

NEW NAMES IN *ZALUZIANSKYA*
(SCROPHULARIACEAE-MANULEAE)

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Twenty one species of *Zaluzianskya* are newly described, 20 of them mainly from the Cape; one from Zimbabwe and Mozambique; *Phyllopodium minimum* is transferred to *Zaluzianskya*.

This paper is the fourth in a series dealing with new names in Scrophulariaceae-Manuleae, and is a continuation from *Notes RBG Edinb.* 46: 337 (1990). It is concerned exclusively with *Zaluzianskya* and full descriptions will follow in the revision of Manuleae now in preparation.

Zaluzianskya acrobareia Hilliard, **species nova** *Z. pusillae* (Benth.) Walp. affinis caulibus patenter glanduloso-pilosis (nec pilis eglandulosis plus minusve retrorsis), corollae tubo longiore (c.22–27mm, nec 6–15mm), limbo superne flavo (nec albo vel cremeo) differt.

Type: Cape, Calvinia div., 3119 AC?, Nieuwoudtville, farm Uitkoms, 820m, 9 viii 1983, *Van Wyk* 1350 (holo. STE).

Known with certainty only from the type collection.

Zaluzianskya acutiloba Hilliard, **species nova** *Z. pumilae* (Benth.) Walp. et *Z. inflatae* Diels proxime affinis corolla lobis alte divisis marginibus valde revolutis (nec alte vel paulo tantum divisis, marginibus planis), croceis vel brunneis (nec albis vel malvinis), haud flavo- vel aurantiaco- vel kermesino-oculata, circum orem zona glandularum minutarum sessilium (nec pilis clavatis ad c.0.4mm longis et glandulis sessilibus intermixtis) praedita differt.

Type: Cape, Sutherland div., Waterkloof, 1430m, ix 1921, *Marloth* 10409 (holo. STE, iso. PRE).

Recorded from Calvinia and Sutherland divisions.

Zaluzianskya affinis Hilliard, **species nova** a *Z. villosa* F. W. Schmidt foliis et bracteis lanceolatis plus minusve acutis (nec oblanceolatis vel spatulatis plus minusve obtusis), marginibus integris vel obscure dentatis (nec manifeste dentatis), foliis parce pilosis praecipue in marginibus inferioribus et parte petiolari (nec ubique dense pubescentibus), bracteis dimidio superiore glabris vel subglabris (nec ubique dense pubescentibus) distinguenda.

Type: Cape, Van Rhynsdorp div., 3118 DA, farm Liebendal, 7 miles north of Vredendal, 5 viii 1970, *Hall* 3697 (holo. NBG; iso. PRE).

Syn.: *Nycterinia selaginoides* (Thunb.) Benth. var. *glabra* Benth. in Hook., *Comp. Bot. Mag.* 1: 370 (1836). Lectotype (chosen here): Cape, bei Holriver, auf Karrooartigen Höhe, unter 1000 Fuss, Aug., *Drège* (K; isolecto. E, S, TCD).

The specimens were distributed as *Nycterinia selaginoides* β *glabrior* Benth. b; those in E and S are mixed with *Zaluzianskya benthamiana* Walp. (readily distinguished by its distinctly glandular pubescence and entire corolla lobes).

Zaluzianskya affinis ranges from northern Namaqualand to Lambert's Bay, Clanwilliam and Citrusdal.

***Zaluzianskya bella* Hilliard, species nova** a *Z. violacea* Schlechter caulibus pilis patentibus (nec retrorsis plus minusve appressis) et corollae tubo minute glanduloso (nec pilis tenuibus acutis ad 0.3–0.4mm longis) differt. A *Z. venusta* Hilliard bracteis pilis longis acutis tantum vestitis (nec pilis et glandulosis et eglandulosis), et floribus paulo minoribus corollae tubo 11–15mm longo (nec 15–26mm), et antheris posticis 1–1.4mm longis (nec 1.5–2mm) recedit.

Type: Cape, Sutherland div., 3220 CA, Houthoek, 14 viii 1968, *Hanekom* 1074 (holo. K; iso. PRE, STE).

Recorded from the Tanqua and Ceres Karoos to the Koedoesberg, Komsberg and Klein Roggeveld.

***Zaluzianskya cohabitans* Hilliard, species nova** a *Z. minima* (Hiern) Hilliard pilis caulinis retrorsis (nec patentibus), foliis basi caulis aggregatis et hic ramis orientibus (in *Z. minima*, plantis perparvis exceptis, par foliorum supra caulis basin ramos subtendit), bracteis lineari-lanceolatis vel oblongis (nec ovato-spatulatis), ore corollae tubi bene barbato (nec glabro nec pilis paucis praedito), staminibus 2 (nec 4) distinguenda.

Type: Cape, Calvinia div., 3119 BD, Hantam Mts, Akkerandam, 17 viii 1987, *Batten* 772 (holo. E, iso. K).

Ranges from the foot of the Hantam Mountains south to the Roggeveld.

***Zaluzianskya glandulosa* Hilliard, species nova** a *Z. divaricata* (Thunb.) Walp. indumento diverso distincta; pilis caulium plerumque patentibus glandulosis usque ad 0.4–0.5mm longis aliis paucis acutis patentibus usque ad 0.4–0.8mm longis intermixtis (nec pilis acutis plus minusve retrorsis ad 0.8mm longis); pilis foliorum bractearumque glandulosis similibus sed saepe longioribus ad 0.8mm (nec pilis acutis ad 1.6mm glandulis paucis minutis sessilibus intermixtis); etiam floribus *Z. glandulosae* minoribus (corollae tubo c.10mm longo, nec 18–20mm) et corollae lobis omnino luteis (nec linea media aurantiaca vel rubra notatis).

Type: Cape, Clanwilliam div., N Cedarberg, Pakhuis, 3000ft, 7 ix 1953, *Esterhuysen* 21737 (holo. BOL, iso. PRE).

Known only from the type collection.

***Zaluzianskya gracilis* Hilliard, species nova** a *Z. villosa* F. W. Schmidt floribus multo minoribus (tubo 6.5–10mm longo nec 14–23mm, limbo c.2–4mm diam. nec 10–14mm) et a *Z. parviflora* Hilliard caulibus dimidio inferiore foliatis (nec fere ad basin floriferis), et foliis bracteisque obtusioribus distinguenda.

Type: Cape, Riversdale div., 3421 AC, Wankoe, south of Riversdale, 400ft, 6 ix 1975, *Oliver* 5981 (holo. STE; iso. PRE).

Endemic to limestone areas in Bredasdorp and Riversdale divisions.

Zaluzianskya isanthera Hilliard, **species nova** a *Z. lanigera* Hilliard bracteis et calyce pilis acutis ad 1–1.8mm longis vestitis (nec albo-lanatis) et corollae lobis superne cremeis (nec aurantiaco-luteis) distincta.

Type: Cape, Ceres div., 3319 AB, Schurweberg (next to Bok Tafelberg), 3500ft, 12 x 1952, *Esterhuysen* 20636 (holo. BOL).

Known only from three collections made in the mountains north of Ceres.

Zaluzianskya kareebergensis Hilliard, **species nova** *Z. pedunculari* (Benth.) Walp. affinis sed caulibus omnino foliatis (nec parte superiore nudis) et floribus chasmogamis multo minoribus, corollae tubo c.9mm longo (nec 17–25mm), limbo c.3.5mm diam. (nec 5–10mm), antheris anticis 0.3–0.5mm longis (nec 0.4–1.4mm), antheris posticis 0.6–0.8mm longis (nec 0.6–1.8mm) differt.

Type: Cape, Van Rhynsdorp div., 3118 BA, Kareebergen, 1500ft, 20 vii 1896, *Schlechter* 8233 (holo. E, mixed with *Z. benthamiana* Walp.; iso. PRE, W, both mixed with *Z. pusilla* (Benth.) Walp.).

Known only from Kareebergen.

Zaluzianskya karrooica Hilliard **species nova** a *Z. crocea* Schlechter foliis bracteisque ellipticis vel ovato-ellipticis (nec manifeste spatulatis), bracteis infimis plerumque 3–6-plo longioribus quam latis (nec 2–3-plo), marginibus saepe integris vel obscure dentatis (nec semper manifeste dentatis), radiis areae circum orem stellatiformis luteae vel rubrae plus minusve ad medium unguem (nec vix ad basem unguis) attingentibus. A *Z. venusta* Hilliard corollae lobis obtusis vel retusis (nec manifeste bifidis) differt.

Type: Cape, Graaff Reinet div., Sneeuwbergen, 4000–5000 Fuss, Sept., *Drège* (holo. S; iso. E, K, TCD, distributed as *Nycterinia africana* Don b).

Widely distributed in the Karroid areas of the east central Cape, from Carnarvon and Beaufort West east to De Aar and Cradock; also recorded from the Orange Free State.

Zaluzianskya lanigera Hilliard, **species nova** nulli arcte affinis, sed statim recognoscenda calyce albo-lanato, bracteis dimidio inferiore albo-lanatis superne brevissime tantum pubescentibus, corolla in ore barbata, lobis rotundatis aurantiaco-flavis linea media intensius aurantiaca notatis.

Type: Cape, Ceres div., Karoo Poort, Doorn River, ix 1933, *Acock* 1648 (holo. S).

Known only from the type collection.

Zaluzianskya marlothii Hilliard, **species nova** a *Z. bella* Hilliard indumento duplice (e pilis brevibus et glandulosis et e glandulosis subter pilis aliis longis grossis composito) praecipue in dorsis bractearum et parte petiolarum foliorum (nec e pilis longis grossis

tantum, glandulosis absentibus), corollae lobis integris (nec profunde bifidis) et fortasse antheris longioribus (anticis 0.8mm longis, nec 0.4–0.7mm, posticis 1.5–1.6mm nec 1–1.4mm) differt. A *Z. minima* (Hiern) Hilliard floribus majoribus (corollae tubo 13–15mm, nec 4–8.5mm, lobis 3.8–4.5 × 2.8–4.5mm, nec 1–1.8 × 0.6–1mm), lobis late spatulatis integris (nec anguste oblongis apice expanso integris vel in eodem flore bifidis), corollae ore bene barbato (nec glabro vel pilis paucis ornato) distinguenda. Type: Cape, Sutherland div., 3220 AD, Uitkyk, Sneeuwkrans, 1700m, x 1920, *Marloth* 9903 (holo. STE).

Known only from the type collection and one other made by Marloth in the Roggeveld.

Zaluzianskya minima (Hiern) Hilliard, **comb. nov.**

Type: Cape, Calvinia div., Hantam, *Meyer* s.n. (n.v.).

Syn.: *Phyllopodium minimum* Hiern in Thiselton-Dyer, Fl. Cap. 4(2): 318 (1904).

Polycarena minima (Hiern) Levyns, J. S. Afr. Bot. 5: 37 (1939).

Ranges from the Hantam Mountains south to the Roggeveld and the mountains near Laingsburg.

Zaluzianskya mirabilis Hilliard, **species nova** a *Z. pumila* (Benth.) Walp. pilis caulium patentibus glandulosis (nec retrorsis eglandulosis), eis foliorum bractearumque pro maxima parte glandulosis (nec eglandulosis), ore corollae et partibus infimis loborum texturae tenuis glanduloso-puberulis pilis ad 0.1mm longis (nec texturae crassae parte distali loborum valde dissimilibus nec ore corollae annulo e pilis clavatis ad 0.4mm longis externe in glandulas minutas sessiles transeuntibus constante) differt.

Type: Cape, Sutherland div., 3220 CA, Houthoek, 14 viii 1968, *Hanekom* 1073 (holo. STE, iso. PRE).

Known only from Sutherland div.

Zaluzianskya parviflora Hilliard, **species nova** a *Z. villosa* F. W. Schmidt caulibus fere ad basin floriferis (nec inferne tantum foliiferis, superne floriferis), foliis bracteisque oblanceolatis acutis (nec oblanceolatis obtusis), floribus minoribus: corollae tubo 8–10mm longo (nec 14–23mm), limbo 2.5–3.6mm diam. (nec 10–14mm) distinguenda. A forma parviflora *Z. affinis* Hilliard caulibus fere ad basin floriferis (nec inferne foliiferis tantum, superne floriferis), et foliis bracteisque densius pilosis.

Type: Cape, Saldanha Bay, Hoetje's Bay, ix 1905, *H. Bolus* 12749 (holo. BOL, iso. PRE).

Known only from the environs of Saldanha Bay.

Zaluzianskya pilosissima Hilliard, **species nova** a *Z. villosa* F. W. Schmidt caulibus aphyllis vel fere aphyllis pilis plus minusve retrorsis usque ad 0.75–1mm longis (nec omnino foliatis pilis patentibus usque ad 1–1.5mm longis), bracteis plerumque brevioribus, maximis 7–16mm longis (nec 11–25mm), calyce plerumque brevior (5–

6.5mm, nec 6.5–9mm), et corollae tubo manifeste pubescente pilis acutis ad 0.4mm longis (nec minute glanduloso-puberulo) distinguitur.

Type: Cape, Fraserburg div., 3221 AB, 38 miles SW of Fraserburg, c.4300ft, 22 viii 1953, *Acocks* 16904 (holo. PRE).

Arid central Cape, mainly in Sutherland, Carnarvon and Fraserburg divisions.

Zaluzianskya sanorum Hilliard, **species nova** a *Z. affini* Hilliard caulibus glabris vel parce pubescentibus pilis ad 0.2mm longis plus minusve retrorsis (nec villosis pilis patentibus ad 0.4–2mm longis), pilis in marginibus bractearum ad 0.4–1mm longis (nec 1.5–3mm) et corollae tubo pilis glandulosis minus quam 0.1mm longis et aliis eglandulosis ad 0.2–0.25mm intermixtis (nec minute puberulo vel fere glabro) distincta.

Type: Cape, Little Namaqualand, 2917 DB, near Springbok, 25 viii 1941, *Esterhuysen* 5888 (holo. BOL).

Ranges from Goodhouse on the Orange River south to Kamieskroon, and from Steinkopf and Springbok east to Pofadder, roughly the area known as Little Bushmanland, home of the San, whence the epithet.

Zaluzianskya sutherlandica Hilliard, **species nova** *Z. pumilae* (Benth.) Walp. et *Z. inflatae* Diels ob indumentum circa corollae orem similis, sed a *Z. pumila* area stellata aurantiaca crassa circum orem absente, et a *Z. inflata* calyce minore (7–8mm longo, nec 12–17mm), corolla minore (tubo c.22mm longo, nec 29–35mm) et antheris majoribus (anticis 1.25mm longis, nec 0.4–0.8mm, posticis 2.5mm, nec 1.5–1.8mm) differt.

Type: Cape, Sutherland div., Kruis Rivier, 5400ft, ix 1926, *Levyans* 1661 (holo. BOL).

Known only from the type collection.

Zaluzianskya synaptica Hilliard, **species nova** a *Z. venusta* Hilliard caulibus pilis brevioribus (pilis acutis ad 0.8mm longis, nec 1–1.4mm, pilis glandulosis etiam brevioribus), corollae lobis superne albis (nec malvinis vel roseo-purpureis), radiis areae stellatae luteae/aurantiacae circum orem brevissimis vix ad lorum bases (nec ad medios lobos) attingentibus distinguenda.

Type: Cape, Willowmore div., 3323 AC, slopes east of Toorwater, 2500ft, 5 ix 1971, *Oliver* 3655 (holo. STE).

Recorded from the mountains south of Touws River and Worcester east to Graaff Reinet and Klipplaat north of Steytlerville.

Zaluzianskya tropicalis Hilliard, **sp. nov.** a *Z. glareosa* Hilliard & Burt corollae lobis in pagina superiore infra medium manifeste glandulosis (nec glabris) et parte caulis superiore foliis bracteis calyce pilis paucis vel multis glandulosis longis (ad 0.5–0.8mm) aliis longioribus eglandulosis intermixtis vestitis (nec pilis plerumque tantum eglandulosis, raro paucis glandulosis ad 0.2mm longis etiam praestantibus) distinguenda.

Type: Zimbabwe, Inyanga distr., summit of Mt Inyangani, 2500m, 7 iii 1981, *Philcox et al.* 8909 (holo. K, iso. E).

Highlands of Zimbabwe and neighbouring parts of Mozambique.

Zaluzianskya vallispiscis Hilliard, **species nova** a *Z. crocea* Schlechter spicis fructuum laxioribus, bracteis oblongo-lanceolatis circa 3–5-plo longioribus quam latis (nec infimis saltem spatulatis 2–3-plo longioribus quam latis), bracteis et corollae tubo pilis glandulosis ad 0.3–0.5mm longis (nec ad 0.2mm tantum) vestitis distinguenda.

Type: Cape, Albany div., 3326 BB, near Breakfast Vlei, 8 xi 1938, *Häfstrom & Acocks* 1251 (holo. S, iso. PRE).

Possibly confined to the valley of the Great Fish river.

Zaluzianskya venusta Hilliard, **species nova** a *Z. violacea* Schlechter caulibus pilis patentibus (nec retrorsis plus minusve appressis) et corollae tubo minute glanduloso (nec pilis gracilibus acutis ad 0.3–0.4mm longis vestito) distincta. A *Z. bella* Hilliard bracteis glanduloso-puberulis insuper pubescentibus pilis acutis longioribus (nec pilis omnibus acutis) et floribus aliquanto majoribus corollae tubo 15–26mm longo (nec 11–15mm), antheris posticis 1.5–2mm longis (nec 1–1.4mm) differt.

Type: Cape, Prince Albert div., 3221 DC, 3½ miles N of Prince Albert Road station, c. 2200ft, 18 ix 1953, *Acocks* 17103 (holo. PRE).

Northern and central Cape, from Upington and Kuruman south to the Little Karoo.

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