

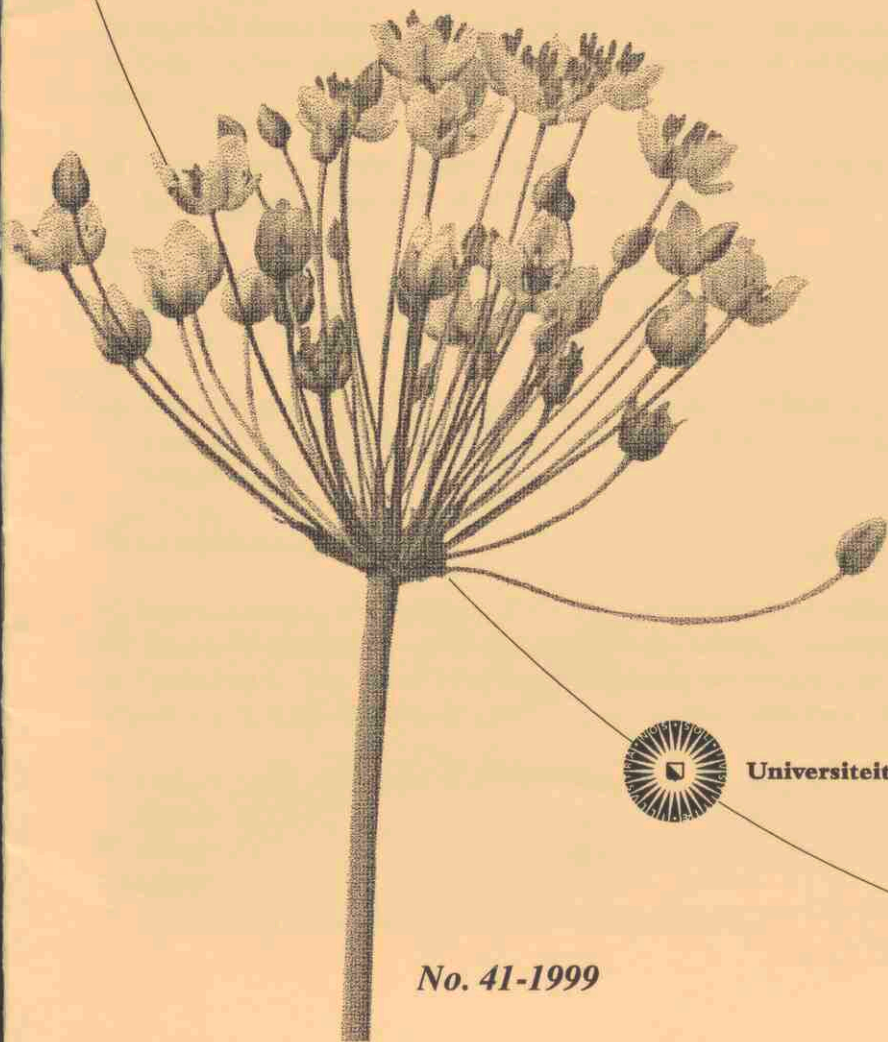


Index seminarum

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Index Seminum

*Utrecht University
Botanic Gardens
The Netherlands*



Universiteit Utrecht

No. 41-1999

UNIVERSITEITSBIBLIOTHEEK UTRECHT



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Utrecht University

Botanic Gardens

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The Netherlands

Index Seminum No. 41 - 1999

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

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Notes on ordering:

- * Correspondents are asked to use the order-form provided, **which must be signed by authorised staff**, 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, with a maximum of 25 packets, reaching us before **March 1, 2000** 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 e-mail).

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Regional Office of Botanic Gardens Conservation International
at Utrecht University Botanic Gardens

Our Web site: <http://www.bio.uu.nl/botgard/>

(Color illustrated Index Seminum: <http://botu07.bio.uu.nl/seedlist/>)

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

*Monitored since 1849



From the Curator's Department

With the presentation of this Index Seminum No. **41-1999** we take the opportunity, as usual, to inform you on the latest developments in Utrecht University Botanic Gardens.

In general, the activities of the curators are divided in the following main groups:

- Jan Tolsma [JT]: Arboretum, Systematic Garden, Theme Garden
- Eric Gouda [EG]: Greenhouse Collections (focal point: Neotropical Collections) and the Rock Garden

Specializations:

In the framework of the National Plant Collection (NP), Utrecht University Botanic Gardens are maintaining specializations on the following groups and taxa:

- Flora of the Neotropics: [EG] Flora of the Guianas, with special emphasis on:
Bromeliaceae *Orchidaceae* *Costaceae*
- Broad-leaved hardy trees and shrubs: [JT]
Aceraceae *Betulaceae* *Ericaceae*
Euonymus *Laburnum* *Magnolia*
Oleaceae (esp.: *Fraxinus* and *Syringa*)
- *Annonaceae* (Research Collection) [EG]
- Conifers (esp. *Tsuga*) [JT]
- Alpines [EG]
- *Crassulaceae* (Research Collection) [EG]
- selected woodland plants (*Arisaema*, *Asarum* & *Trillium*) [EG]
- *Penstemon* [EG]
- *Lecanopteris* [EG]

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 seek cooperation with gardens with identical specializations. If you are interested, please contact us and we will provide additional information.

Aceraceae:

We have the honour to announce that our Botanic Gardens was asked for a second time to be the Host Garden for the Bursary of the International Dendrology Society. This Bursary for 1998 was generously donated by the I.D.S. to Dr. Cao Wei from Shenyang, China. He started his research, which is devoted to our *Aceraceae* Project in September 1999. Within the Section *Platanoidea*, the *A.*

pictum - (*A. mono*) complex is the focal point of a D.N.A. research programme. 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
- * The Maple Society
- * IUCN-SCC Temperate Broadleaved Trees Specialist Group
- * Botanic Gardens Conservation International (BGCI)
- * Regional Office of BGCI at Utrecht
- * Professional Growers of *Aceraceae* and the Keeper of the "Aceretum", Mr. D.M. v. Gelderen (Fa. C.Esveld) at Boskoop.

One of the goals will be the production of a survey of taxa of *Aceraceae*, 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 will be put on specimens of recorded wild origin, In this respect we kindly request the help and support of our Chinese colleagues.

Bromeliaceae:

Study and development in the *Bromeliaceae* collection has several focus points. In the first place the *Bromeliaceae* research project for the "Flora of the Guianas": we try to grow all possible species from this area.

Beside this, the *Tillandsioideae* collection (as Subfamily of the *Bromeliaceae*) is part of the National Plant Collection (NP).

The genus *Tillandsia* of the Andian countries (especially Bolivia) has a special attention because of the various taxonomic problems on species level in these areas.

To increase the general knowledge about the recognised genera in the Family we try to grow representatives from all genera.

It is evident that our *Bromeliaceae* Collections will increase dramatically in both size and quality.

Arisaema:

The last few years we have been very active with this group, increasing the number of wild collected species in the collection. Some areas, like the Peat Garden, have been improved to grow more *Arisaemas*. International contact with various *Arisaema* (*Araceae*) specialists caused considerable improvement of the collection.

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 to replace plants of cultivated origin for wild-collected stock.

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 indicate the year of registration, (-- = unknown year of entry). 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 are a sequence number.

Explanation of abbreviated collector names:

AH	K. Alpinar & H. 't Hart	MOONEN	J. Moonen
C.GOUDA	C. Gouda	JvL	J. Van Loon
CT	C. Theune	L&G	J.C.Lindeman &
CYT	Cytotaxonomy U.U.		A.R.A.Görts-van Rijn
EAM	Erik A. Mennega	MAAS	P.J.M. Maas
GOERTS	A.R.A. Görts	MORI	Scott Mori
HVDW	H. v.d. Werff	P.BAK	P. Bak
LEME	E. Leme	RAUH	W. Rauh
LEU	B. Leuenberger	SCHLL	A.D. Schilling

Source of illustrations used:

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

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Aceraceae

1. G V 77RD00309 *Acer davidii* Franch. subsp. *davidii*
2. G I --ZG00997 *Acer micranthum* Siebold & Zucc.

Amaranthaceae

3. S I 74ZE02060 *Achyranthes aspera* L. var. *sicula* L. f. *purpurea* Mair; [JVL 14141] Tenerife, no other details available!
4. S V 74GR00319 *Pleuropetalum darwinii* Hook.f.; [HVDW 178] Galapagos Islands, no other details available!

Aquifoliaceae

5. G V 61RD00653 *Ilex pedunculosa* Miq. var. *pedunculosa*

Araceae

6. G I 84BL00561 *Arisaema candidissimum* W.W.Sm.
7. S I 86BL00395 *Arisaema ciliatum* H.Li var. *liubaense* Gusman & Gouda; [SCHLL s.n.] Nepal, no further details! 1600 m alt.
8. S I 89BL00077 *Arisaema ciliatum* H.Li var. *liubaense* Gusman & Gouda; [CT 369] China, Sichuan Prov.; 81-09-14, Liuba 3600 m alt.
9. G V 86BL00396 *Arisaema flavum* (Forssk.) Schott
10. S I 88BL00405 *Arisaema robustum* (Engl.) Nakai; Korea, Cheju-Do Prov., Cheju-Do (Quelpart Isl.), Mt. Halla. 1350 m alt.
11. S I 84BL00041 *Arisaema triphyllum* (L.) Schott; U.S.A., Virginia Rappahannock County, no further details!

Aristolochiaceae

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



Pleuropetalum darwinii Hook.f. (Amaranthaceae)

Asteraceae

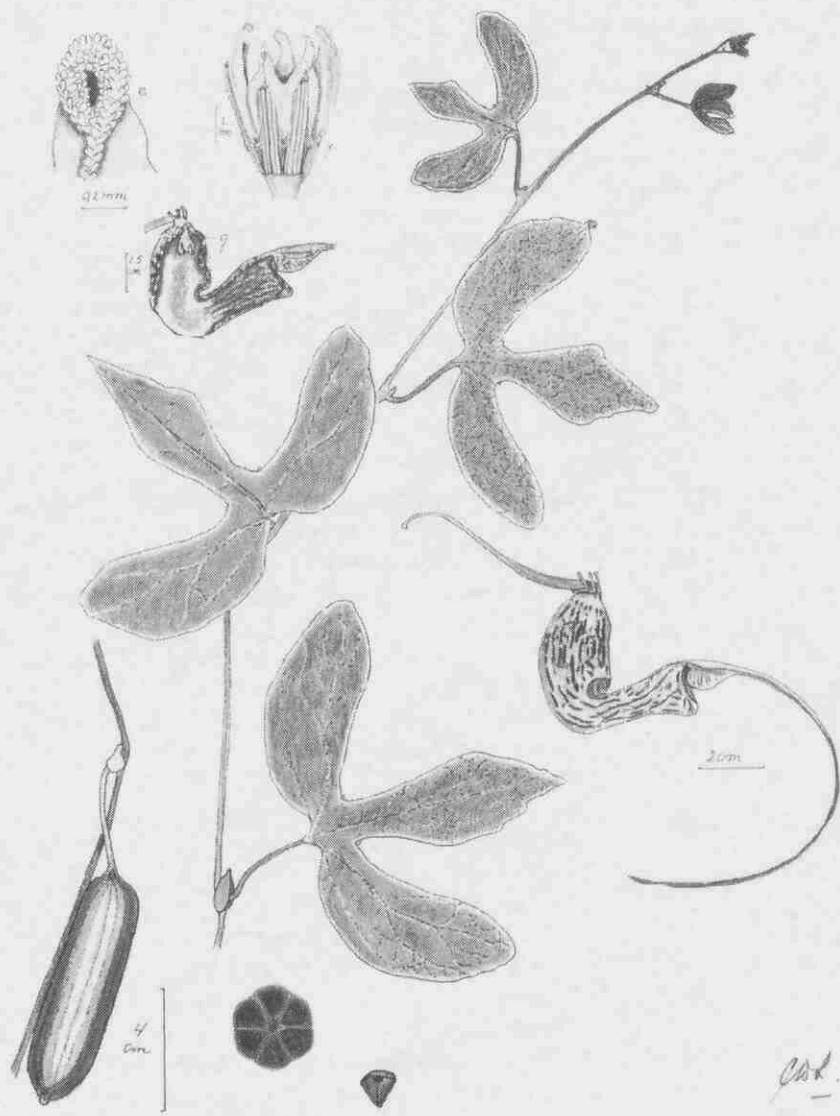
15. S V 62BL00274 *Aster alpinus* L.; France, without locality.
 16. S I 96BL00417 *Aster foliaceus* Lindl. (*A.subspicatus* Nees); Canada, B.C, Peace River District.
 17. S I 91ZS00459 *Centaurea scabiosa* L.; Germany, Thüringen, Jena.
 18. S V 92ZS00325 *Echinacea purpurea* (L.) Moench; Canada, Ontario, no further details!
 19. S V 91ZS00462 *Eupatorium cannabinum* L.; Germany, Sachsen-Anhalt, Stolberg.
 20. S V 65BL00167 *Leontopodium alpinum* Cass. subsp. *alpinum*; Germany, without locality.
 21. G V 94GR00044 *Mutisia coccinea* St.-Hil. var. *coccinea*
 22. S V 90ZE00538 *Sanvitalia procumbens* Lam.; Mexico, Km.26, carretera Jolalpan-Axochiapan, Morelos.

Boraginaceae

23. S V 91ZE01573 *Asperugo procumbens* L.; Sweden, Angermanland, Tasjo Parish, Hoting railway stn.
 24. S V 80ZE00034 *Lithospermum officinale* L.; Canada, Clarenceville, Co. Missisquoi.

Bromeliaceae

25. S S 98GR00035 *Aechmea melinonii* Hook.; [MOONEN s.n.] French Guiana, without locality.
 26. S I 96GR00653 *Aechmea nudicaulis* (L.) Griseb. var. *nudicaulis*; [LEU 30] Brazil, Bahia, Mun. Camaca, Estrada BR101, 2 km S Camaca, "mata higrofila" with Cacao. Epiphyt.
 27. S S 95GR00766 *Fosterella penduliflora* (C.H.Wright) L.B.Sm.; [C.GOUDA s.n.] Bolivia, without locality. 2600 m alt.
 28. S S 96GR00122 *Fosterella penduliflora* (C.H.Wright) L.B.Sm.; [C.GOUDA 95-38b] Bolivia, Pto. Villa.
 29. S V 98GR01588 *Guzmania teuscheri* L.B.Sm.; [P.Bak s.n.] Ecuador, without locality.
 30. S V 96GR01267 *Pitcairnia aureobrunnea* Rauh; [RAUH 53677] Peru, dept. San Martin, between Tarapoto and Yrimaguas. 500 m alt.
 31. G V 96GR00872 *Pitcairnia tabuliformis* Lind.
 32. S S 96GR00578 *Streptocalyx longifolius* (Rudge) Baker; [GOERTS s.n.] French Guiana, Mt. Tortue, 88-06-17. 250-450 m alt.



Aristolochia trilobata L. (Aristolochiaceae)

33. S S 96GR00132 *Tillandsia juncea* (Ruiz & Pav.) Poir.; [C.GOUDA 95-9b] Bolivia, Pirana. 2000 m alt.
34. S V 98GR00891 *Vriesea racinae* L.B.Sm.; [LEME s.n.] Brazil, Espirito Santo, Alfredo Chaves.
35. S I 93GR00747 *Vriesea splendens* (Brongn.) Lem. var. *formosa* Suringar ex Witte; [MAAS s.n.] Trinidad, Maracas La Cuevas Trail. 650 m alt.

Buddlejaceae

36. S 99RD01423 *Buddleja albiflora* Hemsl.; N.China, Gansu, Mt.Maiji, by the waterside, 1500 m alt.

Campanulaceae

37. S I 90BL00367 *Campanula sabatia* De Not.; Italia, Altopiano delle Manie (SV). 300 m alt.
38. S V 90BL00946 *Edraianthus graminifolius* (L.) A.DC.; Germany, Kröchtendorff.

Caprifoliaceae

39. K V 85RD00389 *Heptacodium miconioides* Rehder

Caryophyllaceae

40. G I 83BL00090 *Dianthus knappii* (Pant.) Asch. & Kanitz ex Borbás
41. S I 94BL00254 *Dianthus superbus* L. subsp. *superbus*; Japan, Hokkaido, Ishkari-gun.
42. S I 93BL00776 *Dianthus sylvestris* Wulfen; France, Aude, Montagne de Tauch.
43. S I 94BL00406 *Dianthus viscidus* Bory & Chaub.; Greece, Macedonia, Nomos, Kastorias, Pefkos/Kastoria, calcareous. 1350 m alt.
44. S V 91ZE00752 *Silene gallica* L.; Italia, Grosseto, Il Puntone.

Celastraceae

45. S V 77RD00142 *Tripterygium regelii* Sprague & Takeda; Korea, Sorok National Park, no further details!



Dipsacus fullonum L. (Dipsacaceae)

Cistaceae

46. S I 66ZE02115 *Tuberaria guttata* (L.) Fourr.; [EAM s.n.] Spain, near Camping Leiro, between Orense and Vigo.

Clusiaceae

47. S V 97ZS00557 *Hypericum hirsutum* L.; Sweden, Öland, Runsten parish.

Commelinaceae

48. S V 91ZS00825 *Tradescantia ohiensis* Raf.; U.S.A., Pennsylvania, grounds Bowman's Hill Wildflower Preserve.

Crassulaceae

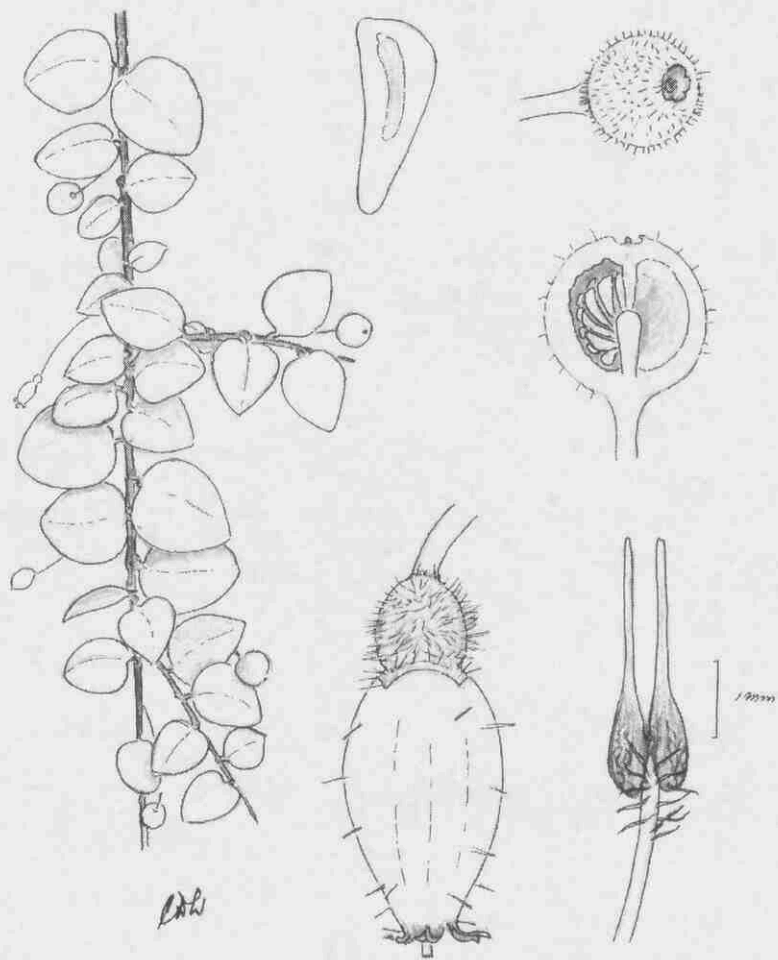
49. G I 77BL00079 *Chiastophyllum oppositifolium* (Ledeb. ex Nordm.) Berger
50. S S 93BL00010 *Sedum obtusifolium* C.A.Mey.; [AH 33] Turkey, Prov. Bolu, 20 km S. of Gerede., W. of the road to Kizilcahaman. 1350 m alt.

Dipsacaceae

51. S V 91ZE00259 *Dipsacus fullonum* L.; Switzerland, Reinach, Reinacherheide. 280 m alt.
52. S V 80ZS00031 *Knautia arvensis* (L.) Coult.; Norway, Sør-Trøndelag, Trondheim, Siem.

Ericaceae

53. G I --ZG00184 *Enkianthus cernuus* (Siebold & Zucc.) Makino var. *rubens* (Maxim.) Makino
54. G I --ZG00034 *Kalmia angustifolia* L.
55. G I --ZG01222 *Kalmia latifolia* L.
56. S V 81RD00154 *Kalmia polifolia* Wangeh.; Canada, Quebec, Dep. Lac Chouminiche, Parc des Laurentides.



Sphrospermum buxifolium Poepp. & Endl. (Ericaceae)

57. G I --ZG00883 *Leucothoe fontanesiana* (Steud.) Sleumer
 58. G I --ZG00037 *Pieris floribunda* (Pursh ex Sims) Benth. & Hook.f.
 59. G I --ZG00097 *Rhododendron canadense* (L.) Torr.
 60. S S 84GR00467 *Spherospermum buxifolium* Poepp. & Endl.;
 [C.GOUDA s.n.] Ecuador, without locality.
 61. G I --ZG01146 *Zenobia pulverulenta* (W.Bartram ex Willd.) Pollard

Fabaceae

62. S V 80ZS00009 *Astragalus glycyphyllos* L.; France, Saône (Doubs), sol
 neutre ou légèrement acide, ezpo. ensoleillée. 380 m
 alt.
 63. S V 93ZE00663 *Lathyrus aphaca* L.; N.Italy, Gorges de Saorge, near
 Savona. 400 m alt.
 64. S V 72ZE02110 *Lathyrus clymenum* L.; France, E. Pyrenees,
 Roussillon, Corniche catalane: Port-Vendres, Banyuls,
 Cerbère,
 65. S V 87ZS00040 *Lathyrus tuberosus* L.; USSR, Tauria, no further data!

Gentianaceae

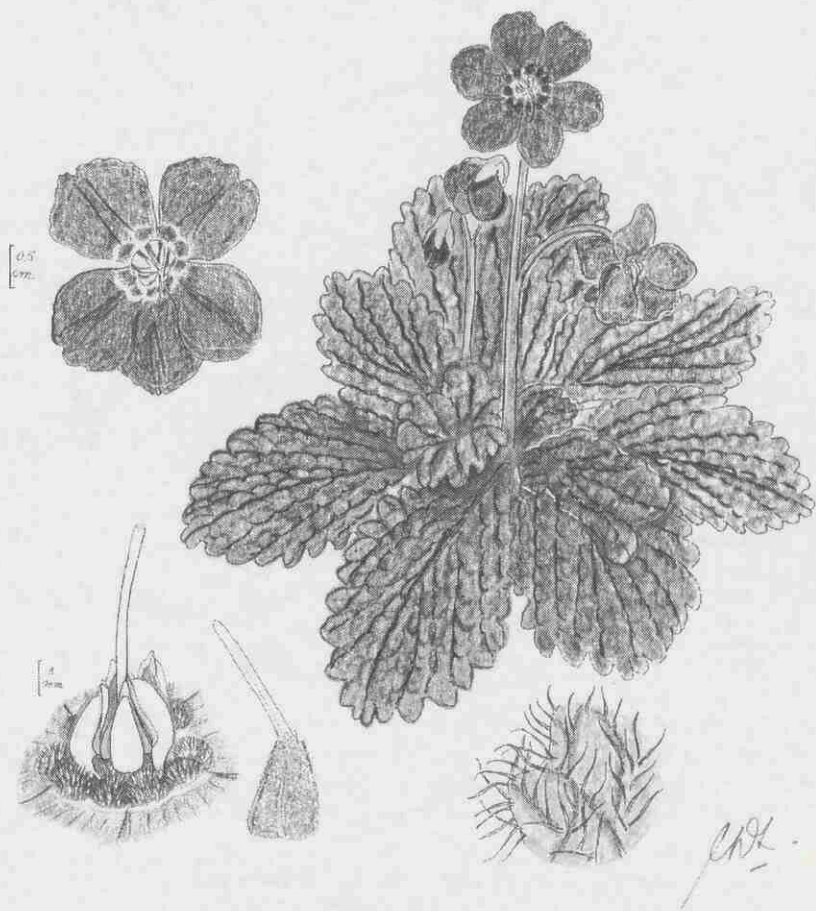
66. S V 83BL00287 *Gentiana affinis* Griseb.; U.S.A. Oregon, no other
 details available!
 67. G I 68BL00059 *Gentiana cruciata* L. subsp. *cruciata*

Geraniaceae

68. S V 98ZE00595 *Geranium rotundifolium* L.; France, Doubs, Besançon
 (Chaudanne). 320 m alt.
 69. S V 94BL00072 *Geranium thunbergii* Siebold & Zucc.; S.Korea, Cheju
 Isl., Mt. Halla. 500 m. alt.

Gesneriaceae

70. S I 81BL00241 *Haberlea rhodopensis* Friv.; [CYT 24905] Bulgaria,
 Rodopen Mts., along road Cudnite Metova, near
 Cepelare, 1050 m alt.
 71. G V 65BL00453 *Ramonda myconi* (L.) Rchb.
 72. S I 82BL00132 *Ramonda nathaliae* Pancic & Petrovic; Yugoslavia,
 Titov Veles. 230 m alt.



Ramonda myconi (L.) Rchb. (*Gesneriaceae*)

Globulariaceae

73. S I 97BL01097 *Globularia elongata* Hegetschw.; Switzerland, Ain. 740 m alt.

Iridaceae

74. G I 77BL00409 *Iris magnifica* Vved.

Lamiaceae

75. S I 84GR00273 *Scutellaria speciosa* Epling; [MAAS 5962] Peru, Dept. San Martin, Road Tarapoto - Juanjui, km 25, dry forest, collected from type location.

Liliaceae

76. S V 77BL00064 *Allium cernuum* Roth; Canada, B.C. Cranbrook.
77. S V 90BL00511 *Allium insubricum* Boiss. & Reut.; no further details!
78. S I 80GR00248 *Bomarea edulis* (Tussac) Herb.; [L&G 455] Suriname, Kabelebo area, along Barieba Creek.
79. S I 62BL00310 *Ornithogalum pyramidale* L.; [EAM s.n.] Spain, Desfiladeno de Despenaperros.

Lythraceae

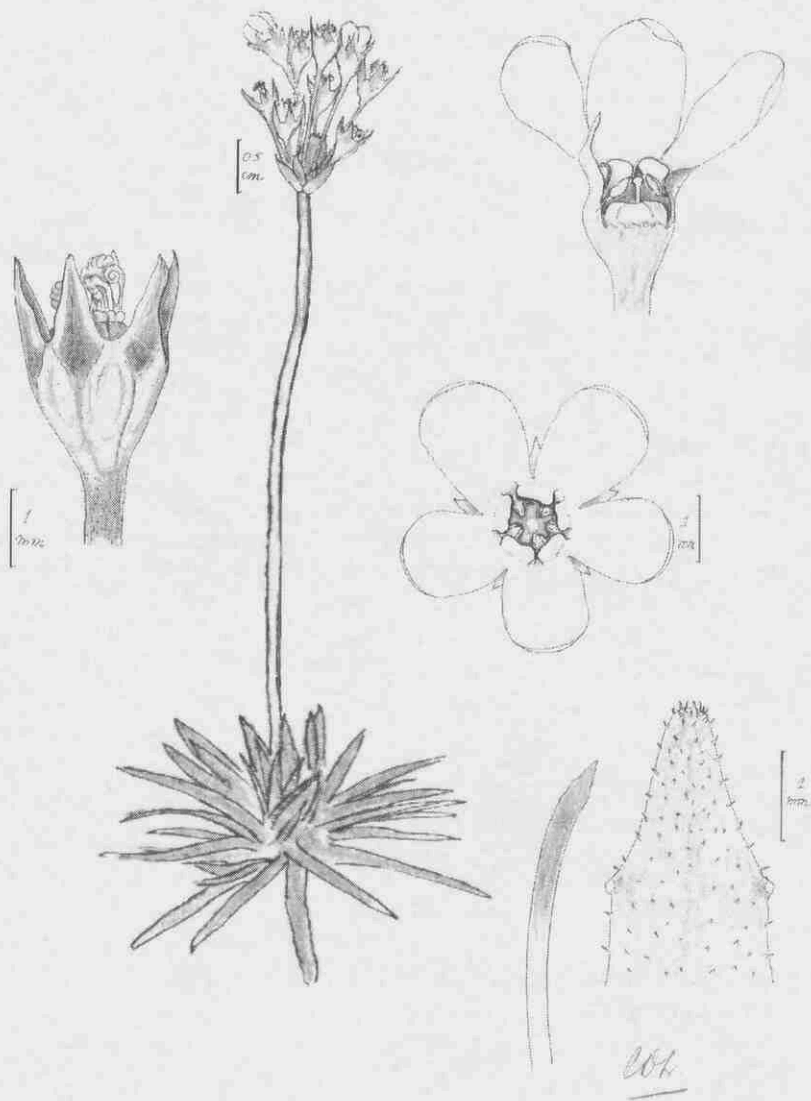
80. S V 90ZE00952 *Lythrum hyssopifolia* L.; (East) Germany, Kreiss Prensleu, Güstow.

Magnoliaceae

81. G I --ZG00099 *Liriodendron tulipifera* L.
82. G V 65RD00047 *Magnolia tripetala* (L.) L.
83. G I --ZG01144 *Magnolia virginiana* L.

Malvaceae

84. S 92GR00179 *Urena lobata* L. subsp. *lobata*; Japan, Honshu, Tanegashima, Exp. St. of Med. Plants, Kumage-gun, Kagoshima Pref.



Androsace brigantiaca Jord. & Fourr. (Primulaceae)

Onagraceae

85. S I 87BL00202 *Epilobium fleischeri* Hochst.; Switzerland, Wallis, no further details!
86. S S 80GR00318 *Fuchsia paniculata* Lindl.; [MAAS 4985] Panama, Chiriqui Mt. wood near Guadeloupe, 2 km N. of Cerro Punta. 1800 m alt.

Papaveraceae

87. S V 94ZE00639 *Papaver argemone* L.; Sweden, Öland, Torslunda parish, Eriksöre, roadside.
88. S V 91ZE00686 *Papaver dubium* L.; Belgium, Ruines de Montaigle, Bord de Chemin.

Poaceae

89. S V 91ZS00221 *Briza media* L.; Austria, Niederösterreich, Hundsheimer Berge. 400 m alt.

Primulaceae

90. S S 94BL01450 *Androsace brigantiaca* Jord. & Fourr.; France, Isère.
91. S V 93BL00179 *Dodecatheon meadia* L.; USA, Arkansas, Benton Co.
92. S I 83BL00281 *Dodecatheon pulchellum* (Raf.) Merr. subsp. *pulchellum*; U.S.A., N.W. Oregon; 1982.
93. S V 90ZE00886 *Samolus valerandi* L.; Sweden, Uppland, Hållnäs parish.

Ranunculaceae

94. S V 81BL00206 *Aconitum orientale* Mill.; USSR, Northern Caucasus Mts., Karachai-Cherkessk, Autonomous Region, vicinity of Karachayevsk, stream edges, 1600 m alt.

Rosaceae

95. S V 91ZS00360 *Agrimonia procera* Wallr.; Germany, Berlin, Wippra/
Hettstedt.
96. S I 77BL00298 *Potentilla recta* L.; [Y 17398] Servia, Lovac, maedow
1100 m alt.

Sciadopityaceae

97. G I --ZG01861 *Sciadopitys verticillata* (Thunb. ex Murray) Siebold &
Zucc.

Scrophulariaceae

98. G V 72BL00099 *Digitalis grandiflora* Mill.
99. S I 90BL00944 *Linaria genistifolia* (L.) Mill. subsp. *genistifolia*;
Bulgaria, Rhodopen Mts.
100. S V 96BL00291 *Penstemon alpinus* Torr.; U.S.A., Colorado, Jefferson
County, 2300 m alt.
101. S V 94ZS00753 *Scrophularia nodosa* L.; Germany, Sachsen-Anhalt,
Dessau.
102. G I 66BL00018 *Wulfenia carinthiaca* Jacq.

Styracaceae

103. K V 64RD00305 *Halesia carolina* L. var. *carolina*

Symplocaceae

104. G V --ZG00909 *Symplocos paniculata* (Thunb. ex Murray) Miq.



