

SUPPLEMENTARY NOTES ON THE AMERICAN SPECIES

OF STRYCHNOS. XX.

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In Supplementary Notes on the American Species of *Strychnos* XVII I stated that for routine identification of *Strychnos*, two papers are needed: , American Species of *Strychnos* published in *Lloydia* 35: 193-271. 1972 and the Supplement #17 published in *Phytologia* 41: 201-238. 1979. In the present paper I will summarize new information from Supplements #18, 19, and 20, in connection with which 262 new collections were examined.

1) New Species and where they are expected

Only *S. davidsei* was described as new. Up to date it was found in Venezuela (Apur ) but is to be expected in Federal District, Lara, Sucre, and Amazonas from where we have only sterile material. I have nothing new to add to the description of regions where new species are expected to occur.

2) Extensions of Range

3. *S. colombiensis* has been collected for the first time in Vaupes, Colombia, 6. *S. rondeletioides* in Amazonas, Venezuela, 9. *S. araguaensis* in Piauh , Brazil, 10. *S. brachiata* in Barinas, Venezuela, 12. *S. panamensis* in Jalisco, Mexico, 14. *S. divaricans* in Bahia, Brazil, 19. *S. toxifera* in Los R os, Ecuador, 31. *S. peckii* in Panama, Panama, 35. *S. bredemeyeri* in Apure, Venezuela, 36a. *S. mitscherlichii* var *mitscherlichii* in Antioquia and Bolivar, Colombia, 38. *S. darienensis* in Delta Amacuro and Amazonas, Venezuela, 39. *S. guianensis* in Apure, Venezuela and in Beni, Bolivia, 45. *S. duckei* in Acre, Brazil, 47. *S. cogens* in Beni, Bolivia, 49. *S. parviflora* in Mato Grosso, Brazil, 61. *S. pachycarpa* in Choco, Colombia and in Surinam, 63. *S. brachistantha* in Chiapas, Mexico, 65. *S. mattogrossensis* in Apure, Venezuela, 70. *S. tarapotensis* in Apure, Venezuela and in Mato Grosso, Brazil, and 71. *S. schunkei* in Los R os, Ecuador.

3) Corrections of range of Species

19. *S. toxifera* is not found in Bahia, Brazil, 20. *S. tomentosa* not in Venezuela, 33. *S. gardneri* not in Maranh o, Brazil, and 25. *S. pseudo-quina* not in Bahia, Brazil.

4) Second Collections of Species

17. S. krukoffiana, 30. S. lobelioides (first collection of fruit), 38a. S. ecuadoriensis (first collection of flowers), 45. S. duckei (first collection of fruit), 71. S. schunkei (first collection of fruit).

5) Important collections covered in Supplements #18, 19, and 20

There are three important collections: a. by Robin Foster in Madre de Dios, Peru. This has many new records and suggests what is to be expected in the way of Strychnos in neighboring Bolivia and Brazil; this region was extensively collected later by Al Gentry and his collectors; b. by G. Davidse in previously uncollected Apure, Venezuela; and c. by Al Gentry and others in Choco, Colombia.

6) New chemical studies by Prof. Marini-Bettolo on Samples supplied by B. A. Krukoff and referred to in Supplement #19.

5. S. romeu-belenii - p. 65, 24. S. jobertiana - p. 68, 28. S. solimoesana - p. 69, 32. S. erichsonii - p. 69, 33. S. gardneri - p. 70, 46. S. hirsuta - p. 71, 53. S. fendleri - p. 71, 55. S. rubiginosa - p. 71, 56. S. parvifolia - p. 72, and 57a. S. recognita - p. 72.

This paper is the third which is recommended for routine work on the genus.

6. Strychnos rondeletoides Spruce ex Bentham, Jour. Linn. Soc. 1: 104. 1856.

Peru: Loreto: Maynas, C. Diaz 436, Al. Gentry 25372, 26201.

13. Strychnos tabascana Sprague & Sandwith, Kew Bull. 1927: 128. 1927.

Mexico: Veracruz; Los Tuxtlas, R. Cedillo T. 00205

24. Strychnos jobertiana Baillon, Adansonia. 12: 367. 1879.

Venezuela: Terr. Fed. Amazonas: 4 kms NE of San Carlos de Rio Negro, R. L. Liesner 6695. Peru: Madre de Dios: Al. Gentry 26795, 26816.

This is the first record of the species from Madre de Dios.

25. *Strychnos pseudo-quina* A. St. Hilaire, Mem. Mus. Paris 9: 340. 1822.

Brazil: Dist. Fed.: Brasilia, H. S. Irwin 33248a, E. P. Heringer 3013 (cerrado).

31. *Strychnos peckii* B. L. Robinson, Proc. Amer. Acad. 49: 504. 1913.

Peru: San Martin: Mariscal Caceres, J. Schunke V. 10013; Loreto: Maynas, Al. Gentry 25141.

32. *Strychnos erichsonii* Richard Schomburgk, Reisen 3: 1082. 1848, nomen; ex Progel in Mart. Fl. Bras. 6(1): 274. 1868.

Venezuela: Terr. Fed. Amazonas: R. Liesner 7000, 7155. Brazil: Maranhão: Turiacu (basin of Rio Maracaçume), N. A. Rosa 2774.

This is the first record of the species from Terr. Fed. Amazonas, Venezuela.

35. *Strychnos bredemeyeri* (Schultes) Sprague & Sandwith, Kew Bull. 1927: 128. 1927.

Venezuela: Amazonas: near Casiquiare, B. Liesner 8541, 8904. Brazil: Amazonas: Manaus--São Gabriel, Lucia Alencar 375.

- 36a. *Strychnos mitscherlichii* Richard Schomburgk, Reisen 2: 451. 1848, var. mitscherlichii.

Peru: Loreto: Maynas, Al. Gentry 25855, 26089.

38. *Strychnos darienensis* Seemann, Bot. Voy. Herald 166. 1854.

Peru: G. Weisa 118; Loreto: Maynas, Franklin Ayala 704, Al. Gentry 25786, J. Schunke 10136.

39. *Strychnos guianensis* (Aublet) Martius, Syst. Mart. Med. Bras. 121. 1843.

Venezuela: Terr. Fed. Amazonas: R. L. Liesner 6474, 6535, 7428, 7467, 8636, 8805. Brazil: J. M. Poole 1608; Amazonas: Manaus--São Gabriel, Lucia Alencar 361. Peru: Loreto: Maynas, Al. Gentry 18471, 24922, 25114, 26207, M. E. Mathias 5434 (F), Juan Revilla 1891, C. Diaz 435.

41. *Strychnos subcordata* Spruce ex Bentham, Jour. Linn. Soc. 1: 106. 1856.

- Peru: Loreto: Río Nanay, Ll. Williams 863 (F).
43. Strychnos panurensis Sprague & Sandwith, Kew Bull. 1927: 132. 1927.
- Peru: Loreto: Maynas, R. Ramírez C. 16; Al. Gentry 25118, 25191; Madre de Dios: Al. Gentry 26900.
- This is the first record of the species from Madre de Dios.
48. Strychnos melinoniana Baillon, Bull. Soc. Linn. Paris 1: 256. 1880.
- French Guiana: Saul, de Granville 3393.
53. Strychnos fendleri Sprague & Sandwith, Kew Bull. 1927: 129. 1927.
- Venezuela: Sucre: alt. 40-80 m, J. Steyermark 108651;
Falcon: T. Ruiz Z. 2531.
54. Strychnos atlantica Krukoff & Barneby, Mem. NY Bot. Gard. 20(1): 61. 1969.
- Brazil: Bahia: mun. Caetete, S. Mori 13486.
55. Strychnos rubiginosa A. DeCandolle in DeCandolle Prodr. 9: 16. 1845.
- Brazil: Mato Grosso: M. Macedo 540 (INPA).
56. Strychnos parvifolia A. DeCandolle in DeCandolle Prodr. 9: 16. 1845.
- Brazil: Maranhão: N. A. Rosa 2536, 2958.
59. Strychnos brasiliensis (Sprengel) Martius, Flora 24 (Beibl. 2): 84. 1841.
- Argentina: Misiones: Frontera, J. E. Montes 7118 (F).
64. Strychnos nigricans Progel in Mart. Fl. Bras. 6(1): 280. 1868.
- Brazil: Minas Geraes: W. R. Anderson 9228.
70. Strychnos tarapotensis Sprague & Sandwith, Kew Bull. 1927: 131. 1927.
- Peru: Madre de Dios: Al. Gentry 27236.

Bibliography

(In order to conserve space, I am citing here only the papers which are not cited in Suppl. VII -XVIII).

1. Krukoff, B. A., Supplementary notes on the American species of Strychnos. XIX. *Phytologia*: 46: 74. 1980.
2. Marini-Bettolo, C. B. et al. On the Alkaloids of Strychnos. XXXII. The alkaloids of Strychnos fendleri Sprague & Sandwith. *Gazetta, Chimica Italiana* 110: 81-85. 1980.
3. " " " " " . On the Alkaloids of Strychnos XXXV. The occurrence of akagerine in South American Strychnos. *Jour. Nat. Products* 43: 717-720. 1980.

List of Exsiccatae

The first list of Exsiccatae covering papers on Strychnos, including Supplement XI, was published in Lloydia 35 (3): 262-270. 1972, the second covering Supplements XII, XIII, and XIV in Phytologia 33: 319-322. 1976, the third covering Supplements XV and XVI in Phytologia 39: 281-282. 1978, the fourth list covering Supplement XVII in Phytologia 41: 237-238. 1979, the fifth list covering Supplement XVIII in Phytologia 44: 9. 1979, the sixth list covering Supplement XIX in Phytologia 46: 75. 1980. The present list covers Supplement XX. Only numbered collections and those of which the dates of collection are recorded have been listed. Collections identified with doubt are not listed. If a collector gathered his collection together with others, only his name is cited in this list. Collections with Prance's numbers are cited under Prance.

Alencar, Lucia, 361 (39), 375 (35)

Anderson, W. R., 9228 (64)

Ayala, Franklin, 704 (38)

Cedillo, T. R., 00205 (13)

Diaz, C., 435 (39), 436 (6)

Gentry, A., 18471 (39), 24922 (39), 25114 (39), 25118 (43),
25141 (31), 25191 (43), 25372 (6), 25786 (38), 25855 (36a),
26089 (36a), 26201 (6), 26207 (39), 26795 (24), 26816 (24),
26900 (43), 27236 (70)

de Granville, 3393 (48)

Heringer, E. P., 3013 (25)

Irwin, H. S., 33248a (25)

Liesner, R. L., 6474 (39), 6535 (39), 6695 (24), 7000 (32),
3155 (32), 7428 (39), 7467 (39), 8541 (35), 8636 (39),
8805 (39), 8904 (35)

Macedo, M., 540 (55)

Mathias, M. E., 5434 (59)

Montes, J. E., 7118 (59)

Mori, S., 13486

Poole, J. M., 1608 (39)

Ramírez, R. C., 16 (43)

Revilla, Juan, 1891 (39)

Rosa, N. A., 2536 (56), 2774 (32), 2958 (56)

Ruiz, Z. Thirza, 2531 (53)

Schunke, José, 10013 (31), 10136 (38)
Steyermark, J., 108651 (53)

Weiss, G., 118 (38)
Williams, L. L., 863 (41)