



Index seminarum

<https://hdl.handle.net/1874/433748>

Index Seminum

*Utrecht University
Botanic Gardens
The Netherlands*



Universiteit Utrecht

No. 40-1998

UNIVERSITEITSBIBLIOTHEEK UTRECHT



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Index Seminum No. 40 - 1998

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- * Only requests, with a maximum of 25 packets, reaching us before **March 1, 1999** will be handled in sequence of entry.
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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/>

(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. 40-1998 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:

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 start his research for six month on July 1st. 1999., which will be devoted to our Aceraceae Project. 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 | * 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 "Aceretum", Mr. D.M. v. Gelderen |
| * Botanic Gardens Conservation International (BGCI) | (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:

Many Bromeliaceae from the Guianas have been added to the collection to be studied in the framework of the research project "Flora of the Guianas". The Tillandsioideae as Subfamily of the Bromeliaceae is part of the National Plant Collection (NP). Because Curator Eric J. Gouda is amongst others currently involved in a scientific study on Bromeliaceae, it is evident that our Bromeliaceae Collections will increase dramatically in both size and quality.

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

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 Zingiberaceae

-Annonaceae (Research Collection) [EG]

-Conifers (esp. *Tsuga*) [JT]

-Broad-leaved hardy trees and shrubs: [JT]

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

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

In brackets and bold are the initials given by whom of the curators is given special attention.

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

Jan Tolsma [JT]: Arboretum, Systematic Garden, Theme Garden and

Eric Gouda [EG]: Greenhouse Collections (focal point: Neotropical Collections) and the Rock Garden

Codes used

Explanation of provenance codes:

- E=** Seeds directly 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 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. 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 | J.T. | Jan Tolsma |
| C.GOUDA | C. Gouda | L&G | J.C.Lindeman & |
| CT | C. Theune | | A.R.A.Görts-van Rijn |
| EAM | Erik A. Mennega | MAAS | P.J.M. Maas |
| E.G. | Eric J. Gouda | MJJ | M.J. Jansen-Jacobs |
| EK | R. Ek | MORI | Scott Mori |
| GR&SM | S. Gradstein & Smittenberg | MULDER | T. Mulder - Roelfsema |
| HVDW | H. v.d. Werff | SCHLL | A.D. Schilling |
| JHW | J.H. Willems | WOLB | L.J.W. v.d. Wollenberg |
| JM | J. Moonen | W.TILL | Walter Till |

Source of illustrations used:

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

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

Aceraceae

1. G V 00ZG00986 *Acer cappadocicum* Gled. subsp. *lobelii* (Ten.) P.C.DeJong
2. G V 78RD00888 *Acer carpinifolium* Siebold & Zucc.
3. G V 78RD00934 *Acer caudatum* Wall. subsp. *ukurunduense* (Trautv. & C.A.Mey.) P.C.DeJong
4. K V 79RD00399 *Acer cissifolium* (Siebold & Zucc.) K.Koch
5. G V 00ZG00968 *Acer maximowiczianum* Miq.
6. G V 00ZG00997 *Acer micranthum* Siebold & Zucc.
7. G V 00ZG00960 *Acer tataricum* L. subsp. *tataricum*
8. G V 78RD01101 *Acer tegmentosum* Maxim.

Amaranthaceae

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

Aquifoliaceae

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

Araceae

11. G I 74GR00664 *Aglaonema crispum* (Pitcher & Manda) Nicolson
12. S I 86BL00395 *Arisaema ciliatum* H.Li var. *liubaense* Gusman & Gouda; [SCHLL] Nepal, no further details! 1600 m Alt.
13. S I 89BL00077 *Arisaema ciliatum* H.Li var. *liubaense* Gusman & Gouda; [CT 369] China, Sichuan Prov.; 81-09-14, Liuba 3600 m Alt.

Aristolochiaceae

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

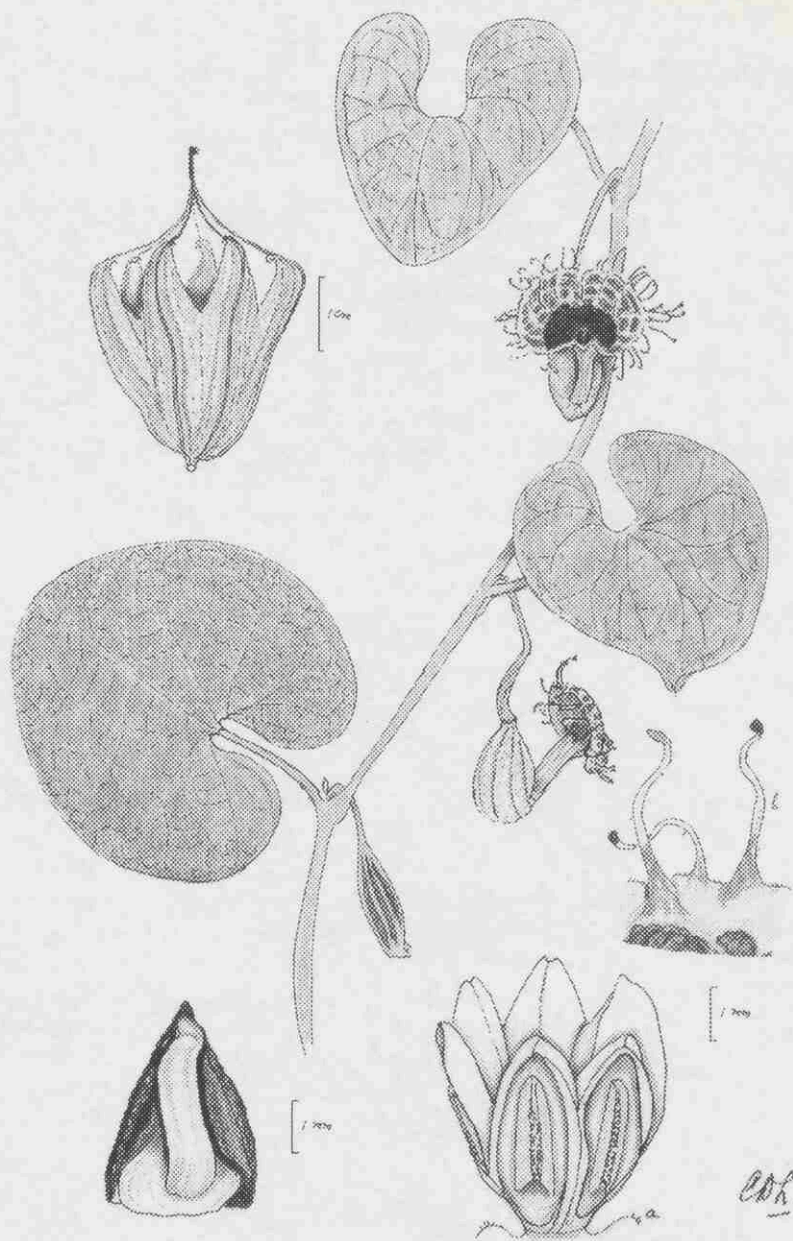


Fig. 1 (#14) *Aristolochia fimbriata* Cham. (Aristolochiaceae)

Asteraceae

17. S I 96BL00417 *Aster foliaceus* Lindl. (*A. subspicatus* Nees); Canada, B.C, Peace River District.
 18. E I 98BL01282 *Homogyne alpina* (L.) Cass.; [E.G. 98.48] Austria, Ötztaler Alps, near Obergurgl, direction of Gurgl Scharl; 98-07-26. 2100 m Alt.
 19. G V 94GR00044 *Mutisia coccinea* St.-Hil. var. *coccinea*
 20. S V 90ZE00538 *Sanvitalia procumbens* Lam.; Mexico, Km.26, carretera Jolalpan-Axochiapa, Morelos.

Brassicaceae

21. S V 65BL00389 *Alyssum alpestre* L.; Switzerland, Hte-Maur., Savoie, Mt. Cenis. 2200 m Alt.
 22. S I 91ZS00974 *Diplotaxis tenuifolia* (L.) DC.; Switzerland, Wallis, no further details! 700 m Alt.

Bromeliaceae

23. 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.
 24. S I 97GR00058 *Aechmea melinonii* Hook.; [JM s.n.] French Guiana, without details.
 25. S I 97GR00007 *Araeococcus goeldianus* L.B.Sm.; [JM-153] French Guiana, Savanne Rouche; 96-09-14
 26. S I 94GR02162 *Araeococcus micranthus* Brongn.; [JM s.n.] French Guiana, near Montagne de Kaw.
 27. S S 95GR00766 *Fosterella penduliflora* (C.H.Wright) L.B.Sm.; [C.GOUDA s.n.] Bolivia, without locality 2600 m Alt.
 28. G S 98GR00242 *Guzmania sphaeroidea* (Andre) Andre
 29. S I 97GR00147 *Mezobromelia capituligera* (Griseb.) J.R.Grant; Ecuador, near Quito road to the coast; 92-05-00
 30. S V 96GR01267 *Pitcairnia aureobrunnea* Rauh; [Rauh 53677] Peru, dept. San Martin, between Tarapoto and Yrimaguas (Type). 500 m Alt.
 31. G V 96GR00429 *Ronnbergia deleonii* L.B.Sm.
 32. S I 95GR00033 *Tillandsia anceps* Lodd.; [WOLB s.n.] French Guiana, Tresor area, Crique Favard.

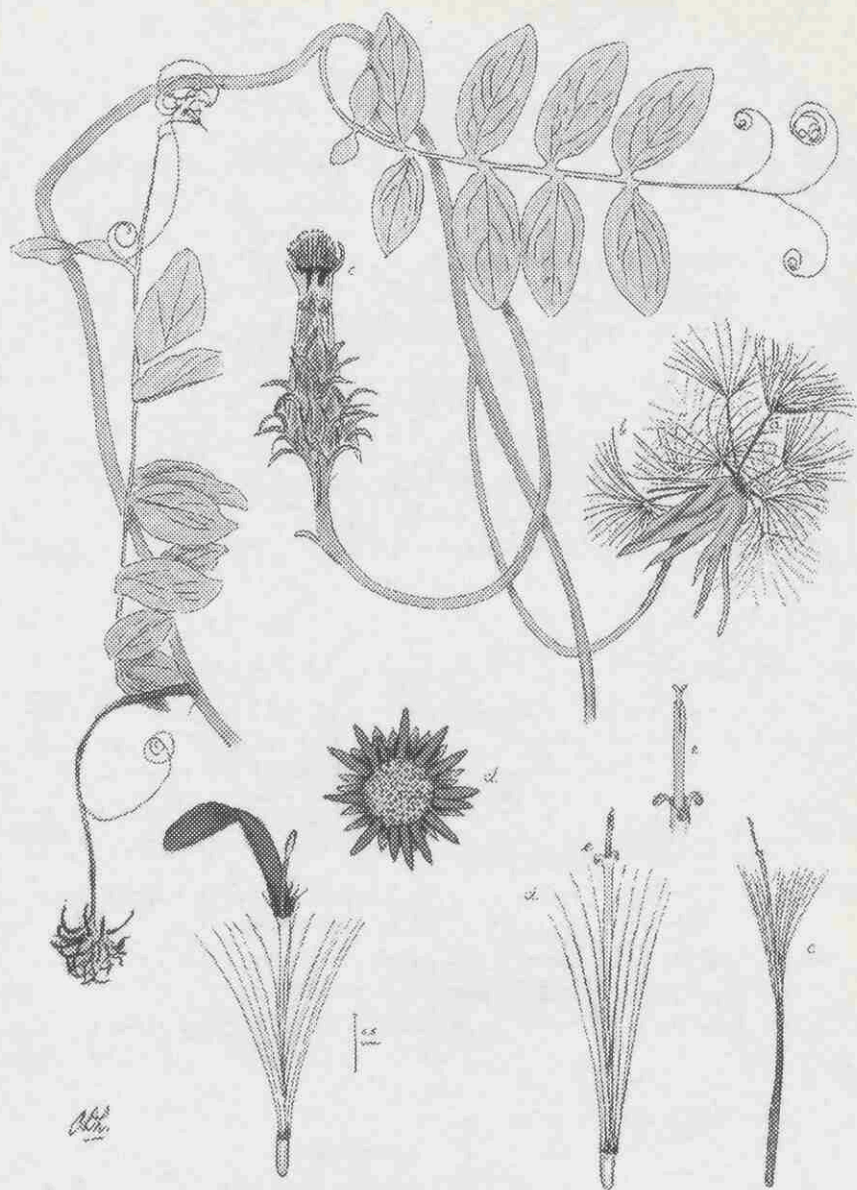


Fig. 2 (#19) *Mutisia coccinea* St.-Hil. var. *coccinea* (Asteraceae)

33. G S 94GR02096 *Tillandsia magnusiana* Wittmack
 34. K V 97GR00051 *Tillandsia oerstediana* L.B.Sm.
 35. S S 97GR00510 *Tillandsia tenuifolia* L. var. *vaginata*; Venezuela, Edo Aragua, Choroní.
 36. U I 94GR01887 *Vriesea correia-araujoi* E.Pereira & Penna; unknown, labels have been switched.
 37. G I 97GR01015 *Vriesea pauperrima* E.Pereira
 38. S I 95GR01187 *Vriesea procera* (Mart. ex Schult.f.) Wittm.; [MAAS s.n.] Brazil, Una Bahia.
 39. S I 94GR02106 *Vriesea rodigasiana* E.Morren; [MULDER] Brazil, without locality.
 40. S V 95GR01216 *Vriesea splendens* (Brongn.) Lem.; [JM s.n.] French Guiana, Piste Grottes de Kaw.

Campanulaceae

41. S I 90BL00367 *Campanula sabatia* De Not.; Italia, Altopiano delle Manie (SV). 300 m Alt.
 42. S V 90BL00946 *Edraianthus graminifolius* (L.) A.DC.; Germany, Kröchtendorff.
 43. S V 91ZE00653 *Jasione montana* L.; Germany, Nordrhein-Westfalen, Niederrhein, Brüggen, R.Seine.

Cannaceae

44. S I 80GR00287 *Canna tuerekheimii* Kraenzl.; [MAAS 4796] Ecuador, Alluriquin area, between Sto. Domingo de los Colorados and Quito, mountain forest; 80-10-00, 850 m Alt.

Caprifoliaceae

45. G V 61RD00626 *Dipelta floribunda* Maxim.
 46. K V 85RD00389 *Heptacodium miconioides* Rehder

Caryophyllaceae

47. S I 94BL00406 *Dianthus viscidus* Bory & Chaub.; Greece, Macedonia, Nomos, Kastorias, Pefkos/Kastoria, calcareous. 1350

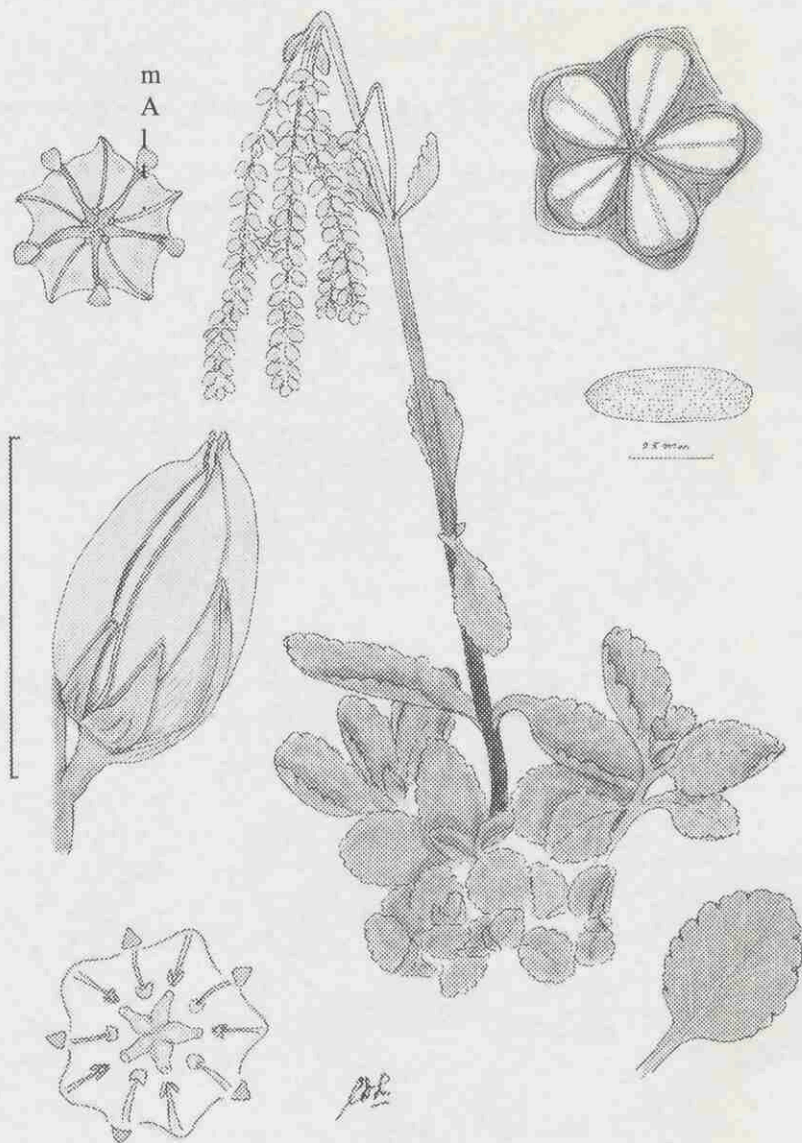


Fig. 3 (#53) *Chiastophyllum oppositifolium* (Ledeb. ex Nordm.) Berger (Crasulaceae)

48. S V 92ZE00172 *Silene noctiflora* L.; France, (Hautes Alpes), Gap, Sigoyer. 1300 m Alt.

Celastraceae

49. S V 77RD00142 *Tripterygium regelii* Sprague & Takeda; Korea, Sorok National Park.

Cistaceae

50. S I 62ZE02137 *Helianthemum ledifolium* (L.) Mill.; [EAM s.n.] Spain, Prov. Malaga, near Estepona, along roadside.

Clusiaceae

51. S V 79BL00172 *Hypericum humifusum* L.; Belgium, Taulx les Tombes

Commelinaceae

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

Crassulaceae

53. G I 77BL00079 *Chiastophyllum oppositifolium* (Ledeb. ex Nordm.) Berger
54. 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

55. S I 94BL00090 *Scabiosa cinerea* Lapeyr. ex Lam. subsp. *cinerea*; Italy, Puglia, Promontorio del Gargano, NE Coast, ca. 2 km. ESE Coppo dei Fossi, Macchie. 150-200 m. Alt.

Ericaceae

56. G I 00ZG00184 *Enkianthus cernuus* (Siebold & Zucc.) Makino var. *rubens* (Maxim.) Makino
57. G I 00ZG00034 *Kalmia angustifolia* L.
58. G I 00ZG01222 *Kalmia latifolia* L.
59. S V 81RD00154 *Kalmia polifolia* Wangenh.; Canada, Quebec, Dep. Lac Chouminiche, Parc des Laurentides; 80-09-10
60. G I 00ZG00883 *Leucothoe fontanesiana* (Steud.) Sleumer
61. G I 00ZG00037 *Pieris floribunda* (Pursh ex Sims) Benth. & Hook.f.
62. G I 00ZG00097 *Rhododendron canadense* (L.) Torr.
63. S S 84GR00467 *Spherospermum buxifolium* Poepp. & Endl.; Ecuador, no further data!
64. G I 00ZG01146 *Zenobia pulverulenta* (W.Bartram ex Willd.) Pollard

Eriocaulaceae

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

Euphorbiaceae

66. S V 91ZE00842 *Euphorbia helioscopia* L.; Belgium, County Brabant, Vilvoorde.
67. S V 82ZE02120 *Mercurialis annua* L.; Germany, Rhein-Main area, "Ruderalgesellschaft", near Frankfurt.
68. G I 78GR00256 *Phyllanthus juglandifolius* Willd.

Fabaceae

69. S I 92RD01148 *Colutea arborescens* L. subsp. *arborescens*; [JHW s.n.] The Netherlands, Prov. Limburg, Hill: St.Pietersberg, Jekerdal-side, near quarry "Schark" on chalk. 100 m Alt.

Gentianaceae

70. S V 83BL00287 *Gentiana affinis* Griseb.; U.S.A. Oregon, no other

71. S I 84BL00516 details available!
Gentiana lutea L. subsp. *lutea*; [J.T. s.n.] France,
Vosges, Le Hohneck road Kastelberg. 1350 m Alt.

Geraniaceae

72. S V 98ZS00292 *Geranium pyrenaicum* Burm.f.; S.E.France, Lux.

Gesneriaceae

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

Iridaceae

74. S V 77BL00056 *Gladiolus imbricatus* L.; Greece, Dahsia (NE of
Alexandropolis). 330 m Alt.

Lardizabalaceae

75. G I 71RD00096 *Akebia quinata* (Thunb. ex Houtt.) Decne.

Liliaceae

76. S V 77BL00064 *Allium cernuum* Roth; Canada, B.C. Cranbrook.
77. S I 62BL00309 *Bellevalia romana* (L.) Rchb.; [EAM s.n.] Italy, at the
foot of M. Foi di Picerno near Potenza.
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.
80. S I 68BL00137 *Ornithogalum sphaerocarpum* A.Kern.; [GR&SM s.n.]
Greece, Isl. Crete, no other details available!

Magnoliaceae

81. G I 00ZG00099 *Liriodendron tulipifera* L.
82. G V 65RD00047 *Magnolia tripetala* (L.) L.
83. G I 00ZG01144 *Magnolia virginiana* L.



Fig. 4 (#78) *Bomarea edulis* (Tussac) Herb. (Liliaceae)

Moraceae

84. K V 91RD00884 *Broussonetia papyrifera* (L.) Vent.

Papaveraceae

85. S V 91ZE00686 *Papaver dubium* L.; Belgium, Ruines de Montaigne, Bord de Chemin.

Passifloraceae

86. S V 97GR00522 *Passiflora rubra* L.; Ecuador, without details.

Pinaceae

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

Plumbaginaceae

88. S V 77BL00177 *Armeria alliacea* (Cav.) Hoffm. & Link; France, Hautes Alpes, Serre Chevalier, (on sand). 1550 m Alt.

Primulaceae

89. S S 94BL01450 *Androsace brigantiaca* Jord. & Fourr.; France, Isère.
90. S V 93BL00179 *Dodecatheon meadia* L.; USA, Arkansas, Benton Co.

Ranunculaceae

91. S V 81BL00206 *Aconitum orientale* Mill.; USSR, Northern Caucasus Mts., Karachai-Cherkessk, Autonomous Region, vicinity of Karachayevsk, (stream edges, 1980). 1600 m Alt.
92. G I 75ZE00311 *Adonis aestivalis* L.
93. E I 98BL01251 *Pulsatilla vernalis* (L.) Mill.; [E.G. 98.17] Austria, Ötztaler Alps, near Obergurgl, Weixelmahder. 2100 m Alt.

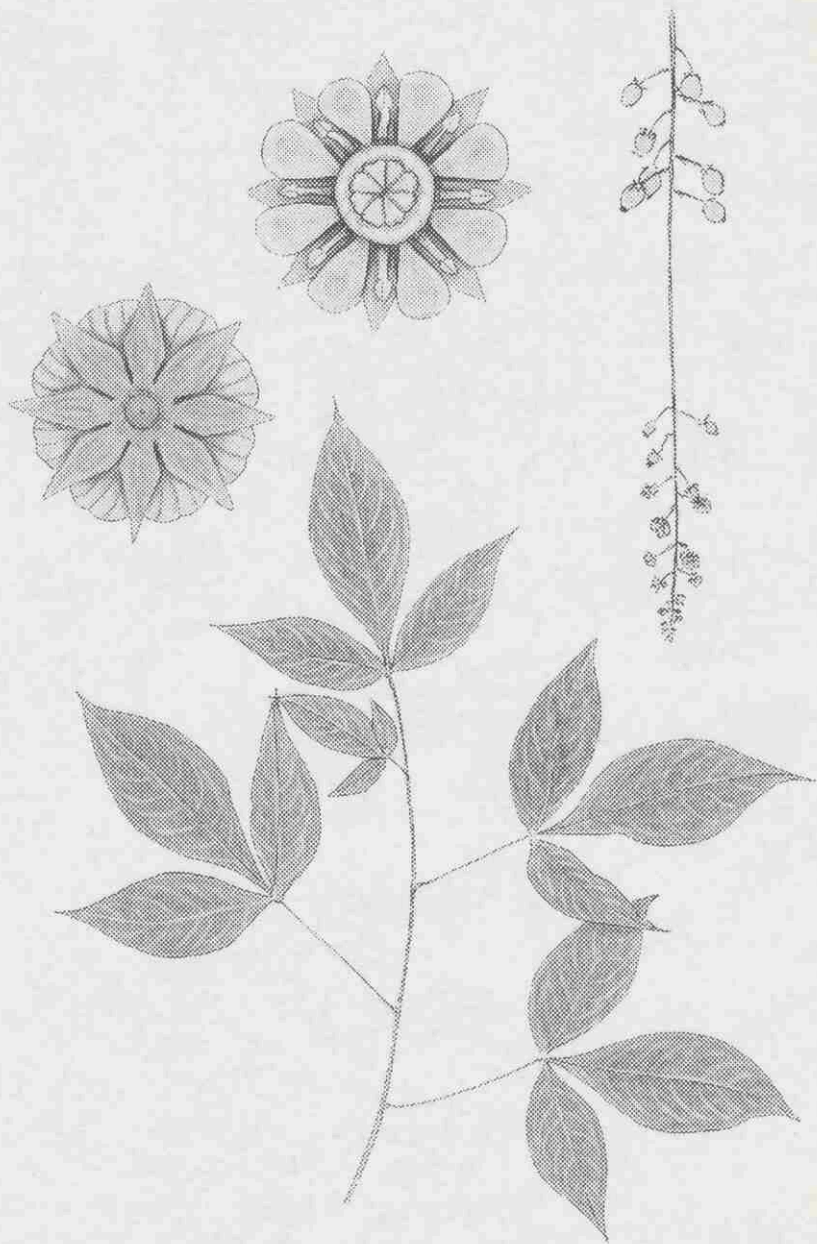


Fig. 5 (#107) *Tovaria pendula* Ruiz & Pav. (Tovariaceae)

Rosaceae

94. S V 94RD00736 *Rosa arvensis* Huds.; The Netherlands, Prov. Limburg, Epen, 'onderste bos', on cretaceous soil.

Rubiaceae

95. G V 90ZE00022 *Asperula cynanchica* L.
96. S I 89GR00095 *Coccocypselum guianense* K.Schum.; [MJJ 1962]
Guyana, Mabura, coll.: Oct.1989.

Saxifragaceae

97. S V 94BL00098 *Saxifraga hostii* Tausch subsp. *hostii*; Slovenia, Jalovec, ascent from Vrsic-Pass. 1600-1750 m Alt.

Sciadopityaceae

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

Scrophulariaceae

99. G V 72BL00099 *Digitalis grandiflora* Mill.
100. S I 90BL00944 *Linaria genistifolia* (L.) Mill. subsp. *genistifolia*;
Bulgaria, Rhodopen Mts.
101. S V 96BL00291 *Penstemon alpinus* Torr.; U.S.A., Colorado, Jefferson
County. 2300 m Alt.
102. S V 95BL01112 *Penstemon digitalis* Nutt.; USA, Michigan, Ingham
County, roadbank above seep. 259 m Alt.

Sterculiaceae

103. G V 87GR00027 *Theobroma cacao* L..

Styracaceae

104. K V 64RD00305 *Halesia carolina* L. var. *carolina*
105. G I 00ZG01006 *Styrax japonica* Siebold & Zucc.

Taxodiaceae

106. S V 61RD01676 *Metasequoia glyptostroboides* Miki ex Hu &
W.C.Cheng; China, Sichuan, Wanxian Co.,
Shui-Hsa-Pa Valley, Modaoqi Village.

Tovariaceae

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

Tropaeolaceae

108. G V 56ZE02149 *Tropaeolum peregrinum* L.

Verbenaceae

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

Zingiberaceae

110. G S 68GR00234 *Brachychilum horsfieldii* (R.Br. ex Wall.) O.G.Peters.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry, no matter how small, should be recorded to ensure the integrity of the financial statements. This includes not only sales and purchases but also expenses and income. The document provides a detailed explanation of how to categorize these transactions correctly, ensuring they are recorded in the appropriate accounts.

The second part of the document focuses on the process of reconciling the books. It explains that reconciliation is a critical step in the accounting cycle, as it allows the accountant to verify that the records are accurate and complete. The document outlines the steps involved in reconciling the books, including comparing the general ledger to bank statements and identifying any discrepancies. It also provides tips on how to handle these discrepancies, such as investigating the cause and making necessary adjustments.

The third part of the document discusses the importance of closing the books at the end of each accounting period. It explains that closing the books involves transferring the balances of temporary accounts (such as sales, expenses, and income) to permanent accounts (such as retained earnings). This process ensures that the financial statements for the period are accurate and that the books are ready for the next period. The document provides a step-by-step guide to closing the books, including the necessary journal entries and the final review of the financial statements.

The fourth part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry, no matter how small, should be recorded to ensure the integrity of the financial statements. This includes not only sales and purchases but also expenses and income. The document provides a detailed explanation of how to categorize these transactions correctly, ensuring they are recorded in the appropriate accounts.

the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 12.5 million, and the number of people aged 75 and over has increased from 4.5 million to 6.5 million (Office for National Statistics 2000).

There is a growing awareness of the need to address the needs of older people, and the need to ensure that the health care system is able to meet the needs of older people. The Department of Health (2000) has published a strategy for older people, which sets out the government's commitment to improve the health and well-being of older people, and to ensure that the health care system is able to meet the needs of older people.

The strategy for older people is based on three main principles: (1) to improve the health and well-being of older people; (2) to ensure that the health care system is able to meet the needs of older people; and (3) to ensure that older people are able to live independently and actively. The strategy sets out a range of measures to be taken to achieve these aims, including: (1) to improve the health and well-being of older people; (2) to ensure that the health care system is able to meet the needs of older people; and (3) to ensure that older people are able to live independently and actively.

The strategy also sets out a range of measures to be taken to improve the health and well-being of older people, including: (1) to improve the health and well-being of older people; (2) to ensure that the health care system is able to meet the needs of older people; and (3) to ensure that older people are able to live independently and actively. The strategy also sets out a range of measures to be taken to ensure that the health care system is able to meet the needs of older people, including: (1) to improve the health and well-being of older people; (2) to ensure that the health care system is able to meet the needs of older people; and (3) to ensure that older people are able to live independently and actively.

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