

LEGENDS OF THE FIGURES

Fig. 54. *Nervilia petraea* (Afz. ex Sw.) Summerh. — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal, lip; d - gynostemium; e - leaf with silvery pattern; f - leaf without silvery pattern (a: Pettersson & Nilsson 92, dry & slide; b, f: Pettersson & Nilsson 79, slide; c, d: Pettersson & Nilsson 81, spirit; e: Pettersson 517, dry & slide). Artist: K. Thunberg.

Fig. 55. *Nervilia crociformis* (Zoll. & Mor.) Seidenf. — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium with the anther raised from its natural position; e - lip; f - leaf (a, b: Pettersson 313, fresh (cultivated); c-e: Pettersson 313, spirit; f: Pettersson 317, slide). Artists: a, b - Yue Jingzhu; c-f - K. Thunberg.

Fig. 56. *Nervilia leguminosarum* Jum. & Perr. — a - flowering plant; b - from left to right: median sepal, petal, lateral sepal; c - lip (base not fully spread out); d - lip hairs; e - leaf (a-e: Perrier de la Bâthie 1377", dry). Artist: K. Thunberg.

Fig. 57. *Nervilia affinis* Schltr. — a - flowering plant; b - lip (base not fully spread out); c - leaf; d - flower (determination somewhat uncertain); e - lip of d (base not spread out) (a-c: Perrier de la Bâthie 15206, dry; d: Bogner s.n., slide; e: Bogner s.n., spirit). Artist: K. Thunberg.

Fig. 58. *Nervilia stolziana* Schltr. — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium; e - lip; f - leaf with silvery pattern; g - leaf without silvery pattern (a-b: Pettersson 320, dry & slide; c-e: Pettersson 302, spirit; f: Pettersson 352, fresh (cultivated); g: Pettersson, Englund, Kustvall & Ranaivo 70, slide). Artists: a, b, f - Yue Jingzhu; c-e, g - K. Thunberg.

Fig. 59. *Nervilia pectinata* Cribb. — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium; e - lip; f - leaf (a, b, f: Pettersson 343, dry & slide; c-e: Pettersson 343, spirit). Artists: a, b, f - Yue Jingzhu; c-e - K. Thunberg.

Fig. 60. *Nervilia subintegra* Summerh. — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium with the anther raised from its natural position; e - lip; f - leaf (a, f: Perez-Vera 490; b: F. Hallé & M.F. Trouslot, slide; c: Le Testu 4634, pencil drawing from dry material by Summerhayes; d: Trouslot s.n. 4-IV-1968, dry; e: Toilliez 303 bis, dry). Artist: K. Thunberg.

Fig. 61. *Nervilia adolphi* Schltr.; var. *adolphi* (a-f, h, i) and var. *seposita* (j). — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium; e - lip of var. *adolphi* large-flowered type, not flattened; f - lip of var. *adolphi* small-flowered type, not flattened; g - lip similar to that of the type of var. *seposita*, not flattened; h - leaf of var. *adolphi* large-leaved type; i - leaf of var. *adolphi* small, prostrate type; j - leaf of var. *seposita* (a-e: Wellving s.n., slide & spirit; f: Pettersson, Hedrén & Kibuwa 289, slide & spirit; g: King 112b, spirit (colour pattern from slide of type of var. *seposita*); h: Pettersson, Hedrén & Kibuwa 289, fresh (cultivated); i: Pettersson 153, slide; j: F. Hallé & M.F. Trouslot, photo of cultivated material from locus classicus). Artists: a, b, h, i - Yue Jingzhu; c-g, j - K. Thunberg.

Fig. 62. *Nervilia fuerstenbergiana* Schltr. — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium; e - lip; f - leaf (a: F. Hallé & M.F. Trouslot, slide of cultivated material from Mt Tonkoui; b: F. Hallé & M.F. Trouslot, photo of material from Mt Tonkoui IV-1971; c-e: King 95, dry; f: F. Hallé & M.F. Trouslot, slide of wild material from Mt Tonkoui VII-1965). Artist: K. Thunberg.

Fig. 63. *Nervilia lilacea* Jum. & Perr. — a - flowering plant; b - flower; c - leaf (a-c: Perrier de la Bâthie 1873, dry). Artist: K. Thunberg.

Fig. 64. *Nervilia gassneri* B. Pettersson. — a - flowering plant; b - flower; c - cleistogamous flower; d - from left to right: median sepal, petal, lateral sepal; e - gynostemium, side view and front view; f - pollinia; g - lip; h - young leaf (a, b, d-h: Pettersson & Gassner 359, fresh; c: Pettersson, Hedrén & Kibuwa 89, slide). Artists: a, b, d-f - A. Gassner; c - K. Thunberg.

Fig. 65. *Nervilia bicarinata* (Bl.) Schltr. — a - flowering plant; b - flower; c - median sepal; d - petal; e - lateral sepal; f - gynostemium (without anther) and ovary; g - anther; h - pollinia; i - lip; j - leaf (a-j: Morat 3117, fresh; flowering plant from cultivation). Artist: E. Razafindrakoto.

Fig. 66. *Nervilia renschiana* (Rchb. f.) Schltr. — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium; e - lip; f - leaf (a: Johnston-Stewart 312, dry & slide; b: Stewart & al., Wild Orch. S. Afr. (1982) 214, fig. 32/2; c-e: Milne-Redhead & Taylor 7852, spirit; f: Johnston-Stewart 312, slide). Artists: a, b, f - Yue Jingzhu; c-e - K. Thunberg.

Fig. 67. *Nervilia kotschyi* (Rchb. f.) Schltr.; var. *kotschyi* (a-g) and var. *purpurata* (h). — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium; e - lip; f - leaf of var. *kotschyi*, much fringe-leaved form; g - leaf of var. *kotschyi*, smooth-leaved form; h - leaf of var. *purpurata* (a, b, e, f: Pettersson 164, fresh (cultivated), dry & slide; c, d: Pettersson 164, spirit; g: Pettersson 148, slide; h: Strey 3944, dry & photo). Artists: a, b, f - Yue Jingzhu; c-e, g, h - K. Thunberg.

Fig. 68. *Nervilia ballii* Williamson. — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium; e - lip; f - leaf (a, b: Pettersson 299, dry & slide; c-e: Pettersson 299, spirit; f: Pettersson 299, fresh; cultivated). Artists: a, b, f - Yue Jingzhu; c-e - K. Thunberg.

Fig. 69. *Nervilia shirensis* (Rolfe) Schltr. — a - flowering plant; b - flower; c - from left to right: median sepal, petal, lateral sepal; d - gynostemium; e - lip; f - leaf (a, b, e: Pettersson 300, dry & slide; c, d: Pettersson 300, spirit; f: Pettersson 300, fresh; cultivated). Artists: a, b, f - Yue Jingzhu; c-e - K. Thunberg.

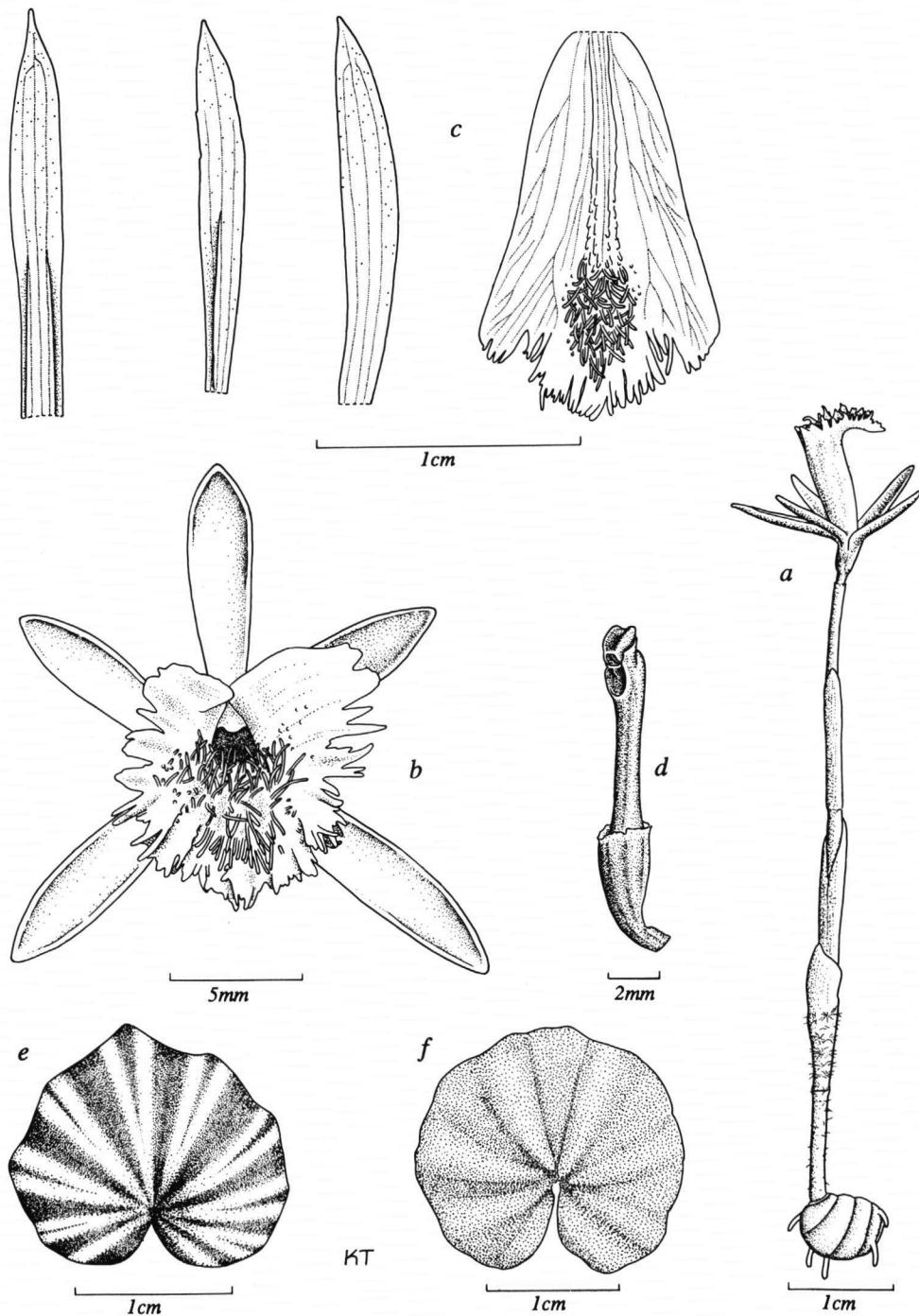


Fig. 54. *Nervilia petraea* (Afz. ex Sw.) Summerh.

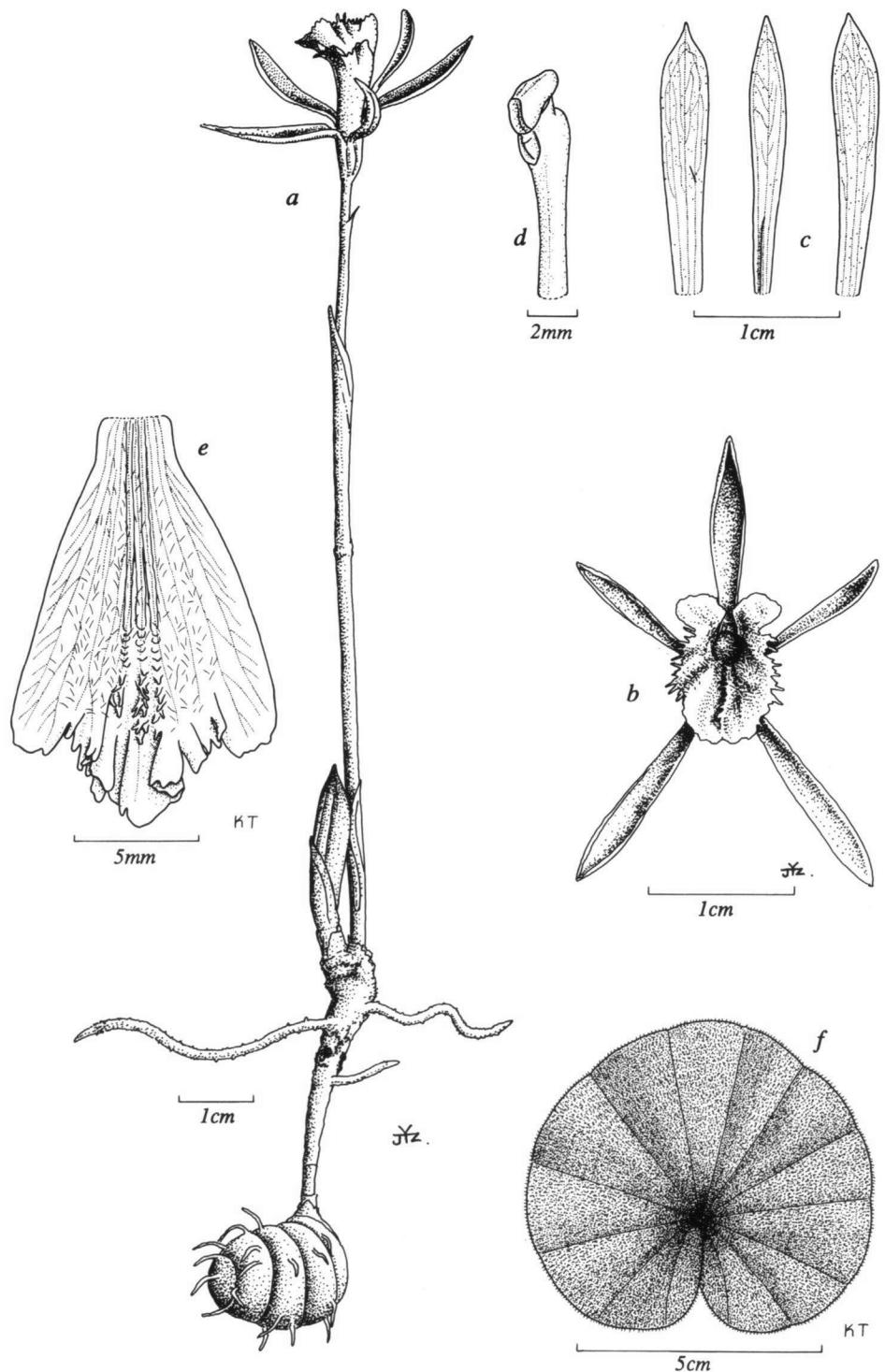


Fig. 55. *Nervilia crociformis* (Zoll. & Mor.) Seidenf.

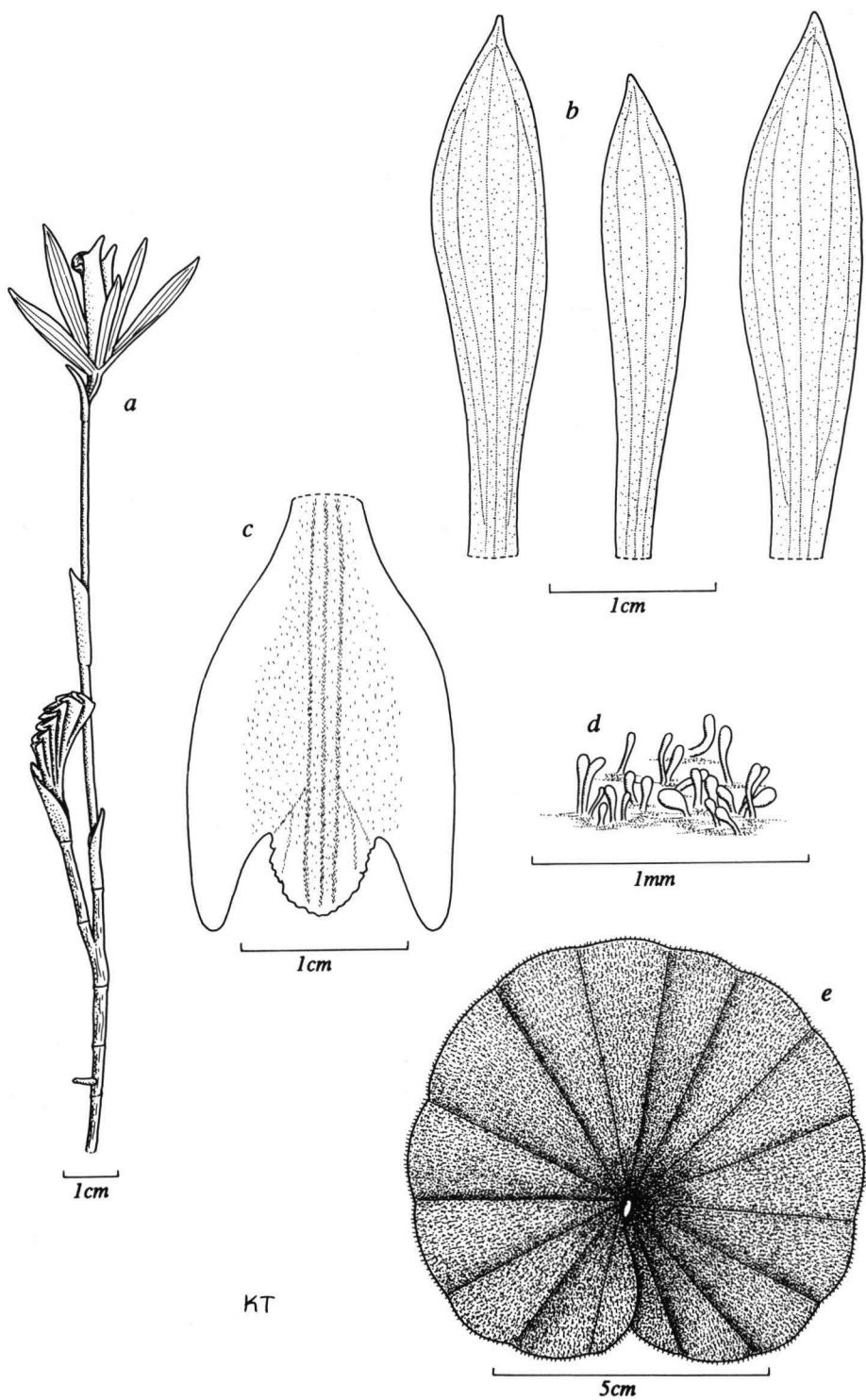


Fig. 56. *Nervilia leguminosarum* Jum. & Perr.

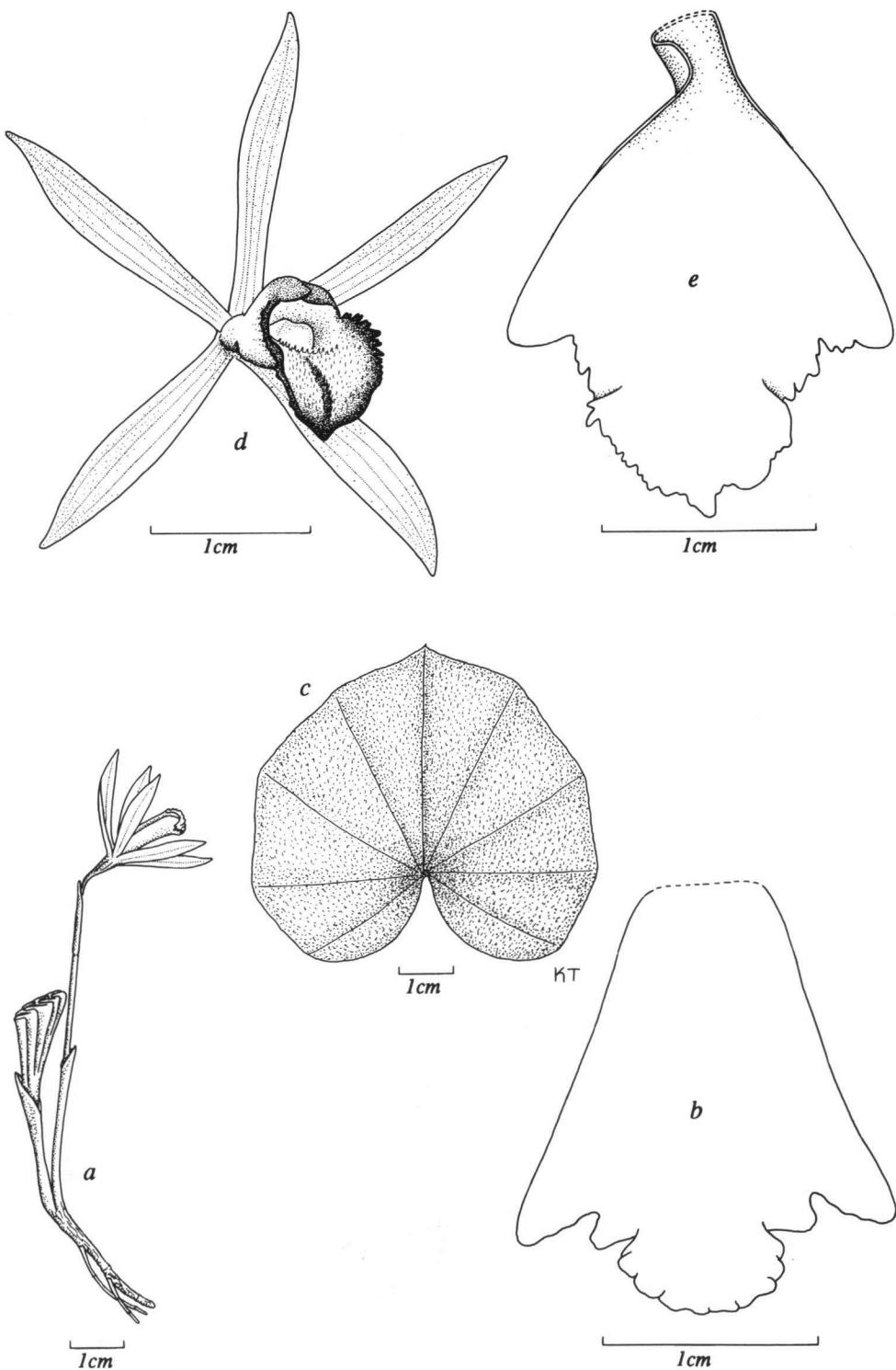


Fig. 57. *Nervilia affinis* Schltr.

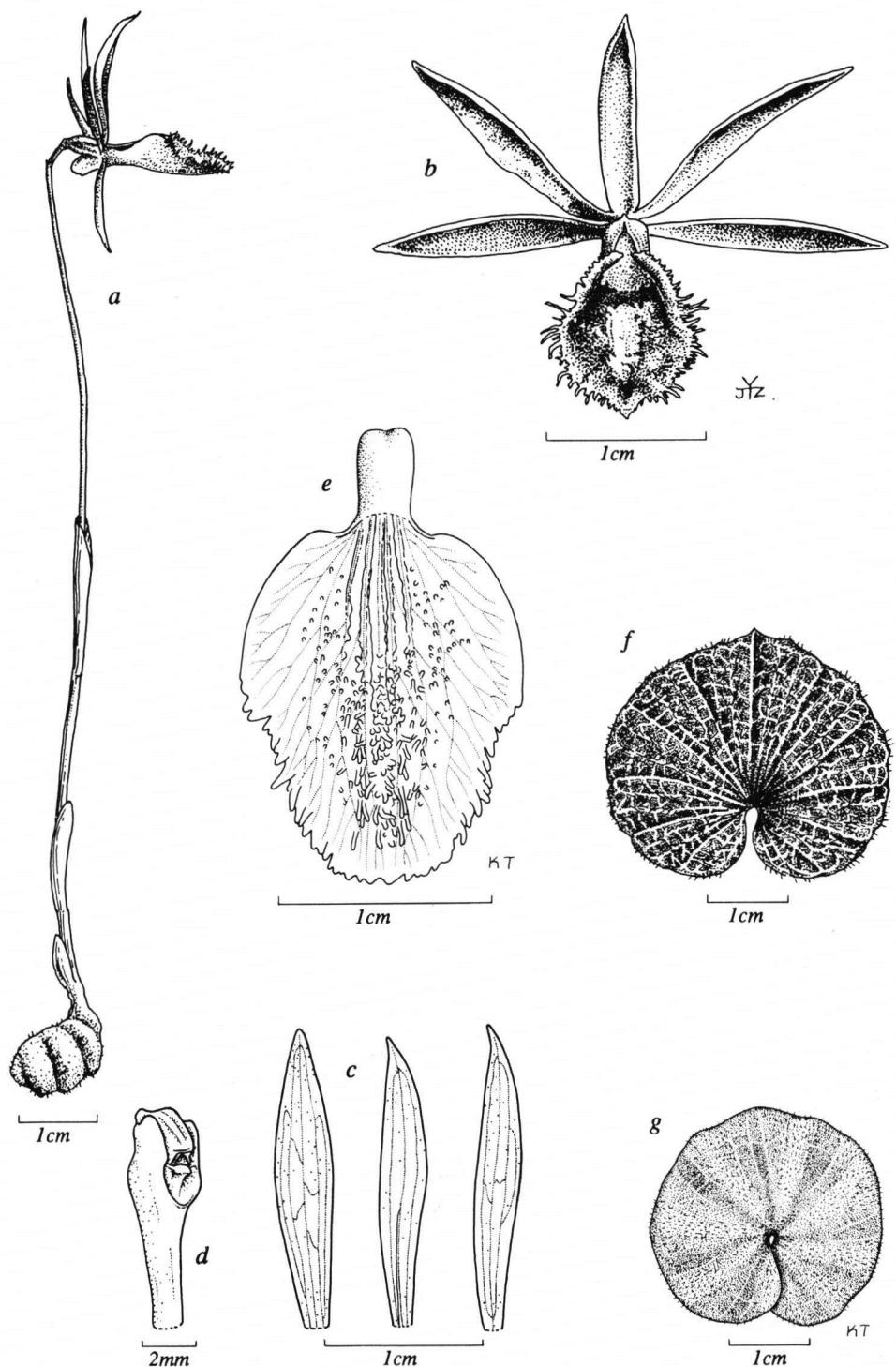


Fig. 58. *Nervilia stolziana* Schltr.

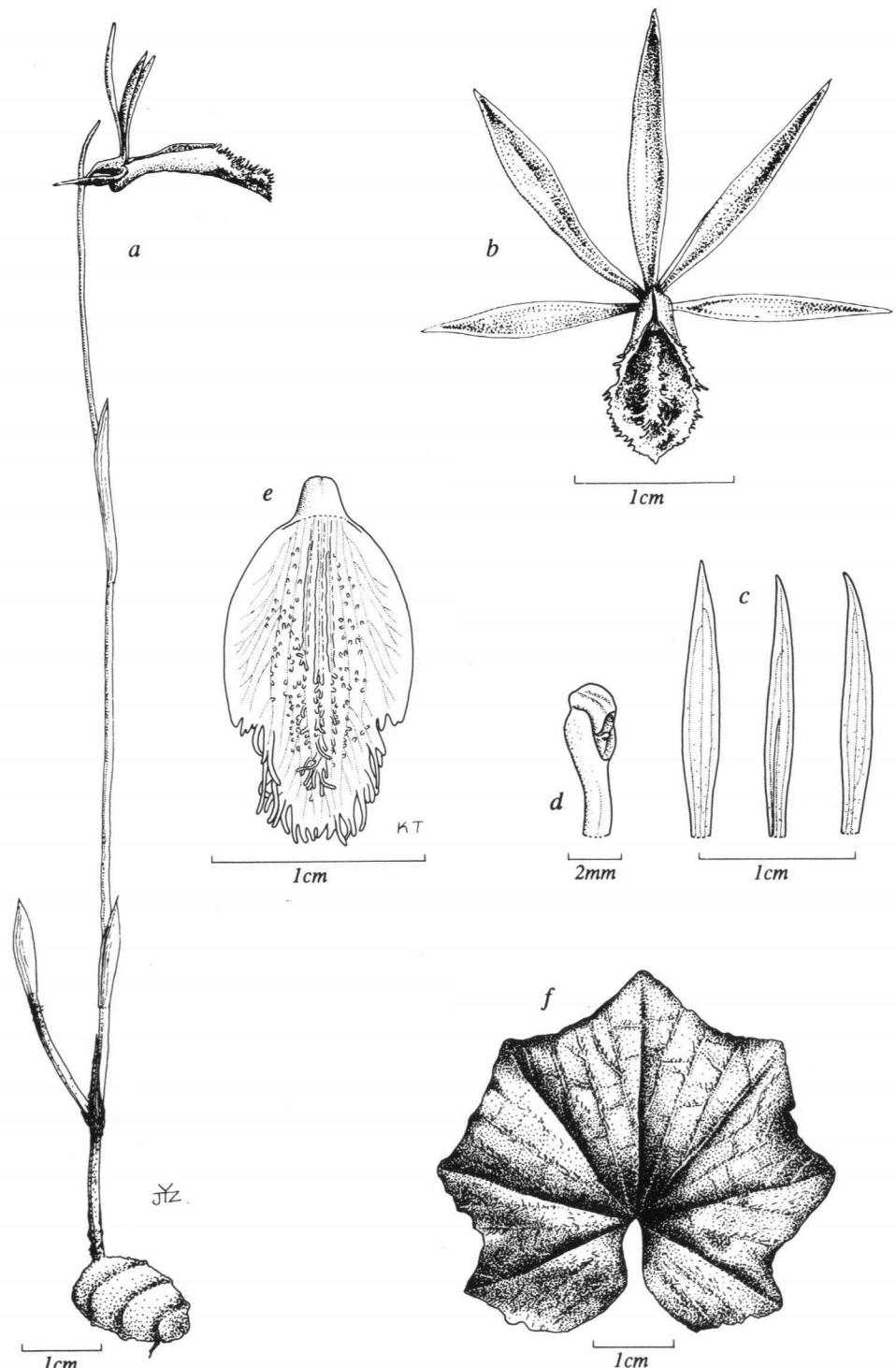


Fig. 59. *Nervilia pectinata* Cribb

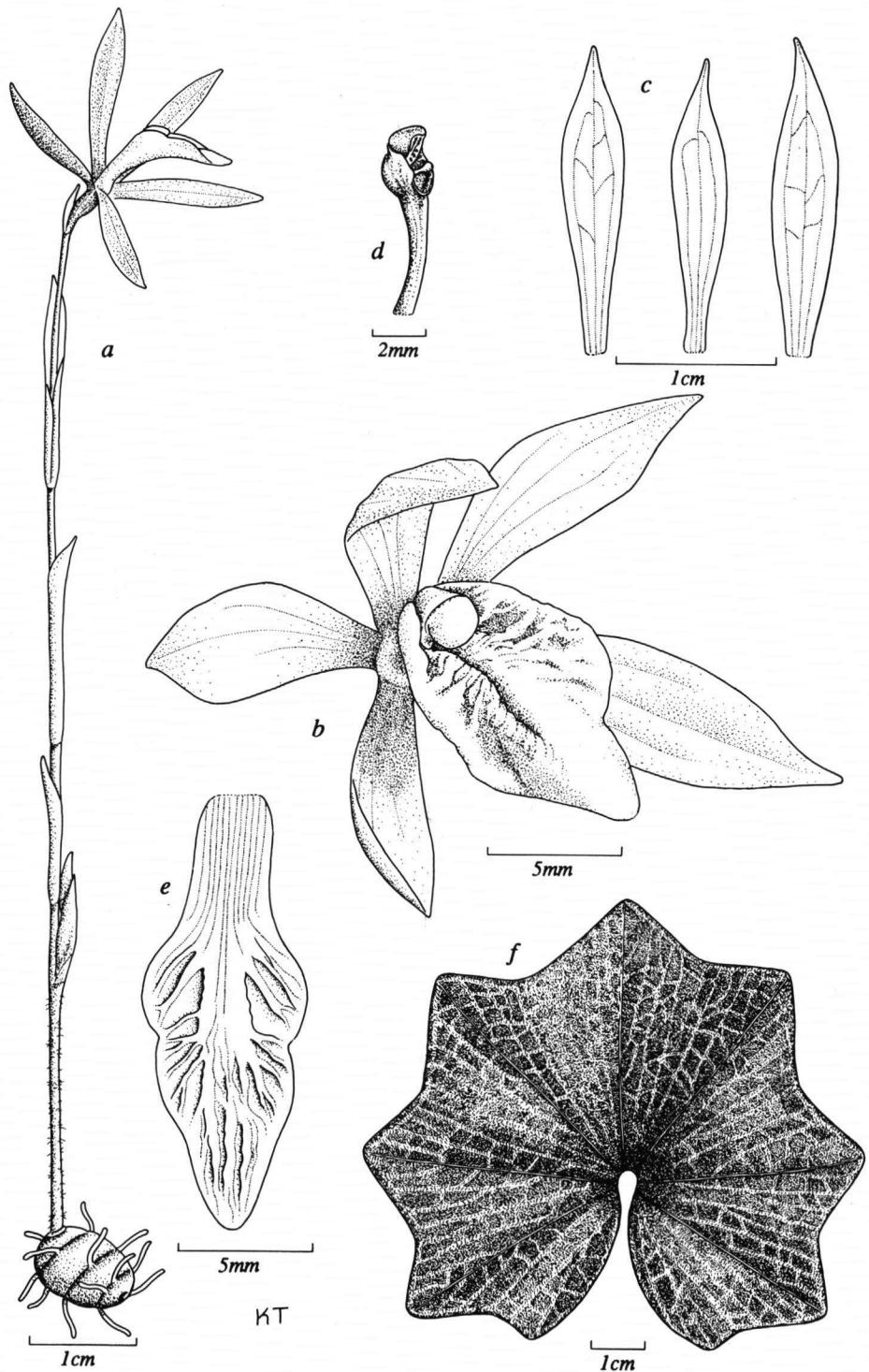


Fig. 60. *Nervilia subintegra* Summerh.

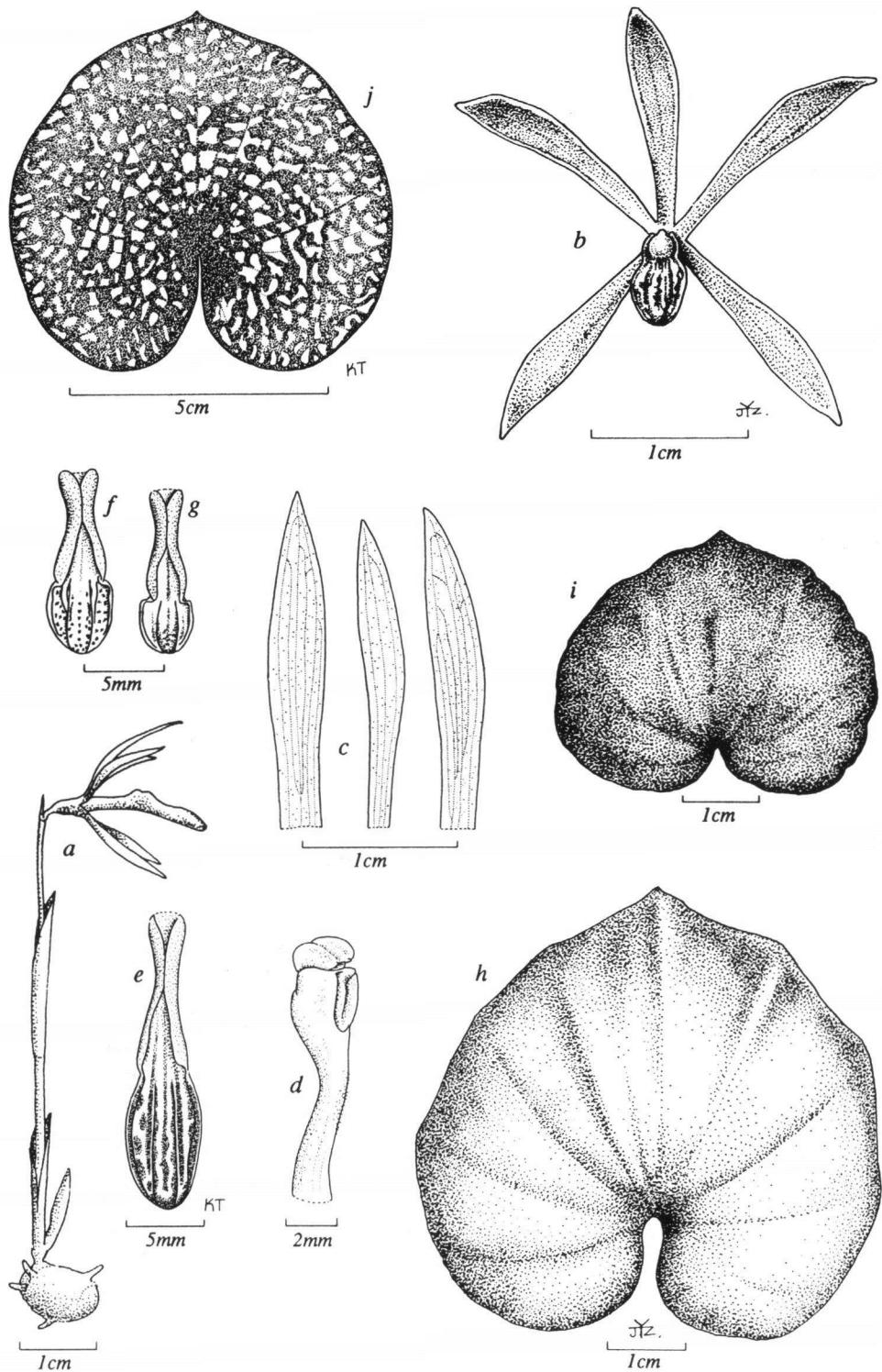


Fig. 61. *Nervilia adolphi* Schltr. var. *adolphi* (a-f, h, i), var. *seposita* (j), variety unknown (g).

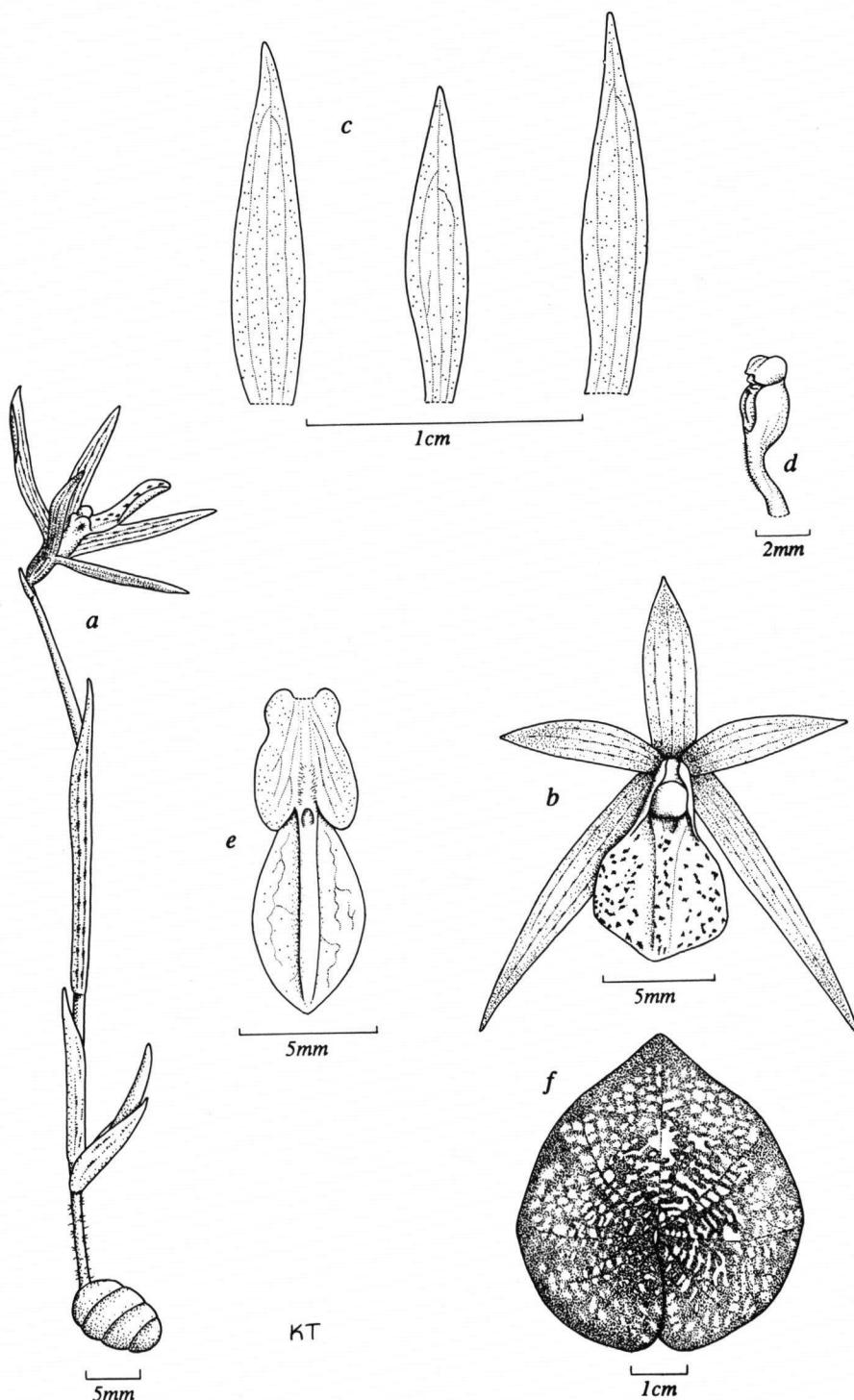


Fig. 62. *Nervilia fuerstenbergiana* Schltr.

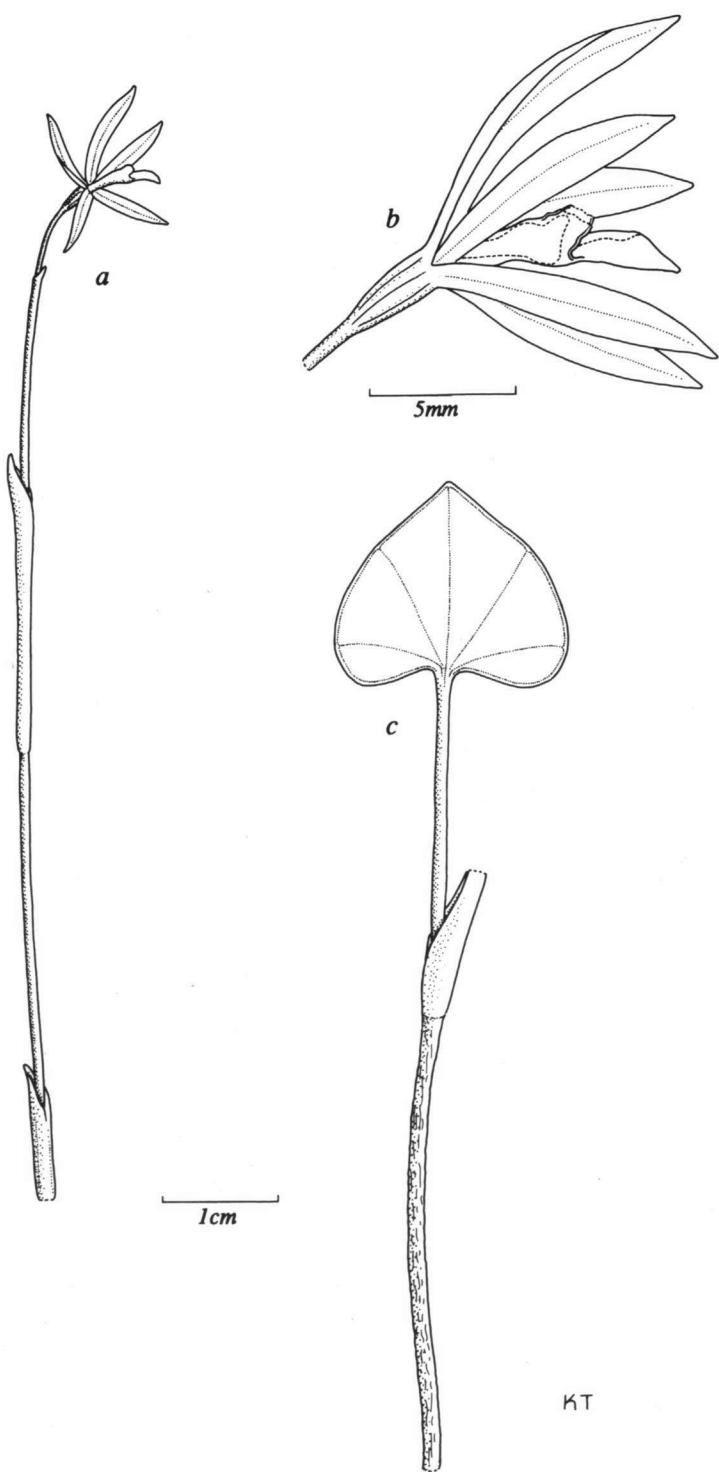


Fig. 63. *Nervilia lilacea* Jum. & Perr.

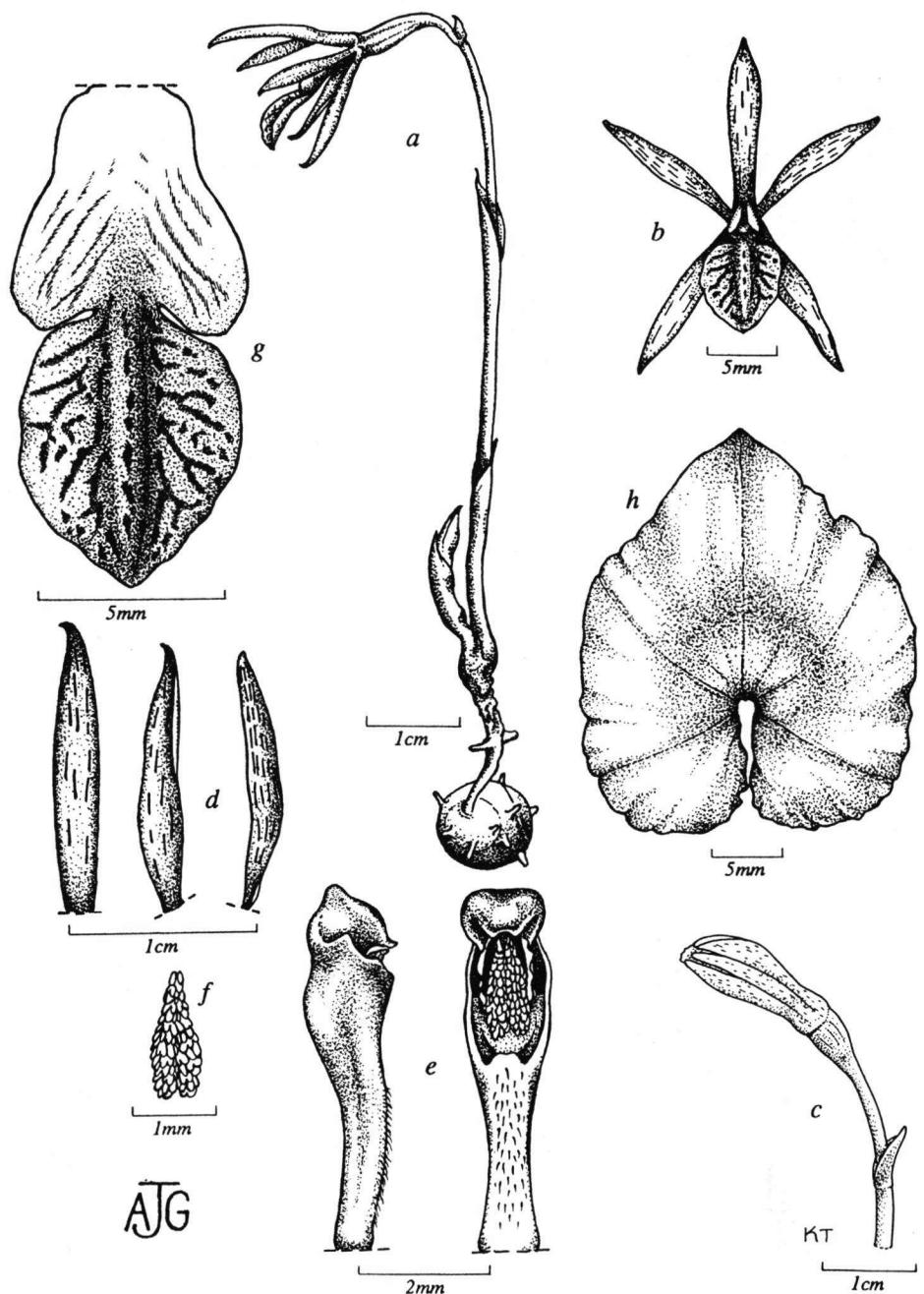


Fig. 64. *Nervilia gassneri* B. Pettersson

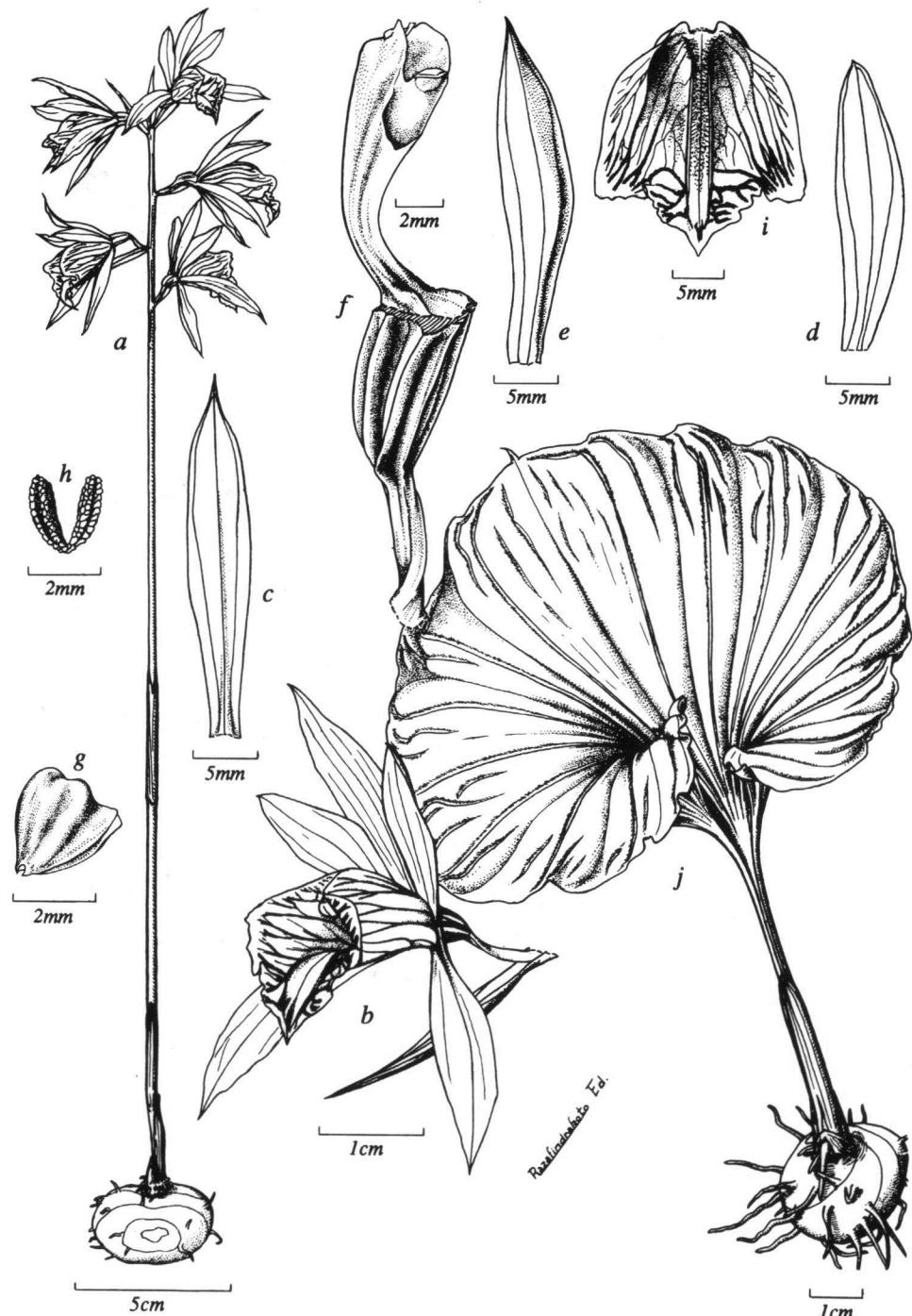


Fig. 65. *Nervilia bicarinata* (Blume) Schltr.

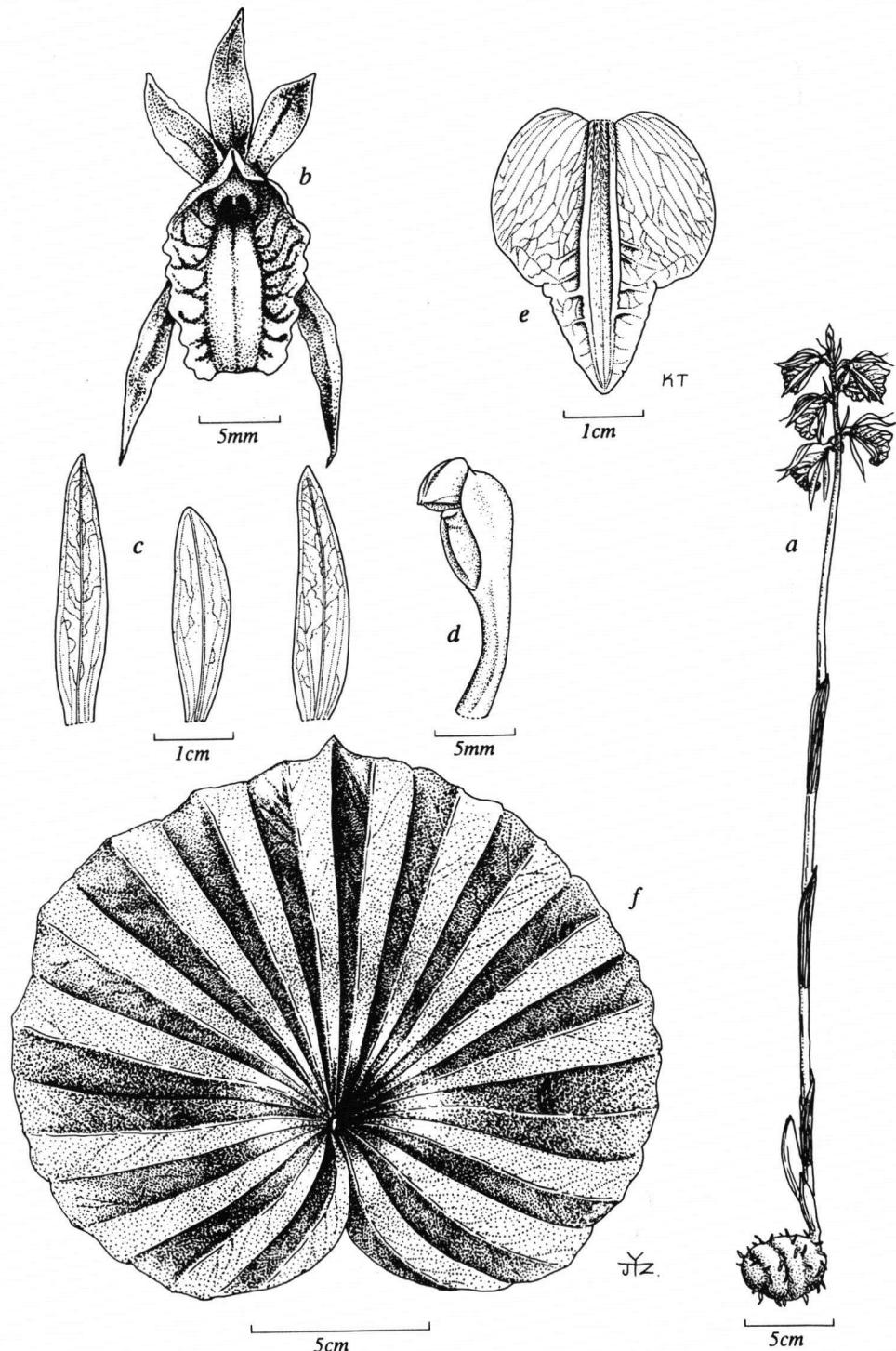


Fig. 66. *Nervilia renschiana* (Rchb. f.) Schltr.

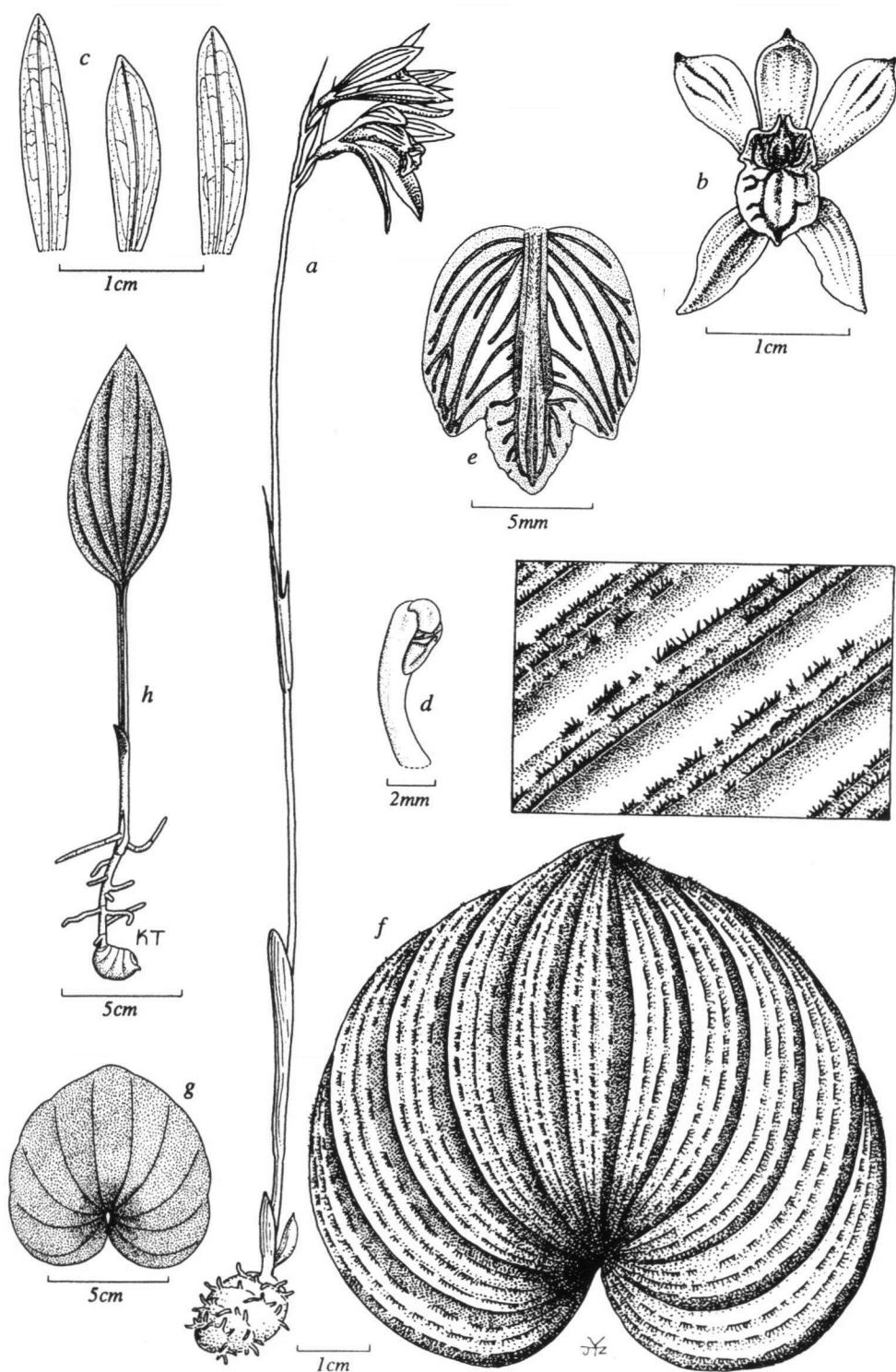


Fig. 67. *Nervilia kotschyi* (Rchb. f.) Schltr. var. *kotschyi* (a-g), var. *purpurata* (h).

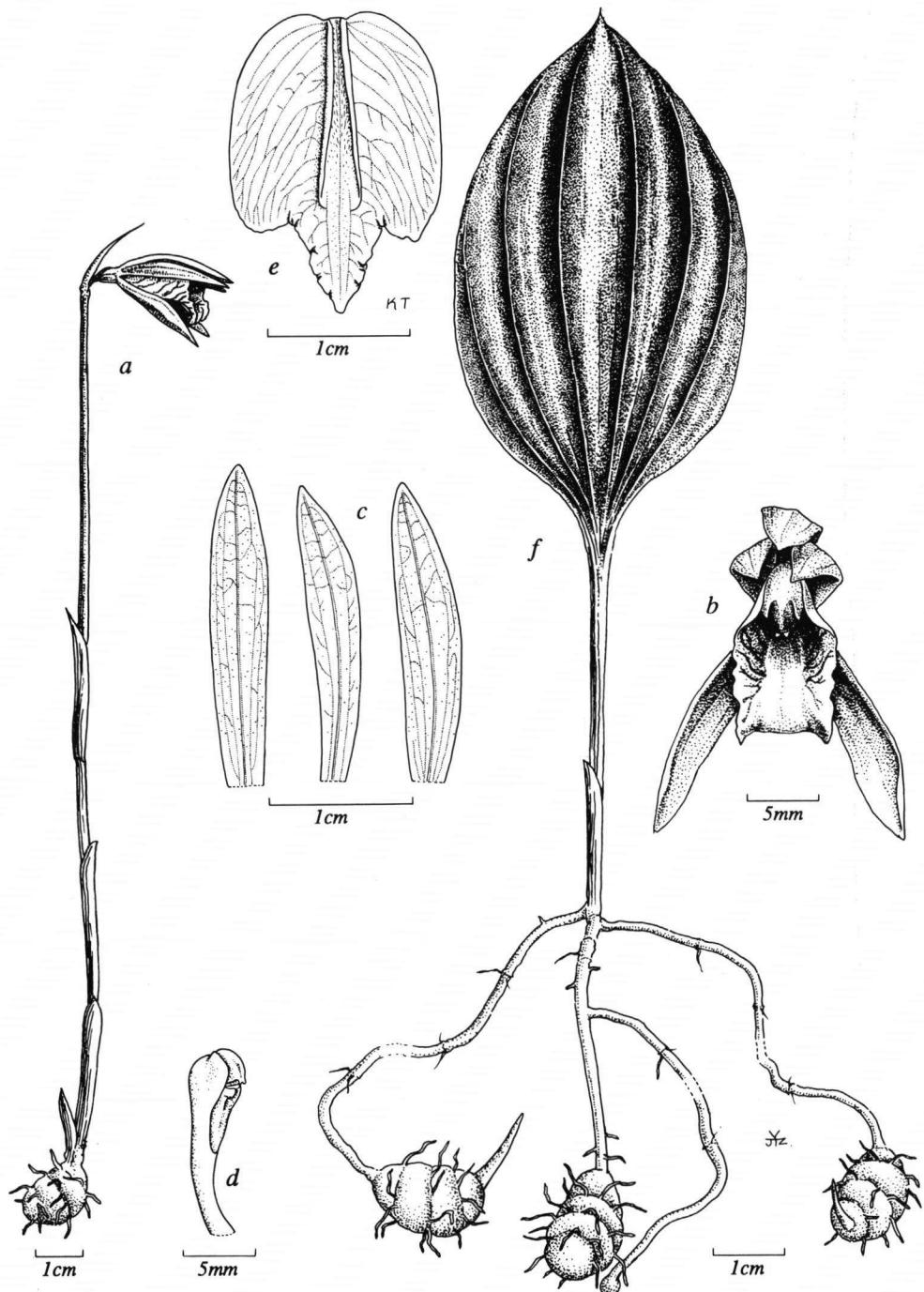


Fig. 68. *Nervilia ballii* Williamson

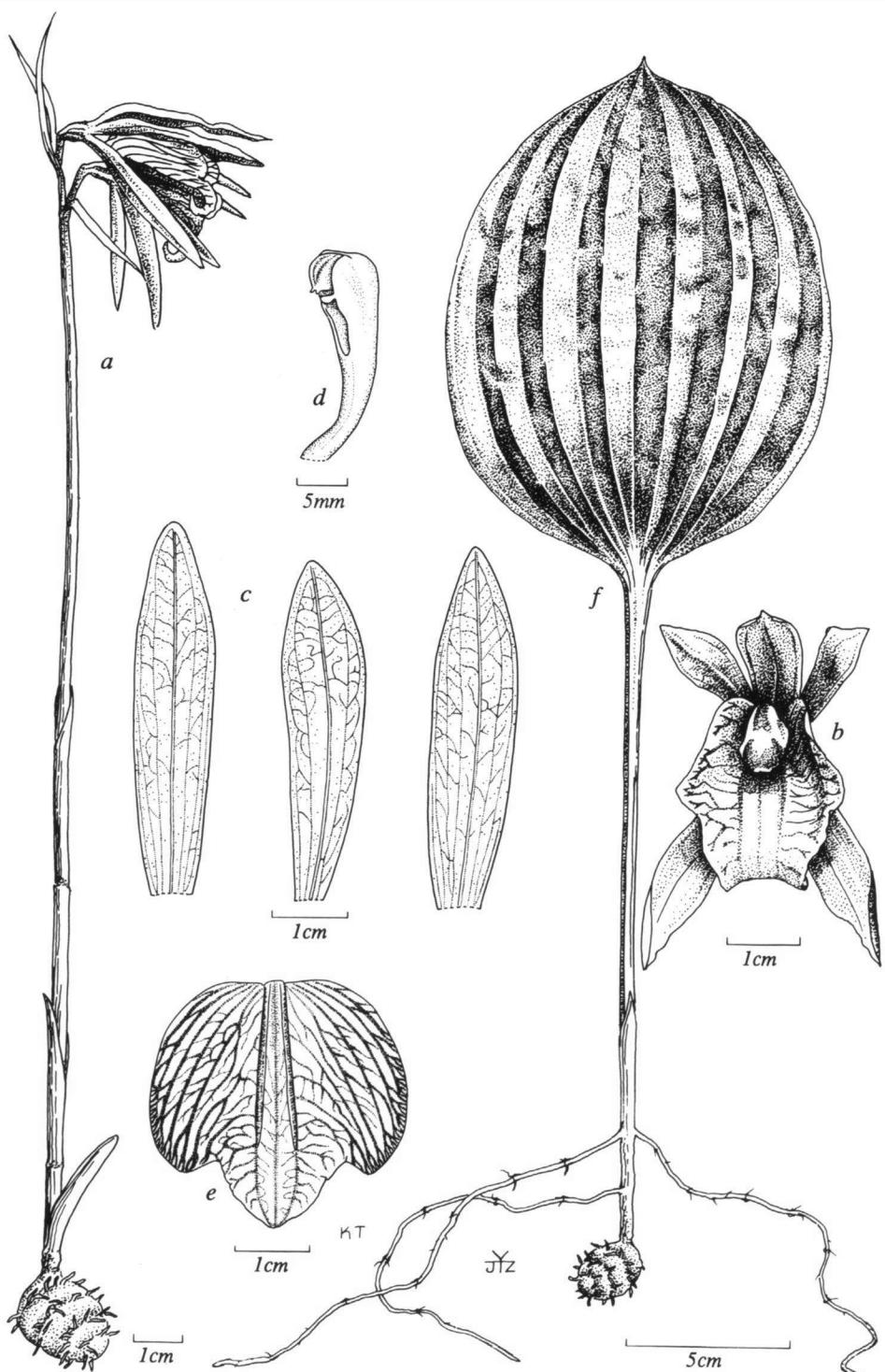


Fig. 69. *Nervilia shirensis* (Rolfe) Schltr.

INDEX

The hyphen separates the names of taxa from page numbers, numbers of figures, maps, and plates. Names of accepted taxa and the page number on which the taxon is described are printed in bold face. 'Fig.' refers to a line drawing, 'Map' to a map, 'Plate' to a colour plate.

- Apostellis** A. Rich. - 40
 - ambigua* A. Rich. - 43
- Arethusa** L. - 4
 - petraea* Afz. ex Sw. - 4, 5, 43
 - plicata* Andr. - 4
 - simplex* Thou. - 4, 5, 43, 44
- Arethuseæ** Lindl. - 4
- Auxopus** Schltr. - 4, 10, 26
- Begonia** L. - 9
 - monophylla* Pourret - 57
- Bletillinae** - 4
- Bolborchis** Zoll. & Mor. - 4, 40
 - crociformis* Zoll. & Mor. - 40, 44
- Bonatea** steudneri (Rchb. f.) Dur. & Schinz - 36
- Brachycorythis** Lindl. - 29
- Cordyla** Blume - 4
- Cordyla** Lour. - 4
- Cyclamen** L. - 9
- Cynorkis** Thou. - 18
- Didymoplexis** Griffith - 4, 10, 26
- Disa** Bergius - 29
- Disperis** Sw. - 9, 18, 29
- Epidendroideae** Lindl. - 4, 23
- Epidendrum** simplex (Thou.) Spreng. - 43
- Epipogium** Gmel. ex Borkh. - 26
- Eriospermum abyssinicum** Bak. - 16
- Eulophia** R. Br. ex Lindl. - 29
 - guineensis* Lindl. - 16, 36
 - petersii* (Rchb. f.) Rchb. f. - 36
 - streptopetalala* Lindl. - 36
- Gastrodia** R. Br. - 4, 26
- Gastrodieae** Lindl. - 4, 10, 26
- Gastrodiinae** Lindl. - 4
- Habenaria** Willd. - 18, 29
 - keayi* Summerh. - 36
 - malacophylla* Rchb. f. - 36
 - myodes* Summerh. - 36
 - schimperiana* A. Rich. - 36
- Haplostellis** Endl. - 40
 - truncata* Endl. - 43
- Lamium** galeobadol (L.) L. - 9
- Liparis** L.C. Rich. - 18, 29
 - nervosa* (Thunb.) Lindl. - 29
- Malaxis** Sol. ex Sw. - 18, 29
- Microcoelia** exilis Lindl. - 15
- Monadenium** Pax - 16
- Neottioideae** Lindl. - 6
- Neottiæ** Lindl. - 4
- Neottiinae** Pfitz. - 4
- Nervilia** Comm. ex Gaud. - 4, 5, 6, 23, 26, 28, 30, 40; Fig. 50, 52
- Nervilia** sect. *Kyimbilaea* Schltr. - 1, 5, 28, 43
- Nervilia** sect. *Linervia* Schltr. - 1, 5, 6, 10, 11, 19, 28, 43; Fig. 51
- Nervilia** sect. *Nervilia* Schltr. - 5, 10, 11, 27, 28, 56; Fig. 51
- Nervilia** sect. *Vinerlia* Schltr. - 5, 29; Fig. 51
 - abyssinica* (Chiov.) Schltr. - 62
 - adolphi* auct. non Schltr. - 55
 - adolphi* Schltr. - 1, 4, 9, 11, 23, 26, 30, 36, 37, 41, 44, 51, 52, 53, 55; Fig. 1c, 5, 50, 52, 61; Map 15, 18, 19; Plate 2b-d
 - var. *adolphi* - 3, 9, 17, 28, 43, 51, 53; Fig. 1c, 5, 61a-f, h, i; Map 18; Plate 2b, c
 - var. *seposita* N. Hallé & Toilliez - 9, 28, 43, 51, 52, 53; Fig. 61j; Map 19; Plate 2d
 - affinis* Schltr. - 7, 23, 41, 42, 48; Fig. 50, 57; Map 11; Plate 1b
 - afzelii* auct. non Schltr. - 45
 - afzelii* Schltr. - 43
 - var. *grandiflora* Summerh. - 45
 - aragoana* Gaud. - 14, 18, 40, 67
 - ballii* Williamson - 7, 9, 10, 17, 23, 26, 27, 30, 41, 42, 64; Fig. 13, 50, 52, 68; Map 7; Plate 4c
 - barklyana* (Rchb. f.) Schltr. - 57
 - bathiei* Senghas - 45
 - bicarinata* (Bl.) Schltr. - 1, 3-5, 9, 16-18, 20, 21, 23, 26, 27, 30, 36, 41, 42, 46, 47, 56, 67; Fig. 1a, d-e, 4, 12, 25, 39, 50, 52, 65; Map 16; Plate 3d
 - bollei* (Rchb. f.) Schltr. - 45
 - var. *buchananii* auct. non (Rolfe) Schltr. - 58
 - buchananii* (Rolfe) Schltr. - 65
 - commersonii* (Bl.) Schltr. - 57
 - crispata* (Bl.) Schltr. - 44

(*Nervilia*)

- crociformis* (Zoll. & Mor.) Seidenf. - 1, 7, 9, 10, 11, 12, 15, 17, 19, 20, 22, 23, 26, 29, 36, 40, 41, 42, 43, 44, 46, 47, 66; Fig. 6, 7, 14–19, 23, 28, 29, 34, 40–52, 55; Map 14; Cover Plate
dalbergiae Jum. & Perr. - 64
diantha Schltr. - 62
erosa Cribb - 45
francoisii Perr. ex François - 45
fuerstenbergiana auct. non Schltr. - 49, 53, 55
fuerstenbergiana Schltr. - 9, 10, 16, 23, 26, 28, 30, 36, 37, 42, 43, 54; Fig. 50, 52, 62; Map 3; Plate 3a
gassneri B. Pettersson - 1, 9, 10, 16, 17, 19, 23, 26, 30, 41–43, 55, 56; Fig. 24, 50, 52, (53), 64; Map 6; Plate 3b, c
ghindana (Fiori) Cufod. - 57
grandiflora auct. non Schltr. - 58, 60
grandiflora Schltr. 1910 - 59
grandiflora Schltr. 1924 - 59
hirsuta (Bl.) Schltr. - 66
humilis Schltr. - 45
insolata Jum. & Perr. - 59
kotschyi auct. non (Rchb. f.) Schltr. - 64
kotschyi (Rchb. f.) Schltr. - 1, 4, 9, 23, 25–27, 30, 36, 42, 60, 61; Fig. 9, 13, 20–22, 26, 50, 52, 67; Map 17, 20, 21; Plate 4b
var. *kotschyi* - 9, 11, 17, 18, 25, 28, 42, 43, 61, 62; Fig. 9, 13, 20–22, 26, 67a–g; Map 20; Plate 4b
var. *purpurata* (Rchb. f. & Sond.) B. Pettersson - 7, 17, 18, 25, 28, 42, 61, 62, 63; Fig. 67h; Map 21
leguminosarum Jum. & Perr. - 7, 10, 18, 23, 30, 41, 42, 47; Fig. 50, 56; Map 10
lilacea Jum. & Perr. - 23, 30, 41, 42, 55, 56; Fig. 63; Map 12
natalensis auct. non Schelpe - 58
natalensis Schelpe - 59
pectinata Cribb - 9, 10, 16, 17, 19, 20, 21, 23, 26–28, 30, 36, 41, 42, 49; Fig. 50, 52, 59; Map 5; Plate 1d
perrieri Schltr. - 48
petraea auct. non (Afz. ex Sw.) Summerh. - 62
petraea (Afz. ex Sw.) Summerh. - 9, 10, 12, 13, 17, 19, 20, 22, 23, 26, 28, 30, 31, 40–43, 66, 67; Fig. 4, 8, 50–52, 54; Map 13; Plate 1a

(*Nervilia*)

- pilosa* Schltr. & Perr. - 48
plicata (Andr.) Schltr. - 12, 14
prainiana (King & Pantl.) Seidenf. - 45, 46
punctata (Bl.) Schltr. - 28; Fig. 51
purpurea (Hay.) Schltr. - 14
purpurata auct. non (Rchb. f. & Sond.) Schltr. - 59, 63, 64
purpurata auct. prob. non (Rchb. f. & Sond.) Schltr. - 60
purpurata (Rchb. f. & Sond.) Schltr. - 62
reniformis Schltr. - 45
reniformis var. *afzelii* auct. non Schltr. - 45, 50
renschiana auct. non (Rchb. f.) Schltr. - 58
renschiana (Rchb. f.) Schltr. - 9, 23, 26, 27, 30, 42, 59; Fig. 50, 52, 66; Map 9; Plate 44a
sakooae Jum. & Perr. - 62, 63
shirensis auct. non (Rolfe) Schltr. - 58, 62
shirensis (Rolfe) Schltr. - 7, 10, 14, 17–21, 23, 26, 27, 30, 41, 42, 65; Fig. 2, 13, 27, 50, 52, 69; Map 8; Plate 4d
similis Schltr. - 60
simplex (Thou.) Schltr. - 43, 66
stolziana Schltr. - 7, 9, 10, 17–20, 23, 25–28, 30, 41–43, 48, 66; Fig. 10, 38, 50, 52, 58; Map 4; Plate 1c
subintegra Summerh. - 7, 10, 16, 23, 26, 28, 30, 36, 41, 42, 50, 51, 55; Fig. 50, 52, 60; Map 2; Plate 2a
toillieziae N. Hallé - 50
umbrosa auct. non (Rchb. f.) Schltr. - 59, 65
umbrosa (Rchb. f.) Schltr. - 57
viridiflava (Rchb. f.) Schltr. - 57
Nervilieae Dressler - 4, 10, 23, 26
Nerviliinae Schltr. - 4
Oeceoclades maculata (Lindl.) Lindl. - 9
Platanthera hyperborea (L.) Lindl. - 11
Pogonia Juss. - 4, 5
sect. *Nervilia* Lindl. - 5, 40
abyssinica Chiov. - 62
barklyana Rchb. f. - 57
bicarinata Blume - 56
bollei Rchb. f. - 36, 45
buchananii Rolfe - 65
carinata auct. prob. non (Roxb.) Lindl. - 67
carinata (Roxb.) Lindl. - 67
chariensis Chev. - 57
commersonii Blume - 57
crispata Blume - 44

(*Pogonia*)
djalonensis Chev. - 57
fineti Chev. - 45
ghindana Fiori - 57
hirsuta Blume - 66
kotschy Rchb. f. - 60
lanceolata Kränzl. ex Diels - 64
lanceolata Moreau - 64
leguminosarum Moreau - 47
minima Moreau - 44
plicata auct. prob. non Lindl. - 66
prainiana King & Pantl. - 45
purpurata auct. non Rchb. f. & Sond. - 59, 65
purpurata Rchb.f. & Sond. - 63
renschiana auct. non Rchb.f. - 57
renschiana Rchb.f. - 59
sakoe auct. non Jum. & Perr. - 62
shirensis Rolfe - 65

(*Pogonia*)
similis Blume - 60
simplex (Thou.) Rchb.f. - 43
thouarsii auct. non Blume - 44, 53, 62, 67
thouarsii Blume - 5, 47, 66
umbrosa Rchb. f. - 57, 67
viridiflava Rchb. f. - 57
Pogoniinae Pfitz. - 4
Roptrostemon Blume - 4, 40
Sansevieria Thunb. - 9
Satyrium Sw. - 18, 29
Stellorkis Thou. - 4, 5, 40
 apostellis Thou. - 4, 5, 40, 43
Tradescantia
 zebrina Hort. ex Loud. - 9
Triphora Nutt. - 4
Vanilleae Blume - 4
Vanillinae Lindl. - 4

LEGENDS OF THE PLATES

Plate 1

- a. *Nervilia petraea* (Afz. ex Sw.) Summerh.
Pettersson & Nilsson 79, from Madagascar.
- b. *Nervilia affinis* Schltr.
Bogner s.n. (Kew EN 719-67), cult., from Madagascar. Photo: Orchid Herbarium, Kew.
- c. *Nervilia stolziana* Schltr.
Pettersson 320, from Malawi.
- d. *Nervilia pectinata* Cribb
Pettersson 343, from Malawi.

Plate 2

- a. *Nervilia subintegra* Summerh.
Cult., from Ivory Coast. Photo: F. Hallé & M.F. Trouslot.
- b. *Nervilia adolphi* Schltr. var. *adolphi*
Wellving s.n., cult., from Zambia.
- c. *Nervilia adolphi* Schltr. var. *adolphi*
Pettersson, Hedrén & Kibuwa 289, cult., from Tanzania.
- d. *Nervilia adolphi* Schltr. var. *seposita* N. Hallé & Toilliez
Cult., from Ivory Coast. Photo: F. Hallé & M.F. Trouslot.

Plate 3

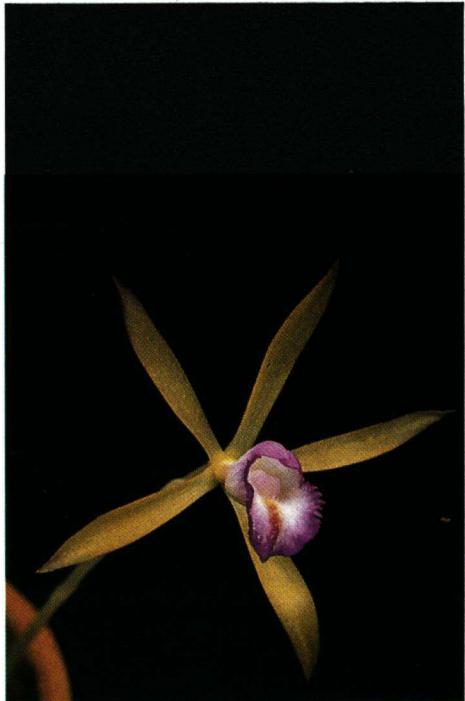
- a. *Nervilia fuerstenbergiana* Schltr.
Cult., from Ivory Coast. Photo: F. Hallé & M.F. Trouslot.
- b. *Nervilia gassneri* B. Pettersson
Pettersson 359, from Malawi.
- c. *Nervilia gassneri* B. Pettersson
Pettersson, Hedrén & Kibuwa 89, cult., from Tanzania.
- d. *Nervilia bicarinata* (Blume) Schltr.
Pettersson 312, from Malawi.

Plate 4

- a. *Nervilia renschiana* (Rchb. f.) Schltr.
Johnston-Stewart 312, from Malawi. Photo: N. Johnston-Stewart.
- b. *Nervilia kotschyi* (Rchb. f.) Schltr. var. *kotschyi*
Pettersson 164, cult., from Moçambique.
- c. *Nervilia ballii* Williamson
Pettersson 299, from Malawi.
- d. *Nervilia shirensis* (Rolfe) Schltr.
Pettersson 300, from Malawi.



a. *Nervilia petraea* (Afz. ex Sw.) Summerh. (1)



b. *Nervilia affinis* Schltr. (4)



c. *Nervilia stoltziana* Schltr. (5)



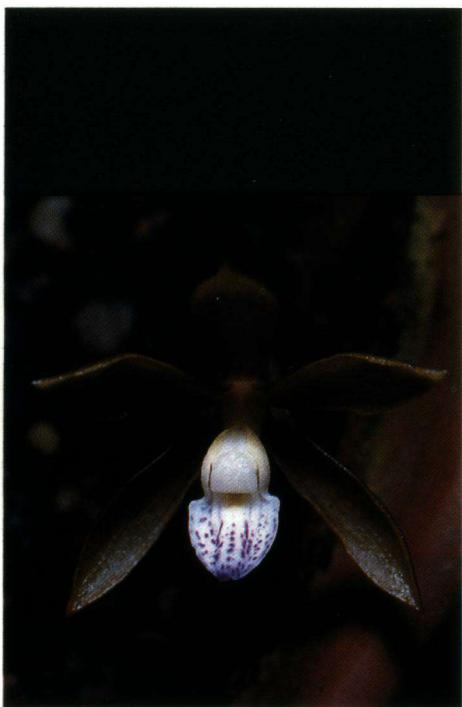
d. *Nervilia pectinata* Cribb (6)



a. *Nervilia subintegra* Summerh. (7)



b. *Nervilia adolphi* Schltr. var. *adolphi* (8a)



c. *Nervilia adolphi* Schltr. var. *adolphi* (8a)



d. *Nervilia adolphi* Schltr. var. *seposita* (8b)



a. *Nervilia fuerstenbergiana* Schltr. (9)



b. *Nervilia gassneri* B. Pettersson (11)



c. *Nervilia gassneri* B. Pettersson (11)



d. *Nervilia bicarinata* (Blume) Schltr. (12)



a. *Nervilia renschiana* (Rchb. f.) Schltr. (13)



b. *Nervilia kotschyi* var. *kotschyi* (14a)



c. *Nervilia ballii* Williamson (15)



d. *Nervilia shirensis* (Rolfe) Schltr. (16)