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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

February 4, 1958

Dr. Richard A. Howard, Director
The Arnold Arboretum
22 Divinity Avenue
Cambridge 38, Mass.

Dear Dick:

Many thanks for your kind comments on Dorothy's drawing of Luehea candida. This was done from fresh material here in the valley, where it is one of our commonest trees below the pine-oak zone.

We believe that our herbarium has the best collection (some 85,000 sheets) of Central American plants outside the United States, but it has fallen on unfortunate times since Dr. Popenoe's retirement. Dr. Paddock, our new Director has no interest in the natural sciences and the herbarium staff has been cut from three very competent full time men (Standley, Williams and Molina) to Molina alone, who administers herbarium affairs in such time as he can salvage from his regular chores of teaching and supervising the school's athletic activities. My own association with the herbarium is completely unofficial and is largely limited to nights and week ends.

One result of this change has been that the Director prefers not to loan specimens, since he feels that interested individuals should be prepared to come here for such work. While it is highly likely that this rule will be modified in time we can't do much about it at present. About the best that I can offer at the moment is a list of what we have on file in the genus Coccoloba and hope that you already are in possession of duplicates or can come by them in St. Louis or Chicago. This, by the way, is more than likely, since we have been in the practice of sending duplicates to both places, and most of our extraneous material not collected by members of our own staff represents extras or Kleptotypes from Chicago.

The history of the two by now infamous Coccolobas (roseiflora and Standleyana) cited in my Costarican opus is a horse of a different collar. These I concluded might be new on the basis of my inability to match them with anything in Washington, St. Louis or Chicago, but since I seldom feel very happy about such things they were turned over to Lou Williams for final action with the urgent request that some decision be reached before the book went to press. One of these was given a herbarium name (roseiflora) but never described, while the other was simply pigeonholed in the undets. So matters stood when funds became available for publication and I was forced to take some sort of action. Since Williams had proposed the name of roseiflora I couldn't simply pirate it and hoped up to the last

that he or Standley would describe it or both in Ceiba. This was not done due to a difference of opinion that existed between Standley and Williams at the time, which consisted principally in the lack of a Latin description, which would, of course have had to come from Standley. What is to become of this, or for that matter the five or six other things in the same category I have no idea. Coccoloba standleyana, and a few others that had not been given herbarium names I decided to take upon myself, with some misgivings, simply because I didn't have any alternative.

I hardly know what to say about Botanic Gardens and Arboreta from Mexico south to Panama. If your stipulation that the plants be labelled is adhered to strictly we may fairly safely say that there is only one, that of Lancetilla, in Honduras. Collections in which someone or other has a fair idea as to the identity of at least the conspicuous things would be much more numerous but still for practical purposes might be restricted to Summit Gardens in the Canal Zone, the Esquinas Station near Palmar, in Costa Rica, perhaps Turrialba, in Costa Rica, very dubiously San Pedro Montes de Oca, in San Jose, El Recreo and Cukra Hill in Nicaragua, Santa Tecla in Salvador, perhaps our own campus here at the EAP, but that would be interpreting the term pretty broadly. Both Summit and Lancetilla are GOOD collections, but only the latter has any percentage of the plants named.

In reading over most of the above it sounds hopelessly long winded for the shed of information contained, but perhaps you can make something of it.

With most sincere regards,

Paul H. Allen

List of *Coccoloba* specimens on file in the herbarium of the Escuela Agrícola Panamericana. (Duplicates of those collected by members of our staff are presumed to be in Chicago, St. Louis and Washington, and those that we have from other collectors are presumed to be duplicates sent us from Chicago or Washington.)

- Coccoloba* sp. Dodge, Steyermark & Allen 16983 - Panama
- C. acapulcensis* Standl. Palmer 399 - Mexico
- C. acuminata* HBK Molina 2136 - Nicaragua
- " Shank & Molina 4661 - Nicaragua
- " Shank & Molina 4658 - "
- " Molina 2109 - Nicaragua
- " Standley 19657 - Nicaragua
- " Allen 5226 - Costa Rica
- " Smith 175 & 233 - Nicaragua
- " Williams & Molina 12485 - Honduras
- " Standley 7771 - Honduras
- " Standley & Chacon 7556 - Honduras
- " Muenscher 16254 - Panama
- " Molina 3417 - Honduras
- C. Allenii* Lundell - Allen 2181 - Panama
- C. belizensis* Standl. - Molina 2509 - Nicaragua
- C. Browniana* Standl. - Standley & Chacon 5216 & 6012 - Honduras
- " Valerio 2374 - Honduras
- " " 2616 - "
- C. caracasana* Meissn. - Leon 3140 - Costa Rica
- " Solis 580 - Costa Rica
- " Matuda 17704 - Mexico
- " Johnston s.n. - Guatemala
- " Standley & Padilla 3702 - Salvador
- " Williams 9618 - Salvador
- " Carlson 1031 - Salvador
- " Standley 9305 - & 11334 - Nicaragua
- C. changuinolana* Standl. - Allen 3655 - Panama
- C. colonensis* Lundell - von Hagen 1401 - Honduras
- C. corozalensis* Lundell - Gentle 4908 - Brit. Hond.
- C. cozumelensis* Hemsl. - Gentle 524 - Brit. Hond.
- C. escuintlensis* Lundell - Standley 89302 - Guatemala
- " Matuda 4143 & 17410 - Mexico
- C. floribunda* (Benth.) Lindau - Williams & Molina 15002 - Honduras
- " Matuda 16741 - Mexico
- " Valerio 3299 - Honduras
- " Standley 27272 - Honduras
- " Molina 1799, 5893 & 5904 - Honduras
- " Standley 24311 - Honduras
- " Standley 9220 & 20392 - Nicaragua
- " Tucker 896 - Salvador
- " Hernandez 13 - Nicaragua
- " Allen 1857 - Panama
- " Standley & Padilla 3297 - Salvador
- C. fluviatilis* Lundell - Matuda 4517 - Mexico
- C. hirsuta* Standl. - Standley 7971 - Honduras
- C. hondurensis* Lundell - Gentle 4464 & 4491 - Brit. Hond.
- C. jurgensenii* Lindau - Ramirez 8 - Mexico
- C. laurifolia* Jacq. - Lundell 4945 - Brit. Hond.
- C. leptostachya* Benth. - Aviles 15 - Panama
- " Allen 1701 & 5020 - Panama
- C. manzanillensis* Beurl. - Allen 1111 - Panama

Coccoloba specimens in EAP herbarium

- C. mayana Lundell - Steyermark 47807 - Guatemala
" " Matuda 15948 - Mexico
C. molinae Standl. & L. Wms. - Standley 19600 - Nicaragua
" " Molina 2291 - Nicaragua
C. montana Standl. - Standley 86964 - Guatemala
C. nematostachya (Griseb.) Lindau - Allen 3450 - Panama
" " Reark 747 - Costa Rica
C. nicaraguensis Standl. & L. Wms. - Standley 10409 -9768-10233-
10194 - Nicaragua
C. padiformis Meissn. - Tonduz 7120 - Costa Rica
C. petrophila Brandeg. - Purpus 8872 - Mexico
C. reflexiflora Standl. - Stevenson 3 - (Or Forestry Dept 17) Br.
Hond.
" " Becker 2 - Honduras
C. roseiflora Standley & L. Wms. - Allen 5944 & 5964 - Costa Rica
C. riparia Lundell - Allen 2229 - Panama
C. schiedeana Lindau - Matuda 17517 - Mexico
" " Lundell 3995 - Brit. Hond.
" " Standley & Padilla 2615 - Salvador
" " Carlson 563 - Salvador
C. schippii Lundell - Schipp 5687 - Brit. Hond.
C. spicata Lundell - Steyermark 46040 - Guatemala
" " Lundell 7325 - Mexico
C. standleyana P. H. Allen - Allen 6645 - Costa Rica
C. steyermarkii Standl. - Steyermark 39404 - Guatemala
C. tuerckheimii D. Sm. - Standley 19299 - Nicaragua
" " Tuerckheim 8493 - Guatemala
" " Leon 2770 - Costa Rica
" " Lankester 1633 - Costa Rica
" " Gentle 4496 - Brit. Hond.
" " Steyermark 39552 - Guatemala
C. uvifera (L.) Jacq. - Shank & Molina 4365 - Costa Rica
" " Wickham s.n. - Bahamas
" " Gaumer 638 - Mexico
" " Molina 1821 - Nicaragua
" " Standley & Chacon 5486 - Honduras
C. wercklei Standl. - Echandi s.n. - Costa Rica
" " Brenes 21872 - Costa Rica

THE ARNOLD ARBORETUM
HARVARD UNIVERSITY
JAMAICA PLAIN — CAMBRIDGE — WESTON
MASSACHUSETTS, U. S. A.



22 Divinity Avenue
Cambridge 38, Mass.

January 29, 1958

Mr. Paul Allen
Escuela Agricola Pan Americana
Tegucigalpa, Honduras

Dear Paul:

This letter has several purposes, one of which is to thank you for the very beautiful Christmas card which Dorothy sketched and which arrived during my recent visit to Jamaica. I know Luehea candida under cultivation in Cuba and the sketch you used on the card is really an excellent interpretation of the plant.

I have finally finished the genus Coccoloba in the West Indies and would like to drop the group completely, except that some time ago I promised Bob Woodson I would tackle the representatives in Panama. I was beginning to run into trouble in the Lesser Antilles, encountering species which ranged from Grenada through Panama and now, when looking more seriously at the distribution of species in the Central American area, I realize that the study is going to be more of a task than I had anticipated. I regret that I do not have personal experience with the majority of the species in the area, as I do have in the Caribbean Islands. Another purpose in my writing, therefore, is to ask whether I may borrow the Coccoloba material that you have in your herbarium at the school. If this is possible, I would appreciate it if it could be sent to Dr. C. E. Kobuski, Curator of the Herbarium. I am, of course, anxious to have and see the type of Coccoloba stanleyana which you published in the Rain Forests of Golfo Dulce. Incidentally, I have been unable to find the reference to the place of publication of C. roseiflora, credited by you to Stanley and L. Williams. I have already written to Julian Styermark, asking for the material from the Field Museum, and if you feel that the majority of the collections you have at the school are already represented in the herbarium at the Field Museum, it is not necessary to send such duplications. I will, of course, send you a list of the materials I have already seen. You may send the material at your convenience and I will try to annotate and return it as quickly as possible.

- C. Coloradoensis Kunth - ²Sanitke - 4908 - BR. Honduras.
- C. Coloradoensis Haussk. - " 524 BR. Honduras.
- C. ESCUENTENSIS Kunth - Stanth. 89302 - Guat.,
MATUDA 17410 - Mex., 4143 -
- " " " " - 15564 - 16721
- C. FLORIBONDA (Benth.) Lindau - Nuss. 97000 15002 - Honduras,
MATUDA - 16741 - Mex.,
Vigario ~~matuda~~ 3299 - Honduras.
- " " Stanth. - 27272 - Honduras.
- " " 77000 1799 - Honduras. 5904 - 5893
- " " Stanth. 24311 - Honduras.
- " " Stanth. 9220 - Nic., 20392
- " " Tockel 896 - Saru.
- " " Herkmeyer - 13 - Nic.
- " " 77000 5904 - Honduras.
- X " " ~~Stanth~~ Allen 1857 - Pan.
- " " Stanth & Proilla 3297 - Saru.
- C. FLUVIATILIS Kunth - Matuda 4517 - Mex.
- C. GUSATA Stanth Stanth 7971 - Honduras. 4491
- C. HONDURANSIS Kunth - Benth. 4464 Stanth.
- C. JORDANSENII Lindau - Ramirez - S - Mex.
- C. LAURITZKEA Jacq. - Lindau - 4945 - BR. Honduras.
- X C. LYGTOSTACHYA Benth. - Aviles 15 - Pan. 5020
- X " " Allen 1701 - Pan.
- X " " " " 2542
- X " MEXICANA Kunth - Allen 1111 - Pan.
- " MAYANA Kunth - Styermark 47807 - Guat.
- " " MATUDA 15944 - Mex.
- " " MONTANA Stanth & L. Wess. - Stanth. 19600 - Nic.
- " " MONTANA Stanth - Stanth. 86964 - Guat. 2602
- X " NEMATOSTACHYA (Griseb.) Lindau - Allen 3450 - Pan.
- " " REAR 747 - CR. 9768 - 10233 - 10194
- " " NEARAVENSIS Stanth & L. Wess. - Stanth. 10409 - Nic.
- " " PAIROFORMIS Meissn. - Yonduz 7120 - CR.
- " PETROPHILA Brandegee - Jurgus 8872 - Mex.

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Mr. Paul Allen

January 29, 1958

Finally, I wonder if I can ask one other favor. There is in preparation a new edition of "The Arboretums and Botanical Gardens of North America" which was published by Chronica Botanica and while will be re-issued in a new edition by the American Association of Botanical Gardens and Arboreta. Don Wyman would like to have a list of the arboreta and botanical gardens of Mexico and Central America. I wonder if you can help out with the names and locations of those North of the Canal up to southern Mexico. The definition of a botanical garden is a garden open to the public and, most important, having plants which are labelled. If you could quickly pull together a list of such gardens, we would indeed be grateful for it.

As I write this, the snow continues to accumulate outside and I just hope that you fully realize how fortunate you are to be down in a warmer environment. During my work in Jamaica we still suffered the effects of the storm which brought freezing weather to southern Florida. Next winter I'll have to go a bit further South. My regards to Dorothy and of course my best to you.

Sincerely,

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Richard A. Howard
Director

RAH/sw

X *Coecobola* sp. - UNDET. - Panama - M.B.D. Herb. POPPE, Steyermark & Alkan 16983

C. acylocheensis Standl. - Panama 399 - Mex.

C. acuminata HBK. - Mochina 2136 - Nic.
Stank & Mochina 4661 - Nic.

" " " " 4658 - Nic.

" " " " 2109 Nic.

" " Stanokay 19659 - Nic.

" " Alkan 5226 - CR.

" " Smith 233 & 125 - Nic.

" " Voss & Mochina 12485 - Hond.

" " Stanokay 7991 - Hond.

" " Stanokay & Chacon - 7556 - Hond.

X " " Munchschlag 16254 - Pan.
Mochina 3417 - Hond.

X *Coecobola Allanii* Lundell - Alkan 2181 - Pan.

C. Belizeensis Standl. - Mochina - 2509 - (Nic.)

C. Browniana Standl. - Standl. & Chacon - 5216 - Hond.
Valerio 2394 - Hond.

" " " " 2616 - "

~~" " " " Stanokay & Chacon -~~

C. CARACASANA Meissn. - Leon - 3140 - CR.

" " Schis 580 - CR.)

" " MATURA 17204 - Nic. 17516

" " Johnston, S.V. - DUT.

" " Stanokay & Jovilla 3702 - S.H.O.

" " Wilkins 9618 - S.H.O.

" " Carlson 1031 - S.H.O. 11334

" " Stanokay 9305 - Nic.

X *C. CHANOUNOLANA* Standl. - Alkan 3655 - Pan.

C. COLONENSIS Lundell - Von Haaren - 1401 - Hond.