



Index seminarum

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Index Seminum

*Utrecht University
Botanic Gardens
The Netherlands*



Universiteit Utrecht

No. 39-1997

UNIVERSITEITSBIBLIOTHEEK UTRECHT



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Index Seminum No. 39 - 1997

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

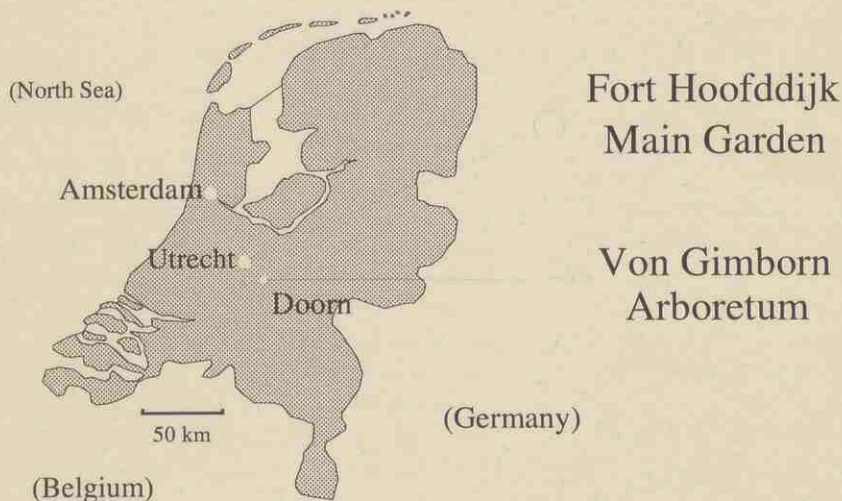
Gardens location

- 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

*Monitored since 1849



From the Curator's Department

With the presentation of this Index Seminum No. 39-1997 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 Cao Wei from Shenyang, China. The Bursary for six month, 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 (Fa. |
| * Botanic Gardens Conservation
International (BGCI) | 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 Decentralised National Plant Collection (DNP/GNP). 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 Decentralised National Plant Collection (DNP), 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. For each part of the collection, the responsible Curators are indicated by their initials. In general, the following division has been made:

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:

- 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	L&HAAS	J.C. Lindeman & H. de Haas
C.GOUDA	C. Gouda	MAAS	P.J.M. Maas
EAM	Erik A. Mennega	MJJ	M.J. Jansen-Jacobs
E.G.	Eric J. Gouda	MOONEN	J. Moonen
EK	R. Ek	MORI	Scott Mori
GOERTS	A.R.A. Görts	MULDER	T. Mulder - Roelfsema
HVDW	H. v.d. Werff	PLKENN	T. Plowman & H. Kennedy
JCL	J.C. Lindeman	J.T.	Jan Tolsma
KLIPH	E. Kliphuis	WELZ	Welz (via Berlin-Dahlem)
L&G	J.C.Lindeman&A.R.A.Görts	Y	Cytotax., Utrecht Univ. collected in : Yugoslavia

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 00ZG00968 *Acer maximowiczianum* Miq.
3. G V 00ZG00997 *Acer micranthum* Siebold & Zucc.
4. G V 00ZG00960 *Acer tataricum* L. subsp. *tataricum*

Amaranthaceae

5. S V 74GR00319 *Pleuropetalum darwinii* Hook.f.; [HVDW 178]
Galapagos Islands, no other details available!

Apiaceae

6. S I 66BL00184 *Athamanta turbith* (L.) Brot. subsp. *haynaldii*
(Borb. & Uechtr.) Tutin; Balkan.

Aquifoliaceae

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

Araceae

8. G I 74GR00664 *Aglaonema crispum* (Pitcher & Manda) Nicolson
9. G I 68GR00913 *Nephtytis afzelii* Schott

Aristolochiaceae

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

Guiana, Saül.

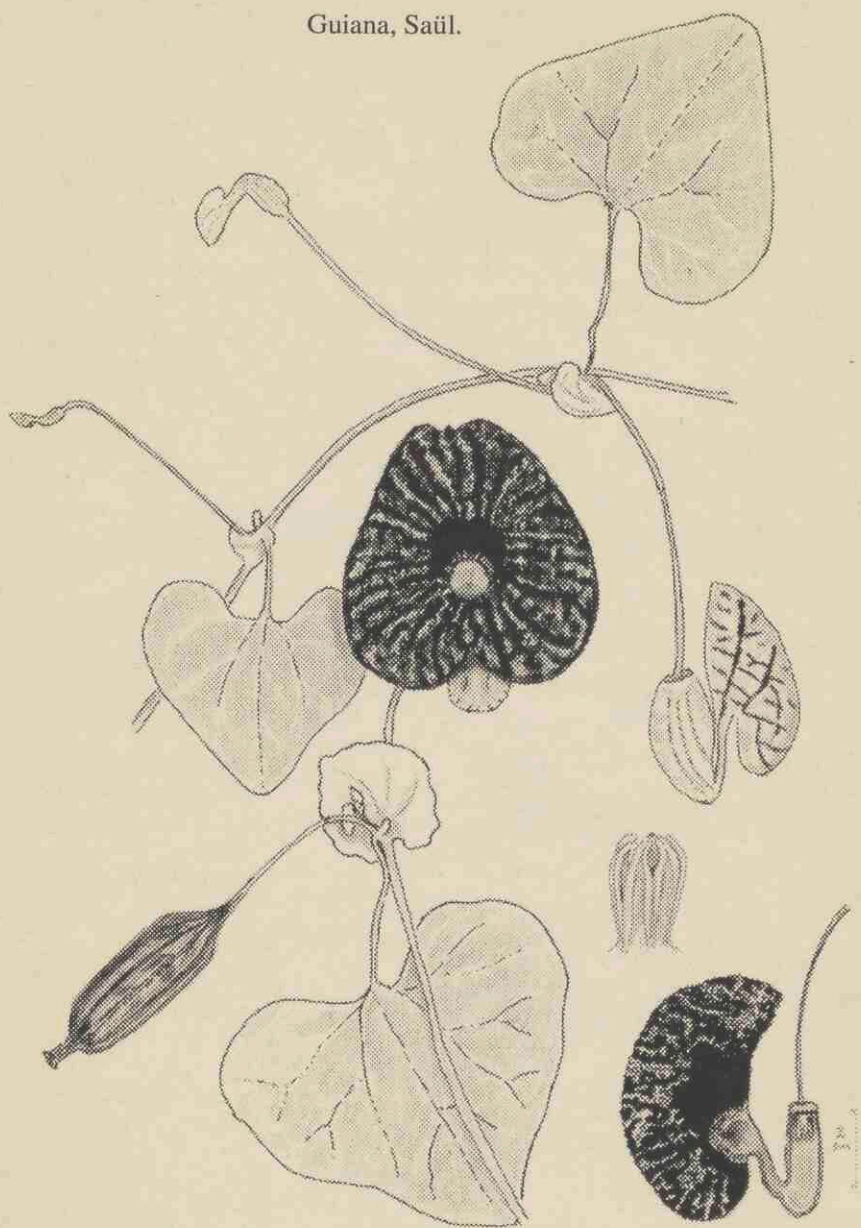


Fig. 1 (#11) *Aristolochia littoralis* Parodi (Aristolochiaceae)

Brassicaceae

13. S I 64BL00214 *Alyssoides utriculata* (L.) Medik.; Switzerland, near Martigny, during excursion 1958.
 14. G I 72BL00095 *Fibigia eriocarpa* (DC.) Boiss.

Bromeliaceae

15. G V 70GR00052 *Aechmea penduliflora* André
 16. S I 94GR02162 *Araeococcus micranthus* Brongn.; [MOONENs.n.] French Guiana, near Montagne de Kaw.
 17. S S 96GR00049 *Fosterella albicans* (Griseb.) L.B.Sm.; [E.G. 95-91b] Bolivia, road from Coracollo to Chulumani, 84 km next to Qume. 2650 m alt.
 18. S V 96GR00427 *Fosterella micrantha* (Lendley) L.B.Sm.; Guatemala, Suchitepequez, Sta. Teresa.
 19. S V 96GR00427 *Fosterella micrantha* (Lendley) L.B.Sm.; Guatemala, Suchitepequez, Sta. Teresa.
 20. S S 96GR00122 *Fosterella penduliflora* (C.H.Wright) L.B.Sm.; [C.GOUDA 95-38b] Bolivia, Pto. Villa.
 21. S S 95GR00766 *Fosterella penduliflora* (C.H.Wright) L.B.Sm.; [C.GOUDA s.n.] Bolivia, without locality 2600 m alt.
 22. S S 94GR00869 *Pitcairnia angustifolia* Soland.; Saba, West coast, halfway the 'ladder' near Ladder Bay.
 23. G I 75GR00042 *Puya mirabilis* (Mez) L.B.Sm.
 24. S S 95GR01093 *Puya mirabilis* (Mez) L.B.Sm.; Bolivia, Cochabamba, Prov. Mizque, near Cauta.
 25. S S 88GR00184 *Streptocalyx longifolius* (Rudge) Baker; [GOERTSs.n.] Fr. Guiana, Mt. Tortue, 88-06-17. 250-450 m alt.
 26. S S 94GR02191 *Vriesea platynema* Gaudich.; [MULDER]

Campanulaceae

27. S V 83BL00272 *Asyneuma campanuloides* (M.Bieb.) Bornm.; Caucasus, coll. 1982. no other details available!



Fig. 2 (#33) *Canna indica* L. (Cannaceae)

28. S I 90BL00367 *Campanula sabatia* De Not.; Italia, Altopiano delle Manie (SV). 300 m alt.
 29. S I 83BL00283 *Edraianthus tenuifolius* (Waldst. & Kit.) A.DC.; Eur. Alps. No further details.
 30. G I 69BL00409 *Platycodon grandiflorum* (Jacq.) A.DC.
 31. S 92BL01010 *Symphandra hofmannii* Pant.; Bosnia-Herzegovina, Bosna, valley of Vrbas.
 32. G I 58ZE02196 *Wahlenbergia lobelioides* (L.f.) A.DC.

Cannaceae

33. S S 89GR00092 *Canna indica* L.; [MJJ 1781] Guyana, Old Farm near Konashen.
 34. S S 76GR00106 *Canna paniculata* Ruiz & Pav.; [PLKENN5700] Peru, dept. Huanuco, Puente Durand, herb. 5 m, fls. red/orange; 76-03-22, 1000 m alt.
 35. S I 80GR00287 *Canna tuercheimii* Kraenzl.; [MAAS 4796] Ecuador, Alluriquin area, between Sto. Domingo de los Colorados and Quito, mountain forest; 850 m alt.

Caryophyllaceae

36. S I 91BL01115 *Dianthus arenarius* L. subsp. *borussicus* Vierh.; Austria, no other details available!
 37. S I 75BL00003 *Dianthus barbatus* L.; Austria, Kernische Hauptkette; 75-01-02. 1400 m alt.
 38. G I 83BL00090 *Dianthus knappii* (Pant.) Asch. & Kanitz ex Borbás
 39. S I 94BL00406 *Dianthus viscidus* Bory & Chaub.; Greece, Macedonia, Nomos, Kastorias, Pefkos/Kastoria, calcareous. 1350 m alt.
 40. G I 94BL00278 *Petrorrhagia graminea* (Sm.) P.W.Ball & Heywood

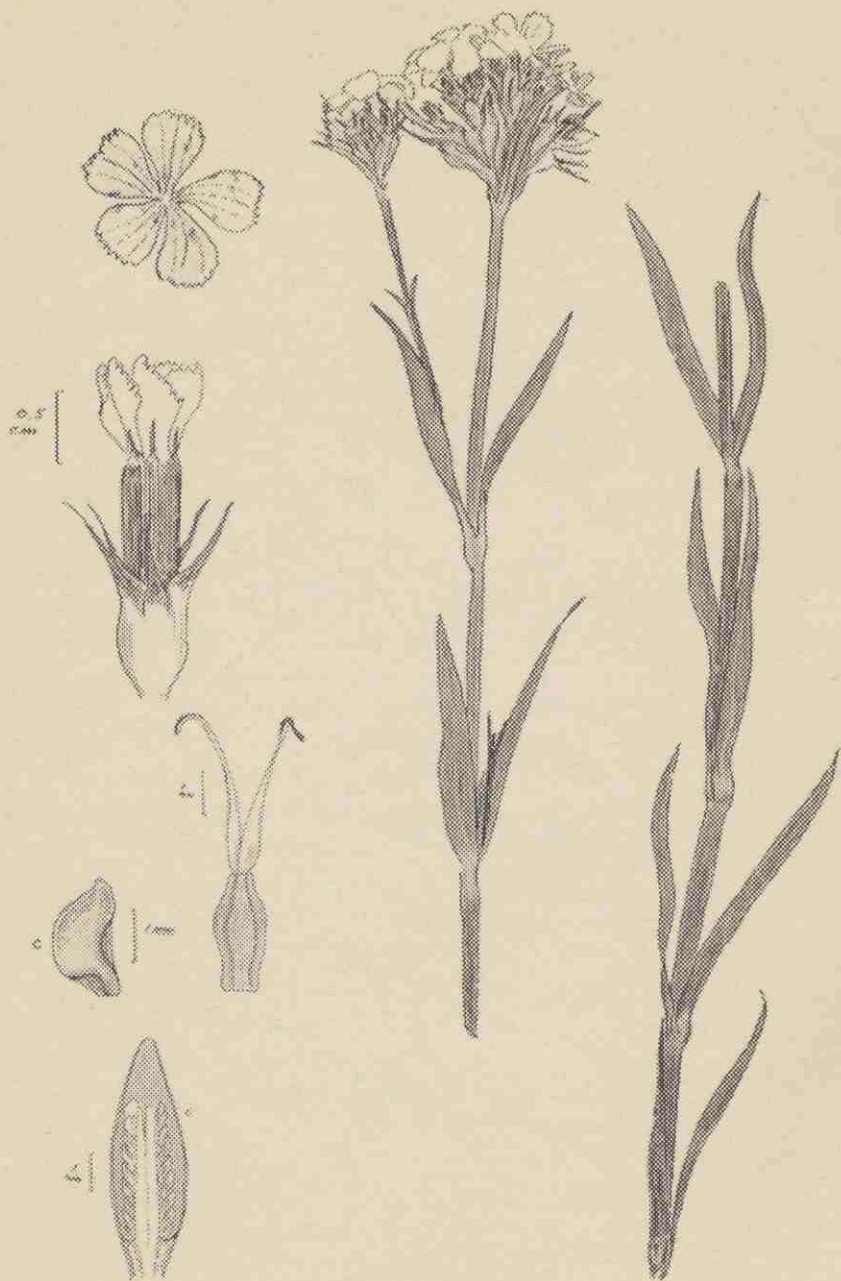


Fig. 3 (#38) *Dianthus knappii* (Pant.) Asch. & Kanitz ex Borbás
(Caryophyllaceae)

41. S I 90BL00937 *Petrorhagia saxifraga* (L.) Link; (East) Germany, Prenzlau
42. G I 71BL00245 *Saponaria caespitosa* DC.
43. S V 91ZE00752 *Silene gallica* L.; Italia, Grosseto, Il Puntone, coll.: 18-06-1990.
44. G I 84BL00124 *Silene quadridentata* (Murray) Pers.
45. S I 94BL00089 *Silene saxifraga* L.; Slovenia, Steiner Alpe, Grintovec, ascent from Ceska Koca to Grintovec. 1500-2200 m alt.

Celastraceae

46. S I 77RD00142 *Tripterygium regelii* Sprague & Takeda; Korea Sorok National Park.

Clusiaceae

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

Crassulaceae

48. G I 77BL00079 *Chiastophyllum oppositifolium* (Ledeb. ex Nordm.) Berger
49. 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.

Cuscutaceae

50. G I 71ZE00025 *Cuscuta gronovii* Willd.

Cyclanthaceae

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

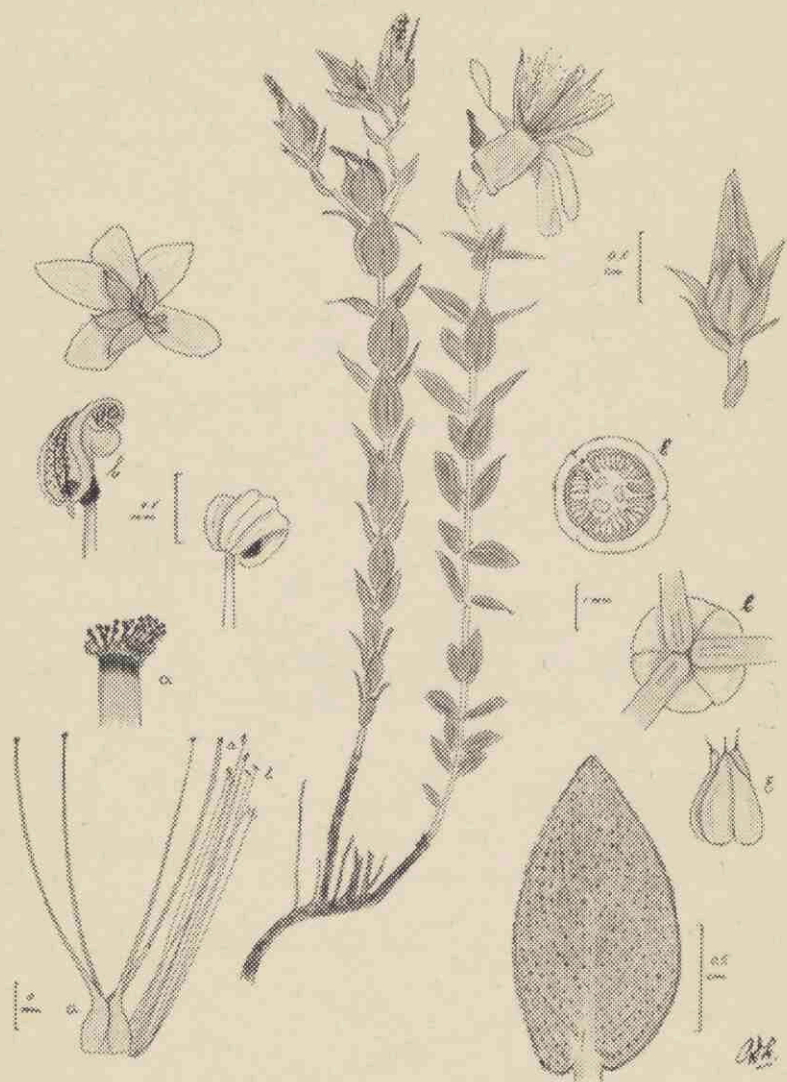


Fig. 4 (#47) *Hypericum olympicum* L. (Clusiaceae)

Cyperaceae

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

Dipsacaceae

53. S 86BL00382 *Knautia drymeia* Heuff. subsp. *drymeia*; Yugoslavia, Strahiujsica.
 54. S I 94BL00090 *Scabiosa cinerea* Lapeyr. ex Lam. subsp. *cinerea*; Italy, Puglia, Promontorio del Gargano, N.E. Coast, ca. 2 km. ESE Coppo dei Fossi, Macchie. 150-200 m alt.

Ericaceae

55. G I 00ZG00034 *Kalmia angustifolia* L.
 56. G I 00ZG01222 *Kalmia latifolia* L.
 57. G I 00ZG00037 *Pieris floribunda* (Pursh ex Sims) Benth. & Hook.f.
 58. G I 00ZG00097 *Rhododendron canadense* (L.) Torr.
 59. S S 84GR00467 *Sphyraspermum buxifolium* Poepp. & Endl.; Ecuador, no further data.
 60. G I 00ZG01146 *Zenobia pulverulenta* (W.Bartram ex Willd.) Pollard

Eriocaulaceae

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

Fabaceae

62. S I 93ZS00423 *Lathyrus sylvestris* L.; Canada, Québec, Lac Beauchamp, co. Hull.
 63. S V 91ZE00759 *Lupinus angustifolius* L.; Portugal, prov. Estremadura, Rio de Mouro, Sintra.

Gentianaceae

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

Gesneriaceae

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

Globulariaceae

69. S V 94BL00232 *Globularia punctata* Lapeyr.; Italy,
 Aymavilles, Syrignan. 1100 m alt.

Iridaceae

70. S V 77BL00056 *Gladiolus imbricatus* L.; Greece, Dahsia
 (NE of Alexandropolos). 330 m alt.
 71. G V 68GR00728 *Lapeirousia laxa* (Thunb.) N.E.Br.
 72. G I 91GR00557 x *Pardancanda norrisii* L.W.Lenz

Liliaceae

73. S V 90BL00511 *Allium insubricum* Boiss. & Reut.; no
 further details!
 74. S I 62BL00140 *Allium senescens* L.; Austria, Alps.
 75. S I 70BL00165 *Allium sphaerocephalon* L.; Italy, 5km
 before Atena Lucana. 250 m alt.
 76. G I 65BL00462 *Anthericum liliago* L.
 77. G I 66BL00108 *Anthericum ramosum* L.
 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; June 1996.
80. S I 67BL00288 *Polygonatum verticillatum* (L.) All.; The Netherlands, Limburg;
81. S I 77BL00282 *Tofieldia calyculata* (L.) Wahlenb.; [Y 16606] Italy, Ven Jul. near Platisensis; 1977. 650 m alt.
82. G I 65BL00228 *Veratrum album* L.
83. G I 65BL00271 *Veratrum nigrum* L.

Lythraceae

84. S I 67GR00157 *Heimia salicifolia* (H.B.K.) Link; [L&HAAS] Brazil, without details.
85. S V 90ZE00952 *Lythrum hyssopifolia* L.; (East) Germany, Kreiss Prensleu, Güstow.

Magnoliaceae

86. G I 00ZG00099 *Liriodendron tulipifera* L.
87. G V 65RD00047 *Magnolia tripetala* (L.) L.
88. G I 00ZG01144 *Magnolia virginiana* L.

Myrtaceae

89. S I 81GR00017 *Psidium cattleianum* Sabine; [JCL] Brazil, Rio Grande do Sul, campos, no further details!

Pinaceae

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

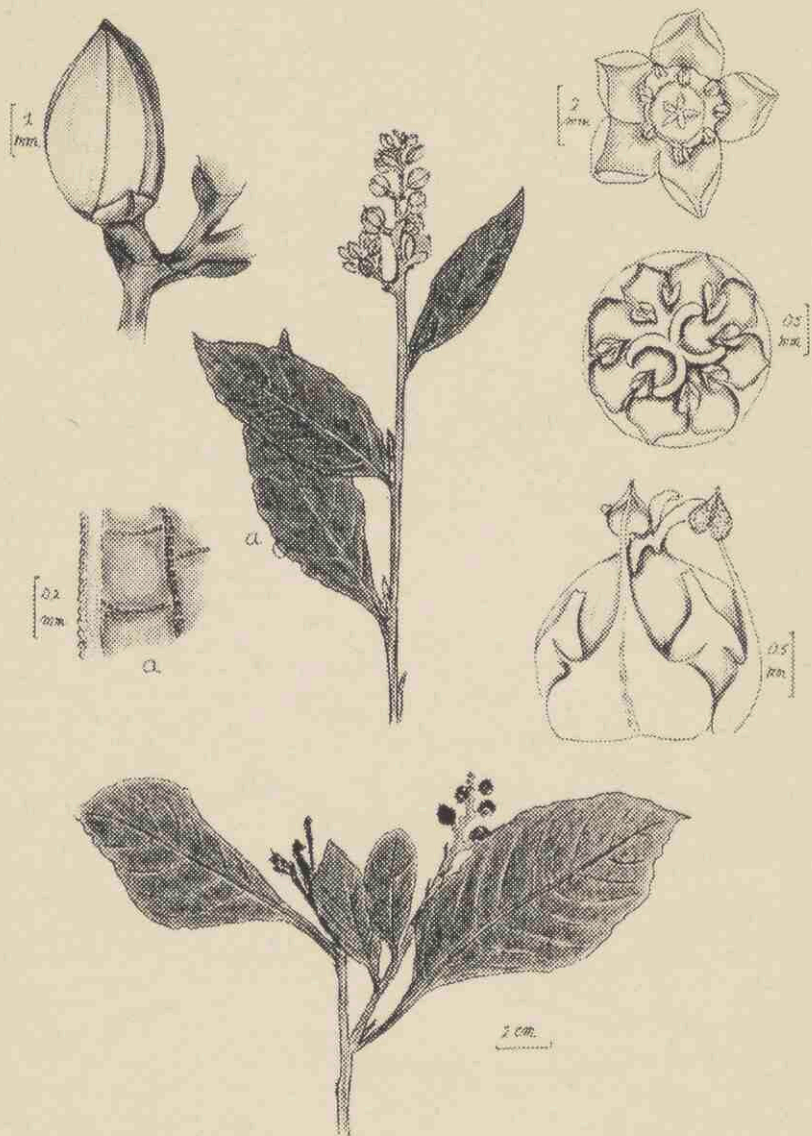


Fig. 5 (#5) *Pleuropetalum darwinii* Hook.f. (Amaranthaceae)

Plantaginaceae

91. G I 54ZE02451 *Plantago afra* L.

Primulaceae

92. G I 69BL00037 *Androsace albana* Stev.
 93. S S 94BL01450 *Androsace brigantiaca* Jord. & Fourr.;
 France, Isère.
 94. G I 90BL00120 *Dodecatheon conjugens* E.Greene
 95. G I 64BL00221 *Primula florindae* Kingdon-Ward
 96. S I 83BL00002 *Soldanella hungarica* Simonkai;
 Czechoslovakia, Mts. Mala Fatra.

Ranunculaceae

97. S I 81BL00206 *Aconitum orientale* Mill.; USSR, Northern
 Caucasus Mts., Karachai-Cherkessk,
 Autonomous Region, vicinity of
 Karachayevsk, (stream edges, 1980). 1600
 m alt.

Rosaceae

98. S I 78ZS00010 *Filipendula kamtschatica* (Pall.) Maxim.;
 Russia, Sakhalin, Juzhnosachalinsk.
 99. S I 77BL00298 *Potentilla recta* L.; [Y 17398]
 100. S V 94RD00736 *Rosa arvensis* Huds.; The Netherlands,
 Prov. Limburg, Epen, 'onderste bos', on
 cretaceous soil.

Saxifragaceae

101. S I 91BL00412 *Saxifraga callosa* J.E.Sm. subsp. *catalaunica*
 (Boiss.) D.A.Webb; Switzerland, Jardin
 Alpine Meyrin, no further details.

Scrophulariaceae

102. G I 72BL00099 *Digitalis grandiflora* Mill.
103. S I 90BL00944 *Linaria genistifolia* (L.) Mill. subsp.
genistifolia; Bulgaria, Rhodopen.
104. S I 90BL00300 *Verbascum chaixii* Vill. subsp. *austriacum*
(Roem. & Schult.) Hayek; Hungary, no
further details.
105. G I 71ZE00811 *Zaluzianskya capensis* (Benth.) Walp.

Solanaceae

106. G V 89ZE00003 *Schizanthus pinnatus* Ruiz. & Pav.

Symplocaceae

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

Taxodiaceae

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

Tropaeolaceae

109. G I 56ZE02149 *Tropaeolum peregrinum* L.

Verbenaceae

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



