



# Index seminarum

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# *Index Seminum*

*Utrecht University  
Botanic Gardens  
The Netherlands*



Universiteit Utrecht

*No. 42-2000*

UNIVERSITEITSBIBLIOTHEEK UTRECHT



4216 3729

# *Utrecht University*

## *Botanic Gardens*

P.O. Box 80.162  
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The Netherlands

### *Index Seminum No. 42 - 2000*

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## Staff

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**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:

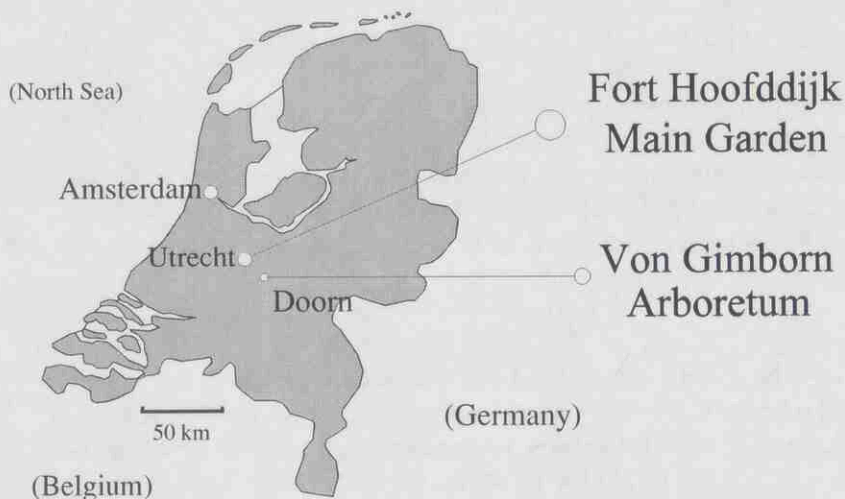
Geographical position of the Main Garden ..... 52° 06' N : 5° 11' E  
Altitude ..... 2 m above sea level  
Geographical position of the Von Gimborn Arboretum 52° 00' N : 5° 20' E  
Altitude ..... 3 m above sea level

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. 42-2000 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 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	LEU	B. Leuenberger
C.GOUDA	C. Gouda	MOONEN	J. Moonen
CT	C. Theune	MAAS	P.J.M. Maas
CYT	Cytotaxonomy U.U.	MORI	Scott Mori
EAM	Erik A. Mennega	SCHLL	A.D. Schilling
ERN	H. Ern	J.T.	J. Tolsma
F.BI	F. Billiet	WOLB	L.J.W.v.d.Wollenberg
HRT	H. 't Hart	W.TILL	W. Till
HVDW	H. v.d. Werff	Y	Cytotax., Utrecht Univ. Collected in: Yugoslavia

### Source of illustrations used:

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

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Aceraceae

1. K V 78RD00724 *Acer triflorum* Kom.

Agavaceae

2. G I 73GR00602 *Doryanthes palmeri* A.W.Hill

Amaranthaceae

3. S V 74GR00319 *Pleuropetalum darwinii* Hook.f.; [HVDW 178]  
Galapagos Islands.

Apiaceae

4. G I 71BL00200 *Eryngium amethystinum* L.

Aquifoliaceae

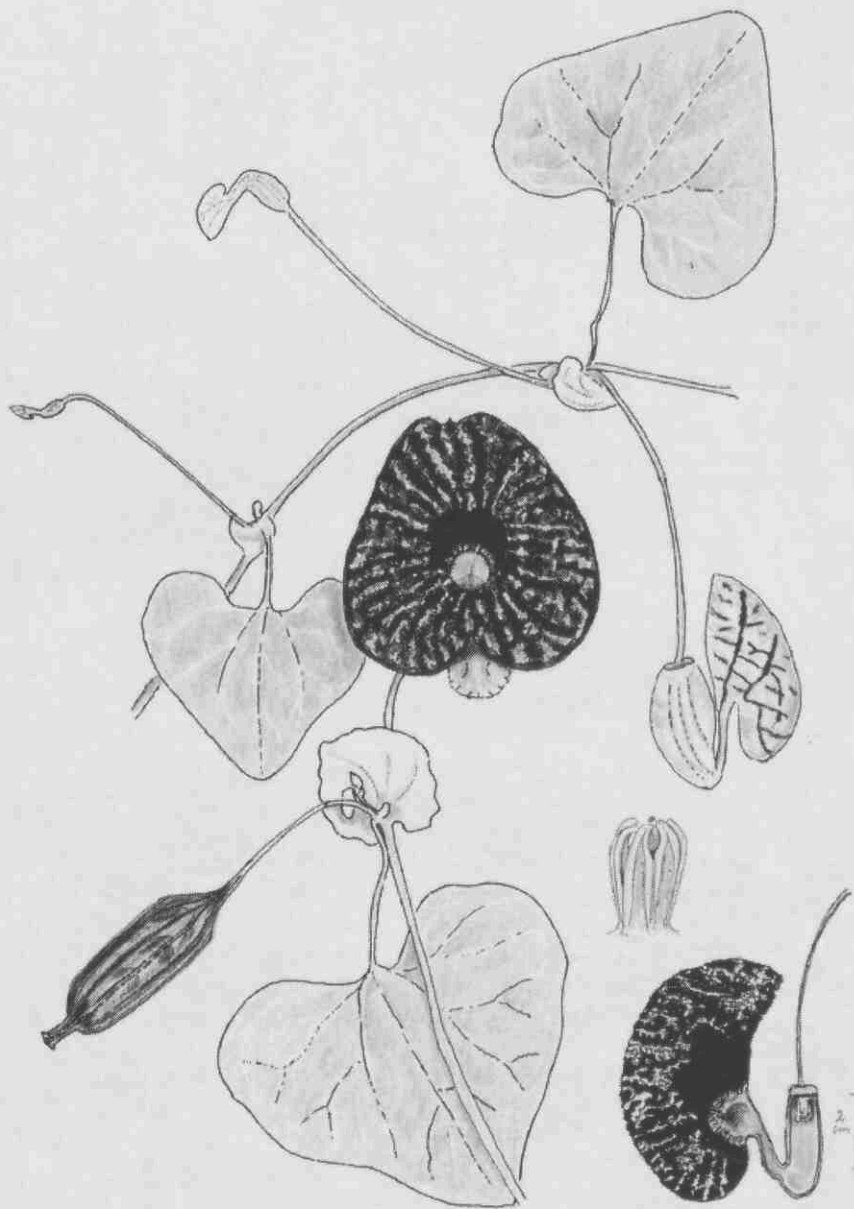
5. G V 61RD00653 *Ilex pedunculosa* Miq. var. *pedunculosa*

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, 1600 m alt., no locality.  
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 84BL00036 *Arisaema flavum* (Forssk.) Schott  
10. S I 84BL00041 *Arisaema triphyllum* (L.) Schott; U.S.A., Virginia  
Rappahannock County, no further details!

Aristolochiaceae

11. S I 92GR00988 *Aristolochia littoralis* Parodi; El Salvador, Acajutla.  
12. S V 92GR00904 *Aristolochia trilobata* L.; [MORI 22351] French  
Guiana, Saül.



*Aristolochia littoralis* Parodi (Aristolochiaceae)

Asteraceae

13. S I 96BL00417 *Aster foliaceus* Lindl. (*A. subspicatus* Nees); Canada, B.C, Peace River District.
14. S I 88GR00053 *Chaptalia ignota* Burkart; Argentina, Iquazu, Las Orquideas.
15. S V 92ZS00325 *Echinacea purpurea* (L.) Moench; Canada, Ontario, no further details!
16. S V 65BL00167 *Leontopodium alpinum* Cass. subsp. *alpinum*; Germany, without locality.
17. G V 94GR00044 *Mutisia coccinea* St.-Hil. var. *coccinea*
18. S I 75ZS00023 *Silphium integrifolium* Michx.; USA, N. America, no further data!
19. S I 75ZB00011 *Vernonia altissima* Nutt.; [A s.n.] U.S of N. America, Kentucky, Between Louisville and Lexington, no further details.

Betulaceae

20. G V 79RD00116 *Carpinus japonica* Blume

Boraginaceae

21. S V 91ZE01573 *Asperugo procumbens* L.; Sweden, Angermanland, Tasjo Parish, Hoting railway stn.

Brassicaceae

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

Bromeliaceae

23. S I 90GR00250 *Aechmea aquilega* (Salisb.) Griseb. var. *aquilega*; [F.BI s.n.] French Guiana, forêt primaire de Cacao.
24. S S 97GR01018 *Aechmea bromeliifolia* (Rudge) Baker; Surinam, Brownsberg.
25. G I 99GR00130 *Aechmea chlorophylla* L.B.Sm.



*Mutisia coccinea* St.-Hil. var. *coccinea* (Asteraceae)

26. S V 97GR00563 *Aechmea lueddemanniana* (K. Koch) Mez; [W.TILL 7048] Costa Rica, Prov. Cartago, ruta 10 from Cervantes to Birrisito, 8 kms after Cervantes; 21.2.1991. 1330 m. alt.
27. S I 96GR00653 *Aechmea nudicaulis* (L.) Griseb. var. *nudicaulis*; [LEU 309] Brazil, Bahia, Mun. Camaca, Estrada BR101, 2 km S Camaca.
28. S S 99GR00800 *Aechmea tocantina* Baker; Surinam, without locality.
29. S I 98GR00686 *Araeococcus goeldianus* L.B.Sm.; [MOONEN 204] French Guiana, Savanne Roche 14 Julliet
30. S I 95GR00028 *Araeococcus micranthus* Brongn.; [WOLB s.n.] French Guiana, Trosor area, Crique Favard.
31. G S 99GR00806 *Billbergia mexicana* Mez
32. G S 98GR00469 *Billbergia viridiflora* H.Wendland
33. S S 95GR00766 *Fosterella penduliflora* (C.H.Wright) L.B.Sm.; [C.GOUDA s.n.] Bolivia, without locality. 2600 m. alt.
34. S I 94GR02163 *Pitcairnia rubiginosa* Baker; [MOONEN s.n.] French Guiana, 20 Km to Regina (Mts. Petites Tortues), steep rock, left side of road.
35. S I 93GR00747 *Vriesea splendens* (Brongn.) Lem. var. *formosa* Suringar ex Witte; [MAAS s.n.] Trinidad, Maracas La Cuevas Trail. 650 m. alt.

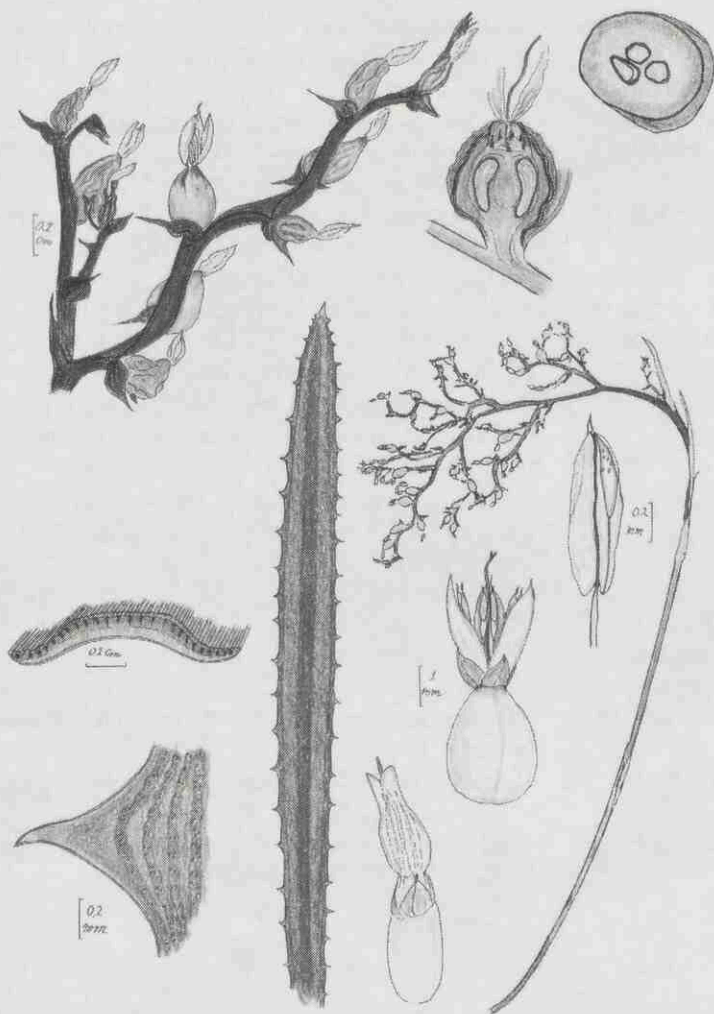
#### Campanulaceae

36. S V 94BL00069 *Adenophora lilifolia* (L.) Ledeb. ex A.DC.; Rumania, Prejmer - Distr. Brasov.
37. S V 98BL00925 *Campanula takesimana* Nakai; South Korea, To-Dong, Ullung-Gun, Kyongsang Pukto. 150 m. alt.
38. S V 94ZE00502 *Wahlenbergia hederacea* (L.) Rchb.; France, Orne, Lonlay l'Abbaye, "La Lande Pourrie".

#### Caprifoliaceae

39. K V 85RD00389 *Heptacodium miconioides* Rehder





*Araecoccus micranthus* Brongn. (Bromeliaceae)

Caryophyllaceae

40. S I 97ZE00126 *Arenaria serpyllifolia* L.; France, Chenôve.  
41. S I 72BL00206 *Cerastium boissieri* Gren.; Spain, Prov. de Granada, Sierra Nevada. 2000 m. alt.  
42. S I 82BL00048 *Dianthus amurensis* Jacq.; Russia, Siberia, no further details!  
43. S I 94BL00406 *Dianthus viscidus* Bory & Chaub.; Greece, Macedonia, Nomos, Kastorias, Pefkos/Kastoria, calcareous. 1350 m. alt.  
44. S V 88ZE00031 *Lychnis coronaria* (L.) Desr. in Lam.; Bulgaria, no further details!

Celastraceae

45. G V 80RD00222 *Euonymus bungeanus* Maxim. var. *bungeanus*

Cistaceae

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

Clusiaceae

47. S I 91ZS00527 *Hypericum maculatum* Crantz; Norway, Oslo, Nordmarka, Skjærsoelva, 310 m. alt.

Commelinaceae

48. S V 91ZE00816 *Commelina communis* L.; Germany, Berckenbrück, Fürstenwalde.  
49. S V 91ZS00825 *Tradescantia ohiensis* Raf.; U.S.A., Pennsylvania, grounds Bowman's Hill Wildflower Preserve.



*Sedum obtusifolium* C.A.Mey. (Crassulaceae)

Crassulaceae

50. S S 92HR29512 *Sedum dasyphyllum* L.; [HRT 29512] Spain, near Granada, Sierra Nevada. 2150 m. alt.  
 51. 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

52. S V 91ZE00259 *Dipsacus fullonum* L.; Switzerland, Reinach, Reinacherheide. 280 m. alt.  
 53. S I 99BL00569 *Scabiosa argentea* L.; Rumania, Cistr. Constanza, Vama Veche.  
 54. S V 97ZS00134 *Scabiosa columbaria* L.; Germany, Thüringen, near Engerda.

Ericaceae

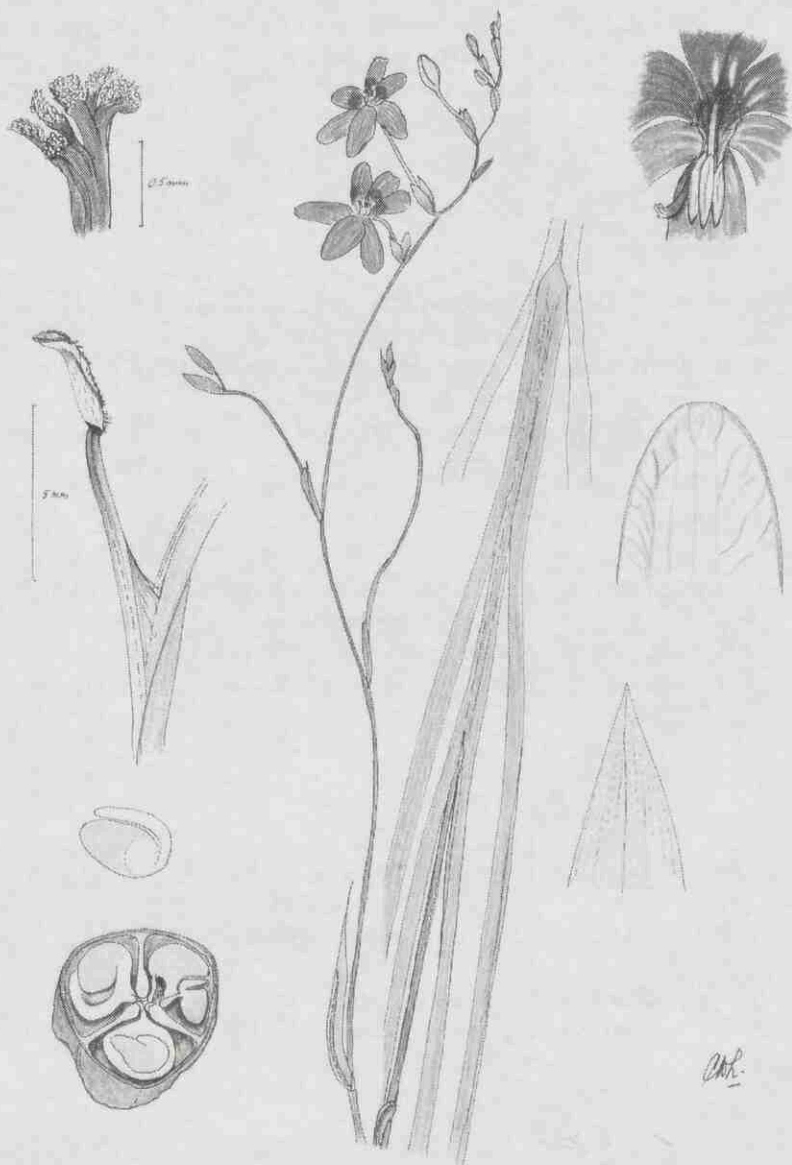
55. G I --ZG00184 *Enkianthus cernuus* (Siebold & Zucc.) Makino var. *rubens* (Maxim.) Makino  
 56. G I --ZG00097 *Rhododendron canadense* (L.) Torr.  
 57. G I --ZG01146 *Zenobia pulverulenta* (W.Bartram ex Willd.) Pollard

Fabaceae

58. S V 72ZE02110 *Lathyrus clymenum* L.; France, E. Pyrenees, Roussillon, Corniche catalane: Port-Vendres, Banyuls, Cerbère, on coastal cliffs.  
 59. S V 98ZS00171 *Lathyrus latifolius* L.; Germany, Güstebieser Loose / Märkisch-Oderland.  
 60. S V 71ZE00834 *Lathyrus odoratus* L.; Italy, Sicily.  
 61. S V 91ZE00759 *Lupinus angustifolius* L.; Portugal, prov. Estremadura, Rio de Mouro, Sintra.

Gentianaceae

62. S V 96BL00902 *Blackstonia perfoliata* (L.) Huds. subsp. *perfoliata*; France, Ardenne, Sechault Haut des Monts. 180 m. alt.



*Lapeirousia laxa* (Thunb.) N.E.Br. (Iridaceae)

63. G I 92BL00745 *Centaurium chloodes* (Brot.) Sampaio  
 64. S I 97ZE00357 *Centaurium erythraea* Rafn subsp. *erythraea*; Germany, Nordrhein Westfalen, Lengerich.  
 65. S V 83BL00287 *Gentiana affinis* Griseb.; U.S.A. Oregon, no other details.  
 66. G V 93BL00042 *Gentiana septemfida* Pall. subsp. *septemfida*

#### Geraniaceae

67. S I 95ZE00330 *Erodium cicutarium* (L.) L'Hér. ex Aiton subsp. *dunense* Andreas; France, Dept. Vendée, Ile de Noirmoutier, 'Les Sableaux'.  
 68. S V 87BL00423 *Geranium soboliferum* Kom.; Japan, Oshino-muro, near Mt. Fuji.  
 69. S V 98BL00788 *Geranium swatense* Schonbeck-Temesy; Pakistan, without details.

#### Gesneriaceae

70. G V 65BL00453 *Ramonda myconi* (L.) Rchb.

#### Globulariaceae

71. S V 91BL00238 *Globularia cordifolia* L.; Austria, Alps.  
 72. S V 98BL00265 *Globularia trichosantha* Fisch. & Mey.; Turkey, Pelli-Dag. 2200 m. alt.

#### Iridaceae

73. G I 77BL00409 *Iris magnifica* Vved.  
 74. S I 95BL00180 *Iris sintenisii* Janka subsp. *sintenisii*; Bulgaria, Eastern Sredna Gora Mts.  
 75. G V 68GR00728 *Lapeirousia laxa* (Thunb.) N.E.Br.

#### Juncaceae

76. S V 80ZS00050 *Juncus effusus* L.; W. Hungary, Comit. Vas, opp. Szöce.



77. S V 93BL00754 *Juncus ensifolius* Wikstr.; Canada, British Columbia, Kookeneey Lake, Dandspit.

Lamiaceae

78. S V 94BL00415 *Scutellaria diffusa* Benth.; [ERN 6923] Turkey, Prov. Hatay, Amanus- mts. (Gavur Daglari), Atik.  
79. G I 90BL00804 *Scutellaria indica* L. var. *parvifolia* (Mak.) Mak.  
80. S I 78BL00211 *Sideritis scardica* Griseb.; Greece, Mt. Olympos.  
81. S V 80ZS00008 *Teucrium scorodonia* L.; France, Jura, Champagnole, Abords d'anciennes carrières, sol très calcaire (pierrier), expo. ensoleillée. 500 m. alt.

Liliaceae

82. G V 90BL00511 *Allium insubricum* Boiss. & Reut.  
83. S I 77BL00282 *Tofieldia calyculata* (L.) Wahlenb.; [Y 16606] Italy, Ven Jul. near Platisensis; 1977. 650 m.alt.

Magnoliaceae

84. G I --ZG00099 *Liriodendron tulipifera* L.  
85. G V 65RD00047 *Magnolia tripetala* (L.) L.  
86. G I --ZG01144 *Magnolia virginiana* L.

Oleaceae

87. G I 78RD00427 *Fraxinus sieboldiana* Blume

Onagraceae

88. S I 94ZS02180 *Circaea lutetiana* L.; [J.T. 94-07] The Netherlands, Prov. Utrecht, Nature Trail B.G. Utrecht, "De Uithof". 2 m. alt.

Paeoniaceae

89. G V 67BL00273 *Paeonia mlokosewitschii* Lomakin

Papaveraceae

90. S V 91ZE00686 *Papaver dubium* L.; Belgium, Ruines de Montaigle, Bord de Chemin.  
91. S V 98ZE00094 *Papaver rhoeas* L.; Germany, Vorpommern, W.Greifswald, along the road between Greifswald and Ladebow.

Phytolaccaceae

92. S V 91ZS00782 *Phytolacca americana* L.; O.-Canada, no further details.

Pinaceae

93. G I --ZG00915 *Pseudolarix amabilis* (A.Nelson) Rehder

Polygonaceae

94. S I 75ZS00011 *Tovara virginiana* (L.) Raf.; USA, S. Michigan, no further details.

Primulaceae

95. G I 90BL00120 *Dodecatheon conjugens* E.Greene  
96. S V 93BL00179 *Dodecatheon meadia* L.; USA, Arkansas, Benton Co.  
97. S I 83BL00281 *Dodecatheon pulchellum* (Raf.) Merr. subsp. *pulchellum*; U.S.A., N.W. Oregon.  
98. S I 00BL00753 *Samolus valerandi* L.; The Netherlands, Prov. Overijssel, Twente.

Rosaceae

99. S V 61RD00849 *Physocarpus opulifolius* (L.) Maxim.; Canada, Quebec, no further details.

Saxifragaceae

100. S I 81BL00238 *Saxifraga sempervivum* K.Koch; [CYT T24903]  
Bulgaria, Rodopen, road Cudnite Mostove - Cepelaze.  
1050 m.alt.

Sciadopytiaceae

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

Scrophulariaceae

102. S V 96BL00291 *Penstemon alpinus* Torr.; U.S.A., Colorado, Jefferson  
County. 2300 m.alt.  
103. S I 91ZS00771 *Veronicastrum sibiricum* (L.) Pennell; Japan, Tokyo  
Pref., Sakamotoenchi, Okutama Town.  
104. G I 66BL00018 *Wulfenia carinthiaca* Jacq.

Styracaceae

105. G I --ZG01006 *Styrax japonica* Siebold & Zucc.

Symplocaceae

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

Valerianaceae

107. S V 98ZS00600 *Centranthus ruber* (L.) DC.; France, Rumengol.  
108. S V 96ZS00279 *Valeriana dioica* L.; France, Dept. du Jura, Narlay,  
Bord de lac, moist peat soil, 850 m. alt.

Verbenaceae

109. G I 76GR00299 *Clerodendrum speciosissimum* Van Geert



1880  
No. 1000

1880  
No. 1000

1880  
No. 1000

1880  
No. 1000

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