposporangia, including descriptions of *L. donaldiana* sp. nov. and *L. julieae* sp. nov. *Phycologia* 42: 594-605.
177. HUISMAN J.M. & ABBOTT I.A. — The Liagoraceae (Nemaliales, Rhodophyta) of the Hawaiian Islands IV: the species of *Liagora* described by Butters (1911). *Cryptogamie, Algologie* 24: 323-332.
178. KRAFT G.T. & ABBOTT I.A. — *Hydroclathrus* (Scytosiphonaceae, Phaeophyceae): Conspectus of the genus and proposal of new species from Australia and Hawaii. *Phycological Research* 51: 244-258.

2004

179. VROOM P.S. & ABBOTT I.A. — *Acrosymphyton brainardii* sp. nov. (Gigartinales, Rhodophyta) from French Frigate Shoals, northwestern Hawaiian Islands. *Phycologia* 43: 68-74.
180. ABBOTT I.A. & HUISMAN J.M. — *Marine Green and Brown Algae of the Hawaiian Islands*. Honolulu, Bishop Museum Press, xi + 260 p.
181. ABBOTT I.A., HARE, J.C. & HUISMAN J.M. — [The genus] *Padina* Adanson. In: Abbott I.A. & Huisman J.M., *Marine Green and Brown Algae of the Hawaiian Islands*. Honolulu, Bishop Museum Press, pp. 211-221.
182. ABBOTT I.A. & HOYLE, M.D. — [The genus] *Dictyota* Lamouroux. In: Abbott I.A. & Huisman J.M., *Marine Green and Brown Algae of the Hawaiian Islands*. Honolulu, Bishop Museum Press, pp. 199-208.
183. ABBOTT I.A. & MCDERMID K.J. (eds) — *Taxonomy of Economic Seaweeds with reference to the Pacific and other locations*. Volume IX. Honolulu, Hawaii Sea Grant College Program, University of Hawaii, xxii + 281p.
184. ABBOTT I.A. — Introduction(s). In: Abbott I.A. & McDermid K.A. (eds), *Taxonomy of Economic Seaweeds with reference to the Pacific and other locations*. Volume IX. Honolulu, Hawaii Sea Grant College Program, University of Hawaii, pp. 1-2 [Defining current taxonomy], pp. 19-20 [Caulerpales], pp. 39-40 [*Dictyota* and *Sargassum* ...], pp. 107-108 [Gelidiales]; pp. 131-132 [*Hypnea*], pp. 141-142 [*Halymenia* ... generitype], pp. 157-158 [*Gracilaria*], pp. 253-254 [*Laurencia*].
185. KRAFT G.T., SAUNDERS G.W., ABBOTT I.A. & HAROUN R.J. — A uniquely calcified brown alga from Hawaii: *Newhousia imbricata* gen. et sp. nov. (Dictyotales, Phaeophyceae). *Journal of Phycology* 40: 383-394.
186. HUISMAN J.M., ABBOTT I.A. & SHERWOOD A.R. — The Liagoraceae (Nemaliales, Rhodophyta) of the Hawaiian Islands III: The genus *Ganonema*, with a description of *Ganonema yoshizakii* sp. nov. *Phycologia* 43: 296-310.
187. VROOM P.S. & ABBOTT I.A. — *Scinaia huismanii* sp. nov. (Nemaliales, Rhodophyta): an addition to the exploration of the marine algae of the northwestern Hawaiian Islands. *Phycologia* 43: 445-454.
188. HUISMAN J.M., ABBOTT I.A. & SHERWOOD A.R. — Large subunit rDNA gene sequences and reproductive morphology reveal *Stenopeltis* as a member of the Liagoraceae, with a description of *Akalaphycus* gen. nov. *European Journal of Phycology* 39: 257-272.
189. HUISMAN J.M., SHERWOOD A.R. & ABBOTT I.A. — Studies of Hawaiian Galaxauraceae (Nemaliales, Rhodophyta): Large subunit rDNA gene sequences support conspecificity of *Galaxaura rugosa* and *G. subverticillata*. *Cryptogamie, Algologie* 25.

Eponymy

Generic names based on surname "Abbott" and given name "Isabella"

- Abbottella* Hollenberg, in HOLLENBERG G.J., 1967 — New genera in the Rhodomeleaceae from the Central Pacific. *Bulletin of the Southern California Academy of Sciences* 66: 201-221.
- Abbotia* Perestenko, in: PERESTENKO L.P., 1975 — Krasnye vodorosli dal'nevostochnykh morej SSSR. Plastinchatye kriptonemiyeve vodorosli [The red algae of the Far-eastern Seas of the USSR. Foliose Cryptonemiacean algae]. *Botaničeskij Žurnal SSSR* 60: 1676-1689 [in Russian]. [non *Abbotia* Rafinesque 1836].
- Abbottia* Perestenko, in: PERESTENKO L.P., 1977 — *Botaničeskij Žurnal SSSR* 62(3): 398. [non *Abbottia* F. von Mueller 1875].
- Abbottea* Perestenko, in: PERESTENKO L.P., 1977 — *Botaničeskij Žurnal SSSR* 62(7): inside back cover.
- Izziella* Doty, in: DOTY M.S., 1978 — *Izziella abbottiae*, a new genus and species among the gelatinous Rhodophyta. *Phycologia* 17: 33-39.
- Isabbottia* Balakrishnan, in: BALAKRISHNAN M.S., 1980 — Taxonomic studies on U.S. Pacific Cryptonemiaceae I. Two new genera: *Isabbottia* and *Norrissia*. In: DESIKACHARY T.V. & RAJA RAO V.N. (eds) *Taxonomy of Algae*: 273-286.
- Neoabbottiella* Perestenko, in: PERESTENKO L.P., 1982 — *Novosti Sistematiki Nizšh Rastenji (Akademija Nauk SSSR, Botaničeskij Institut im. V.L. Komarova. Novitates Systematicae Plantarum non Vascularium)* 19: 30 [published as a substitute name for *Abbotia* Perestenko 1975]

Species names based on surname "Abbott" and given name "Isabella"

- Liagora abbottiae* ["*abbottae*"] Dawson, in: DAWSON E.Y., 1953 — Marine red algae of Pacific Mexico. Part 1: Bangiales to Corallinaceae subf. Corallinoidea. *Allan Hancock Pacific Expeditions* 17: 1-239.
- Ischadites abbottiae* ["*abbottae*"] Nitecki, in: NITECKI M.H., 1971 — *Ischadites abbottiae*, a new North American Silurian species (Dasycladales). *Phycologia* 10: 263-275.
- Porphyra abbottiae* ["*abbottae*"] Krishnamurthy, in: KRISHNAMURTHY V., 1972 — A revision of the species of the algal genus *Porphyra* occurring on the Pacific coast of North America. *Pacific Science* 26: 24-49.
- Gracilaria abbottiana* Hoyle, in: HOYLE M.D., 1978 — *Gracilaria abbottiana* sp. nov. (Rhodophyta, Gigartinales): a second intertidal species of *Gracilaria* from the island of Oahu, Hawaii. *Phycologia* 17: 299-303.
- Platoma abbottiana* J. Norris et Bucher, in: NORRIS J.N. & BUCHER K.E., 1977 — The genus *Platoma* (Gigartinales, Rhodophyta) with a description of *P. abbottiana* sp. nov. *Journal of Phycology* 13: 155-162.
- Izziella abbottiae* ["*abbottae*"] Doty, in: DOTY M.S., 1978 — *Izziella abbottiae*, a new genus and species among the gelatinous Rhodophyta. *Phycologia* 17: 33-39.
- Dotyophycus abbottiae* Kraft, in: KRAFT G.T., 1988 — *Dotyophycus abbottiae* (Nemaliales), a new red algal species from Western Australia. *Phycologia* 27: 131-141.
- Gelidium abbottiorum* R.Norris, in: NORRIS R.E., 1990 — A critique on the taxonomy of an important agarophyte, *Gelidium amansii*. *Japanese Journal of Phycology* 38: 35-42.
- Udotea abbottiorum* D.S.Littler et M.M.Littler, in: LITTLER D.S. & LITTLER M.M., 1990 — Systematics of *Udotea* species (Bryopsidales, Chlorophyta) in the tropical western Atlantic. *Phycologia* 29: 206-252. [Named jointly for I.A.Abbott and D.P.Abbott.]
- Dermonema abbottiae* Afaq-Husain, Nizamuddin et Shameel, in: AFAQ-HUSAIN S., NIZAMUDDIN M. & SHAMEEL M., 1991 — The structure and reproduction of a new taxon *Dermonema abbottiae* (Nemaliales-Rhodophyta) from the coast of Pakistan. *Pakistan Journal of Scientific and Industrial Research* 34: 75-82.
- Liagora izziae* Huisman, in: HUISMAN J.M., 2002 — The type and Australian species of the red algal genera *Liagora* and *Ganonema* (Liagoraceae, Nemaliales). *Australian Systematic Botany* 15: 773-838.

Dudresnaya abbotiae Afonso-Carillo *et* Tabares, *in*: AFONSO-CARILLO J. & TABARES N., 2004 — *Dudresnaya abbotiae* sp. nov. (Dumontiaceae) a new gelatinous ephemeral spring annual red alga from the Canary Islands. *Cryptogamie, Algologie* 25: 275-290.

Imminent Eponymy

Note: these names are proposed in papers accepted for publication in the next edition of *Cryptogamie, Algologie*.

Taonia abbotiae D.S.Littler *et* M.M.Littler, *in*: LITTLER D.S. & LITTLER M.M., 2004 — *Taonia abbotiae* sp. nov. (Dictyotales, Phaeophyta) from the tropical western Atlantic. *Cryptogamie, Algologie* 25.

Dasya abbotiana Ballantine *et* Aponte *in*: BALLANTINE D.L. & APONTE N.E., 2004 — *Dasya abbotiana* sp. nov. (Dasyaceae, Rhodophyta) from Puerto Rico, Caribbean Sea. *Cryptogamie, Algologie* 25.

Gracilaria flabelliformis subsp. *aionae* Gurgel, Fredericq *et* J. Norris, and *Gracilaria isabellae* Gurgel, Fredericq *et* J. Norris *in*: GÜRGEL C.F.D, FREDERICQ S. & NORRIS J.N., 2004 — *Gracilaria flabelliformis* and *G. apiculata* (Gracilariaceae, Rhodophyta): restoring old names for common tropical western Atlantic species, including the recognition of three new subspecies, and a replacement name for "*G. lacinulata*". *Cryptogamie, Algologie* 25.