

NOTES ON THE SPECIES OF ERYTHRINA. XVII

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Erythrina Symposium IV (thirteen papers) will be published in Allertonia early in 1987. Dr. R. Barneby and I contributed two papers (Supplements # 16 and 18). The present paper is reserved for information which is best published separately.

214 new collections are cited in this paper including 6 extensions of range. No novelties are described. The especially important data are citations of specimens grown in two Botanical Gardens in Hawaii which will be under genetic and other studies. Many additional specimens of trees grown in these gardens will have to be cited in subsequent papers as plants are small and did not flower as yet.

1. Erythrina fusca Loureiro, Fl. Cochinch. 427. 1790, based on Gelala aquatica Rumphius, Herb. Amb. 2:235. tab. 78. 1750.

Waimea Arbor.: 74s99, 74s1648b (sterile), 76s262 (sterile), 77s625 (sterile),

Pac. Trop. Bot. Gard.: 721001, 740230, 760947.

Ceylon: A.H.M. Jayasuriya 1614.

2. Erythrina crista-galli L., Mant. 99. 1767.

Waimea Arbor.: 74p840, 74s887, s.n. (ex. Severo's yard 3/16-79),

Pac. Trop. Bot. Gard.: 740283.

3. Erythrina falcata Bentham in Mart., Fl. Bras. 15 (1):172. 1859.

Pac. Trop. Bot. Gard.: 750086,

Peru: Cuzco: A. Gentry 23398.

4. *Erythrina dominguezii* Hassler, Physis 6: 123. 1922.

Waimea Arbor.: 74s865 (sterile), 74s870 (sterile).

Brazil: Brasilia: E. P. Heringer 5158, 5244; Minas Gerais (near Goias): 17456; Goias: Belem-Brasilia, J. M. Pires 16147 (cerrado), E. P. Heringer 18049 (Luziania, cerrado). Bolivia: Beni: St. G. Beck 5182 (sabana).

This is the first record of this species from Minas Gerais.

5. *Erythrina ulei* Harms, Verh. Bot. Ver. Brand. 48: 172. 1907.

Brazil: Mato Grosso: basin of Rio Juruena, M. G. Silva 3267 (terra firme). Peru: Cuzco: 600 m, Al. Gentry 23657.

This is the first record of the species from Mato Grosso.

6. *Erythrina verna* Velloso, Fl. Flum. 304. 1825.

Brazil: Minas Gerais: Frutal, G. Hatschbach 34560.

7. *Erythrina poeppigiana* (Walpers) O. F. Cook, U.S. D.A. Div. Bot. Bull. 25: 57. 1901.

Waimea Arbor : 76s777 (sterile), 77s457 (sterile) .

Pac. Trop. Bot. Gard.: 730712 (sterile).

Guatemala: Such.: Chicacao. Joel Mejicanos 1981/1.
Peru: Loreto: Rio Pastasa, Camilo Diaz 1318.

8. *Erythrina suberosa* Roxburgh, Hort. Beng. 53. nomen 1814; Fl. Ind. 3: 253. 1832.

In March 1979 on a visit of India I was able to examine specimens at Calcutta (CAL) and am now able to give more complete distribution of this species: India (Punjab, Uttar Pradesh, Bihar, West Bengal, Sikkim, Orissa, Madhya Pradesh, Rajasthan, Maharastra, Tamil Nadu (=Madras), Karnatak (=Mysore); Nepal; Bhutan; Burma; Thailand (=Siam); Vietnam.

Specimens of sublobata form, formerly referred to as *E. sublobata* Roxb., were seen from Bihar and W. Bengal.

Waimea Arbor.: 75s960 .

India: Pondicheri, G.Thanikaimoni s.n. (Aug. 1981) ✓

10. Erythrina stricta Roxburgh, Hort. Beng. 53, nomen 1814;
Fl. Ind. 3: 251. 1832.

On a visit of Calcutta (CAL) I was able to see specimens of this species collected in Mizoram and Orissa (India), also in Bangladesh and in Thailand (Siam) which were not listed in any of our previous papers.

Waimea Arbor.: 74s897

11. Erythrina resupinata Roxburgh, Hort. Beng. 53. nomen 1814;
Pl. Coromandel 3: 15, pl. 220. 1819.

On a visit to Calcutta (CAL) I saw specimens of this species from Bijar (India) which are not mentioned in any of our previous papers. This species is endemic to India.

12. Erythrina arborescens Roxburgh, Hort. Beng. 53, nomen 1814;
Pl. Coromandel 3: 14, pl. 219. 1819 .

China: Kwangtung, K'tung 5774. India: G. Ghase & Co.
101/1981.

13. Erythrina subumbrans (Hasskarl) Merrill, Phillip. Sci.
5: 113. 1910.

Thailand: Chiang Mai, T. Kayama 15538. Lesser Sundra
Islands: R.E. Schmutz 4295.

15. Erythrina edulis Triana in M. Micheli, J.Bot. (Morot)
6: 145. 1892.

Columbia: Santander: La Carcova, 2380m, Reinteria
et al. 587 (MO). Peru: Amazonas: Bagua, 5900-6120 ft.,
Philip Barbour 4125.

- 15a. Erythrina aff. edulis Triana, see Annal. Miss. Bot. Gard.
66: 428. 1979.

While at F I examined five specimens from Ecuador annotated by us as E. edulis: Steyermark 52929 (from Azuay, Acosta Solís 6732, 6833 (from Bolivar), Acosta Solís 12949 (from Imbabura) and Mexia 6998 (from Tungurahua and Dwyer 9588 (U.S.) from Napo. All represent E. aff. edulis. Therefore in addition to the

provinces of Chimborazo, Cotopaxi, Tungurahua, and Napo-Pastasa, this entity is found at high elevations in Azuay, Bolívar, and Imbabura.

15b. *Erythrina megistophylla* Diels, *Biblioth. Bot.* 116: 96. 1937.

On a visit to F I examined specimens from Ecuador previously annotated by us as *E. edulis*, but now referred to *E. megistophylla*: Acosta Solis 12762, 10910 from Pinchincha, and 13957 (from Chimborazo), Mathias & Taylor 5187 (US) (from Cotopaxi), C.H. Dodson 8887, and Linda Albert de Escobar 938 (from El Oro).

The collection from Cotopaxi is a new record for this province.

16. *Erythrina speciosa* Andrews, *Bot. Repos.* 7: pl. 443. 1806.

Waimea Arbor.: 74s742, 74s853, 74s856.

Foster Gard. (Hawaii): 65-1352, 66-557, 71-906.

Pac. Trop. Bot. Gard.: 730708,

Brazil: Rio de Janeiro: Z.A. Trinta 929 (HB).

20. *Erythrina leptorhiza* Alph. DeCandolle, *Prodr.* 2: 413. 1825.

Mexico: Durango: 2000ft., D.E. Breedlove 44056.

This is the new record of this species for Durango.

22a. *Erythrina herbacea* L. subsp. *herbacea*. *Erythrina herbacea* L., *Sp. Plant.* 706. 1953 sens. str.

Waimea Arbor.: 76s187,

Foster Gard. (Hawaii): 71-911, XYZ.

22b. *Erythrina herbacea* L.:ssp. *nigrorosea* Krukoff & Barneby, *Phytologia* 25(1): 6. 1972.

Waimea Arbor.: 75c1103.

Mexico: Veracruz: Actopan; A.A. Novelo 345.

23. Erythrina standleyana Krukoff, Brittonia 3: 301. 1939.

Waimea Arbor.: 76c261, 76s1056 .

Mexico: Tabasco: Huimanguillo (110m), M. Sousa 11657.

This is a new record of this species from Tabasco.

24. Erythrina flabelliformis Kearney, Trans. New York Acad. Sci. 14: 32. 1894.

Pac. Trop. Bot. Gard.: 740160 (sterile) .

25. Erythrina coralloides Alph. DeCandolla, Prodr. 2: 413. 1825.

We quote Toledo (Lloydia 37: 486. 1974):

"Erythrina coralloides A.D.C. is one of the most ornamental trees in Mexico City, where it flowers from January to May. It is notable that most of the trees growing within the city limits (ca. 99%) fail to fruit. In the Botanical Garden of the University, a refuge for many species of hummingbirds, nearly all the trees of E. coralloides are highly fertile."

While in Mexico City in Dec. 1979, I was able to confirm this observation. Of the many hundred trees in flower, only very few were seen with fruits.

Waimea Arbor.: 75c1171.

Pac. Trop. Bot. Gard.: 700145.

26. Erythrina aff. coralloides Alph. DeCandolle.

Waimea Arbor.: 74c1451 .

27. Erythrina pudica Krukoff & Barneby, Phytologia 27: 114. 1973.

On a sheet deposited at GH (H.E. Morton Jr. 2543), I found one pod and seeds which were not seen by me previously.

The pod is tomentulose with white hair at least on the extremes, slender, and the seeds are 6 X 10 mm, partly red and partly black without a broad black line near the hilum as

in the case with its relatives.

- 28c. *Erythrina lanata* subsp. *calvescens* Krukoff, Annal. Miss. Bot. Gard. 66: 434 1979.

While at US I examined four specimen from Oaxaca, Mexico previously annotated by us as *E. lanata* ssp. *lanata*, but now referred to ssp. *calvescens*: Conzatti 4333 and 4557 from Dept. Zimallan, elev. 1100-1200m E.W. Nelson 2699 and Wallace 461.

Only two other specimens from Oaxaca annotated by us as ssp. *lanata* (McVaugh 22417) (MICH) and MacDougall s.n. (Kr. Herb. 15065) (seeds only) have not been reexamined recently. Under the circumstances ssp. *calvescens* is probably the only subspecies of *E. lanata* found in Oaxaca.

Pac. Trop. Bot. Gard.: 810188, 810189.

Mexico: Chiapas: R. Grether 1160 (Mexico); Oaxaca: M. Sousa 5893 (Jamiltepec) (MEXU), 5985 (Nochixtlan) (MEXU), 88911 (Chichotla) (MEXU), 10585 (Cucahuatpec) (MEXU), A.C. Magallanes 212 (Yautepec).

This is the first record of this species from Chiapas.

29. *Erythrina goldmanii* Standley, Contr. U. S. Nat. Herb. 20: 181. 1919.

Mexico: Oaxaca: T.B. Croat 45788 (Pinotepa Nacional-Taxiaco), 46070 (Oaxaca-Pochutla); Chiapas, Toliman (1050m), M. Sousa 11829 (?) (fruits only).

30. *Erythrina caribaea* Krukoff & Barneby, Phytologia 25: 9. 1972.

Mexico: Tabasco; Tacotalpa (125m), M. Sousa 11731; Veracruz: San Andres Tuxtla, M. Sousa 11963 (?); Oaxaca: Tuxtepec (60m), M. Sousa 11671; Campeche: John D. Shepherd s.n. (WIS).

31. *Erythrina folkersii* Krukoff & Modlenke, Phytologia 1: 286. 1938.

Pac. Trop. Bot. Gard.: 700010.

Mexico: Veracruz: Celso Hernández A. 6 (MEXU) (Cuicatlan),

J.I. Calzada 1487 (MEXU) (San Andres Tuxtla), 1721 (MEXU) (Catemaco).

35. Erythrina hondurensis Standley, Field Mus. Publ. Bot. 4:309. 1929.

Nicaragua: Zelaya: north of Bluefields, John T. Atwood 4199.

36. Erythrina chiapasana Krukoff, Brittonia 3: 304. 1939.

Waimea Arbor.: 74s861, 74s876.

Pac. Trop. Bot. Gard.: 730710.

Mexico: Chiapas: Mario Sousa 11856 (Trinitaria, 1450m), 11882 (Comitan, 1450m).

Guatemala: Huehuetenango: La Estancia, Joel Mejicanos 1981/4.

37. Erythrina atitlanensis Krukoff & Barneby, Mem. N. Y. Bot. Gard. 20(2): 162. 1970.

Waimea Arbor.: 74s98.

Pac. Trop. Bot. Gard.: 721003, 750418.

Guatemala: Solola: near Lake Atitlan, Joel Mejicanos 1981/3

40. Erythrina tajumulcensis Krukoff & Barneby, Mem. N.Y. Bot. Gard. 20(2): 176. 1970.

Waimea Arbor.: 74cl448 ,

41. Erythrina chiriquensis Krukoff, Brittonia 3:322. 1939.

Reference is made to Supplement #12 (Ann. Miss. Bot. Gard. 66: 435. 1979) concerning the difficulties encountered in extending the range of this species from Panama to Costa Rica. It is found in two provinces of Panama (23 collections from Chiriqui, all from a single locality Cerro Punta and one from Dairen.) The five Nicaraguan collections from two localities in Province Matagalpa match fairly well those from Panama. We still need, however, good fruiting specimens and collectors' observations as to whether the calyx is broadest

in the middle in fresh condition.

The difficulty in Costa Rica is that there is found a closely related *E. globocalyx*, poorly collected, mostly in the type locality in the village Los Nubes, Alajuela, from cultivated plants (possibly of a single clon).

In 1979 I thought that I would have the chance to see personally plants (including calyces) from the type locality of *E. chiriquensis* in Panama and in Matagalpa, Nicaragua. For various reasons, this will not likely happen and we still lack seeds from Matagalpa (Nicaragua) to grow in Hawaii side by side with plants from Panama.

Under the circumstances, I decided to give my present interpretation of this species as it occurs in Costa Rica. In all probability, all of the specimens cited in Supplements #3,4,5, and 12 from provinces Cartago and Alajuela (Zarcero and the neighboring Alfaro Ruiz) belong to this species.

This species should be introduced to Los Angeles as it is probably frost-tolerant.

42. *Erythrina macrophylla* Alph. DeCandolle, Prodr. 2: 411. 1825.

Waimea Arbor.: 74s97, 74s858, 75s1136.

Pac. Trop Bot. Gard.: 750420.

43. *Erythrina guatemalensis* Krukoff, Amer. Jour. Bot. 28: 688. 1941.

In the front cover of Bull. Pac. Trop. Gard. 8 (p.4): Oct. 1978 there is an excellent photograph of flowering inflorescens of *Erythrina guatemalensis*. The calices in fresh flowers are very characteristically broadest in the middle and firmly clasp petals, stamens and pistil. This is the only species with such calices found in Guatemala and Honduras. *E. steyermarkii* and *E. globocalyx* have similar calices but they are found in Costa Rica and Nicaragua.

Waimea Arbor.: 74c1453, 74s103, 74s874.

Pac Trop. Bot. Gard.: 700018, 750419.

45. Erythrina steyermarkii Krukoff & Barneby, Mem. N.Y. Bot. Gard. 20 (2): 175. 1970.

Stevens 12229 lacks leaves and fruits and its identification would be more certain if the collector had made a note on the label as to whether the calyx is broadest in the middle in fresh condition. Only three known species have such calices: E. guatemalensis which is found in Guatemala and Honduras, the poorly collected E. globocalyx so far found only in Costa Rica, and E. steyermarkii found in Costa Rica and in three provinces of Nicaragua (Zelaya, Chontales, and Matagalpa) on low lands but ascending creeks to + 800M. It is interesting to determine the limits on the Atlantic lowlands of E. hondurensis and E. steyermarkii, somewhere southeast of Tela in Honduras or on the northern Coastlands of Nicaragua. A single leaflet with characteristic pubescence underneath is sufficient to identify E. steyermarkii.

Waimea Arbor.: 76s891 (sterile).

49. Erythrina lanceolata Standley, Contr. U. S. Natl. Herb. 17: 432. 1914.

Waimea Arbor.: 75s2134 (sterile),

Nicaragua: Madriz: near border with Esteli. D.A. Neill N119, N216; Jinotega: D.A. Neill 330 (MO); 1199.

These are new records of this species from Madriz, Esteli, and Jinotega.

52. Erythrina americana Miller, Gard. Dict. ed.8, NO. 5. 1768.

Mexico: Veracruz: Papantla, Tecolutla, Dirk Zoehl 1981/101.

53. Erythrina berteroaana Urban, Symb. Ant. 5: 370. 1908.

Waimea Arbor.: 74s854, 74s860, 74s862, 74s863, 74s864, 78s564.

Pac. Trop. Bot. Gard.: 700044, 720999, 730742, 800661.

Guatemala: Such.: Chicacao, Finca El Salvador, Joel Mejicanos 1981/2. Nicaragua: Boaco: J.T. Atwood 3466, F.C. Seymour 3834; Chantalesi D.A. Neill 7299. Peru: Cuzco: Al. Gentry 23656. (cult.)

54. Erythrina rubrinervia H.B.K., Nov. Gen. & Sp. 6: 434. 1824.

Pac. Trop. Bot. Gard.: 711193.

55. Erythrina mexicana Krukoff, Brittonia 3: 309. 1939.

Mexico: Puebla: E. Perez Silva s.n. (Apr. 18, 1979) (fruits only) (MEXU).

This is the first record of this species from Puebla.

56. Erythrina salviiflora Krukoff & Barneby, Phytologia 25:14. 1972.

Waimea Arbor.: 74s859.

Pac. Trop. Bot. Gard.: 721000.

58. Erythrina gibbosa Cufodontis, Arch. Bot. Sist. Fitog. & Genet. 10: 34. 1934.

Nicaragua: Zelaya: 200-300m, W. Stevens 4798 (seedling under Stevens 4997). Costa Rica: Alajuela: Cordillera de Tilaran (Atlantic side of the Continental Divide, D. Neill 5057).

59. Erythrina amazonica Krukoff, Brittonia 3: 270. 1939.

Waimea Arbor.: 76s449.

Pac. Trop. Bot. Gard.: 760356.

Peru: Loreto: 200 m., Camilo Diaz 1400.

62. Erythrina mitis Jacquin, Hort. Schoenb. 2: 47. 1797.

Pac. Trop. Bot. Gard.: 800635.

Venezuela: Merida: A. L. Bernardi 3343 (26/6-56)

63. Erythrina pallida Britton & Rose, Bull. Torrey Bot. Club 48: 332. 1922.

Waimea Arbor.: 76s250.

Pac. Trop. Bot. Gard.: 750283.

- 64a. Erythrina corallodendrum L. var. corallodendrum
Erythrina corallodendrum L., Sp. Pl. 706. 1753.
 Waimea Arbor.: 77s552.
69. Erythrina cubensis C. Wright, Sauv. Anal. Acad. Ci.
 Habana 5: 336. 1869.
Erythrina acunae Borhidi, Acta Agron. Acad. Sc. Hung. 27.
 430. 1978.
 I have already cited the isotype of E. acunae (Acuña,
Aldin et Lopez Figueiras 5405, as E. cubensis C. Wright
 (Liogier Alain H. 5405) (Phytologia 41: 286. 1979),
71. Erythrina caffra Thunberg, Prodr. Pl. Cap. 121. 1800.
 Waimea Arbor.: 74c1456 (sterile), 76s1052 (sterile)
 (said to be pale form).
 Foster Gard.: 64-059.
 South Africa: E. Cape, A. Jacot Guillarmod 8502, s.n.
 (Aug. 1981).
72. Erythrina lysistemom Hutchinson, Bull. Misc. Inform. 1933:
 422. 1933.
 Pac. Trop. Bot. Gard.: 750279.
73. Erythrina humeana Sprengel, Syst. 3: 243. 1826.
 Waimea Arbor.: 74p1382, 74s888, 74s1382 (photo only).
 Pac. Trop. Bot. Gard.: 740187.
75. Erythrina acanthocarpa E. Meyer, Comm. Pl. Afr. Austr.
 1: 151. 1836.
 Foster Gard.: 63-280 (sterile).
77. Erythrina brucei Schweinfurth in Verhand. Zoo-Bot.
 Gesell. Wien 18: 653. 1868. et auct. plur., pro
 majore parte, leguminibus seminibusque exceptis; emend.
 Gillett, Kew Bull. 15: 428. 1962.
 Ethiopia: Addis Ababa, Nat. Herb. s.n. (March 30, 1981).

79. *Erythrina senegalensis* Alph. DeCandolle, Prodr. 2: 413. 1825.

Waimea Arbor.: 74s100.

Nigeria: Naraguta Games Preserve, Oyayomi Ofoon 338 (MO),

I quote from Killick, Fl. Pl. Africa 45 (3-4): pl. 1786.

"In tropical West Africa, *E. senegalensis* is often planted as a hedge. The flowering time of plants in their natural habitat is from September to January (autumn to winter), while the plants cultivated in Australia and South Africa flower in late autumn (May and June). In West Africa, flowers may appear together with leaves in autumn or when the trees are leafless in winter."

83. *Erythrina mendesii* Torre, Bol. Soc. Brot., Ser. 2, 39: 212. 1965.

Waimea Arbor.: 78p567.

86. *Erythrina livingstoniana* Baker, Oliver, Fl. Trop. Africa 2: 182. 1871.

Pac. Trop. Bot. Gard.: 750282 (sterile).

Malawi: A. Kitchin s.n. (Aug. 1981).

87. *Erythrina tholloniana* Hua, Bull. Soc. Linn. (Paris), n.s. 1: 53. 1878.

Pac. Trop. Bot. Gard.: 810419.

Zaire: Kisantu: N. Nsimundele s.n. (1981).

93. *Erythrina sigmoidea* Hua, Bull. Mus. Hist. Nat. (Paris) 3: 327. 1897.

Waimea Arbor.: 74s896.

94. *Erythrina latissima* E. Meyer, Comm. Pl. Afr. Austr. 1: 151. 1836.

Waimea Arbor.: 74s833 (sterile).

Pac. Trop. Bot. Gard.: 750281.

- 95 Erythrina abyssinica Lamarck, Encycl. Bot. 2: 392. 1788; ex Alph. DeCandolle Prodr. 2: 413. 1825, Gillett, Kew Bull. 15: 426. 1962.

Malawi: A. Kitchin l, s.n. (Apr 1981), s.n. (Aug 1981).

- 96 Erythrina variegata L., Herb. Amboin 10 1754; Amoen. Acad. 4: 122. 1759, based on Gelala alba Rumphius, Herb. Amboin 2: 234 tab.77. 1750.

On a visit to Calcutta (CAL) I saw specimens of this species collected in India in the following provinces: Uttar Pradesh, Tripura, Orissa, Madhya Pradesh, Maharestra, Kerala, Lakshadweep Islands, Nicobar Islands, and Anvindi Islands. These were not listed in any of our previous papers.

Waimea Arbor.: 76c183, 74s877, 74s1249, 74s1766 (white form), 74s1768, 75s1706 (sterile), 76s996 (sterile).

Pac. Trop. Bot. Gard.: 720494, 740436, 740472, 760746, 760860, 770139, 770572.

Micronesia: Neuru Ilds. F.R. Fosberg 58737a. Lesser Sundra Islands: Fr. E. Schmutz 4294. Celebes: Dr. Kauderns 401. Hawaii: cult. K. Nagata 2318, 2319.

97. Erythrina tahitensis Nadeau, Enum. Pl. Tahiti 80. 1873. Hawaii: Glen Spence s.n. (July 17 1978).

Substantial progress is made toward eventual obtaining of good flowering and fruiting material of this, for comparison with the same entity from Hawaii.

Seeds were obtained recently with the help of guide, Hanri Jai, Tahiti; Mapura + 2000 ft., steep slope W side of Tahiti. These were germinated and eventually we will grow this side by side with the same entity from Hawaii.

The specimen unfortunately is with young leaves only.

Hanri Jai claims that he knows several trees of this also on steep slopes on the east side of the island. My suggestion in the paper entitled "Notes on Asiatic-

Polynesian-Australian Species of *Erythrina*, II" published in the Journal of Arnold Arboretum, January 1972 was proved to be correct--

"It was suggested that the plant is probably extinct in Tahiti. However, taking into account its habitat, this seems to be most unlikely. The type collection is from "precipicie. de Tautana, 800 m."

For those who have correspondents in Tahiti, it is now possible to obtain a specimen provided they will get in touch with this guide.

Waimea Arbor.: 74s837 (sterile), 74s866 (sterile), 74s892 (white form), 77s50 (sterile), 77s393 (sterile from Tahiti).

Pac. Trop. Bot. Gard.: 770442 (fertile from Tahiti).

98 *Erythrina euodiphylla* Hasskarl, Hort., Bogor 178. 1858.

Pac. Trop. Bot. Gard.: 790216 (sterile)

99. *Erythrina vespertilio* Bentham in Mich. Jour. Trop. Austr. 718. 1848.

Waimea Arbor.: 74s894 ("biloba" form), 76s1057 ("biloba" form).

Foster Gard.: 64-1961 (typical form).

Pac. Trop. Bot. Gard.: 721345.

Australia: Northern Territory: J.R. Maconochie 2501;
New South Wales: R. Coveny 9932 (typical form).

102. *Erythrina velutina* Willdenow in Ges. Nat. Freunde Berlin Neue, Schriften 3: 426. 1801.

Waimea Arbor.: 74e1457 (sterile), 74s1647 (sterile), 74s1648 (sterile).

Pac. Trop. Bot. Gard.: 720492 (sterile), 740435 (sterile), 750451 (sterile).

Brazil: Bahia: E. Pereira 10093 (HB).

- 102a. Erythrina velutina Willdenow. f. aurantiaca (Ridley)
Krukoff, Brittonia 3: 329. 1939.

Waimea Arbor.: 74s1650 (sterile).

Pac. Trop. Bot. Gard.: 740452 (sterile).

104. Erythrina burttii Baker f., Jour. Bot 70: 254. 1932.

Waimea Arbor.: 74s882 (sterile).

Pac. Trop Bot Gard.: 740195 (sterile).

- 105 Erythrina burana R. Chiovenda, Att. R. Accad. Ital.,
Mem, Sc. Fis. 11: 27. 1940.

Waimea Arbor : 74s884 (sterile), 74s1649 (sterile).

Pac. Trop Bot Gard.: 740280.

106. Erythrina perrieri R. Viguier, Not. Syst. 14: 175. 1952.

Waimea Arbor.: 74s857.

Pac. Trop. Bot. Gard.: 730781, 760904 (sterile).

- 1 Erythrina x bidwillii Lindley, Bot. Reg. 33: pl. 9.
1849,

Foster Gard.: 64-2035.

- x7. Erythrina x sykesii Barneby & Krukoff, Lloydia 37: 447.
1974.

Waimea Arbor.: 75c1173, 76p864, 76p942 (sterile).

Foster Gard.: 65-1353, F1-669.

- Australia: New South Wales: R. Coveny 7658 (L),
7753 (L).

List of Exsiccatae

The first list of Exsiccatae was published in Supplement #13 (Phytologia 41: 256-300. 1979)¹; it covers all papers up to and including Supplement #11; the second list in Supplement #14 (Phytologia 44: 28-37. 1979) and it covers Supplements #12 and 13; the third list in Supplement #15 (Phytologia 46: 92-93. 1980) and it covers Supplement #15. The present list covers the present paper.

The first figure in Exsiccatae after the collector's name is the collection number of the specimen, and the figure in parenthesis is the number of species as they are arranged in conspectus of the species of the genus Erythrina (Lloydia 37 (3): 332-459. 1974 and the Supplements VII-XVIII).

Only numbered collections and those of which the dates of collections are recorded have been listed. If a collector gathered his collection together with others, only his is cited in this list. Collections with Dr. Prance's numbers are cited under Prance.

Waimea Arbor., 74c1448 (40), 74c1451 (26), 74c1453 (43),
 74c1456 (71), 74c1457 (102), 75c1103 (22b),
 75c1171 (25), 75c1173 (x7), 76c183 (96),
 76c261 (73), 74p840 (2), 76p864 (x7),
 76p942 (x7), 78p567 (83), 74p1382 (73),
 74s97 (42), 74s98 (37), 74s99 (1), 74s100 (79),
 74s103 (43), 74s742 (16), 74s837 (97),
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