

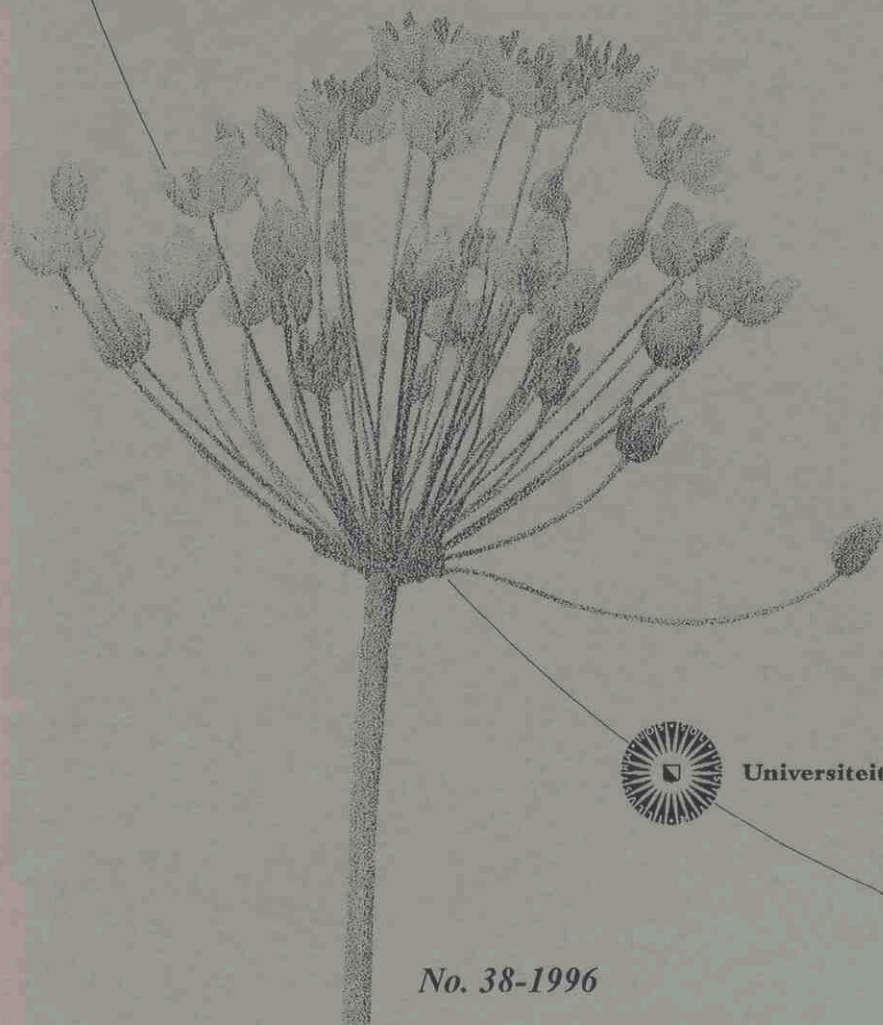


Index seminarum

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Index Seminum

*Utrecht University
Botanic Gardens
The Netherlands*



Universiteit Utrecht

No. 38-1996

UNIVERSITEITSBIBLIOTHEEK UTRECHT



4216 3794

Utrecht University

Botanic Gardens

P.O. Box 80.162
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The Netherlands

Index Seminum No. 38- 1996

In response to the Convention on Biological Diversity, the Utrecht University Botanic Gardens supplies the seed collections requested on the condition that:

- a) They are used for the common good in the areas of research, trials, breeding, education and the development of public Botanic Gardens.
- b) If the recipient seeks to commercialise either the genetic material, its products or research derived from it, then written permission must be obtained from the Utrecht University Botanic Gardens.
- c) The genetic material, its products or research derived from it, are not passed to a third party for commercialisation without written permission from the Utrecht University Botanic Gardens.

Notes on ordering:

Correspondents are asked to use the order-form provided, **which must be signed**, 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 **March 1, 1997** will be handled in sequence of entry. **Order-forms which will reach us after that date will not be handled!** Our Fax no. is +31 30 2535177 (do not use email).

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*Regional office of Botanic Gardens Conservation International
at Utrecht University Botanic Gardens*

Gardens location

- Utrecht: Fort Hoofddijk (University Centre)
- Doorn: Von Gimborn Arboretum

Situation and climate:

Geographical position of the Main Garden	52° 06' N : 5° 11' E
Altitude	2 m above sea level
Geographical position of the Von Gimborn Arboretum	52° 00' N : 5° 20' E
Altitude	3 m above sea level

Mean daily minimum of the coldest month	- 0,6°C
Mean daily maximum of the warmest month	+ 21,6°C

Highest temperature	+ 36,8°C *
Lowest temperature	- 24,8°C *

Average rainfall	803 mm
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*Monitored since 1849



From the Curator's Department

With the presentation of this Index Seminum No. 38-1996 we take the opportunity, as usual, to inform you on the latest developments in Utrecht University Botanic Gardens.

Concerning our specializations, there has been a special attention to the Aceraceae and Bromeliaceae.

Aceraceae:

This year our Botanic Gardens was asked to be the Host Garden for the I.D.S. Bursary 1996. This Bursary was generously donated by the International Dendrology Society to Piotr Banaszczak, a third-year student of the Agricultural University of Warsaw, Poland. With this Bursary our Acer Project was given a start with the production of a survey of Aceraceae belonging to the Dutch National Plant Collection and a study of these living plants and herbarium vouchers.

The research within this Aceraceae Project will take place in a number of phases and we wish to thank the following organisations for their cooperation:

- | | |
|--|--|
| * Dutch Botanic Gardens Foundation | * Regional Office of BGCI at Utrecht |
| * The Maple Society | * Professional Growers of Aceraceae |
| * IUCN-SCC Temperate Broadleaved
Trees Specialist Group | and the Keeper of the "Aceratum",
Mr. D.M. v. Gelderen (Fa. |
| * Botanic Gardens Conservation
International (BGCI) | C.Esveld) at Boskoop |

The next step will be the production of a survey of taxa, currently considered threatened (IUCN Conservation Categories) present in the Western Botanic Gardens. This list will be analysed and completed with the threatened species native to Temperate Asia. Special emphasis should be on specimens of recorded wild origin. We're especially asking our Chinese colleagues for their help and support.

Bromeliaceae:

The Tillandsioideae as Subfamily of the Bromeliaceae is since this year part of the National Plant Collection.

Because one of us (Curator Eric J. Gouda) is amongst others developing a very keen specialization on Bromeliaceae, it is self-evident that our collections will grow with very valuable accessions.

Last but not least, the living collections have been enriched this year. Many new accessions from natural sources replaced accessions from cultivated origin, as part of the long-term collection strategy of replacing plants of cultivated origin for wild-collected stock.

Specializations

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

-Flora of the Neotropics: Flora of the Guianas, with special emphasis on:
Bromeliaceae Orchidaceae Zingiberaceae

-Annonaceae (Research Collection)

-Conifers (esp. *Tsuga*)

-Broad-leaved hardy trees and shrubs:

Aceraceae	Betulaceae	Ericaceae
Euonymus	Laburnum	Magnolia
Oleaceae (esp.: <i>Fraxinus</i> and <i>Syringa</i>)		

-Alpines

-Crassulaceae (Research Collection)

-selected woodland plants (*Arisaema*, *Asarum* & *Trillium*)

-Penstemon

-Lecanopteris

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

We are especially interested in material from natural sources of the groups and taxa mentioned above. We have a cooperation with gardens with identical specializations. If you are interested, please contact us and we will provide additional information.

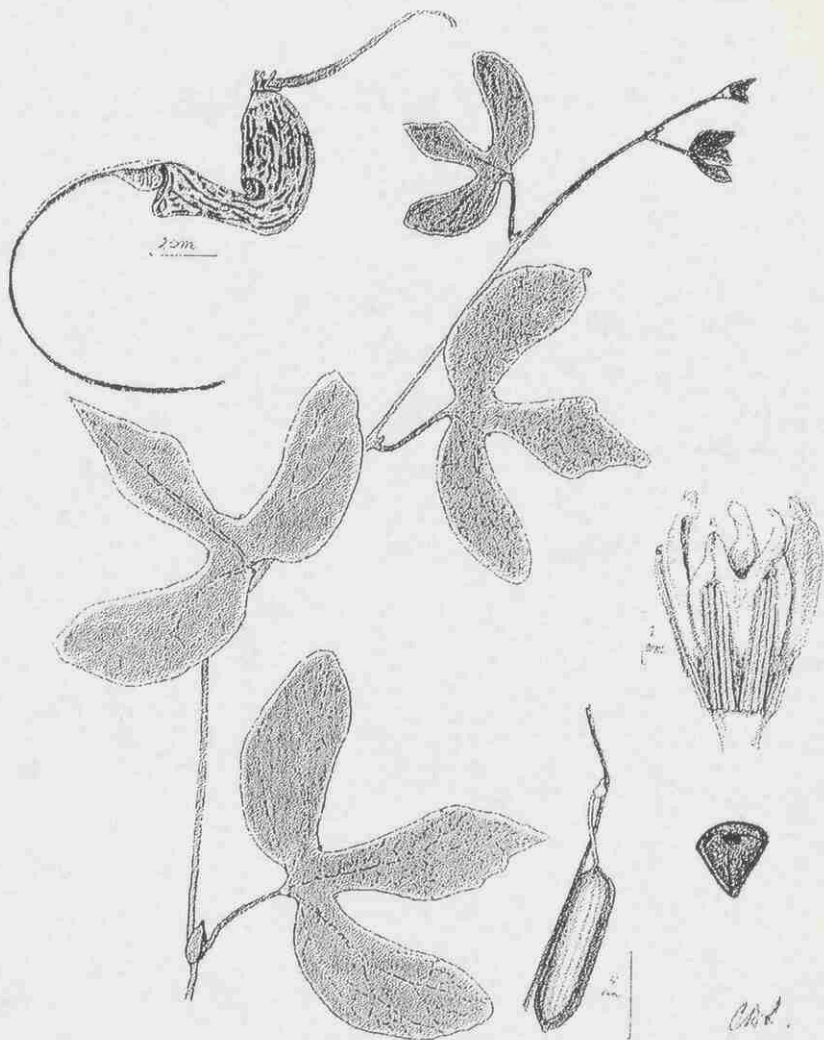


Fig. 1 (#15) *Aristolochia trilobata* L. (Aristolochiaceae)

Aceraceae

- | | | | | |
|----|---|---|-----------|---|
| 1. | G | V | 00ZG00986 | <i>Acer cappadocicum</i> Gled. subsp. <i>lobelii</i> (Ten.)
P.C.DeJong |
| 2. | G | V | 00ZG00997 | <i>Acer micranthum</i> Siebold & Zucc. |
| 3. | G | V | 00ZG00960 | <i>Acer tataricum</i> L. subsp. <i>tataricum</i> |
| 4. | G | V | 78RD01101 | <i>Acer tegmentosum</i> Maxim. |
| 5. | K | I | 78RD00724 | <i>Acer triflorum</i> Kom. |

Agavaceae

- | | | | | |
|----|---|---|-----------|---------------------------------------|
| 6. | G | I | 73GR00695 | <i>Phormium tenax</i> J.R. & G.Forst. |
|----|---|---|-----------|---------------------------------------|

Amaranthaceae

- | | | | | |
|----|---|---|-----------|--|
| 7. | S | V | 74GR00319 | <i>Pleuropetalum darwinii</i> Hook.f.; [HVDW 178]
Galapagos Islands, no other details available |
|----|---|---|-----------|--|

Apiaceae

- | | | | | |
|----|---|---|-----------|---|
| 8. | S | I | 66BL00184 | <i>Athamanta turbith</i> (L.) Brot. subsp. <i>haynaldii</i>
(Borb. & Uechtr.) Tutin; Balkan. |
|----|---|---|-----------|---|

Apocynaceae

- | | | | | |
|----|---|---|-----------|-------------------------------|
| 9. | G | I | 74GR00732 | <i>Alyxia buxifolia</i> R.Br. |
|----|---|---|-----------|-------------------------------|

Aquifoliaceae

- | | | | | |
|-----|---|---|-----------|--|
| 10. | G | I | 61RD00653 | <i>Ilex pedunculosa</i> Miq. var. <i>pedunculosa</i> |
|-----|---|---|-----------|--|

Araceae

- | | | | | |
|-----|---|---|-----------|--|
| 11. | G | I | 74GR00662 | <i>Aglaonema commutatum</i> Schott var.
<i>commutatum</i> |
| 12. | G | I | 68GR00913 | <i>Nephtytis afzelii</i> Schott |

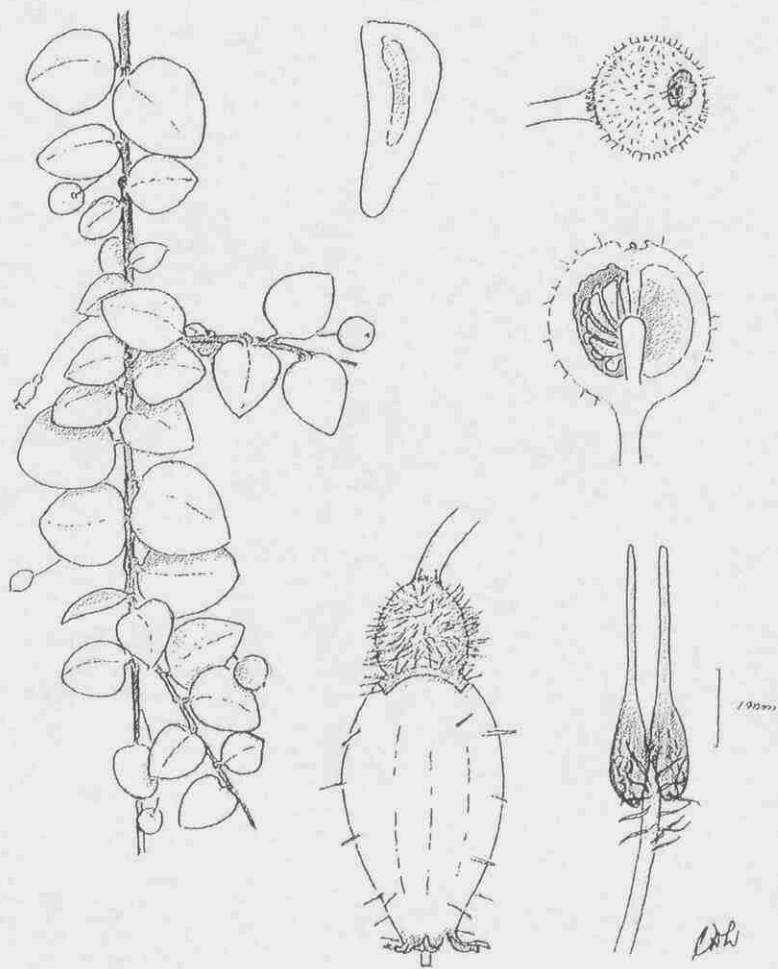


Fig. 2 (#50) *Sphyrnospermum buxifolium* Poepp. & Endl. (Ericaceae)

Aristolochiaceae

13. G I 92GR01149 *Aristolochia fimbriata* Cham.
 14. S I 92GR00988 *Aristolochia littoralis* Parodi; El Salvador,
 Acajutla.
 15. S V 92GR00904 *Aristolochia trilobata* L.; [MORI 22351] French
 Guiana, Saül.

Asclepiadaceae

16. S I 64BL00042 *Vincetoxicum hirundinaria* Medik.; [KLIPH s.n.]
 Switzerland, Tessin, Val Verzasca.

Asteraceae

17. S I 88GR00053 *Chaptalia ignota* Burkart; Argentina, Iquazu, Las
 Orquideas.
 18. G V 94GR00044 *Mutisia coccinea* St.-Hil. var. *coccinea*

Brassicaceae

19. S I 64BL00214 *Alyssoides utriculata* (L.) Medik.; Switzerland,
 near Martigny, during excursion; 1958.

Bromeliaceae

20. S S 77GR00178 *Guzmania lingulata* (L.) Mez s.l.; [MAAS 2614]
 Guyana, Mt. Latipú, above Mazarum. Alt.:900
 m.
 21. S S 88GR00184 *Streptocalyx longifolius* (Rudge) Baker;
 [GOERT s.n.] Fr. Guiana, Mt. Tortue, 88-06-17.
 Alt.:250-450 m.
 22. S S 88GR00183 *Tillandsia monadelpha* (E.Morren) Baker; Fr.
 Guiana, Mt. Tortue, 88-06-17. Alt.:250-450 m.

Campanulaceae

23. S V 83BL00272 *Asyneuma campanuloides* (M.Bieb.) Bornm.;
Caucasus, coll. 1982. no other details available.
24. S I 90BL00367 *Campanula sabatia* De Not.; Italia, Altopiano
delle Manie (SV). Alt.:300 m.
25. G I 69BL00409 *Platycodon grandiflorum* (Jacq.) A.DC.
26. G I 83BL00396 *Symphandra repens* Karpiss.

Cannaceae

27. S S 89GR00092 *Canna indica* L.; [MJJ 1781] Guyana, Old Farm
near Konashen.

Caryophyllaceae

28. S I 91BL01115 *Dianthus arenarius* L. subsp. *borussicus* Vierh.;
Austria, no other details available.
29. S V 95BL00205 *Dianthus carthusianorum* L.; Romania, Muntii,
Piatra Craiului.
30. S I 94BL00406 *Dianthus viscidus* Bory & Chaub.; Greece,
Macedonia, Nomos, Kastorias, Pefkos/Kastoria,
calcareous. Alt.:1350 m.
31. G I 94BL00278 *Petrorhagia graminea* (Sm.) P.W.Ball &
Heywood
32. G I 71BL00245 *Saponaria caespitosa* DC.
33. G I 84BL00124 *Silene quadridentata* (Murray) Pers.
34. S I 94BL00089 *Silene saxifraga* L.; Slovenia, Steiner Alpe,
Grintovec, ascent from Ceska Koca to Grintovec.
Alt.:1500-2200 m.

Clusiaceae

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

Commelinaceae

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

Costaceae

37. S S 74GR00729 *Costus dubius* (Afzel.) K.Schum.; [PL 4709A]
Dept Ayacucho; Prov. La Mas, road from Ayna
to San Francisco. Alt.: ca. 1500 m.
38. S S 92GR00188 *Costus megalobracteata* K.Schum.; Ivory Coast,
no other details available.

Crassulaceae

39. G I 77BL00079 *Chiastophyllum oppositifolium* (Ledeb. ex
Nordm.) Berger
40. S S 93BL00010 *Sedum obtusifolium* C.A.Mey.; [AH 33] Turkey,
Prov. Bolu, 20 km S. of Gerece,, W. of the road
to Kizilcahaman. Alt.:1350 m.
41. S I 77BL00127 *Sedum stoloniferum* S.G.Gmel.; Abkhazia
(Caucasus), Awadchara.

Cyperaceae

42. S I 66BL00196 *Carex spicata* Huds.; Austria, details unknown.

Dipsacaceae

43. G V 93BL00100 *Morina longifolia* Wall. ex DC.

Ericaceae

44. G I 00ZG00184 *Enkianthus cernuus* (Siebold & Zucc.) Makino
var. *rubens* (Maxim.) Makino
45. G I 00ZG00034 *Kalmia angustifolia* L.
46. G I 00ZG01222 *Kalmia latifolia* L.
47. G I 00ZG00883 *Leucothoe fontanesiana* (Steud.) Sleumer
48. G I 00ZG00037 *Pieris floribunda* (Pursh ex Sims) Benth. &
Hook.f.
49. G I 00ZG00097 *Rhododendron canadense* (L.) Torr.
50. S 84GR00467 *Sphyrospermum buxifolium* Poepp. & Endl.;
Ecuador, no further data.
51. G I 00ZG01146 *Zenobia pulverulenta* (W.Bartram ex Willd.)
Pollard

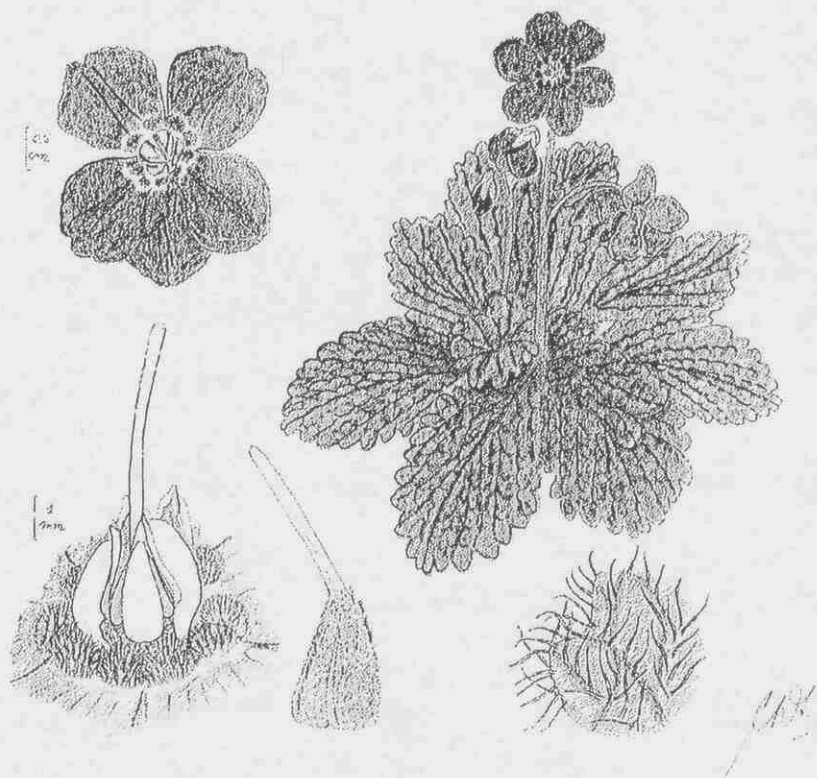


Fig. 3 (#57) *Ramonda myconi* (L.) Rchb. (Gesneriaceae)

Eriocaulaceae

52. S I 92GR01394 *Paepalanthus bifidus* (Schrad.) Kunth; [EK 520] Guyana, Mabura Hill, near field station, on white sand.

Fabaceae

53. S I 93ZE00663 *Lathyrus aphaca* L.; N.Italy, Gorges de Saorge, near Savona. Alt.:400 m.

Gentianaceae

54. G I 68BL00059 *Gentiana cruciata* L. subsp. *cruciata*
 55. S I 84BL00516 *Gentiana lutea* L. subsp. *lutea*; [J.T. s.n.] France, Vosges, Le Hohneck road Kastelberg. Alt.:1350 m.

Gesneriaceae

56. G I 66BL00054 *Haberlea rhodopensis* Friv.
 57. G V 65BL00453 *Ramonda myconi* (L.) Rchb.
 58. S I 82BL00132 *Ramonda nathaliae* Pancic & Petrovic; Yugoslavia, Titov Veles. Alt.:230 m.

Grossulariaceae

59. G I 69GR00038 *Escallonia bifida* Link & Otto

Haloragaceae

60. G I 55ZE00960 *Haloragis erecta* (Banks ex Murray) Oken subsp. *erecta*

Iridaceae

61. S V 77BL00056 *Gladiolus imbricatus* L.; Greece, Dahsia (NE of Alexandropolis). Alt.:330 m.
 62. G I 77BL00409 *Iris magnifica* Vved.
 63. G I 91GR00557 x *Pardancanda norrisii* L.W.Lenz

Lamiaceae

64. S I 73BL00077 *Teucrium pyrenaicum* L.; France, Pyrenees.

Liliaceae

65. S I 62BL00140 *Allium senescens* L.; Austria, Alps.
 66. S I 70BL00165 *Allium sphaerocephalon* L.; Italy, 5km before Atena Lucana. Alt.:250 m.
 67. S I 70BL00165 *Allium sphaerocephalon* L.; Italy, 5km before Atena Lucana. Alt.:250 m.
 68. G I 66BL00108 *Anthericum ramosum* L.

Magnoliaceae

69. G I 00ZG00099 *Liriodendron tulipifera* L.
 70. G I 00ZG01142 *Magnolia hypoleuca* Siebold & Zucc.
 71. G I 00ZG03460 *Magnolia kobus* DC. var. *kobus*
 72. G I 65RD00047 *Magnolia tripetala* (L.) L.
 73. G I 00ZG01144 *Magnolia virginiana* L.

Malvaceae

74. S I 96BL01007 *Alcea setosa* (Boiss.) Alef.; C. of N.Turkey, near Bolu.
 75. G I 68GR01510 *Pavonia praemorsa* (L.f.) Willd.
 76. S 92GR01495 *Urena lobata* L. subsp. *lobata*; [G&W 455] Guyana, Santa Mission area, Aratak Mission.

Myrsinaceae

77. G I 74GR00008 *Ardisia solanacea* Roxb.

Myrtaceae

78. G I 75GR00144 *Syzygium paniculatum* Banks ex Gaertn.

Ochnaceae

79. G 84GR00402 *Ochna serrulata* (Hochst.) Walp.

Onagraceae

80. S S 80GR00318 *Fuchsia paniculata* Lindl.; [MAAS 4985]
Panama, Chiriqui Mt. wood near Guadeloupe, 2
km N. of Cerro Punta. Alt.:1800 m.

Pinaceae

81. G I 00ZG00915 *Pseudolarix amabilis* (A.Nelson) Rehder

Primulaceae

82. S S 94BL01450 *Androsace brigantiaca* Jord. & Fourr.; France,
Isère.
83. G V 94BL01137 *Androsace chaixii* Gren. & Godron
84. G I 90BL00120 *Dodecatheon conjugens* E.Greene
85. G I 64BL00221 *Primula florindae* Kingdon-Ward

Ranunculaceae

86. S I 81BL00206 *Aconitum orientale* Mill.; USSR, Northern
Caucasus Mts., Karachai-Cherkessk,
Autonomous Region, vicinity of Karachayevsk,
(stream edges, 1980). Alt.:1600 m.
87. G I 75ZE00311 *Adonis aestivalis* L.

Rosaceae

88. S I 78ZS00010 *Filipendula kamtschatica* (Pall.) Maxim.; Russia,
Sakhalin, Juzhnosachalinsk.

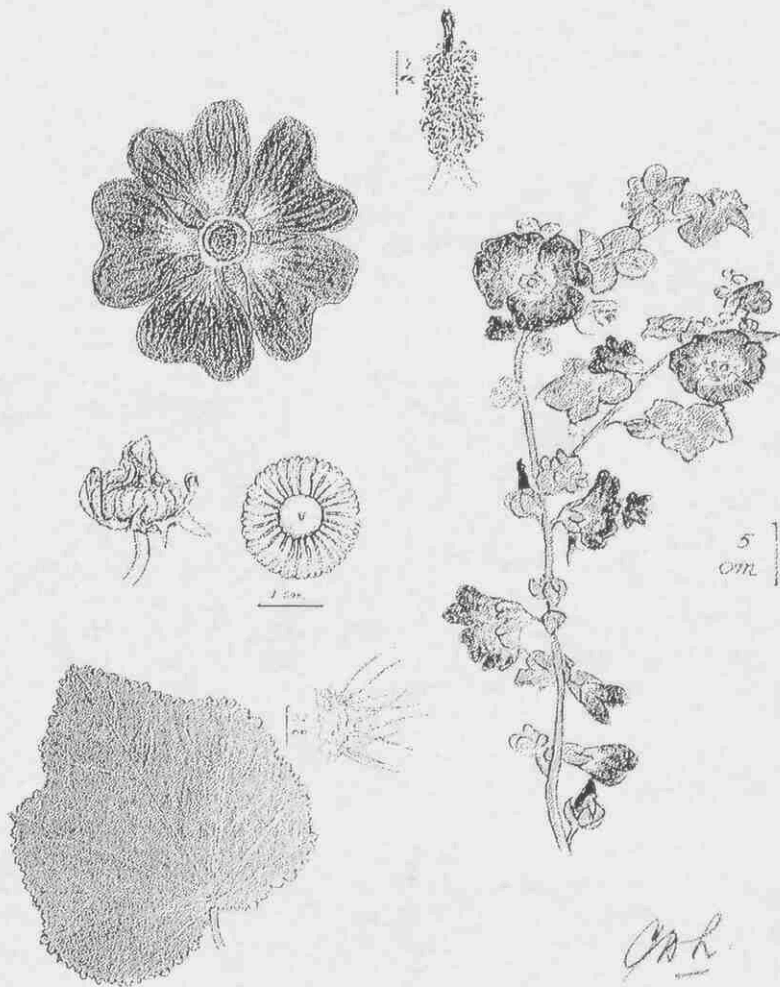


Fig. 4 (#74) *Alcea setosa* (Boiss.) Alef. (*Malvaceae*)

Scrophulariaceae

89. S I 95BL00908 *Erinus alpinus* L.; [C.GOUDA s.n.] Spain, near Miranda del Ebro.
 90. S I 90BL00300 *Verbascum chaixii* Vill. subsp. *austriacum* (Roem. & Schult.) Hayek; Hungary, no further details.
 91. G I 66BL00018 *Wulfenia carinthiaca* Jacq.
 92. G I 71ZE00811 *Zaluzianskya capensis* (Benth.) Walp.

Solanaceae

93. G I 75GR00311 *Cestrum nocturnum* L.
 94. G V 91GR01060 *Cyphomandra betacea* (Cav.) Sendtn.

Styracaceae

95. G I 64RD00305 *Halesia carolina* L. var. *carolina*
 96. G I 00ZG01006 *Styrax japonica* Siebold & Zucc.
 97. G I 00ZG00964 *Styrax obassia* Siebold & Zucc.

Symplocaceae

98. G V 00ZG00909 *Symplocos paniculata* (Thunb. ex Murray) Miq.

Taxodiaceae

99. G I 00ZG01861 *Sciadopitys verticillata* (Thunb. ex Murray) Siebold & Zucc.

Theophrastaceae

100. S S 66GR01776 *Clavija nutans* (Vell.) W.Stahl; [L&HAAS 1643] Brazil, no other details available.

Tovariaceae

101. G V 88GR00234 *Tovaria pendula* Ruiz & Pav.

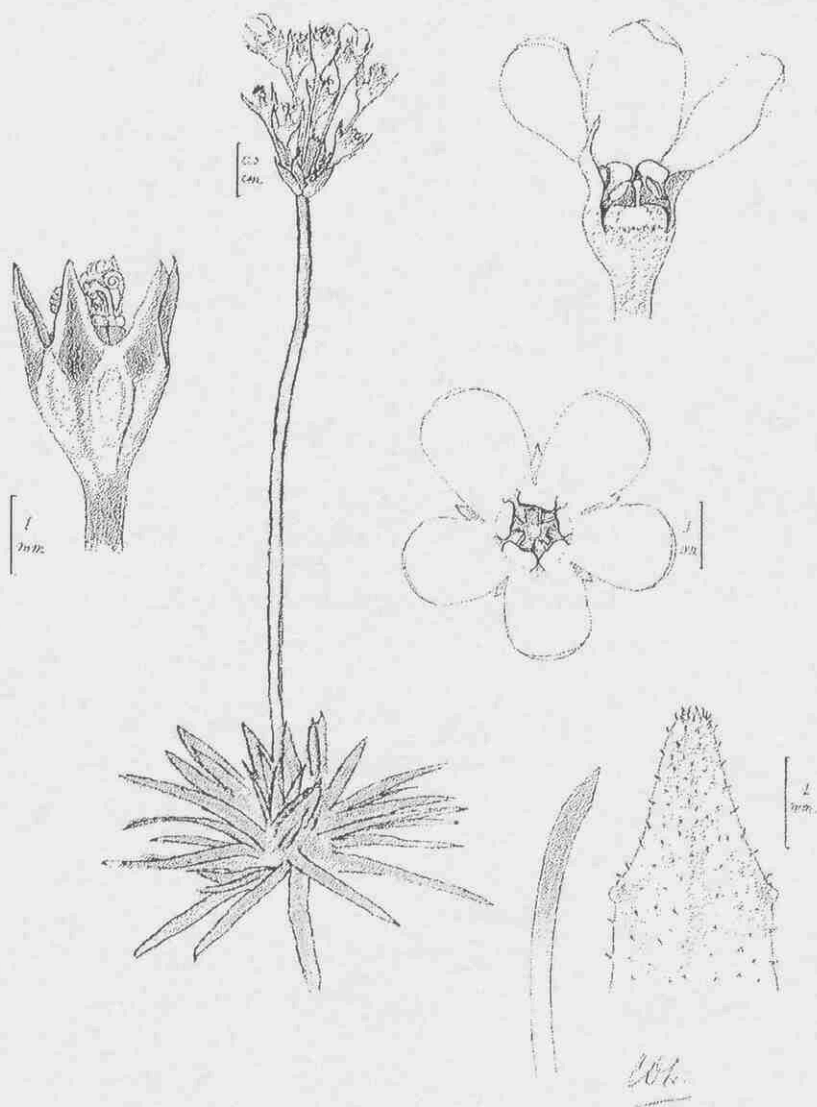


Fig. 5 (#82) *Androsace brigantiaca* Jord. & Fourr. (Primulaceae)

Tropaeolaceae

102. G I 56ZE02149 Tropaeolum peregrinum L.

Verbenaceae

103. G I 76GR00299 Clerodendrum speciosissimum Van Geert

Codes used

Explanation of provenance codes:

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

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. Verification codes used: **V**=verified; **I**=identified; **S**=identified by specialist

Accession Numbers:

The first two digits indicates the year of registration. The next two characters are coding for the garden location or specific group of plants: **GR**=Green Houses; **BL**=Rock Garden; **ZG**=Orig. Von Gimborn Arboretum; **RD**=Woody Plants; **ZE**=Annuals and Biennials. The other five digits is a sequence number.

Explanation of abbreviated collector names:

AH	K. Alpinar & H.'t Hart	KLIPH	E. Kliphuis
C.GOUDA	C. Gouda	L&HAAS	J.C. Lindeman & H. de Haas
G&W	A.R.A. Görts & L.J.W. van den Wollenberg	MAAS	P.J.M. Maas
		MJJ	M.J. Jansen-Jacobs
EK	R. Ek	MORI	Scott Mori
GOERTS	A.R.A. Görts	PL	T. Plowman
HVDW	H. v.d. Werff	J.T.	J. Tolsma

Sources of illustrations used:

From colour illustrations made by Dr. C.D. Laros, Utrecht University Botanic Gardens

This Index Seminum has been produced on Chlorine-free paper.



