



Index seminarum

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INDEX SEMINUM



University Botanical Gardens
Utrecht,
The Netherlands

No. 33 - 1991

UNIVERSITEITSBIBLIOTHEEK UTRECHT



4216 3836

University Botanic Gardens

**P.O. Box 80.162
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The Netherlands**

Index Seminar No. 33 - 1991

Staff:

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Curators' Dept.:

J. Tolsma,
Curator
L.J.W. van den Wollenberg, M.Sc.,
Curator

Educational Dept.:

J. Vos, M.Sc.,
Education officer

The gardens are located at:

- Utrecht: Fort Hoofddijk (University center)
- Doorn: Von Gimbornarboretum

Situation and climate:

52°06'N, 5°11'E

Alt.: 2m above sea level

Average rainfall: 796 mm

Mean annual maximum temperature: 31.8 °C

Mean annual minimum temperature: -11.5 °C

Introduction

With the presentation of our Index Seminarum 1991 we take the opportunity, as usual, to inform you on the latest developments concerning the Botanic Gardens of Utrecht University.

In the past year, for the time being, the last phase of the building-project of our greenhouse-complex at the University center "De Uithof" has been completed.

The greenhouse-complex, with a total area of more than 5000 m², now includes 32 separate departments, three of which are cooled. The complex also includes a department with climate-chambers and cold storage containers. There also is a special department for the public, with possibilities for exhibitions, lectures and catering.

At this time the construction of tunnel-greenhouses with foil cover at Fort Hoofddijk has started. This will be used to protect a large part of the outdoor experiments against extreme weather conditions.

The seedbank facilities are expanded so that the quality of the material can be better safeguarded.

We expect that in the next few years the development of the Educational Department will be a central issue. The services for the general public and for education will be expanded. The Educational Department, introduced in 1989, has continued its activities. Mrs. Kühn left our staff, her place is now taken by Mrs. Hanneke Potters.

The gardens attract more visitors each year. In 1992 we estimate a total of 75.000 visitors. The most important special activities in 1991 were:

- The Sculpture Trail. Fort Hoofddijk was the location for an exhibition of 16 sculptures, specially made for this occasion. The exhibition attracted many visitors and we received very positive reactions.
- Guided evening-tours. In 1990 we introduced the evening-tours. These are guide walks with a special theme. In 1991 the theme was "Plantlore", all kinds of folkstories about plants and the scientific facts underlying these stories.

The congress on education in Botanic Gardens was a success. 76 participants from 20 countries attended the congress and exchanged ideas and opinions. The basis has been laid for an international network. The next meeting of this "Botanic Gardens Education Network" is planned in 1993 (Las Palmas).

V.P.A.Lukkien, M.Sc.,
General Director.

The Utrecht Botanic Gardens are developing specializations on the following groups and taxa:

- Alpinous plants
- selected woodland plants (Arisaema, Arisarum, Penstemon & Trillium)
- Annonaceae
- Conifers (esp. Tsuga)
- Flora of the Neotropics: Flora of the Guianas
 Gesneriaceae
 Orchidaceae
 Zingiberaceae
- Lactiferous plants: Euphorbia
 Hoya
- Broad-leaved hardy trees and shrubs:
 Aceraceae Betulaceae Ericaceae
 Euonymus Laburnum Magnolia
 Oleaceae

These specializations are given extra attention regarding verification, nomenclature etc.

We are especially interested in material from natural sources of the groups and taxa mentioned above. In order to start co-operation with gardens with identical specialisations we have included a questionnaire in our previous seedlist (no. 32 -1990-).

Results of our inquiry, held last year (Index no.32-1991):

We can inform you, that ca. 10 per cent of the questionnaires were completed and returned.

39 Gardens (Institutes) out of those are interested in co-operation, either with us or with our other Dutch colleagues.

19 Gardens (Institutes) did not specialize in certain taxa and/or are not interested in co-operation.

We are quite pleased with this score and apart from our other contacts it gives us an overall picture of certain specializations.

We have the intention to send a newsletter regularly to those who are interested in a further co-operation.

If you have missed the chance to join us in this co-operation project on certain specializations, please contact our Curators Department and we'll send you the information you need.

Verification:

The seeds in this list have been taken from verified plants and only if we were reasonably sure that cross-pollination with related species would be unlikely. The exception to this rule is seedlist no. 52: *Engelhardia spicata*. These seeds were collected under conditions not allowing accurate verification.

Explanation of provenance codes:

- E= Seeds from natural source
S= Seeds derived from a plant in cultivation but from known natural source (not necessarily F1 generation).
G= Seeds from a plant from other Botanical Garden or Institute; not from known natural source.

Explanation of abbreviated collector-names:

- CYT research-group Cytotaxonomy (P.E.B.)
HVDW H. v.d. Werff
L&G J.C. Lindeman & A.R.A. Görts
MAAS P.J.M. Maas
MJJ M.J. Jansen-Jacobs
WOLB L.J.W. van den Wollenberg, Curator
WROD W.Roderick

Sources of illustrations used:

Fig. 1: T. Schipper, Utr.Univ.

Fig. 2: A.R. Clapham, T.G. Tutin & E.F. Warburg; drawings: S.J. Roles: *Illustr. of the Fl. of the Brit. Isles* vol. I, Cambridge Univ. Press, Cambridge, U.K., 1960.

Fig. 3: idem, vol. I, 1960.

Fig. 4: idem, vol. II, 1960.

Fig. 5: idem, vol. III, 1963.

Notes on ordering:

Correspondents are asked to use the order-form provided, and send it to the address mentioned upon it. Furthermore, they should check with their own authorities concerning import-regulations and include any necessary permits with their order.

Only requests reaching us before May 1, 1992 will be handled in sequence of entry.

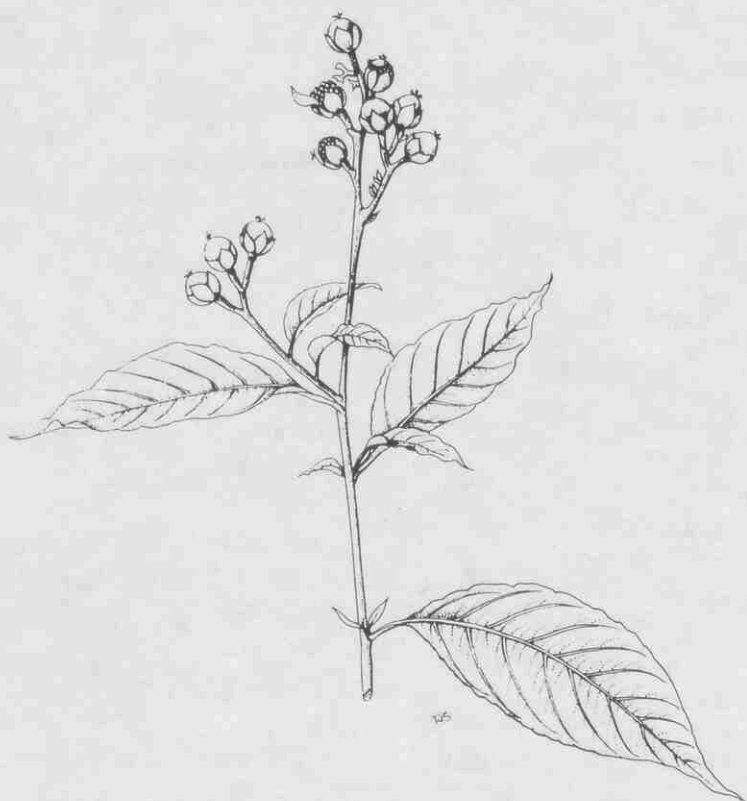


Fig. 1: *Pleuropetalum darwinii* J.D. Hook. (Amaranth.)

Aceraceae

1. G I 00ZG00987 *Acer ginnala* Maxim. var.
ginnala
2. G I 00ZG00968 *Acer maximowiczianum* Miq.

Amaranthaceae

3. S I 74GR00319 *Pleuropetalum darwinii*
J.D.Hook. [HVDW 178]
Galapagos Islands.

Amaryllidaceae

4. S I 80GR00248 *Bomarea edulis* (Tussac) Herb.
[L&G 455] Suriname, Kabel-
ebo area, along Barieba Creek.

Annonaceae

5. G I 76GR00015 *Artabotrys hexapetalus* (L.f.)
Bhandari

Apiaceae

6. G I 90ZE00290 *Ammi majus* L.

Apocynaceae

7. G I 74GR00732 *Alyxia buxifolia* R. Br.
8. S I 85GR00108 *Rauvolfia tetraphylla* L.
Cuba, grounds Calabazar, Jar-
din Botanico Nacional.

Aquifoliaceae

9. G I 61RD00653 *Ilex pedunculosa* Miq. var.
pedunculosa

Araceae

10. G I 68GR00913 *Nephtytis afzelii* Schott

Asclepiadaceae

11. G I 80RD00057 *Periploca sepium* Bunge

Asteraceae

12. G I 66BL00162 *Aster porteri* A.Gray

Brassicaceae

13. G I 72BL00095 *Fibigia eriocarpa* (DC.) Boiss.

Bromeliaceae

14. G I 76GR00214 *Dyckia brevifolia* Bak.
15. G I 75GR00042 *Puya mirabilis* (Mez) L.B.Sm.

Campanulaceae

16. G I 66BL00036 *Symphyandra hofmannii* Pant.

Cannaceae

17. S I 80GR00287 *Canna tuerckheimii* Kraenzl.
[MAAS 4796] Ecuador,
Alluriquin area, between Sto.
Domingo de Los Colorados &
Quito, mountain forest, Alt.
850m

Caryophyllaceae

18. G I 83BL00090 *Dianthus knappii* (Pant.)
Aschers. & Kanitz ex Borb.
19. S I 88ZS00031 *Lychnis coronaria* (L.) Desr.
Bulgaria, no further details!

Celastraceae

20. G I 60RD00006 *Euonymus planipes* (Koehne)
Koehne
21. S I 77RD00142 *Tripterygium regelii* Sprague
& Takeda Korea Sorok
National Park, no further
details!

Clusiaceae

22. G I 65BL00478 *Hypericum olympicum* L.

Commelinaceae

23. G I 72GR00380 *Palisota bracteosa* C.B. Clarke

Crassulaceae

24. G I 73ZS00023 *Sedum kamschaticum* Fisch. & Mey. var. *middendorffianum* (Maxim.) R.T. Clausen
 25. G I 69BL00408 *Sedum sempervivoides* Fisch. ex M.B.

Cuscutaceae

26. G I 71ZS00025 *Cuscuta gronovii* Willd.

Cyclanthaceae

27. G I 68GR00859 *Carludovica palmata* Ruiz & Pav.

Dipsacaceae

28. G V 71ZS00069 *Cephalaria gigantea* (Ledeb.) Bobrov

Ericaceae

29. G I 64RD00374 *Bruckenthalia spiculifolia* (Salisb.) Rchb.
 30. G I 76RD00148 *Gaultheria shallon* Pursh
 31. G I 00ZG00034 *Kalmia angustifolia* L.
 32. G I 00ZG01222 *Kalmia latifolia* L.
 33. G I 00ZG00883 *Leucothoe walteri* (Willd.) Melvin
 34. G I 00ZG00037 *Pieris floribunda* (Pursh ex Sims) Benth. & J.D.Hook.
 35. G I 00ZG00036 *Pieris japonica* (Thunb.) D.Don ex G.Don
 36. G I 00ZG01148 *Zenobia pulverulenta* (Bartr. ex Willd.) C.Pollard

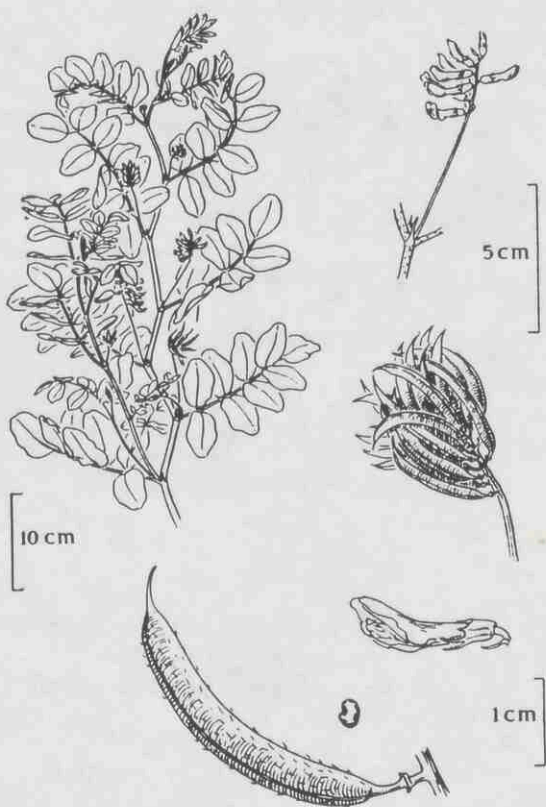


Fig. 2: *Astragalus glycyphyllos* L. (Fabac.)

Euphorbiaceae

37. S I 82ZE02120 *Mercurialis annua* L. Germany, Rhein-Main area, near Frankfurt.
38. G I 78GR00256 *Phyllanthus juglandifolius* Willd.

Fabaceae

39. S I 80ZS00009 *Astragalus glycyphyllos* L.
40. S I 71ZE00834 *Lathyrus odoratus* L. Italy, Sicily.
41. S I 91ZE00759 *Lupinus angustifolius* L. Portugal, prov. Estremadura, Rio de Mouro, Sintra.
42. G I 56ZE02112 *Tetragonolobus purpureus* Moench

Gentianaceae

43. G I 65BL00002 *Gentiana asclepiadea* L.

Geraniaceae

44. S I 72ZE02194 *Geranium robertianum* L. [CYT s.n.] The Netherlands, no further details!
45. G I 53ZE00969 *Pelargonium inodorum* Willd.

Gesneriaceae

46. G I 65BL00453 *Ramonda myconi* (L.) Rchb.

Globulariaceae

47. G I 77ZE00304 *Hebenstretia dentata* L.

Heliconiaceae

48. S I 89GR00091 *Heliconia psittacorum* L.f.
[MJJ 1937] Guyana, Savanne
near Gunn's.

Hydrophyllaceae

49. G V 71ZE00310 *Phacelia congesta* W.J.Hook.

Iridaceae

50. G I 87GR00255 *Belamcanda chinensis* (L.)
DC.
51. G V 68GR00728 *Lapeirousia laxa* (Thunb.)
N.E.Br.

Juglandaceae

52. E 91GR01940 *Engelhardia spicata* Bl.
[WOLB 91039] Sikkim,
Yaksum, along roadside. Alt.
1750m

Juncaceae

53. G I 75ZS00037 *Juncus gerardi* Loisel.

Lamiaceae

54. G I 79ZE00338 *Ocimum basilicum* L.
 55. S I 84GR00273 *Scutellaria speciosa* Epling
 [MAAS 5962] Peru, Dept. San
 Martin, road Tarapoto to -
 Juanjui, Km. 25, dry forest,
 collected at type location.
 56. G I 66BL00015 *Teucrium arduini* L.

Liliaceae

57. G I 65BL00271 *Veratrum nigrum* L.

Limnanthaceae

58. G I 53ZE00858 *Limnanthes douglasii* R.Br.

Loasaceae

59. G I 53ZE00862 *Loasa triphylla* Juss. var.
vulcanica (Andre) Urb. &
 Gilg

Lythraceae

60. G I 53ZE00761 *Cuphea lanceolata* Ait.
 61. U I 87ZE01477 *Cuphea procumbens* Cav.

Magnoliaceae

62. G I 00ZG00099 *Liriodendron tulipifera* L.
 63. G I 00ZG01144 *Magnolia virginiana* L.

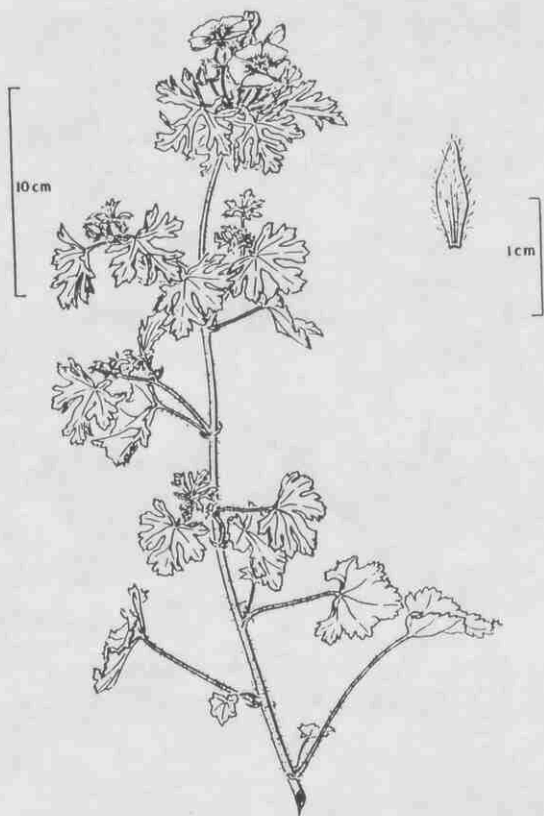


Fig. 3: *Malva moschata* L. (Malvac.)

Malvaceae

- | | | | | |
|-----|---|---|-----------|---|
| 64. | G | I | 63ZE00846 | <i>Anoda cristata</i> (L.) Schlechtend. |
| 65. | G | I | 69GR00169 | <i>Gossypium arboreum</i> L. |
| 66. | G | I | 84ZE02165 | <i>Lavatera trimestris</i> L. |
| 67. | S | I | 80ZS00010 | <i>Malva moschata</i> L. France, Chaffois (Doubs), Alt.: 850m |
| 68. | S | I | 83ZE00353 | <i>Malva neglecta</i> Wallr. Germany, Kreiss Oschersleben, Wulferstädt, no further details! |
| 69. | G | I | 73ZS00033 | <i>Sidalcea neomexicana</i> A.Gray var. <i>parviflora</i> (Greene) Roush |

Myrsinaceae

- | | | | | |
|-----|---|---|-----------|--------------------------------|
| 70. | G | I | 74GR00008 | <i>Ardisia solanacea</i> Roxb. |
|-----|---|---|-----------|--------------------------------|

Onagraceae

- | | | | | |
|-----|---|---|-----------|---|
| 71. | G | I | 54ZE02103 | <i>Gaura lindheimeri</i> Engelm. & A.Gray |
| 72. | G | I | 90GR00304 | <i>Ludwigia octovalvis</i> (Jacq.) Raven subsp. <i>octovalvis</i> |

Papaveraceae

- | | | | | |
|-----|---|---|-----------|--|
| 73. | G | I | 68ZE02407 | <i>Dicranostigma leptopodum</i> (Maxim.) Fedde |
| 74. | G | I | 64BL00209 | <i>Meconopsis betonicifolia</i> Franch. |

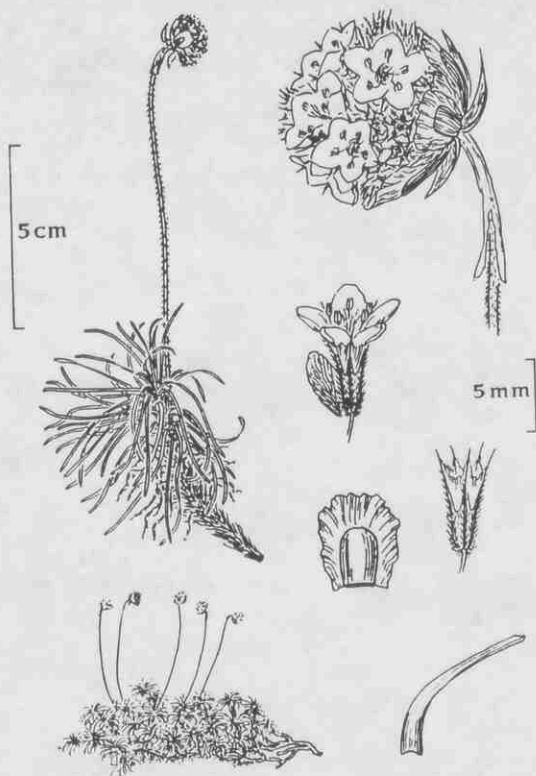


Fig. 4: *Armeria maritima* (Mill.) Willd. (Plumb.)

Phytolaccaceae

75. G I 69GR00291 *Hillieria latifolia* (Lam.) H. Walt.

Pinaceae

76. G I 00ZG00916 *Pseudolarix amabilis* (A.Nels.) Rehd.

Plumbaginaceae

77. S I 77ZS00007 *Armeria maritima* (Mill.) Willd. s.l. Sweden, Hallands Väderö, Skåne.
78. G I 75ZE00620 *Psylliostachys suvorovii* (Regel) Roshk.

Polemoniaceae

79. G I 89ZE00014 *Gilia tricolor* Benth.
80. G I 55ZE00770 *Navarretia squarrosa* (Eschsch.) W.J.Hook. & Arn.

Portulacaceae

81. G I 53ZE00774 *Calandrinia compressa* Schrad.

Ranunculaceae

82. G I 75ZE00311 *Adonis aestivalis* L.

Rosaceae

83. S I 78ZS00010 *Filipendula kamtschatica*
(Pall.) Maxim. USSR, Sachalin,
Juzhnosachalinsk.

Rubiaceae

84. S I 87ZS00024 *Rubia tinctorum* L. France,
Gard. Aramon.
85. G I 81ZE00334 *Valantia hispida* L.

Saxifragaceae

86. G I 75ZS00003 *Astilbe japonica* (C.Morr. &
Decne.) A.Gray var. *japonica*

Scrophulariaceae

87. G I 53ZE00754 *Misopates orontium* (L.) Raf.
88. G I 87BL00455 *Penstemon barbatus* (Cav.)
Nutt. var. *barbatus*
89. S I 86BL00553 *Penstemon heterophyllus*
Lindl. [WROD s.n.] U.S.A.,
California,, Lake Co., Midd-
letown, Alt.:400m
90. G I 88BL00028 *Penstemon peckii* Pennell
91. G I 86BL00144 *Penstemon serrulatus* Menz.
ex J.E. Sm.
92. G I 71ZE00811 *Zaluzianskya capensis* (Benth.)
Walp.

Styracaceae

93. G I 00ZG00121 *Halesia carolina* L. var. *mollis*
(Lange) Perk.

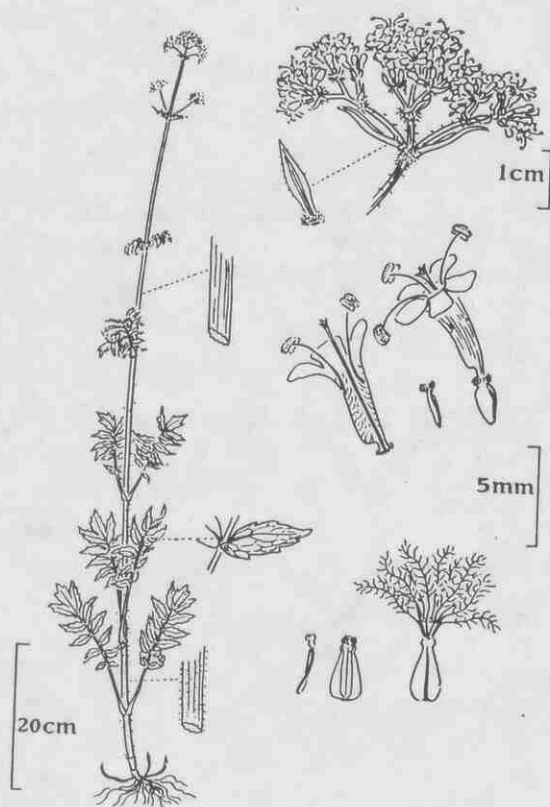


Fig. 5: *Valeriana officinalis* L. (Valer.)

Taxodiaceae

94. G I 00ZG01861 *Sciadopitys verticillata*
(Thunb.) Sieb. & Zucc.

Urticaceae

95. G I 54ZE02481 *Urtica pilulifera* L.

Valerianaceae

96. G I 62ZE02127 *Centranthus calcitrapae* (L.)
Dufresne subsp. *calcitrapae*
97. G I 70ZS00029 *Valeriana officinalis* L.

Verbenaceae

98. G I 72ZE02197 *Verbena rigida* Spreng.

Zingiberaceae

99. S I 68GR00198 *Alpinia pterocalyx* K.Schum.
100. G I 74GR00089 *Globba winitii* C.H.Wright
(bulbils)

