Index seminum

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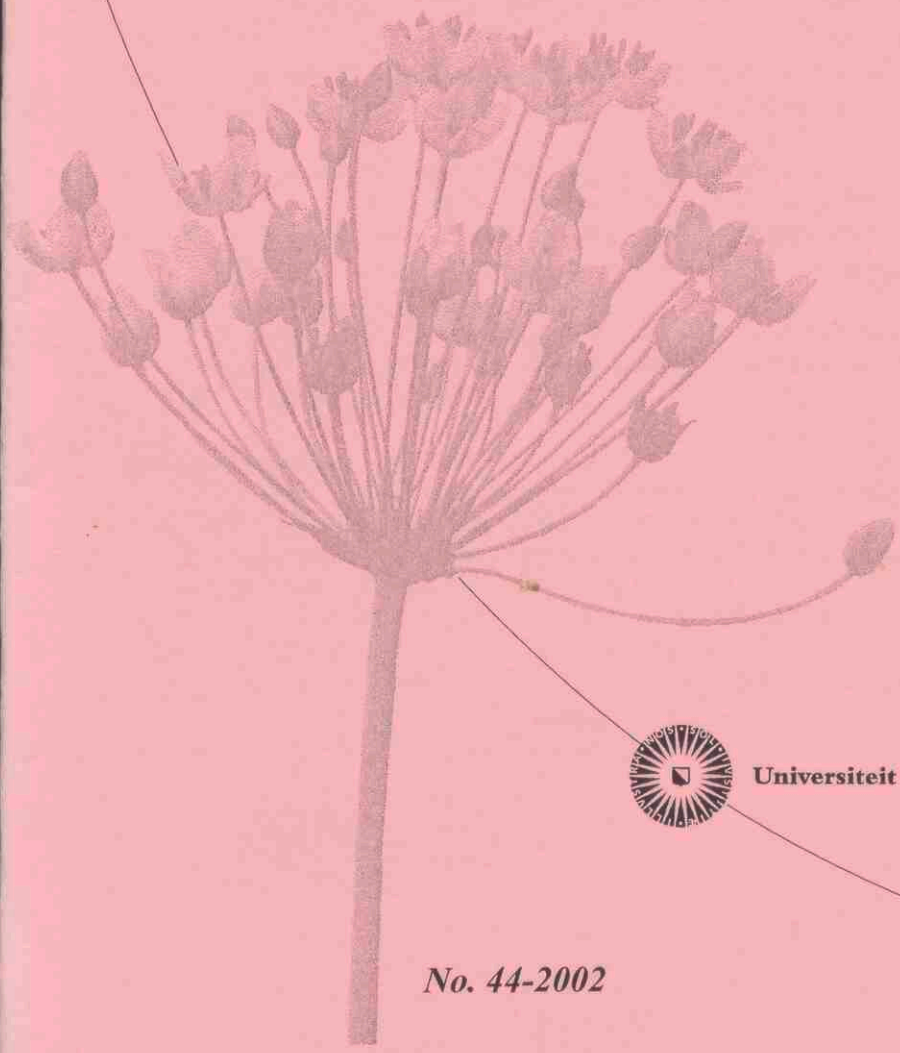
Utrecht University
Botanic Gardens
The Netherlands



Universiteit Utrecht

No. 44-2002

Utrecht University Botanic Gardens

P.O. Box 80.162
3508 TD Utrecht
The Netherlands

http://www.bio.uu.nl/botgard/

Index Seminum No. 44 - 2002

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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
Geopgraphical 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. **44-2002** 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:
- Hans Persoon **[HP]**: 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: **[HP]**
  Aceraceae *Betulaceae* *Ericaceae*
  Euonymus *Laburnum* *Magnolia*
  Oleaceae (esp.: *Fraxinus* and *Syringa*)

- *Annonaceae* (Research Collection) **[EG]**
- Conifers (esp. *Tsuga*) **[HP]**
- 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 analised 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 ChineGóbse colleagues.

***Bromeliaceae*:**
Study and devellopment 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 & Equador) 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:

E= Seeds collected in the wild
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; **SL**= Seedlist only; **ZE**=Annuals and Biennials; **ZS** and **ZB**= Perennials.
The other five digits are a sequence number.

Explanation of abbreviated collector names:

A	A. Bakker	HTH	H.'t Hart
CT	C. Theune	HVDW	H. v.d. Werff
EAM	E. A. Mennega	MAAS	P.J.M. Maas
EHLERS	R. Ehlers	MOONEN	J. Moonen
ERN	H. Ern	Leu	Leuenberger
F.BI	F. Billiet	L & G	J.C. Lindeman & A. Görts
GB	G. van Buiten	SEP	Swedish Expedition to Pakistan
GR & SM	S. Gradstein & Smittenberg	WOLB	L. v.d. Wollenberg
HEKK	W. Hekking		

Source of illustrations used:

From colour illustrations made by the late Dr. C.D. Laros, Utrecht University Botanic Gardens.
This Index Seminum is printed on BIOTOP® (recycled, chlorine-free) paper.

Aceraceae

1.	G	V	--ZG00968	Acer maximowiczianum Miq.
2.	G	I	--ZG00997	Acer micranthum Siebold & Zucc.
3.	K	V	78RD00724	Acer triflorum Kom.

Agavaceae

4.	G	I	73GR00695	Phormium tenax J.R. & G.Forst.

Amaranthaceae

5.	G	I	73ZE00844	Amaranthus retroflexus L.
6.	E	V	74GR00319	Pleuropetalum darwinii Hook.f.; [HVDW 178] Galapagos Islands, no other details available!

Apiaceae

7.	E	I	02SL01701	Eryngium campestre L.; [GB s.n.] Netherlands, Zeeland, Schouwen-Duiveland, nature reserve Bommenede, near Zonnemaire (saline).
8.	G	I	69BL00242	Olymposciadium caespitosum (J.E.Sm.) Wolff

Apocynaceae

9.	G	I	74GR00732	Alyxia buxifolia R.Br.

Aquifoliaceae

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

Araceae

11.	E	I	73BL00133	Biarum tenuifolium (L.) Schott var. abbreviatum (Schott) Engl.; [HTH] Greece, Parnassos Mts; 73-09-03. 1200 m Alt.
12.	G	I	68GR00913	Nephthytis afzelii Schott

Aristolochiaceae

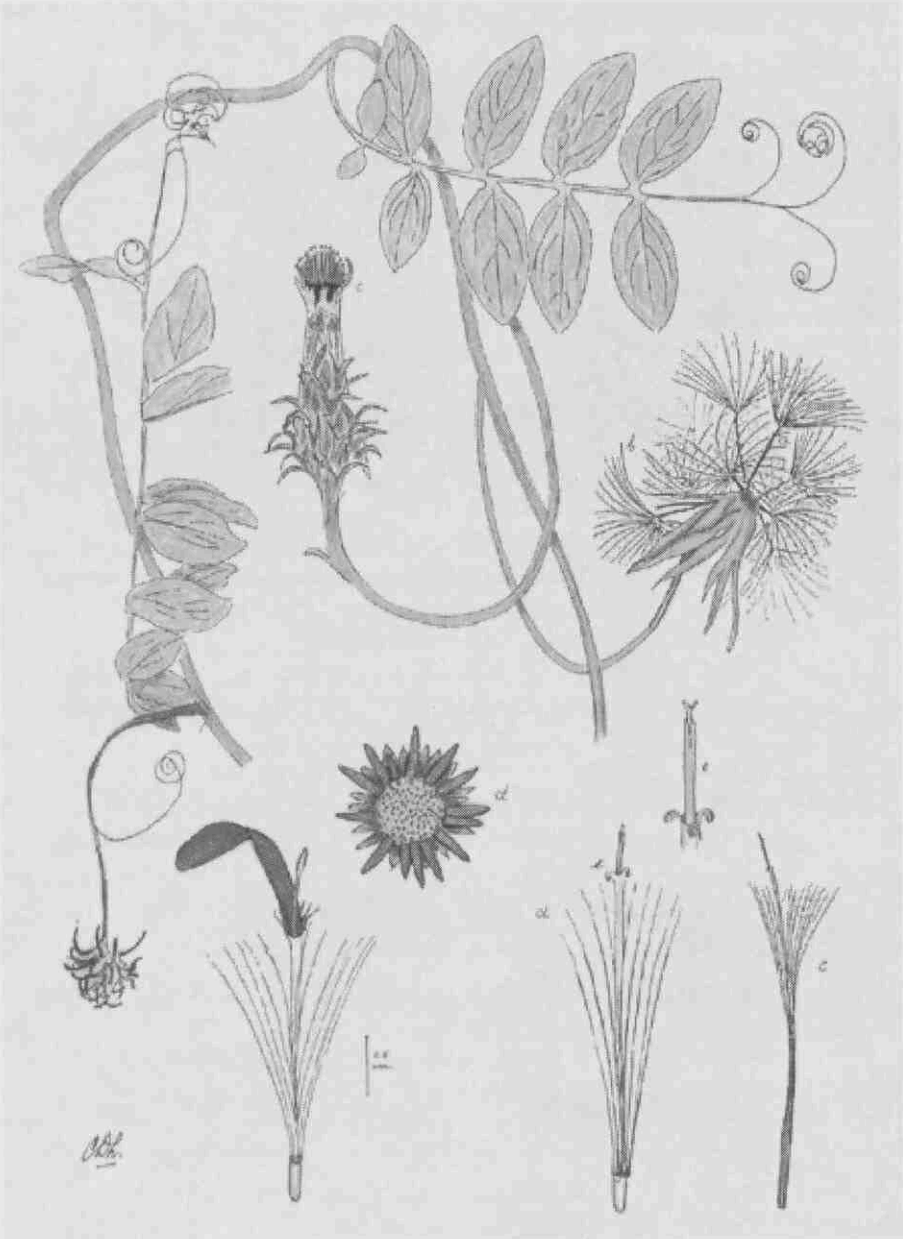
13.	G	V	92GR01149	Aristolochia fimbriata Cham.
14.	S	I	92GR00988	Aristolochia littoralis Parodi; El Salvador, Acajutla.

Asteraceae

15.	S	I	96BL00417	Aster foliaceus Lindl. (A.subspicatus Nees); Canada, B.C, Peace River District.
16.	E	I	02SL01698	Aster tripolium L.; [GB s.n.] Netherlands, Zeeland, Schouwen-Duiveland, nature reserve Bommenede, near Zonnemaire (saline).
17.	E	I	65BL00001	Centaurea rhenana Bor. subsp. rhenana; Czechoslovakia, alps.
18.	G	V	94GR00044	Mutisia coccinea St.-Hil. var. coccinea
19.	E	V	90ZE00538	Sanvitalia procumbens Lam.; Mexico, Km.26, carretera Jolalpan-Axochiapa, Morelos.
20.	E	I	75ZB00011	Vernonia altissima Nutt.; [A] U.S of N. America, Kentucky, Between Louisville and Lexington, no other details available!

Brassicaceae

21.	E	I	64BL00214	Alyssoides utriculata (L.) Medik.; Switzerland, near Martigny, during excursion; 1958.
22.	G	I	91ZE00646	Brassica nigra (L.) W.D.J.Koch
23.	E	I	72ZE02073	Crambe hispanica L. var. glabrata (DC.) Coss.; Spain, no other data available.
24.	E	I	91ZS00974	Diplotaxis tenuifolia (L.) DC.; Switzerland, Wallis, no further details! 700 m Alt.



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

Bromeliaceae

25.	E	I	90GR00249	Aechmea aquilega (Salisb.) Griseb. var. aquilega; [F.BI] French Guiana, Lucifer,
26.	G	S	72GR00240	Aechmea filicaulis (Griseb.) Mez
27.	S	I	96GR00653	Aechmea nudicaulis (L.) Griseb. var. nudicaulis; [Leu-3096] Brazil, Bahia, Mun. Camaca, Estrada BR101, 2 km S Camaca, "mata higrofila" with Cacao. Epiphyt.
28.	E	S	00GR00642	Aechmea racinae L.B. Sm.; [EHLERSs.n.] Brazil, Santa Catarina
29.	S	S	01GR00927	Araeococcus goeldianus L.B.Sm.; [MOONENs.n.] French Guiana, prob. Savanne Roche 14e Juillet.
30.	G	S	98GR00469	Billbergia viridiflora H.Wendland
31.	G	S	01GR00926	Guzmania conifera André ex Mez
32.	E	S	99GR00120	Pitcairnia nuda Baker; [E.G. 99-25] Suriname, Volz Mt. Reserve, Top II.
33.	E	V	98GR01463	Tillandsia disticha H.B.& K.; Peru, 1984.
34.	E	I	94GR02192	Tillandsia schiedeana Steud.; Honduras (probably) without locality.
35.	G	S	00GR00641	Vriesea pauperrima E.Pereira
36.	E	S	97GR00910	Vriesea splendens (Brongn.) Lem.; [MOONEN181] French Guiana, Mt. de Kaw; 97-09-14

Buddlejaceae

37.	E	V	99RD01423	Buddleja albiflora Hemsl.; N.China, Gansu, Mt. Maiji, by the waterside. 1500 m Alt.

Campanulaceae

38.	E	V	98BL00925	Campanula takesimana Nakai; South Korea, To-Dong, Ullung-Gun, Kyongsang Pukto. 150 m Alt.
39.	G	I	83BL00350	Edraianthus dinaricus (Kerner) Wettst.

Cannaceae

40.	E	S	89GR00010	Canna indica L.; [WOLB 88-001] Nepal, near village Phalenksangu, along Annapurna Trail on steep slope to river, 700 m Alt.

Capparaceae

41. E I 99GR00209 Cleome viridiflora Schreber; [MAAS 8803] Bolivia, I. Vargas C., C. Specht, F. Chispe.

Caprifoliaceae

42. K V 85RD00389 Heptacodium miconioides Rehder

Caryophyllaceae

43. E I 82BL00048 Dianthus amurensis Jacq.; Russia, Siberia, no further details!

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

Celastraceae

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

Chenopodiaceae

46. E I 02SL01704 Suaeda maritima (L.) Dumort.; [GB s.n.] Netherlands, Zeeland, Schouwen-Duiveland, nature reserve Bommenede, near Zonnemaire (saline).

Cistaceae

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

Commelinaceae

48.	G	I	72GR00380	Palisota bracteosa C.B.Clarke
49.	E	V	91ZS00825	Tradescantia ohiensis Raf.; U.S.A., Pennsylvania, grounds Bowman's Hill Wildflower Preserve.

Crassulaceae

50.	G	I	77BL00079	Chiastophyllum oppositifolium (Ledeb. ex Nordm.) Berger
51.	G	I	67BL00082	Sedum dumulosum Franch.

Cyperaceae

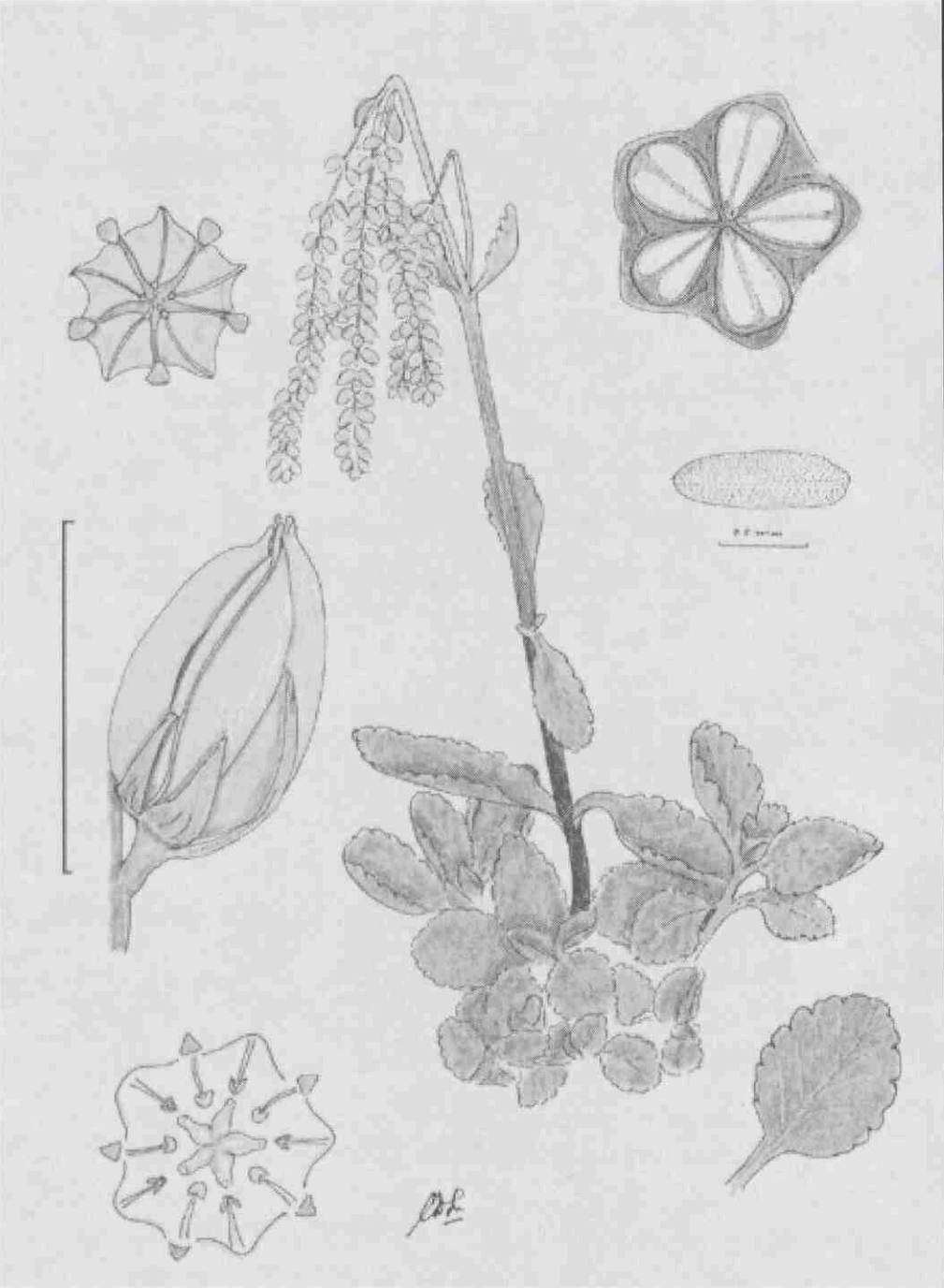
52.	E	V	96ZS00383	Carex buxbaumii Wahlenb. subsp. buxbaumii; Austria, Salzburg, Grabensee 0,5 km SSW Gransdorf. 504 m Alt.

Dipsacaceae

53.	E	V	91ZE00259	Dipsacus fullonum L.; Switzerland, Reinach, Reinacherheide. 280 m Alt.

Ericaceae

54.	G	I	--ZG00184	Enkianthus cernuus (Siebold & Zucc.) Makino var. rubens (Maxim.) Makino
55.	G	I	--ZG01222	Kalmia latifolia L.
56.	E		96RD00478	Kalmia microphylla (Hook.) A.Heller; U.S.A., Washington, Gifford Pinchot National Forest, coll.: 95-08-27.
57.	G	I	--ZG00097	Rhododendron canadense (L.) Torr.
58.	G	I	--ZG01146	Zenobia pulverulenta (W.Bartram ex Willd.) Pollard



Chiastophyllum oppositifolium (Ledeb. ex Nordm.) *(Crassulaceae)*

Fabaceae

59. E V 72ZE02110 Lathyrus clymenum L.; France, E. Pyrenees, Roussillon, Corniche catalane: Port-Vendres, Banyuls, Cerbère, on coastel cliffs.

Gentianaceae

60. E V 83BL00287 Gentiana affinis Griseb.; Oregon, no other details available!
61. S I 98BL00012 Gentiana septemfida Pall. subsp. septemfida; Caucasus, Archyz.

Geraniaceae

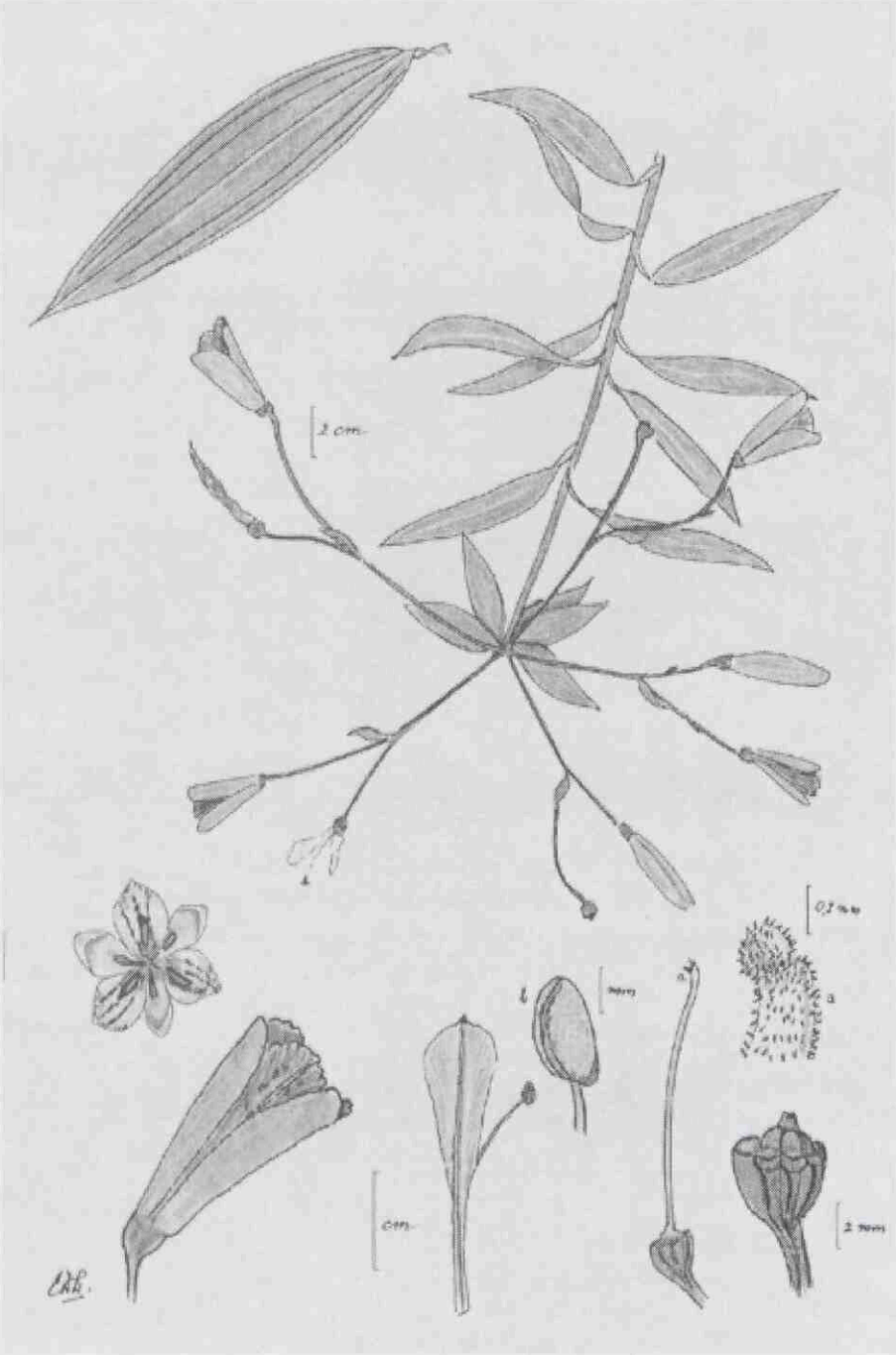
62. G V 61ZE00881 Erodium cicutarium (L.) L'Hér. ex Aiton subsp. cicutarium
63. E V 87BL00423 Geranium soboliferum Kom.; Japan, Oshino-muro, near Mnt. Fuji. 95-1000 m Alt.

Gesneriaceae

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

Globulariaceae

67. E 91BL00275 Globularia cordifolia L.; Switzerland, BE, Brienzwieler, Wielerhorn. 1700 m Alt.
68. S V 98BL00265 Globularia trichosantha Fisch. & Mey.; Turkey, Pelli-Dag. 2200 m Alt.



Bomarea edulis (Tussac) Herb. *(Liliaceae)*

Haemodoraceae

69. E I 72GR00370 Xiphidium caeruleum Aubl.; [HEKK] Surinam, no further details.

Iridaceae

70. E I 96BL00959 Iris hartwegii Baker; USA, California, Humbold Co., N of Eureka, Prairie Creek Redwoods State Park, Fern Canyon. 40 m Alt.
71. G I 77BL00409 Iris magnifica Vved.
72. S I 95BL00180 Iris sintenisii Janka subsp. sintenisii; Bulgaria, Eastern Sredna Gora Mts.

Juncaceae

73. E V 80ZS00050 Juncus effusus L.; W. Hungary, Comit. Vas, opp. Szöce.
74. S V 93BL00754 Juncus ensifolius Wikstr.; Canada, British Columbia, Kookeney Lake, Dandspit.

Lamiaceae

75. S V 94BL00415 Scutellaria diffusa Benth.; [ERN 6923] Turkey, Prov. Hatay, Amanus- mts. (Gavur Daglari), Atik.

Liliaceae

76. E I 80GR00248 Bomarea edulis (Tussac) Herb.; [L&G 455] Suriname, Kabelebo area, along Barieba Creek.
77. E I 68BL00137 Ornithogalum sphaerocarpum A.Kern.; [GR&SM s.n.] Greece, Isl Crete, no other details available!

Lythraceae

78. E V 90ZE00952 Lythrum hyssopifolia L.; (East) Germany, Kreiss Prensleu, Güstow.

Magnoliaceae

79. G I --ZG00099 Liriodendron tulipifera L.
80. G V 65RD00047 Magnolia tripetala (L.) L.
81. G I --ZG01144 Magnolia virginiana L.

Myrsinaceae

82. G I 74GR00008 Ardisia solanacea Roxb.

Onagraceae

83. G I 53ZE00879 Clarkia purpurea (Curtis) A.Nelson & J.F.Macbr.
84. E S 80GR00318 Fuchsia paniculata Lindl.; [MAAS 4985] Chiriqui Mt.wood near Guadeloupe, 2 km N of Cerro Punta. 1800 m Alt.

Papaveraceae

85. E V 98ZE00094 Papaver rhoeas L.; Germany, Vorpommern, W.Greifswald, along the road between Greifswald and Ladebow.

Passifloraceae

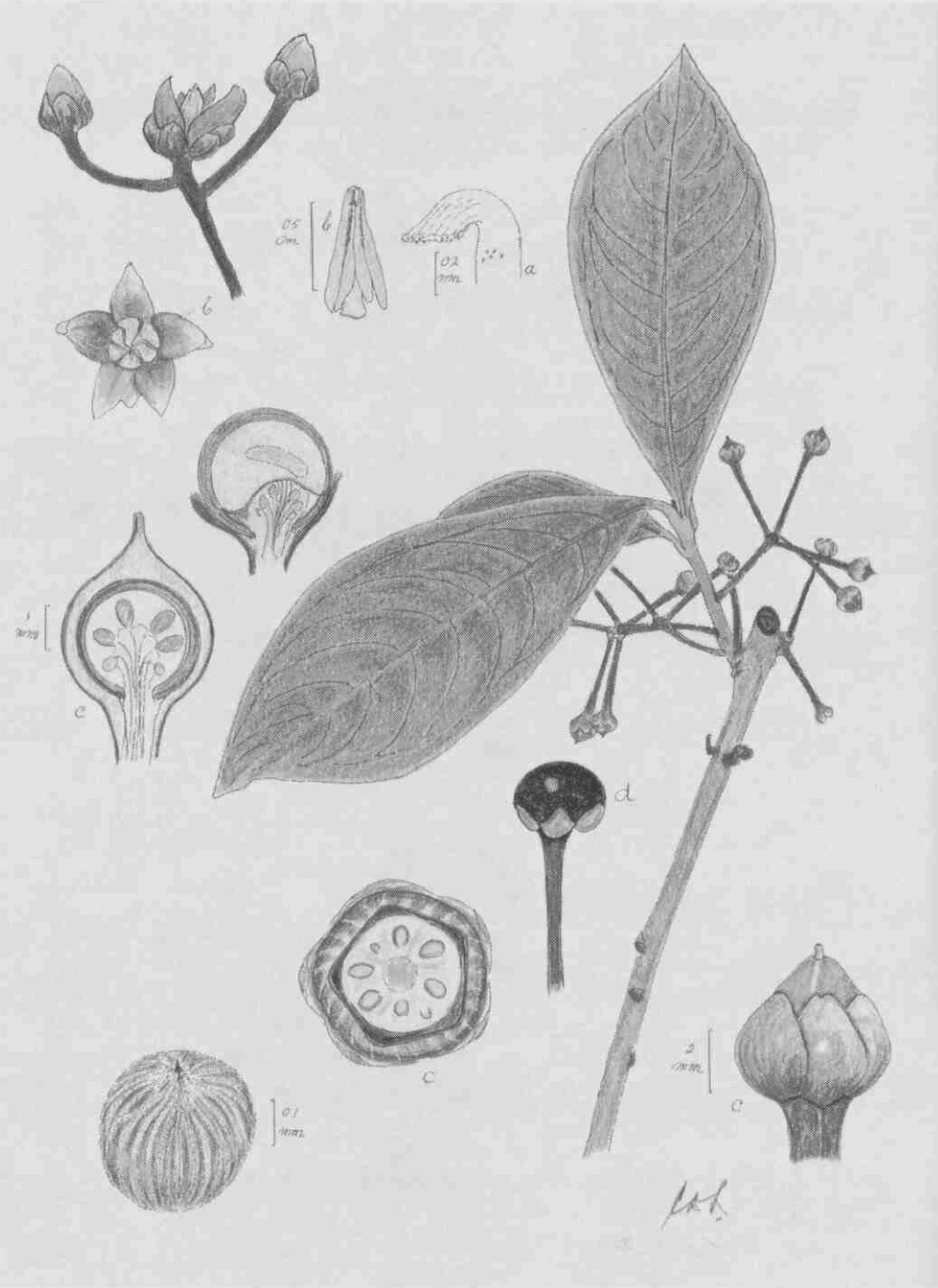
86. G V 98GR00988 Passiflora suberosa L.

Phytolaccaceae

87. S V 91ZS00782 Phytolacca americana L.; E. Canada, no further details!

Pinaceae

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



Ardisia solanacea Roxb. *(Myrsinaceae)*

Pittosporaceae

89. G I 73GR00514 Citriobatus multiflorus A.Cunn.

Plumbaginaceae

90. E 87BL00526 Bukiniczia cabulica (Boiss.) Lincz.; [EP 18] Pakistan, Gilgit, Hunza, Batura Glacier, N. side, dry moraine, 2920-3000 m Alt.

Primulaceae

91. E I 83BL00281 Dodecatheon pulchellum (Raf.) Merr. subsp. pulchellum; U.S.A., N.W. Oregon; 1982.

Rosaceae

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

Rubiaceae

93. G 94GR00988 Coffea arabica L.

Saxifragaceae

94. E I 81BL00238 Saxifraga sempervivum K.Koch; [CYT T24903] Bulgaria, Rodopen, road Cudnite Mostove - Cepelaze. 1050 m Alt.

Sciadopytiaceae

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

Scrophulariaceae

96.	E	I	01BL00138	Penstemon strictiformis Rydb.; USA, without locality.
97.	E	I	91ZS00771	Veronicastrum sibiricum (L.) Pennell; Japan, Tokyo Pref., Sakamotoenchi, Okutama Town.
98.	G	I	66BL00018	Wulfenia carinthiaca Jacq.

Smilacaceae

99.	G	I	68GR01536	Eustrephus latifolius R.Br. ex Sims

Sterculiaceae

100.	G	V	87GR00027	Theobroma cacao L..

Styracaceae

101.	K	V	64RD00305	Halesia carolina L.
102.	G	I	--ZG01006	Styrax japonica Siebold & Zucc.

Symplocaceae

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

Violaceae

104.	G	I	76GR00088	Hymenanthera crassifolia Hook.f.