

FLORAE MALESIANAE PRECURSORES XXXIX
SUPPLEMENTARY NOTES TOWARDS THE KNOWLEDGE OF THE
ERICACEAE IN MALAYSIA II

H. SLEUMER
Rijksherbarium, Leyden

I. NEW SPECIES AND NEW RECORDS

The species numbers refer to those given in the author's previous revisions, cited at the genus. An a, b, or c number indicates the relationship of a new species.

I. RHODODENDRON

See *Reinwardtia* 5 (1960) 45; *Blumea* II (1961) 113; l.c. 12 (1963) 90.

4. *Rhododendron nummatum* J. J. S.

NEW GUINEA. Eastern Highlands: Mt Piora, 2900 m, NGF 16644 *Henty & Carlquist*. — Western Highlands: Nona-Minj Divide, 3250 m, *Vink 16008*.

II. *Rhododendron saruwagedicum* Foerst. incl. var. *alpinum* Sleum.

NEW GUINEA. Western Highlands: Kubor Ra., Mt Kinkain, summit area, 3590—3730 m, *Vink 16075, 16075 A, 16115*; Mt Milyin Kolyin, 3820 m, *Vink s.n.*

33. *Rhododendron hooglandii* Sleum.

NEW GUINEA. Western Highlands: Minj-Nona Divide, 3250 m, *Vink 16009*.

35. *Rhododendron superbum* Sleum.

NEW GUINEA. Western Highlands: Kubor Ra., Uinba, 1900—1970 m, in fallow native gardens, *Vink 16385, 16554*.

38. *Rhododendron rarum* Schltr.

NEW GUINEA. Western Highlands: Sirunke Mission, 24 miles from Wabag, 2750 m, NGF 15215 *Womersley*; Kaugel R. Valley, 2135—2620 m, NGF 14260 *p.p.*, 14268 *Womersley*; *Bowers 85*; Mt Hagen, Tambul road, 2600 m, NGF 14223 *Womersley*.

48. *Rhododendron phaeochitum* F. v. M.

NEW GUINEA. Eastern Highlands: limestone ridges near Kumul, Chuave-Chimbu road, 2285 m, NGF 14166 *Womersley*.

101. *Rhododendron cruttwellii* Sleum.

NEW GUINEA. Milne Bay Distr.: Yogom, Maneau Ra., 2285 m, *Cruttwell 1356*.

109. *Rhododendron pseudotrichanthum* Sleum., *nom. nov.* — *R. trichanthum* Sleum. Reinwardtia 5 (1960) 127, *non* Rehd., J. Arn. Arb. 26 (1945) 480.

121. *Rhododendron anagalliflorum* Wernh.

NEW GUINEA. Western Highlands: Nona-Minj Divide, 3250 m, *Vink 16005*.

122. *Rhododendron womersleyi* Sleum.

NEW GUINEA. Eastern Highlands: Mt Piora, 3200 m, *NGF 16558, 16567 Henty & Carlquist*. — Western Highlands: Kubor Ra., Mt Kinkain, 3590—3850 m, *Vink 16073, 16139*.

146a. *Rhododendron abietifolium* Sleum.

This marked species with its needle-like leaves was collected by H. P. Fuchs on the ascent of the eastern slope of Mt Kinabalu via the Mesilau East spur at 3160 m in flowers and fruit (21421), together with two single plants which apparently are local hybrids with *R. rugosum* var. *coriifolium* (collected at the same place), one of them nearer to it (21419), the other more intermediate between the presumable parents (21420), both with almost ripe, seed-bearing capsules.

148a. *Rhododendron sheilae* Sleum.

To guess from the ample materials collected by H. P. Fuchs on the ascent of the Eastern shoulder of Mt Kinabalu via the Mesilau East spur at 3240 m (21423), 3310 m (21424), and 3375 m (21428) and the collectors field notes, *R. sheilae* is found in scattered specimens within the habitats of *R. abietifolium* and *R. buxifolium* var. *robustum*, and apparently a constant hybrid of more or less intermediate position between these parents. Almost ripe capsules are full of seeds.

173. *Rhododendron atropurpureum* Sleum.

NEW GUINEA. Western Highlands: Kubor Ra., Mt Kinkain, 3590 m, *Vink 16077*.

179. *Rhododendron rugosum* Low *ex* Hook. *f.*

Rich materials have been collected on Mt Kinabalu in 1963 by H. P. Fuchs (together with Mrs S. Collenette) on the ascent of the Eastern shoulder via the Mesilau East spur up to the pinnacles below 'Sheilas Plateau'. At 2360, 2480, and still at 2880 m typical *R. rugosum* was found, but the subsequent collection at 3160 m showed *R. rugosum* influenced by *R. buxifolium* var. *robustum* which is abundant at 3300 m. These plants correspond to those recently described by the author as *R. coriifolium* from the upper part of the Eastern shoulder reached by the R. Society Expedition in 1961 at 3050—3200 m. They can be distinguished from *R. rugosum* by their stiffer and generally smaller leaves with an obtuse apex and base, a more distinctly crenulate leaf-margin, shorter petioles, and a deeper red of the corolla than generally found in typical *R. rugosum*. *R. coriifolium* was found to approach *R. rugosum* in the new material at hand more than known before, and is better regarded as a variety of *R. rugosum* than a proper species.

var. *coriifolium* (Sleum.) Sleum., *nov. stat.* — *R. coriifolium* Sleum. *Blumea* 12 (1963) 107.

BORNEO. N. Borneo: Mt Kinabalu, on crest below Sheila's Plateau, 3160 m, *H. P. Fuchs 21418*, fls. dark pale pink, no scent.

As to hybrids with *R. abietifolium* see under that species.

208a. *Rhododendron polyanthemum* Sleum.

BORNEO. N. Borneo: Mt Kinabalu, in submossy forest opposite Mesilau East R. Cave, 1720 m, *Sleumer 4725*, sterile.

239a. *Rhododendron fuchsii* Sleum., *nov. spec.*

Arbor parva, 3—4 m alta, trunco usque ad 1.5 m alto, vel frutex 2—3 m altus, ramulis robustis in sicco rubescentibus et vermicoso-nitidulis, laxe lepidibus sat parvis stellato-dentatis obtectis; internodia ultima 1 vel 2 tantum apice foliigera, 4—8 cm longa, 3—4 mm diam. *Folia* in pseudovorticillis (5—)6—8—meris disposita, elliptico-oblonga vel rarius oblonga, apice breviter attenuata et subobtusata, basi subrotundata vel truncata, coriacea, firma, supra in sicco olivaceo-brunnea, subtus rubescenti-brunnescentia, novella utrinque sat dense lepidota, maturitatem versus supra cito glabrescentia, subtus diutius subdenseque lepidota (lepidibus brunnescentibus sat parvis, planis, in zona marginali sat angusta irregulariter angulata vel substellato-dentata, centro bene impresso, punctis impressis reliquantibus quam lamina saturatius coloratis), integra, plana, vel in sicco margine parum revoluta, 5—8.5 cm longa, (2—)2.5—4(—4.5) cm lata, costa inferne petioli crassitudine, superne sensim angustiore, supra anguste impressa, subtus obtuse prominente, nervis lateralibus utroque latere 6—8(—10) irregularibus, inferne subrectis, superne curvatis obscureque inter sese conjunctis, supra leviter sed distincte immersis, subtus prominulis, venis pro parte supra levissime impressis, vel generaliter utrinque subobscuris; petioli crassi, applanati, (2—)3—5 mm longi, 3—4 mm lati. *Umbellae* (6—)8—10(—11)-florae. Perulae exteriores ovatae, apiculatae, c. 2 cm longae et 1.5 cm latae, interiores spatulatae usque ad 3 cm longae et 1—1.5 cm latae, glabrae, extus nitidulae. Bracteolae subspathulato-lineares, glabrae, 3—3.5 cm longae. Pedicelli crassiusculi, sub anthesi (2—)2.5—3.5 cm longi, aut laxe patenter albopilosi laxiusque lepidoti (21450), aut densius lepidoti et pilosi (21445). *Calyx* obliquus, breviter 5-lobatus et undulatus, c. 4 mm diam. *Corolla* infundibuliformis, extus rosea, intus per faucem lutescens, extus laxissime lepidota, intus basi ipsa tantum laxe pilosa, tota (4.5—)5—5.5(—6) cm longa, limbo 4(—5) cm diam., tubo basi 5-saccato et 5—6 mm diam., infra lobos usque ad 1 cm ampliato, 2.5—3.5 cm longo, lobis spatulato-obovatis leviter retusis 2—2.5 cm longis, 1.5—2 cm latis. *Stamina* 10 tubum corollae subaequantia; filamenta linearia, in inferiore tertio vel quarto laxe pilosa, ceterum glabra; antherae oblongae, 4 mm longae, 1 mm latae, thecis basi in apicem subincrassatum abeuntibus. Discus crasse 10-lobus, glaber. *Ovarium* conico-cylindricum, 5-angulatum vel -costatum, cum stylo abruptum, dense patenter pilosum et lepidotum, 4—5 mm longum, 2.5—3 mm diam., stylo crassiusculo, glabro, sub anthesi c. 1.4 cm longo, stigmatibus subcapitato. *Capsula* crasse cylindrica, 1.2 cm longa, 0.6 cm diam., pedicello crasso subglabro usque ad 3.5 cm longo.

BORNEO. N. Borneo: Mt Kinabalu, N slope, between 'Shangri-La' and Goking's Valley above rock overhanging path, c. 3360 m, fl. 4—9—1963, *H. P. Fuchs 21450* (G, K; L, *type*; SAR); Western arm of uppermost 'Shangri-La' valley below camp 4, in sclerophyllous vegetation on steep slope at 3350 m, fl. fr. 31—8—1963, *H. P. Fuchs 21445*, buds salmon-pink, flowers reddish-pink, with yellowish throat, faint sweet cent.

2. GAULTHERIA

See Reinwardtia 4 (1957) 163; Blumea II (1961) 1; l.c. 12 (1963) 114.

II. *Gaultheria mundula* F. v. M.var. *mundula*

NEW GUINEA. Eastern Highlands: Mt Piora, 3200 m, *NGF 16562 Henty & Carlquist*. — Western Highlands: Kubor Ra., Mt Kinkain, 3500—3730 m, *Vink 16109, 16263*; Mt Milyin Kolyin, 4040 m, *Vink 16222 A*. — Milne Bay Distr.: Mt Aniata, 2900 m, *Cruetwell 1303*.

2I. *Gaultheria pullei* J. J. S.var. *pullei*

NEW GUINEA. Milne Bay Distr.: Maneau Ra., Mt Manaman, *Cruetwell 1266*.

3. DIPLYCOSIA

See Reinwardtia 4 (1957) 119; Blumea II (1961) 4; l.c. 12 (1963) 116.

3. *Diplycosia carrii* Sleum.

BORNEO. N. Borneo: Pinosok Plateau, along path between Mesilau Cave and Kundasan, c. 1500 m, *Sleumer 4739*.

4a. *Diplycosia abscondita* Sleum.

BORNEO. N. Borneo: Mt Kinabalu, in mossy forest above Kamarangah, 2900—3000 m, fl. 17-7-1963, *T. Smitinand s.n.* (BKF, L).

32a. *Diplycosia varians* Sleum., *nov. spec.*

Frutex epiphyticus vel subscandens, 20—40 cm altus. Ramuli in partibus recentioribus subdense pilis setiformibus subappressis rufescentibus obsiti, pilis aliis nullis, in partibus vetustioribus cito glabratis corticeque griseo obtectis. *Folia* forma ambituque variabilia sat laxe disposita, elliptica vel oblongo-elliptica, rarius late elliptica, apice breviter rarius brevissime attenuata, generaliter acuminata rarius apiculata, glandula terminali parum prominente, basi attenuata rarius subrotundata, coriacea, juventute supra rosacea, subtus albida, maturitate supra saturate viridia, subtus pallidiora, in sicco olivaceo-brunnescentia, supra glabra, subtus per faciem laxe subsetuloso-muriculata vel cito punctata, margine parum revoluta et crenulata, crenaturis seta elongata rufescenti ± persistente terminatis, (2.2—)2.5—3.5(—4) cm longa, (1—)1.3—1.8(—2) cm lata, semper medio latissima, costa supra bene immersa, subtus praecipue inferne obtuse prominente, superne saepius ± evanescente, nervis lateralibus utroque latere 2, pare inferiore paullo supra basin, pare superiore altius usque ad medium costae enascente, nervis omnibus supra leviter impressis rarius subevanidis, subtus prominulis minusque distinctis; petioli 2—3 mm longi. *Flores* axillares singuli, nutantes, 4- vel 5-meri. Pedicelli laxe muriculati, sub anthesi 2—3(—4) mm longi, in fructu maturo rarius usque ad 6 mm elongati. Bracteolae ovatae, dorso subglabrae, fimbriatae. *Calycis tubus* cupulatus, deorsum bene attenuatus, glaber, in vivo rosaceus, in sicco 2—3, in vivo 4—6(—7) mm longus, lobis ovato-acuminatis glanduloso-ciliatis 2—3 mm longis. *Corolla* urceolata, carnosula, glabra, ad tubum rosacea, in sicco 8—9, in vivo 10—11 mm longa, 6 resp. 8 mm diam., lobis albescentibus 1.5 mm longis,

parum reflexis. *Stamina* 8 vel 10; filamenta linearia, undata, glabra, 5 mm longa; thecae subgranulatae, 2.8 mm longae. Stylus glaber 5(—6) mm longus. *Ovarium* glabrum. *Fructus* maturus pyriformis, purpureus, 6—8 mm longus, c. 5 mm diam.

NEW GUINEA. Western Highlands: Nona-Minj Divide, 3250 m, fl. fr. 2-7-1963, *W. Vink 16007* (A, BO, CANB, G, K; L, type), in alpine *Xanthomyrtus-Papuacedrus-Quintinia* shrubbery.

Rather variable in leaf-shape and -size, but uniform in flower and fruit characters; nearest ally apparently *D. undata* J. J. S. from Celebes.

35. *Diplycosia rupicola* Sleum.

NEW GUINEA. Eastern Highlands: Mt Piora, 3200 m, *NGF 16588 Henty & Carlquist*.

55. *Diplycosia pinifolia* Stapf

BORNEO. N. Borneo: Mt Kinabalu, above Sosopodon, trail to Kamarangah, 1300 m, *Sleumer 4688*, epiphyte on high trees; Mesilau East R., 1530 m, *Sleumer 4724*, epiphyte in forest; on landslide opposite Mesilau East R. Cave, 2000 m, *Sleumer 4734*, terrestrial shrub, 0.5 m; Mesilau East R., on temporarily inundated boulders with mosses along river, 1950 m, *Sleumer 4737*; Crocker Ra., G. Alab, 1220—1500 m, *SAN 21951*.

75. *Diplycosia sphenophylla* Sleum.

BORNEO. N. Borneo: Mesilau East R. basin, in mossy forest at 2230 m, *Sleumer 4728*.

4. VACCINIUM

See *Blumea* 11 (1961) 9; l.c. 12 (1963) 123.

70. *Vaccinium amblyandrum* F. v. M.

var. *amblyandrum*

NEW GUINEA. Eastern Highlands: Mt Piora, 3350 m, *NGF 16658 Henty & Carlquist*, in alpine grassland. — Western Highlands: Mt Kantz, 3860 m, *Vink 16187* (leaves partly subentire); Kubor Ra., Mt Minyin Kolyin, 3680—4040 m (top), *Vink 16211, 16213, 16222*. — Milne Bay Distr.: Mt Donana, 2500 m, *Crutwell 1258*.

var. *maiusculum* Sleum.

NEW GUINEA. Western Highlands: Nona-Minj Divide, 3280 m, *Vink 16062*, in alpine shrubbery; Kubor Ra., Mt Kinkain, 3550—3730 m (top), *Vink 16104, 16194*; Mt Minyin Kolyin, 3820 m, *Vink 16209*.

148. *Vaccinium pachydermum* Stapf

BORNEO. Sarawak: Baram Distr., Mt Mulu, 1525 m, *Chew Wee Lek 393*.

152. *Vaccinium clementis* Merr.

BORNEO. Sarawak: Baram Distr., Mt Mulu, 1065 m, *Chew Wee Lek 395, 410*.

195. *Vaccinium claoxylon* J. J. S.

BORNEO. Sarawak: Baram Distr., Mt Mulu, 1230 m, *Chew Wee Lek 375*.

204. *Vaccinium crassistylum* Sleum.

NEW GUINEA. Western Highlands: Uinba, Minj-Nonan Divide, in *Nothofagus* forest at 2150 m, *Vink 16492*.

5. AGAPETES

See *Nova Guinea Bot. n. 1* (1960) 1.

I. *Agapetes scortechinii* (K. & G.) Sleum.

MALAY PENINSULA. Pahang: Cameron Highlands, G. Beremban, 1630 m, *Sleumer 4664*; G. Jasar, c. 1700 m, *Sleumer 4669*.

4. *Agapetes rubrocalyx* Sleum.

var. *pilicalyx* Sleum.

NEW GUINEA. Western Highlands: Nona-Minj Divide, 3250 m, *Vink 16023*.

7. *Agapetes vitis-idaea* Sleum.

NEW GUINEA. Western Highlands: Kubor Ra., Mt Kinkain, 3720 m, *Vink 16108*, on vertical grass-covered wall in alpine grassland.

6. DIMORPHANTHERA

See *Nova Guinea Bot. n. 7* (1961) 73; *Blumea 12* (1963) 137.

II. *Dimorphanthera decockii* J. J. S.

var. *decockii*

NEW GUINEA. Western Highlands: Kaugel R. near Tambul, 2135 m, *NGF 14263 Womersley*; Nona-Minj Divide, 3270 m, alpine shrubbery, *Vink 16017, 16144*.

var. *chlorocarpa* (Sleum.) Sleum.

NEW GUINEA. Western Highlands: Lai R., 18 miles from Wabag, 2440 m, *NGF 15206 Womersley*.

16. *Dimorphanthera amoena* Sleum.

NEW GUINEA. Eastern Highlands: Pengagl Creek above Keglsugl, ascent to Mt Wilhelm, 2745 m, *NGF 14641 Millar*. — Western Highlands: Nona-Minj Divide, 3270 m, *Vink 16107 a*; Kubor Ra., Mt Kinkain, 3480 m, *Vink 16267*.

23. *Dimorphanthera cornuta* J. J. S.

var. *tenuiflora* Sleum.

NEW GUINEA. Western Highlands: Tambul, 2440 m, *NGF 14256 Womersley*.

30. *Dimorphanthera robbinsii* Sleum.

NEW GUINEA. Eastern Highlands: Tau, near Chuave, Chimbu Subdistr., 2285 m, *NGF 14099 Womersley*; near Kumul, Chuave-Chimbu road, 2285 m, *NGF 14150 Womersley*.

31. *Dimorphanthera clemensiae* Sleum.

NEW GUINEA. Western Highlands: Lai R., 18 miles from Wabag, 2440 m, NGF 15207 *Womersley*.

35. *Dimorphanthera splendens* Sleum.

NEW GUINEA. Eastern Highlands: Movi near Goroka, 1980 m, *Crutwell s. n.* — Southern Highlands: near Wasemi, Lake Kutubu, 760 m, *Schodde 2298*.

41. *Dimorphanthera womersleyi* Sleum.

NEW GUINEA. Western Highlands: foothills near Nondugl, 1585 m, NGF 14186 *Womersley*; Uinba, Nona-Minj Divide, 2000 m, *Vink 16400*, in depleted primary forest; Nona R., 1910 m, *Vink 16433*, in secondary growth. — Morobe Distr.: Gurakor, Lae-Wau road, 450 m, NGF 15310 *Womersley* (different by slightly larger flowers).

46. *Dimorphanthera collinsii* Sleum.

var. *montis-wilhelmi* Sleum.

NEW GUINEA. Western Highlands: Nona-Minj Divide, 2880 m, *Vink 16003*.

47. *Dimorphanthera elegantissima* K. Schum.

NEW GUINEA. Eastern Highlands: Wonenara Patrol post, Guaiga R., 1465 m, NGF 16527 *Henty & Carlquist*.

58. *Dimorphanthera microphylla* Sleum.

NEW GUINEA. Western Highlands: Kubor Ra., Mt Kinkain, 3550 m, *Vink 16127*, in alpine shrubbery.

2. NOMENCLATORIAL CORRECTIONS OF SUBGENERIC AND SECTIONAL NAMES IN THE GENUS RHODODENDRON

subg. PENTANTHERA

(G. Don *pro sect.*) Pojarkova, Flora U.R.S.S. 18 (1952) 57; Sleum. in Bowers, Rhododendrons & Azaleas, 2nd ed. (1960) 468. — *Azalea* (*non L. sensu Salisb.*) Desv., J. Bot. Appl. 1 (1813) 35, *p.p.* — *Anthodendron* Reichb. in Mössl., Handb. ed. sec. I, p. XL (1827) 308; Fl. Germ. Exc. 1 (1831) 416; Steud., Nom. (1840) 105 (*Anthodendrum*); Reichb., Ic. Fl. Germ. (1855) t. 1159 [*Anthodendron ponticum* (L.) Reichb.]. — *R.* subgen. *Azalea* (*non L. sensu Salisb.*) Planch., Fl. Serres 9 (1853/54) 75 ("sous-genre", based on "*Azalea pontica* L., *A. sinensis* Lodd., *A. viscosa* L. etc."); Seithe, Bot. Jahrb. 79 (1960) 312. — *Azalea* subgen. *Pentanthera* (G. Don *pro sect.*, *p.p.*) K. Koch, Dendr. 2 (1872) 186; Copel. f., Am. Midl. Nat. 30 (1943) 595. — *R.* subgen. *Anthodendron* (Reichb.) Endl. *ex Wils. & Rehd.*, Monogr. Azaleas (1921) 115 (Lectotype sp.: *R. luteum* Sweet); Rehd., Man. Cult. Tr. Shr. (1927) 692; 2nd. ed. (1940) 713; Sleum., Gartenflora 86 (1937) 104. — *R.* subgen. *Pseudanthodendron* Sleum., Bot. Jahrb. 74 (1949) 526, 550 (Type sp.: *R. luteum* Sweet). — *R.* subgen. *Nomazalea*, based on "chorus subgenerum" *Nomazalea* Seithe-v. Hoff, Jahrb. Rhodod. Ges. Bremen (1961) 90 (Type sp.: *R. luteum* Sweet).

Lectotype sp.: *R. nudiflorum* (L.) Torr.

The original circumscription of *Pentanthera* G. Don (as a section of *Rhododendron*) comprises *R. flavum* G. Don (= *R. luteum* Sweet), *R. nudiflorum* (L.) Torr., *R. viscosum* (L.) Torr., *R. calendulaceum* (Michx.) Torr., *R. arborescens* Pursh, and 6 other North American species. When K. Koch in 1872 gave *Pentanthera* a subgeneric rank (in the genus *Azalea*), he restricted G. Don's section by excluding *R. flavum* G. Don (which he put in *R.* subgen. *Euazalea* in Planchon's and his own sense), leaving in it from Don's original species only *R. calendulaceum*, *R. nudiflorum*, *R. viscosum*, and *R. arborescens*. In the genus *Rhododendron*, Pojarkova used *Pentanthera* in the subgeneric level for the first time, mentioning only *R. luteum* Sweet, but, to guess from the citations given, apparently included the whole of G. Don's sect. *Pentanthera*. For *Pentanthera* in the subgeneric rank a lectotype can only be chosen from the species mentioned by Koch. I propose *R. nudiflorum* (L.) Torr. as a lectotype species which is found both in Don's sect. *Pentanthera* and in *Azalea* subgen. *Pentanthera* (G. Don) Koch, and implicite also in *Rhododendron* subgen. *Pentanthera* (G. Don) Pojarkova.

Wilson & Rehder (Monogr. Azaleas, 1921, 124) have typified *Pentanthera* in the genus *Rhododendron* on the sectional level by *R. luteum* Sweet. This choice, however, cannot be followed on the subgeneric level, because, as already stated, Koch in 1872 excluded just that species when raising the sect. *Pentanthera* to a subgenus. By this misapplication, *R. sect. Pentanthera* Wilson & Rehder becomes a later homonym (Code art. 48).

The original circumscription of *Anthodendron* Reichb. comprises *A. ponticum* (L.) Reichb (= *Azalea pontica* L. = *Azalea flava* Hoffmannsegg = *Rhododendron flavum* G. Don = *R. luteum* Sweet), *A. nudiflorum* (L.) Reichb. (= *Azalea nudiflora* L.), and *A. viscosum* (L.) Reichb. (= *Azalea viscosa* L.). Of these Wilson & Rehder (1921, p. 115) have chosen *Rhododendron luteum* Sweet as the lectotype species when they emended *Rhododendron* a. *Anthodendron* (Reichb.) Endl. and fixed that name in the rank of a subgenus. This name cannot be used because there is an older one on the same level, i.e. *Pentanthera* (G. Don) Koch 1872.

Anthodendron was reduced to a section of *Rhododendron* by Endlicher in 1839, still comprising the three original species; in 1841, however, Endlicher (Enchir., p. 371) added *Azalea* L. *sensu* Desvaux (1813), *Thisis* Salisb., and *Pentanthera* G. Don (published by G. Don as a section of *Rhododendron*) as synonyms, enlarging thus the original circumscription to include *Azalea indica* L. and its allies. This complex was divided in 1949 by the present author, who typified then *Anthodendron* Reichb. by *Azalea indica* L., and created the new subgeneric name *Pseudanthodendron* for *Azalea pontica* L. and its allies, in place of doing it the opposite way. By correcting this error, the latter now becomes a synonym of the first.

The subgeneric name *Azalea* Planch. (1853/54) cannot be used, because it is based on *Azalea* L., which has been restricted to *A. procumbens* L. (*Loiseleuria* Desv. 1813, *nom. gen. cons.*) by Salisbury, *Parad. Lond.* 2 (1807) *sub t.* 80 & 104. *Azalea* L. *sensu* Salisbury, based on the same nomenclatural type *Azalea procumbens* L. as is *Loiseleuria* Desv., becomes automatically a *nomen rejiciendum* under the present Code (Art. 14, note 3), cf. Sleumer, *Der Gattungsname Azalea* L., *Jahrb. Rhodod. Ges. Bremen* (1961) 82—88.

The correct name of the section which includes the lectotype of *R.* subgen. *Pentanthera* is:

sect. *Pentanthera*

Rhododendron sect. *Pentanthera* G. Don, *Gen. Syst.* 3 (1834) 846; Wils. & Rehd., *Pl. Wilson.* 1 (1913) 549; Monogr. Azaleas (1921) 95, 124; Rehd., *Man. Cult. Tr. Shr.* (1927) 697; 2nd. ed. (1940) 718; Sleum., *Bot. Jahrb.* 74 (1949) 526, 551, with other

synon. — *R. sect. Anthodendron* (Reichb.) Endl., Gen. (1839) 759; Enchir. (1841) 371, p.p.; Zabel, Mitt. Deutsch. Dendr. Ges. (1902) 23.

The subgenus lectotypified by *R. indicum* (L.) Sweet (= *Azalea indica* L.) must be named as follows:

subg. TSUTSUTSI

(G. Don) Pojarkova, Flora U.R.S.S. 18 (1952) 55; Seithe, Bot. Jahrb. 79 (1960) 312. — *Azalea* subgen. *Tsutsutsi* (G. Don, *pr. sect.*) K. Koch, Dendr. 2 (1872) 171; Copel. f., Am. Midl. Nat. 30 (1943) 597. — *R. subgen. Anthodendron* [*non* (Reichb.) Endl. *ex* Wils. & Rehd.] Sleum., Bot. Jahrb. 74 (1949) 527, 551; Blumea Suppl. 4 (1958) 49; Reinwardtia 5 (1960) 228; in Bowers, Rhododendrons and Azaleas, 2nd. ed. (1960) 468.

The combination of the name *Tsutsutsi* (G. Don *pro sect.*) on the subgeneric level has been ascribed to Planchon, Fl. Serres 9 (1853/54) 75, repr. Rév. Hort. IV, 3 (1854) 45 by various authors, but the wording "Les soi-disant Azalées de l'Inde, encore plus clairement un simple sous-genre du type Rhododendron, pour lequel nous proposerons le nom de Tsutsia, par contraction euphonique de Tsu-Tsusi, emprunté par Kaempfer, De Candolle et Don à la langue japonaise" does not express clearly enough Planchon's possible intention to bring the sect. *Tsutsutsi* of G. Don to the subgeneric level, the more as on the following page the "Azalées de l'Inde" are treated by Planchon as a section, with an ample description.

The section equally based on *Rhododendron indicum* (L.) Sweet is:

sect. **Tsutsutsi**

Rhododendron sect. Tsutsutsi Sweet, Brit. Fl. Gard. 5 (1831) sub T. 117 ("Tsutsusi"); G. Don, Gen. Syst. 3 (1834) 845, p. p.; DC., Prodr. 7 (1839) 726; Planch, Fl. Serres 9 (1853/54) 76 ("Tsutsia") i Miq., Fl. Ind. Bat. 2 (1859) 1059 ("Tsutsugi"); Wils. & Rehd., Monogr. Azaleas (1921) 22, with other synon.; Sleum., Bot. Jahrb. 74 (1949) 527, 551; Blumea Suppl. 4 (1958) 49. — *R. sect. Anthodendron* Sleum., Reinwardtia 5 (1960) 228; in Bowers, Rhododendrons and Azaleas, 2nd. ed. (1960) 468.