

## Plant species of the Sperrgebiet (Diamond Area 1)

Antje Burke<sup>1</sup> & Coleen Mannheimer<sup>2</sup>

<sup>1</sup>P.O. Box 90230, Klein Windhoek, Namibia, Tel: +264-61-223739, Fax: +264-61-227906,  
e-mail: antje.burke@enviro-science.info

<sup>2</sup>National Botanical Research Institute of Namibia, P/Bag 13184, Windhoek, Namibia,  
Tel: +264-61-2022012, email: manfam@iafrica.com.na

### Abstract

*Based on specimen records, published sources and own observations, an updated list of plant species is presented for the Sperrgebiet, the southwestern corner of Namibia. This area is in the transitional zone of winter and summer rainfall in Namibia and a remarkable 1038 species of flowering plants, 13 ferns and 22 mosses and their relatives occur. This comprises nearly 25% of the entire flora of vascular plants in Namibia and some 21% of the plant diversity of the Succulent Karoo Biome. We conclude that the Sperrgebiet is undoubtedly one of Namibia's prime plant diversity hotspots.*

### Zusammenfassung

*Wir stellen hier eine neue Liste von Pflanzen vor, die im Sperrgebiet, dem südwestlichen Teil Namibias vorkommen. Diese Liste basiert auf Herbariumbelegen, veröffentlichter Literatur und unseren eigenen Beobachtungen. Eine bemerkenswerte Vielfalt von Arten – 1038 Blütenpflanzen, 13 Farne und 22 Moose und verwandte Arten – kommen in diesem Übergangsgebiet von Sommer- und Winterregen vor. Das sind beinah 25% der gesamten Flora des Landes und machen das Sperrgebiet damit eindeutig zu einem Diversitätszentrum von Pflanzen in Namibia.*

**Keywords:** Mesembryanthemaceae, Namibia, species diversity, southern Namib, Succulent Karoo Biome

### Introduction

The Sperrgebiet (Diamond Area 1) comprises Namibia's section of the Succulent Karoo Biome (Rutherford 1997), a biodiversity hotspot of global significance (Myers *et al.* 2000). This northern-most tip of the Succulent Karoo Biome is postulated to be an area rich in plant species in Namibia (Maggs *et al.* 1998; Craven 2002). However, exactly how many species occur has been a matter of speculation for some time. In

1997, as part of a stratification of the area into floristic zones, Williamson published a species list with some 660 species of vascular plants (ferns and angiosperms).

Recognising the importance of the area, the National Botanical Research Institute of Namibia, in collaboration with various researchers, has since 1996 embarked on annual collecting trips during the main growing season (July–October), and systematically covered the area.

Not only has the collecting coverage been vastly improved since the publication of the earlier species list, but also many groups of taxa, most notably amongst the Mesembryanthemaceae, have since been substantially revised by a number of workers (e.g. Klak & Linder 1998; Hartmann 1998; 2002a and 2002b). Building onto Williamson's (1997) work, an updated species list is now badly needed. Recently there has also been increasing interest in the area by exploration and mining companies on one hand, and conservation initiatives on the other (e.g. Succulent Karoo Ecosystem Plan 2002). An updated record of the status quo regarding plant diversity hence provides a crucial baseline.

The aims of this paper are twofold:

- (1) to present an updated account of plant species diversity in the Sperrgebiet and
- (2) to provide, as far as possible, a traceable record of the changes since the previous publication (Williamson 1997).

## Methods

### Study area

The study area covers the restricted Diamond Area 1 (Sperrgebiet) in south-western Namibia, an area which is positioned in the winter-summer rain transitional zone in Namibia. The area is arid, with annual mean rainfall ranging between some 20 mm near the coast to just about 60 mm in the eastern sections. A variety of landscapes comprising coastal dunes, sand plains, mobile dunes, gravel plains and rocky outcrops, inselbergs (isolated mountains rising above the plains) and mountains provide diverse habitats for plants to take a foothold (Burke 2003). Fog is an important moisture source in the entire area, although its frequency abates along a coast-inland gradient (Olivier 1995). The constantly strong, prevailing southerly winds are another important climatic variable to be reckoned with.

The vegetation comprises largely low leaf-succulent shrubs, which in most areas reach about 30 cm in height. The stem-succulent *Euphorbia gummifera* is a dominant species in many parts of the area. The eastern sand and gravel plains also support grassland (Burke 2003).

## Data preparation

This species list is based on data from the Specimens Database of the Namibian National Botanical Research Institute (NBRI), the previous published species list (Williamson 1997), selected published literature (for those groups where major revisions were available) and own observations by the authors. For the purpose of this study the study area was defined based on quarter degree squares and included 41 quarter degree squares from 2615CA in the northwest to 2816BB in the southeast. Towards the east, the following quarter degree squares formed the boundary: 2615DB, 2616CC, 2716AB, 2716AD, DA and DC. These were included. We excluded the northern extension of the Sperrgebiet into the Namib sand sea and the quarter degree square of Aus.

A complete list of all species of vascular plants, ferns, mosses and liverworts was compiled based on the sources above. We then screened the list for obvious mistakes in the records and database, updated taxonomic changes and used relevant literature (e.g. Van Zyl 2000; Venter 2000; Germishuizen & Meyer 2003) to cross-check dubious records. However, no comprehensive literature search was undertaken. Species were eliminated from Williamson's list (1997), if there were (a) no specimens lodged at PRE (National Herbarium, National Botanical Institute, Pretoria, South Africa) or WIND (National Herbarium Namibia), (b) the species had not been observed by the authors and (c) closest distribution records from the literature and NBRI Specimens Database made it unlikely that this species would occur in the area. The nomenclature largely follows Germishuizen & Meyer (2003), the exception being where a different practise is followed by the National Herbarium of Namibia (e.g. for *Lavrania* and *Zygophyllum*, *Aloe dichotoma*, *Carissa haematocarpa* and *Pelargonium mirabile*). These follow Craven (1999) and later taxonomic revisions of several groups (e.g. Van Zyl 2000).

## Results and discussion

The following 33 species listed by Williamson (1997) were eliminated, as there were no geographically close records or herbarium specimens to be found: *Acanthopsis hoffmannseggiana*, *Argemone mexicana*, *Babiana torta*, *Bergia anagalloides*, *Bulbine frutescens*, *Chaetobromus dregeanus*, *Chlorophytum calyptrocarpum*, *Cleome monophylla*, *Commelina africana*, *Crassula atropurpurea* var. *watermeyeri*, *Diplachne fusca*, *Frankenia repens*, *Galenia hemisphaerica*, *Galenia sarcophylla*, *Helichrysum tinctum*, *Indigostrum burkeana*, *Kedrostis hirtella*, *Lachenalia zebrina*, *Lithops karasmontana*, *Lycium ferocissimum*, *Moquinella rubra*, *Oncosiphon piluliferum*, *Ornithogalum nanodes*, *Ornithogalum toxicarium*, *Ornithoglossum dinteri*, *Peliostomum virgatum*, *Polygala pygmaea*, *Salsola contrariifolia*, *Suaeda fruticosa*, *Tetragonia echinata*, *Tetragonia pillansii*, *Tetragonia sarcophylla* and *Tribulocarpus dimorphanthus*.

We have also excluded four species that are either of questionable taxonomic status at present (*Opophytum aquosum*) or that may occur in the area, but no voucher specimens were found (*Brownanthus ciliatus* subsp. *ciliatus*, *Putterlickia pyracantha* and *Tylecodon aridimontanus*).

The most common alien species recorded thus far are *Argemone ochroleuca*, *Datura inoxia*, *Datura stramonium*, *Eucalyptus camaldulensis*, *Nicotiana glauca*, *Prosopis* spp. and *Ricinus communis*. There are many more naturalised weedy, alien species, as indicated in Appendix 1. At present the majority of these only occur along the Orange River and near settlements.

In total, 1038 flowering plants, 13 ferns and 22 moss and liverwort species are now reported to occur in the Sperrgebiet. Compared to the previously recorded 660 vascular plants (angiosperms and ferns) this represents 391 new records, which is a nearly 60 percent increase from the previous list. Overall, the 1051 species represent 24.3 percent of the total flora of vascular plants in Namibia.

This constitutes 21.5 percent of the flowering plant diversity in the entire Succulent Karoo Biome based on Hilton-Taylor's (1996) estimate of total plant diversity in this biome. This is fair portion of the biome's plant diversity, considering that the Sperrgebiet land surface covers approximately 20 % of the Succulent Karoo Biome.

We conclude that the Sperrgebiet is a biodiversity hotspot unrivalled in Namibia, and also of great importance in the Succulent Karoo region.

Future collecting should particularly focus on taxa of doubtful status, such as the genus *Salsola* and geophytes, which are still poorly collected in many areas.

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**Appendix 1.** Plant species recorded in the Sperrgebiet (\* = alien). The species are organised phylogenetically according to the main phyla, subphyla and classes. Within these, families and species are organised alphabetically.

**Bryophyta and Hepatophyta (mosses and liverworts)**

Aytoniaceae

*Plagiochasma rupestre* (J.R. Forst. & G. Forst.) Steph. var. *rupestre*

Bryaceae

*Bryum argenteum* Hedw.

Fabroniaceae

*Ischyrodon lepturus* (Taylor) Schelpe

Fissidentaceae

*Fissidens rufescens* Hornsch.

Funariaceae

*Funaria* sp.

*Goniomitrium africanum* (Müll. Hal.) Broth.

Gigaspermaceae

*Chamaebryum pottoides* Thér. & Dixon

Grimmiaceae

*Grimmia laevigata* (Brid.) Brid.

*Grimmia pulvinata* (Hedw.) Sm.

*Leucoperichaetium eremophilum* Magill

Orthotrichaceae

*Orthotrichum diaphanum* (Schrad. ex Brid.) Lindb.

Pottiaceae

*Barbula* sp.

*Crossidium spiralifolium* Magill

*Pseudocrossidium crinitum* (Schultz) R.H. Zander

*Syntrichia chisosa* (Magill, Delgad. & L.R. Stark) R.H. Zander

*Syntrichia papillosa* (Wilson) Jur.

*Tortula atrovirens* (Sm.) Lindb.

*Tortula muralis* Hedw.

*Trichostomum brachydontium* Bruch.

*Weissia latiuscula* Müll. Hal.

Ricciaceae

*Riccia argenteolimbata* O.H. Volk & Perold

*Riccia cavernosa* Hoffm. emend. Raddi

**Pteridophyta (ferns)**

Aspleniaceae

*Asplenium cordatum* (Thunb.) Sw.

Azollaceae

*Azolla filiculoides* Lam.\*

Equisetaceae

*Equisetum ramosissimum* Desf. subsp. *ramosissimum*

Ophioglossaceae

*Ophioglossum polyphyllum* A.Braun

Pteridaceae

*Cheilanthes capensis* (Thunb.) Sw.

*Cheilanthes deltoidea* Kunze

*Cheilanthes hastata* (L.f.) Kunze

*Cheilanthes hirta* Sw.

*Cheilanthes kunzei* Mett.

*Cheilanthes namaquensis* (Baker) Schelpe & N.C.Anthony

*Cheilanthes rawsonii* (Pappe) Mett. ex Kuhn

*Cheilanthes robusta* (Kunze) R.M. Tyron

*Pellaea calomelanos* (Sw.) Link var. *calomelanos*

**Spermatophyta**

**Angiospermae (flowering plants)**

**Monocotyledonae**

Amaryllidaceae

*Ammocharis coranica* (Ker Gawl.) Herb.

*Ammocharis longifolia* (L.) M. Roem.

*Boophone disticha* (L.f.) Herb.

*Gethyllis namaquensis* (Schönland) Oberm.

*Haemanthus coccineus* L.

*Haemanthus namaquensis* R.A.Dyer

*Hessea speciosa* Snijman

*Namaquanula bruce-bayeri* D. Müll.-Doblies & U. Müll.-Doblies

*Strumaria bidentata* Schinz

*Strumaria phonolithica* Dinter

Anthericaceae

*Chlorophytum rangei* (Engl. & K.Krause) Nordal

*Chlorophytum viscosum* Kunth

Asparagaceae

*Asparagus asparagooides* (L.) Druce

*Asparagus capensis* L. var. *capensis*

*Asparagus denudatus* (Kunth) Baker

*Asparagus exuvialis* Burch. forma *exuvialis*

*Asparagus juniperoides* Engl.  
*Asparagus pearsonii* Kies  
*Asparagus retrofractus* L.  
*Asparagus undulatus* (L.f.) Thunb.

Asphodelaceae  
*Aloe dichotoma* Masson  
*Aloe erinacea* Hardy  
*Aloe gariepensis* Pillans  
*Aloe microstigma* Salm-Dyck subsp. *microstigma*  
*Aloe pachygaster* Dinter  
*Aloe pearsonii* Schönlund  
*Aloe pillansii* L.Guthrie  
*Aloe ramosissima* Pillans  
*Aloe striata* Haw. subsp. *karasbergensis* (Pillans) Glen & D.S. Hardy  
*Aloe variegata* L.  
*Bulbine caput-medusae* G. Will.  
*Bulbine francescae* G.Will.& Baijnath  
*Bulbine longifolia* Schinz  
*Bulbine namaensis* Schinz  
*Bulbine praemorsa* (Jacq.) Spreng.  
*Bulbine rhopalophylla* Dinter  
*Gasteria pillansii* Kensit var. *ernesti-ruschii* (Dinter & Poelln.) Van Jaarsv.  
*Haworthia venosa* (Lam.) Haw. subsp. *tesselata* (Hax.) M.B.Bayer  
*Trachyandra bulbifolia* (Dinter) Oberm.  
*Trachyandra ciliata* (L.f.) Kunth  
*Trachyandra falcata* (L.f.) Kunth  
*Trachyandra lanata* (Dinter) Oberm.  
*Trachyandra laxa* (N.E.Br.) Oberm. var. *laxa*  
*Trachyandra muricata* (L.f.) Kunth

Colchicaceae  
*Androcymbium exiguum* Roessler subsp. *exiguum*  
*Androcymbium circinatum* Baker  
*Hexacyrtis dickiana* Dinter  
*Ornithoglossum parviflorum* B.Nord. var. *parviflorum*  
*Ornithoglossum undulatum* Sweet  
*Ornithoglossum vulgare* B.Nord.

Cyperaceae  
*Bolboschoenus maritimus* (L.) Palla  
*Cyperus laevigatus* L.  
*Cyperus marginatus* Thunb.  
*Schoenoplectus scirpoideus* (Schrad.) J.Browning  
*Scirpoideus dioecus* (Kunth) J. Browning

Erioglossaceae  
*Erioglossum buchbergense* Dinter  
*Erioglossum halenbergense* Dinter  
*Erioglossum namaquanum* P.L.Perry

Hyacinthaceae

- Albuca exuvia* Baker  
*Albuca maxima* Burm.f.  
*Albuca namaquensis* Baker  
*Albuca setosa* Jacq.  
*Albuca viscosa* L.f.  
*Dipcadi brevifolium* (Thunb.) Fourc.  
*Dipcadi crispum* Baker  
*Dipcadi gracillimum* Baker  
*Dipcadi spirale* Baker  
*Drimea physodes* (Jacq.) Jessop  
*Lachenalia buchubergensis* Dinter  
*Lachenalia giessii* W.F.Barker  
*Lachenalia klinghardtiana* Dinter  
*Lachenalia namibiensis* W.F.Barker  
*Lachenalia nordenstamii* W.F.Barker  
*Lachenalia pearsonii* (P.E.Glover) W.F.Barker  
*Massonia sessiliflora* (Dinter) U. Müll.-Dobties & D. Müll.-Dobties  
*Neopatersonia falcata* G.J.Lewis  
*Ornithogalum geniculatum* Oberm.  
*Ornithogalum glandulosum* Oberm.  
*Ornithogalum hispidum* Hornem. subsp. *hispidum*  
*Ornithogalum flexuosum* (Thunb.) U. Müll.-Dobties & D. Müll.-Dobties  
*Ornithogalum prasinum* Lindl.  
*Ornithogalum puberulum* Oberm.  
*Ornithogalum stapfii* Schinz  
*Ornithogalum suaveolens* Jaqc.  
*Ornithogalum tubiforme* (Oberm.) Oberm.  
*Ornithogalum unifolium* Retz var. *unifolium*  
*Drimia namibensis* (Oberm.) J.C.Manning & Goldblatt  
*Drimia secunda* (B. Nord.) J.C.Manning & Goldblatt  
*Drimia intricata* (Baker) J.C.Manning & Goldblatt  
*Drimia filifolia* (Jacq.) J.C.Manning & Goldblatt  
*Drimia multifolia* (G.J.Lewis) Jessop  
*Whiteheadia biflora* (Jacq.) Baker  
*Whiteheadia etesianamibensis* U. Müll.-Dobties & D. Müll.-Dobties

Hypoxidaceae

- Spiloxene scullyi* (Baker) Garside

Iridaceae

- Babiana falcata* G.J.Lewis  
*Babiana longicollis* Dinter  
*Babiana namaquensis* Baker  
*Ferraria divaricata* Sweet subsp. *divaricata*  
*Ferraria schaeferi* Dinter  
*Freesia viridis* (Aiton) Goldblatt & J.C.Manning  
*Gladiolus orchidiflorus* Andrews  
*Gladiolus saccatus* (Klatt) Goldblatt & M.P.De Voss  
*Lapeirousia barklyi* Baker

- Lapeirousia dolomitica* Dinter subsp. *dolomitica*  
*Melasphaerula ramosa* (L.) N.E.Br.  
*Moraea namibensis* Goldblatt  
*Moraea rigidifolia* Goldblatt  
*Xenoscapa fistulosa* (Spreng. ex Klatt) Goldblatt & J.C.Manning
- Juncaceae  
*Juncus rigidus* Desf.
- Juncaginaceae  
*Triglochin striata* Ruiz & Pav.
- Najadaceae  
*Najas marina* L. subsp. *armata* (Lindb.f.) H.Horn
- Orchidaceae  
*Holothrix filicornis* Immelman & Schelpe
- Poaceae  
*Aristida adscensionis* L.  
*Aristida engleri* Mez var. *engleri*  
*Aristida engleri* Mez var. *ramossissima* De Winter  
*Aristida parvula* (Nees) De Winter  
*Bromus catharticus* Vahl \*  
*Bromus rubens* L. \*  
*Cenchrus ciliaris* L.  
*Centropodia glauca* (Nees) Cope  
*Chaetobromus involucratus* (Schrad.) Nees subsp. *sericeus* (Nees) Verboom  
*Cladoraphis cyperoides* (Thunb.) S.M.Phillips  
*Cladoraphis spinosa* (L.f.) S.M.Phillips  
*Cynodon dactylon* (L.) Pers.  
*Dregeochloa pumila* (Nees) Conert  
*Ehrharta calycina* Sm.  
*Ehrharta delicatula* (Nees) Stapf  
*Ehrharta longiflora* Sm.  
*Ehrharta pusilla* Nees ex Trin.  
*Ehrharta thunbergii* Gibbs Russ.  
*Ehrharta triandra* Nees ex Trin.  
*Enneapogon cenchroides* (Roem. & Schult.) C.E.Hubb.  
*Enneapogon desvauxii* P. Beauv.  
*Enneapogon scaber* Lehm.  
*Eragrostis brizantha* Nees  
*Eragrostis kingesii* De Winter  
*Eragrostis rotifer* Rendle  
*Fingerhuthia africana* Lehm.  
*Hemarthria altissima* (Poir.) Stapf & C.E.Hubb.  
*Karrochloa schismoides* (Stapf ex Conert) Conert & Tuerpe  
*Leucophysalis mesocoma* (Nees) Rendle  
*Merxmullera rangei* (Pilg.) Conert  
*Odyssea paucinervis* (Nees) Stapf  
*Pennisetum foermerianum* Leeke  
*Pentaschistis airoides* (Nees) Stapf subsp. *airoides*

*Phragmites australis* (Cav.) Steud.  
*Polypogon monspeliensis* (L.) Desf.  
*Polypogon viridis* (Gouan.) Breistr. \*  
*Schismus barbatus* (Loefl. ex L.) Thell.  
*Schmidtia kalahariensis* Stent  
*Spartina maritima* (Curtis) Fernald  
*Sporobolus virginicus* (L.) Kunth  
*Stipagrostis anomala* De Winter  
*Stipagrostis ciliata* (Desf.) De Winter var. *capensis* (Trin. & Rupr.) De Winter  
*Stipagrostis dregeana* Nees  
*Stipagrostis fastigiata* (Hack.) De Winter  
*Stipagrostis garubensis* (Pilg.) De Winter  
*Stipagrostis geminifolia* Nees  
*Stipagrostis gonostachys* (Pilg.) De Winter  
*Stipagrostis hermannii* (Mez) De Winter  
*Stipagrostis hirtigluma* (Trin. & Rupr.) De Winter subsp. *patula* (Hack.) De Winter  
*Stipagrostis lanipes* (Mez) De Winter  
*Stipagrostis lutescens* (Nees) De Winter var. *lutescens*  
*Stipagrostis lutescens* (Nees) De Winter var. *marlothii* (Hack.) De Winter  
*Stipagrostis namaquensis* (Nees) De Winter  
*Stipagrostis obtusa* (Delile) Nees  
*Stipagrostis sabulicola* (Pilg.) De Winter  
*Stipagrostis schaeferi* (Mez) De Winter  
*Stipagrostis subacaulis* (Nees) De Winter  
*Triraphis pumilio* R.Br.

Potamogetonaceae  
*Potamogeton pectinatus* L.

Ruppiaceae  
*Ruppia cirrhosa* (Petagna) Grande  
*Ruppia maritima* L.

Tecophilaceae  
*Cyanella ramosissima* (Engl. & K. Krause) Engl. & K. Krause

#### Dicotyledonae

Acanthaceae  
*Acanthopsis disperma* Nees  
*Barleria rigida* Nees  
*Blepharis furcata* (L.f.) Pers.  
*Blepharis mitrata* C.B.Clarke  
*Blepharis spinifex* Merxm.  
*Justicia cuneata* Vahl subsp. *hoerleiniana* (P.G.Mey.) Immelman  
*Monechma cleomoides* (S. Moore) C.B.Clarke  
*Monechma crassiusculum* P.G.Mey.  
*Monechma desertorum* (Engl.) C.B. Clarke  
*Monechma distichotrichum* (Lindau) P.G.Mey.  
*Monechma incanum* (Nees) C.B.Clarke  
*Monechma leucoderme* (Schinz) C.B.Clarke  
*Monechma mollissimum* (Nees) P.G.Mey.

Aizoaceae

- Aizoon schellenbergii* Adamson  
*Galenia africana* L.  
*Galenia crystallina* (Eckl. & Zeyh.) Fenzl var. *crystallina*  
*Galenia dregeana* Fenzl ex Sond.  
*Galenia fruticosa* (L.f.) Sond.  
*Galenia meziana* K. Müll.  
*Galenia papulosa* (Eckl. & Zeyh.) Sond.  
*Galenia pruinosa* Sond.  
*Galenia secunda* (L.f.) Sond.  
*Plinthus karoicus* I. Verd.  
*Sesuvium sesuvioides* (Fenzl) I. Verd.  
*Tetragonia arbuscula* Fenzl  
*Tetragonia calycina* Fenzl  
*Tetragonia decumbens* Mill.  
*Tetragonia microptera* Fenzl  
*Tetragonia reduplicata* Welw. ex Oliv.  
*Tetragonia schenkii* (Schinz) Engl.  
*Tetragonia verrucosa* Fenzl  
*Trianthema parvifolia* E.Mey. ex Sond. var. *parvifolia*  
*Trianthema triquetra* Rottler ex Willd. subsp. *triquetra* var. *triquetra*

Amaranthaceae

- Amaranthus thunbergii* Moq.  
*Calicrema capitata* (Moq.) Hook.f.  
*Calicrema squarrosa* (Schinz) Schinz  
*Hermbstaedtia glauca* (J.C. Wendl.) Rchb. ex Steud.  
*Sericocoma avolans* Fenzl  
*Sericocoma heterochiton* Lopr.

Anacardiaceae

- Ozoroa concolor* (C. Presl. ex Sond.) De Winter  
*Ozoroa crassinervia* (Engl.) R.Fern.& A.Fern.  
*Ozoroa dispar* (C. Presl.) R.Fern.& A.Fern.  
*Rhus burchellii* Sond.ex Engl.  
*Rhus lancea* L.f.  
*Rhus pendulina* Jacq.  
*Rhus populifolia* E.Mey. ex Sond.  
*Rhus problematodes* Merxm. & Roessler  
*Rhus undulata* Jacq.  
*Schinus molle* L.\*

Apiaceae

- Deverra denudata* (Viv.) Pfisterer & Podlech subsp. *aphylla* (Cham. & Schld.) Pfisterer & Podlech  
*Marlothiella gummifera* H.Wolff  
*Peucedanum upingtoniae* (Schinz) Drude  
*Polemanniopsis* sp. nov.

Apocynaceae

- Carissa haematocarpa* (Eckl.) A.DC.

*Cynanchum meyeri* (Decne) Schltr.  
*Ectadium latifolium* (Schinz) N.E.Br.  
*Ectadium virgatum* E. Mey.  
*Gomphocarpus filiformis* (E.Mey.) D.Dietr.  
*Gomphocarpus fruticosus* (L.) Aiton f.  
*Hoodia alstonii* (N.E.Br.) Plowes  
*Hoodia gordoni* (Masson) Sweet ex Decne  
*Hoodia officinalis* (N.E.Br.) Plowes subsp. *delaetiana* (Dinter) Bruyns  
*Huernia namaquensis* Pillans  
*Larryleachia marlothii* (N.E.Br.) Plowes  
*Larryleachia perlata* (Dinter) Plowes  
*Larryleachia picta* (N.E.Br.) Plowes  
*Microloba armatum* (Thunb.) Schltr. var. *armatum*  
*Microloba calycinum* E. Mey.  
*Microloba incanum* Decne  
*Microloba penicillatum* Schltr.  
*Orthanthera albida* Schinz  
*Pachypodium namaquanum* (Wyley ex Harv.) Welw.  
*Pergularia daemia* (Forssk.) Choiv. var. *leiocarpa* (K.Schum.) H.Huber  
*Piaranthus decorus* (Masson) N.E.Br. subsp. *cornutus* (N.E.Br.) Meve  
*Quaqua acutiloba* (N.E.Br.) Bruyns  
*Quaqua incarnata* (L.f.) Bruyns subsp. *hottentotorum* (N.E.Br.) Bruyns  
*Quaqua mammillaris* (L.) Bruyns  
*Rhyssolobium dumosum* E.Mey.  
*Sarcostemma viminale* (L.) R.Br. subsp. *viminale*  
*Stapelia gariepensis* Pillans  
*Stapelia similis* N.E.Br.  
*Stapeliopsis neronis* Pillans  
*Tridentea jucunda* (N.E.Br.) L.C.Leach  
*Tridentea pachyrrhiza* (Dinter) L.C.Leach  
*Tromotriche aperta* (Masson) Bruyns  
*Tromotriche longipes* (C.A.Lückh.) Bruyns  
*Tromotriche ruschiana* (Dinter) Bruyns

Asteraceae

*Amellus flosculosus* DC.  
*Amellus nanus* DC.  
*Amphiglossa thuja* (Merxm.) Koekemoer  
*Amphiglossa tomentosa* (Thunb.) Harv.  
*Arctotis fastuosa* Jacq.  
*Arctotis frutescens* Norl.  
*Berkheya canescens* DC.  
*Berkheya chamaepeuce* (S.Moore) Roessler  
*Berkheya ferox* O.Hoffm.  
*Berkheya schinzii* O.Hoffm.  
*Berkheya spinosissima* (Thunb.) Willd. subsp. *spinosa*  
*Chrysanthemoides incana* (Burm.f.) Norl.  
*Chrysocoma ciliata* L.  
*Chrysocoma puberula* Merxm.  
*Conyzza scabrida* DC.  
*Cotula anthemoides* L.  
*Cotula coronopifolia* L.

- Cotula tenella* E.Mey. ex DC.  
*Dicoma capensis* Less.  
*Dicoma nachtigallii* O.Hoffm.  
*Didelta carnosa* (L.f.) Aiton var. *carnosa*  
*Didelta carnosa* (L.f.) Aiton var. *tomentosa* (Less.) Roessler  
*Didelta spinosa* (L.f.) Aiton  
*Dimorphotheca pluvialis* (L.) Moench  
*Dimorphotheca polyptera* DC.  
*Dimorphotheca sinuata* DC.  
*Eremothamnus marlothianus* O.Hoffm.  
*Eriocephalus ambiguus* (DC.) M.A.N. Müller  
*Eriocephalus dinteri* S.Moore  
*Eriocephalus ericooides* (L.f.) Druce subsp. *ericooides*  
*Eriocephalus giessii* M.A.N.Müller  
*Eriocephalus kingesii* Merxm. & Eberle  
*Eriocephalus klinghardtensis* M.A.N. Müller  
*Eriocephalus merxmulleri* M.A.N. Müller  
*Eriocephalus pauperimus* Merxm. & Eberle  
*Eriocephalus scariosus* DC.  
*Euryops lateriflorus* (L.f.) DC.  
*Euryops mucosus* B.Nord.  
*Euryops multifidus* (Thunb.) DC.  
*Euryops namaquensis* Schltr.  
*Euryops namibensis* (Merxm.) B.Nord.  
*Euryops subcarnosus* DC subsp. *subcarnosus*  
*Felicia filifolia* (Vent.) Burtt Davy subsp. *schaeferi* (Dinter) Grau  
*Felicia hirsuta* DC.  
*Felicia microperma* DC.  
*Felicia namaquana* (Harv.) Merxm.  
*Foveolina dichotoma* (DC.) Kallersjö  
*Garuleum schinzii* O.Hoffm. subsp. *schinzii*  
*Gazania jurineifolia* DC. subsp. *scabra* (DC.) Roessler  
*Gazania lichensteinii* Less.  
*Gazania schenckii* O.Hoffm.  
*Gazania tenuifolia* Less.  
*Geigeria vigintisquamata* O.Hoffm.  
*Gnaphalium confine* Harv.  
*Gnaphalium polycaulon* Pers.\*  
*Gorteria corymbosa* DC.  
*Gorteria diffusa* Thunb. subsp. *parviflora* Roessler  
*Helichrysum alsinoides* DC.  
*Helichrysum argyrosphaerum* DC.  
*Helichrysum gariepinum* DC.  
*Helichrysum leontonyx* DC.  
*Helichrysum micropoides* DC.  
*Helichrysum obtusum* (S. Moore) Moeser  
*Helichrysum revolutum* (Thunb.) Less.  
*Helichrysum tomentosulum* (Klatt) Merxm. subsp. *tomentosulum*  
*Hippicium echinus* Less.  
*Ifloga molluginoides* (DC.) Hilliard  
*Kleinia cephalophora* Compton  
*Kleinia longiflora* DC.

- Laggera decurrens* (Vahl) Hepper & J.R.I.Wood  
*Lasiopogon glomerulatus* (Harv.) Hilliard  
*Lasiopogon micropoides* DC.  
*Lasiopogon ponticulus* Hilliard  
*Lasiopogon volkii* (B.Nord.) Hilliard  
*Lasiospermum brachyglossum* DC.  
*Leysera tenella* DC.  
*Litogyne gariepina* (DC.) Anderb.  
*Lopholaena cneorifolia* (DC.) S.Moore  
*Myxopappus acutilobus* (DC.) Källersjö  
*Nidorella resedifolia* DC. subsp. *resedifolia*  
*Nolletia gariepina* (DC.) Mattf.  
*Oncosiphon grandiflorum* (Thunb.) Källersjö  
*Oncosiphon suffruticosum* (L.) Källersjö  
*Osteospermum armatum* Norl.  
*Osteospermum karoicum* (Bolus) Norl.  
*Osteospermum pinnatum* (Thunb.) Norl.  
*Osteospermum spinescens* Thunb.  
*Othonna arbuscula* (Thunb.) Sch.Bip.  
*Othonna clavifolia* Marloth  
*Othonna cylindrica* (Lam.) DC.  
*Othonna filicaulis* Jacq.  
*Othonna furcata* (Lindl.) Druce  
*Othonna graveolens* O.Hoffm.  
*Othonna lasiocarpa* (DC.) Sch.Bip.  
*Othonna opima* Merxm.  
*Othonna protecta* Dinter  
*Othonna sedifolia* DC.  
*Othonna sparsiflora* (S.Moore) B.Nord.  
*Pegolettia gariepina* Anderb.  
*Pegolettia oxyodonta* DC.  
*Pegolettia plumosa* M.D.Hend.  
*Pegolettia retrofracta* (Thunb.) Kies  
*Pentatrichia petrosa* Klatt  
*Pentzia incana* (Thunb.) Kuntze  
*Pentzia monocephala* S.Moore  
*Pentzia pinnatisecta* Hutch.  
*Pentzia spinescens* Less.  
*Pseudognaphalium luteo-album* (L.) Hilliard & B.L.Burtt  
*Pteronia acuta* Muschl.  
*Pteronia anisata* B.Nord.  
*Pteronia ciliata* Thunb.  
*Pteronia cylindracea* DC.  
*Pteronia divaricata* (P.J.Bergius) Less  
*Pteronia glabrata* L.f.  
*Pteronia glauca* Thunb.  
*Pteronia lucilioides* DC.  
*Pteronia mucronata* DC.  
*Pteronia onobromoides* DC.  
*Pteronia paniculata* Thunb.  
*Pteronia pomonae* Merxm.  
*Pteronia rangei* Muschl.

*Pteronia spinulosa* E.Phillips  
*Pteronia unguiculata* S.Moore  
*Pulicaria scabra* (Thunb.) Druce  
*Senecio acaulis* (L.f.) Sch.Bip.  
*Senecio aloides* DC.  
*Senecio apifolius* (DC.) Benth.& Hook.f. ex O.Hoffm.  
*Senecio arenarius* Thunb.  
*Senecio bulbifolius* DC.  
*Senecio cakilefolius* DC.  
*Senecio consanguineus* DC.  
*Senecio eenii* (S.Moore) Merxm.  
*Senecio flavus* (Decne) Sch.Bip.  
*Senecio giessii* Merxm.  
*Senecio maydae* Merxm.  
*Senecio piptocoma* O.Hoffm.  
*Senecio pinguifolius* (DC.) Sch.Bip.  
*Senecio radicans* (L.f.) Sch.Bip.  
*Senecio sarcoides* C.Jeffrey  
*Senecio sisymbriifolius* DC.  
*Sonchus oleraceus* L.\*  
*Tripteris breviradiata* (Norl.) B.Nord.  
*Tripteris clandestina* Less.  
*Tripteris crassifolia* O.Hoffm.  
*Tripteris microcarpa* (Harv.) subsp. *microcarpa*  
*Tripteris oppositifolia* (Aiton) B.Nord.  
*Tripteris polycephala* DC.  
*Tripteris sinuata* (DC.) var. *sinuata*  
*Troglophyton capillaceum* (Thunb.) Hilliard & B.L.Burtt subsp. *capillaceum*  
*Troglophyton parvulum* (Harv.) Hilliard & B.L.Burtt  
*Ursinia anthemoides* (L.) Poir. subsp. *versicolor* (DC.) Prassler  
*Ursinia frutescens* Dinter  
*Ursinia nana* DC. subsp. *nana*  
*Ursinia speciosa* DC.  
*Verbesina encelioides* (Cav.) Benth. & Hook. var. *encelioides* \*

Bignoniaceae  
*Rhigozum trichotomum* Burch.

Boraginaceae  
*Codon royenii* L.  
*Ehretia alba* Retief & A.E. van Wyk  
*Heliotropium ciliatum* Kaplan  
*Heliotropium curassavicum* L.\*  
*Heliotropium hereroense* Schinz  
*Heliotropium ovalifolium* Forssk.  
*Heliotropium tubulosum* E.Mey. ex A.DC.  
*Trichodesma africanum* (L.) Lehm.  
*Wellstedia dinteri* Pilg.

Brassicaceae

- Coronopus integrifolius* (DC.) Spreng.  
*Heliphila carnosa* (Thunb.) Steud.  
*Heliphila cornuta* Sond. var. *cornuta*  
*Heliphila crithmifolia* Willd.  
*Heliphila deserticola* Schltr. var. *deserticola*  
*Heliphila eximia* Marais  
*Heliphila lactea* Schltr.  
*Heliphila thunbergii* (Eckl. & Zeyh.) Steud. var. *macrostylis* (E.Mey. ex Sond.) B.Nord.  
*Heliphila obibensis* Marais  
*Heliphila trifurca* Burch. ex DC.  
*Lepidium africanum* (Burm.f.) DC. subsp. *divaricatum* (Aiton) Jonsell  
*Lepidium desertorum* Eckl. & Zeyh.

Buddlejaceae

- Gomphostigma virgatum* (L.f.) Baill.

Burseraceae

- Commiphora capensis* (Sond.) Engl.  
*Commiphora namaensis* Schinz

Campanulaceae

- Wahlenbergia androsacea* A.DC.  
*Wahlenbergia annularis* A.DC.  
*Wahlenbergia denticulata* (Burch.) A.DC. var. *denticulata*  
*Wahlenbergia erophilooides* Markgr.  
*Wahlenbergia oxyphylla* A.DC.  
*Wahlenbergia patula* A.DC.  
*Wahlenbergia subrosulata* Brehmer  
*Wahlenbergia subumbellata* Markgr.  
*Wahlenbergia thunbergiana* (H.Buek) Lammers

Capparaceae

- Boscia albitrunca* (Burch.) Gilg & Gilg-Ben.  
*Boscia foetida* Schinz subsp. *foetida*  
*Cadaba aphylla* (Thunb.) Wild  
*Capparis hereroensis* Schinz  
*Cleome angustifolia* Forssk. subsp. *diandra* (Burch.) Kers  
*Cleome foliosa* Hook. f. var. *lutea* (Sond.) Codd & Kers  
*Cleome paxii* (Schinz) Gilg. & Gilg-Ben.  
*Cleome suffruticosa* Schinz  
*Maerua gilgii* Schinz  
*Maerua schinzii* Pax

Caryophyllaceae

- Dianthus namaensis* Schinz var. *namaensis*  
*Pollichia campestris* Aiton  
*Silene burchellii* Otth. var. *burchellii*  
*Spergularia media* (L.) C.Presl. ex Griseb.\*

Celastraceae

*Gymnosporia linearis* (L.f.) Loes. subsp. *lanceolata* (E.Mey. ex Sond.) M.Jordaan  
*Gymnosporia syszlowieczii* (Kuntze) M.Jordaan subsp. *namibensis* M.Jordaan

Chenopodiaceae

*Atriplex cinerea* Poir. subsp. *bolusii* (C.H.Wright) Aellen  
*Atriplex semibaccata* R.Br. var. *typica* Aellen  
*Atriplex suberecta* I.Verdi  
*Atriplex vestita* (Thunb.) Aellen var. *appendiculata* Aellen  
*Bassia diffusa* (Thunb.) Kuntze  
*Bassia dinteri* (Botsch.) A.J.Scott  
*Chenopodium album* L.\*  
*Chenopodium ambrosioides* L.\*  
*Chenopodium botryodes* Sm.\*  
*Chenopodium mucronatum* Thunb.  
*Chenopodium murale* L. var. *murale*\*  
*Chenopodium pumilio* R.Br.\*  
*Manochlamys albicans* (Aiton) Aellen  
*Salicornia uniflora* Tölken  
*Salsola aphylla* L.f.  
*Salsola araneosa* Botsch.  
*Salsola arborea* C.A.Sm. ex Aellen  
*Salsola armata* C.S.Sm. ex Aellen  
*Salsola barbata* Aellen  
*Salsola cryptoptera* Aellen  
*Salsola dinteri* Botsch.  
*Salsola dolichostigma* Botsch.  
*Salsola gemmifera* Botsch.  
*Salsola kali* L.  
*Salsola luederitzensis* Botsch.  
*Salsola merxmulleri* Aellen  
*Salsola namibica* Botsch.  
*Salsola nollothensis* Aellen  
*Salsola procera* Botsch.  
*Salsola robinsonii* Botsch.  
*Salsola ruschii* Aellen  
*Salsola schreiberae* Botsch.  
*Salsola zeyheri* (Moq.) Bunge  
*Sarcocornia natalensis* (Bung.ex Ung.-Sternb.) A.J.Scott var. *affinis* (Moss)  
O'Callaghan  
*Sarcocornia perennis* (Mill.) A.J.Scott var. *lignosa* (Woods) O'Callaghan  
*Sarcocornia pillansii* (Moss) A.J.Scott var. *dunensis* (Moss) O'Callaghan  
*Suaeda inflata* Aellen  
*Suaeda merxmulleri* Aellen  
*Suaeda plumosa* Aellen

Crassulaceae

*Adromischus alstonii* (Schönland & Baker f.) C.A.Sm.  
*Adromischus filicaulis* (Eckl. & Zeyh.) C.A.Sm. subsp. *filicaulis*  
*Adromischus marianiae* (Marloth) A.Berger var. *kubusensis* (Uitewaal) Tölken  
*Adromischus montium-klinghardtii* (Dinter) A.Berger  
*Adromischus schuldtianus* (Poelln) Poelln subsp. *schuldtianus*

- Cotyledon orbiculata* L. var. *orbiculata*  
*Crassula atropurpurea* (Haw.) D.Dietr. var. *culturiformis* (Friedrich) Tölken  
*Crassula aurusbergensis* G.Will.  
*Crassula ausensis* Hutchison subsp. *ausensis*  
*Crassula brevifolia* Harv. subsp. *brevifolia*  
*Crassula campestris* (Eckl. & Zeyh.) Endl. ex Walp.  
*Crassula capitella* Thunb. subsp. *thyrsiflora* (Thunb.) Tölken  
*Crassula columnaris* Thunb. subsp. *prolifera* Friedrich  
*Crassula corallina* Thunb. subsp. *corallina*  
*Crassula cotyledonis* Thunb.  
*Crassula deceptor* Schönland & Baker f.  
*Crassula deltoidea* Thunb.  
*Crassula elegans* Schönland & Baker f. subsp. *elegans*  
*Crassula elegans* Schoenl. & Baker f. subsp. *namibensis* (Friedrich) Tölken  
*Crassula expansa* Dryand. subsp. *pyrifolia* (Compton) Tölken  
*Crassula fusca* Herre  
*Crassula garibina* Marloth & Schönland subsp. *garibina*  
*Crassula luederitzii* Schönland  
*Crassula macowaniana* Schönland & Baker f.  
*Crassula mesembrianthemopsis* Dinter  
*Crassula muscosa* L. var. *muscosa*  
*Crassula muscosa* L. var. *obtusifolia* (Harv.) G.D.Rowley  
*Crassula nemorosa* (Eckl. & Zeyh.) Endl. ex Walp.  
*Crassula nummularia* Friedrich  
*Crassula ob lanceolata* Schönland & Baker f.  
*Crassula plegmatoides* Friedrich  
*Crassula pseudohemisphaerica* Friedrich  
*Crassula rupestris* Thunb. subsp. *commutata* (Friedrich) Tölken  
*Crassula sericea* Schönland var. *hottentotta* (Marloth & Schönland) Tölken  
*Crassula sericea* Schönland var. *sericea*  
*Crassula sericea* Schönland var. *velutina* (Friedrich) Tölken  
*Crassula sladenii* Schönland  
*Crassula subacaulis* Schönland & Baker f. subsp. *erosula* (N.E.Br.) Tölken  
*Crassula subaphylla* (Eckl.& Zeyh.) Harv. var. *subaphylla*  
*Crassula tenuipedicellata* Schönland & Baker f.  
*Crassula tomentosa* Thunb. var. *glabrifolia* (Harv.) G.D. Rowley  
*Crassula tomentosa* Thunb. var. *tomentosa*  
*Kalanchoe brachyloba* Welw. ex Britten  
*Tylecodon aurusbergensis* G.Will. & Van Jaarsv.  
*Tylecodon buchholzianus* (Schuldt & P. Stephan) Tölken  
*Tylecodon hallii* Tölken  
*Tylecodon paniculatus* (L.f.) Tölken  
*Tylecodon racemosus* (Harv.) Tölken  
*Tylecodon reticulatus* (L.f.) Tölken subsp. *phyllodium* Tölken  
*Tylecodon rubrovenosus* (Dinter) Tölken  
*Tylecodon schaeferianus* (Dinter) Tölken  
*Tylecodon similis* (Tölken) Tölken  
*Tylecodon wallichii* (Harv.) Tölken subsp. *ecklonianus* (Harv.) Tölken

Cucurbitaceae

- Acanthosicyos horridus* Welw. ex Hook.f.  
*Citrullus ecirrhosus* Cogn.

*Citrullus lanatus* (Thunb.) Matsum. & Nakai  
*Corallocarpus dissectus* Cogn.  
*Corallocarpus schinzii* Cogn.  
*Cucumis africanus* L.f.  
*Cucumis rigidus* E. Mey. ex Sond.  
*Kedrostis capensis* (Sond.) A.Meeuse  
*Momordica balsamina* L.

Ebenaceae

*Diospyros lycioides* Desf. subsp. *lycioides*  
*Diospyros ramulosa* (E.Mey. ex A.DC.) De Winter  
*Euclea asperrima* Friedr.-Holzh.  
*Euclea pseudoebenus* E.Mey. ex A.DC.  
*Euclea undulata* Thunb.

Euphorbiaceae

*Euphorbia angrae* N.E.Br.  
*Euphorbia brachiata* E.Mey.ex Boiss.  
*Euphorbia burmannii* E.Mey.ex Boiss.  
*Euphorbia chersina* N.E.Br.  
*Euphorbia cibdela* N.E.Br.  
*Euphorbia decussata* E. Mey. ex Boiss.  
*Euphorbia dregeana* E.Mey. ex Boiss.  
*Euphorbia ephedroides* E.Mey. ex Boiss. var. *ephedroides*  
*Euphorbia ephroides* E. Mey. ex Boiss. var. *iminuta* L.C. Leach & G.Will.  
*Euphorbia gariepina* Boiss. subsp. *gariepina*  
*Euphorbia gregaria* Marloth  
*Euphorbia guerichiana* Pax  
*Euphorbia gummiifera* Boiss.  
*Euphorbia hamata* (Haw.) Sweet  
*Euphorbia herrei* A.C.White, R.A.Dyer & B.Sloane  
*Euphorbia inaequilatera* Sond. var. *inaequilatera*  
*Euphorbia juttae* Dinter  
*Euphorbia lignosa* Marloth  
*Euphorbia mauritanica* L. var *mauritanica*  
*Euphorbia mauritanica* L. var. *corallothamnus* (Dinter) A.C.White, R.A.Dyer & B.Sloane  
*Euphorbia mauritanica* L. var. *namaquensis* N.E.Br.  
*Euphorbia mauritanica* L. var. *foetens* A.C.White, R.A.Dyer & B.Sloane  
*Euphorbia melanohydrata* Nel  
*Euphorbia namibensis* Marloth  
*Euphorbia phylloclada* Boiss.  
*Euphorbia spinea* N.E.Br.  
*Euphorbia stapelioides* Boiss.  
*Euphorbia verruculosa* N.E.Br.  
*Euphorbia virosa* Willd. subsp. *virosa*  
*Jatropha orangeana* Dinter ex P.G. Mey.  
*Ricinus communis* L. var. *communis* \*

Fabaceae

*Acacia erioloba* E.Mey.  
*Acacia karroo* Hayne  
*Acacia mellifera* (Vahl) Benth.subsp. *detinens* (Burch.) Brenan

*Adenolobus garipensis* (E.Mey.) Torre & Hill.  
*Crotalaria colorata* Schinz subsp. *erecta* (Schinz) Polhill  
*Crotalaria meyeriana* Steud.  
*Cullen tomentosum* (Thunb.) J.W. Grimes  
*Indigastrum argyraeum* (Eckl. & Zeyh.) Schrire  
*Indigastrum argyroides* (E.Mey) Schrire  
*Indigastrum candissimum* (Dinter) Schrire  
*Indigofera acanthoclada* Dinter  
*Indigofera adenocarpa* E.Mey.  
*Indigofera alternans* DC. var. *alternans*  
*Indigofera auricoma* E.Mey.  
*Indigofera merxmulleri* A.Schreib.  
*Indigofera nudicaulis* E.Mey.  
*Indigofera pungens* E.Mey.  
*Lebeckia acanthoclada* Dinter  
*Lebeckia cinerea* E.Mey.  
*Lebeckia dinteri* Harms  
*Lebeckia halenbergensis* Merxm. & A.Schreib.  
*Lebeckia linearifolia* E.Mey.  
*Lebeckia multiflora* E.Mey.  
*Lebeckia spinescens* Harv.  
*Lessertia acanthorachis* (Dinter) Dinter  
*Lessertia benguellensis* Baker f.  
*Lessertia candida* E.Mey.  
*Lessertia cryptantha* Dinter  
*Lessertia eremicola* Dinter  
*Lessertia falciformis* DC.  
*Lessertia incana* Schinz  
*Lessertia macrostachya* DC. var. *macrostachya*  
*Lotononis falcata* (E.Mey.) Benth.  
*Lotononis maculata* Dummer  
*Lotononis pachycarpa* Dinter ex B.-E. van Wyk  
*Lotononis platycarpa* (Viv.) Pic.Serm.  
*Lotononis rabenaviana* Dinter & Harms  
*Lotononis strigillosa* (Merxm.& A.Schreib.) A.Schreib.  
*Melolobium candicans* (E.Mey.) Eckl.& Zeyh.  
*Melolobium microphyllum* (L.f.) Eckl. & Zeyh.  
*Parkinsonia africana* Sond.  
*Prosopis glandulosa* Torr. var. *glandulosa*\*  
*Ptycholobium biflorum* (E. Mey.) Brummit subsp. *biflorum*  
*Schotia afra* (L.) Bodin Thunb. var. *angustifolia* (E.Mey.) Harv.  
*Sesbania pachycarpa* DC. c.f. subsp. *dinterana* G.B. Gillett  
*Sutherlandia frutescens* (L.) R.Br.  
*Tephrosia dregeana* E. Mey. var. *dregeana*  
*Trigonella hamosa* L.\*

Frankeniaceae

*Frankenia pomonensis* Pohnert  
*Frankenia pulverulenta* L.

Fumariaceae

*Cysticapnos vesicaria* (L.) Fedde

Gentianaceae

*Sebaea pentandra* E.Mey. var. *burchellii* (Gilg) Marais

Geraniaceae

*Monsonia deserticola* Dinter ex R.Knuth

*Monsonia drudeana* Schinz

*Monsonia ignorata* Merxm. & A.Schreib.

*Monsonia parvifolia* Schinz

*Monsonia umbellata* Harv.

*Pelargonium antidysertericum* (Eckl.& Zeyh.) Kostel L'Her. subsp. *antidysertericum*

*Pelargonium carnosum* (L.) L'Her.

*Pelargonium ceratophyllum* L'Her.

*Pelargonium cortusifolium* L'Her.

*Pelargonium crassicaule* L'Her.

*Pelargonium crithmifolium* Sm.

*Pelargonium desertorum* Vorster

*Pelargonium grandicalcaratum* R.Knuth

*Pelargonium klinghardtense* R.Knuth

*Pelargonium minimum* (Cav.) Willd.

*Pelargonium mirabile* Dinter

*Pelargonium paniculatum* Jacq.

*Pelargonium redactum* Vorster

*Pelargonium sibthorpiiifolium* Harv.

*Pelargonium spinosum* Willd.

*Pelargonium tenuicaule* R.Knuth

*Pelargonium xerophyton* Schltr. ex R.Knuth

*Sarcocaulon crassicaule* Rehm

*Sarcocaulon flavescent* Rehm

*Sarcocaulon inerme* Rehm

*Sarcocaulon multifidum* E.Mey. ex R.Knuth

*Sarcocaulon patersonii* (DC.) G.Don

*Sarcocaulon peniculinum* Moffett

*Sarcocaulon salmoniflorum* Moffett

Gisekiaceae

*Gisekia africana* (Lour.) Kuntze var. *africana*

*Gisekia pharnacioides* L. var. *pharnacioides*

Hydnoraceae

*Hydnora africana* Thunb.

*Hydnora triceps* Drege & E.Mey.

Lamiaceae

*Acrotome pallescens* Benth.

*Ballota africana* (L.) Benth.

*Leucas glabrata* (Vahl) Sm. var. *glabrata*

*Salvia garipensis* E.Mey.ex Benth.

*Salvia verbenaca* L.

*Stachys burchelliana* Launert

*Stachys rugosa* Aiton

*Tetradenia riparia* (Hochst.) Codd

Loasaceae  
*Kissenia capensis* Endl.

Lobeliaceae  
*Cypnia dentariifolia* C.Presl. var. *dentariifolia*

Loranthaceae  
*Plicosepalus kalahariensis* (Schinz) Danser  
*Plicosepalus undulatus* (E.Mey. ex Harv.) Tiegh.  
*Septulina glauca* (Thunb.) Tiegh.  
*Septulina ovalis* (E.Mey. ex Harv.) Tiegh.  
*Tapinanthus oleifolius* (J.C.Wendl.) Danser

Lythraceae  
*Nesaea luederitzii* Koehne var. *luederitzii*

Malvaceae  
*Malva parviflora* L. var. *parviflora* \*  
*Radyera urens* (L.f.) Bullock

Meliaceae  
*Nymania capensis* (Thunb.) Lindb.

Melianthaceae  
*Melianthus comosus* Vahl  
*Melianthus pectinatus* Harv. subsp. *gariepinus* (Merxm.& Roessler) S.A.Tansley

Menispermaceae  
*Antizoma angustifolia* (Burch.) Miers ex Harv.  
*Antizoma miersiana* Harv.  
*Cissampelos capensis* L.f.

Mesembryanthemaceae  
*Amphibolia obscura* H.E.K.Hartmann  
*Amphibolia rupis-arcuatae* (Dinter) H.E.K.Hartmann  
*Amphipolia saginata* (L. Bolus) H.E.K.Hartmann  
*Antimima aurasensis* H.E.K.Hartmann  
*Antimima buchbergensis* (Dinter) H.E.K.Hartmann  
*Antimima dolomitica* (Dinter) H.E.K.Hartmann  
*Antimima modesta* (L.Bolus) H.E.K.Hartmann  
*Antimima perforata* (L.Bolus) H.E.K.Hartmann  
*Antimima quarzitica* (Dinter) H.E.K.Hartmann  
*Aptenia geniculiflora* (L.) Bittrich ex Gerbaulet  
*Aridaria brevicarpa* L.Bolus  
*Aridaria noctiflora* (L.) Schwantes subsp. *noctiflora*  
*Aridaria noctiflora* (L.) Schwantes subsp. *straminea* (Haw.) Gerbaulet  
*Aridaria serotina* L.Bolus  
*Astridia citrina* (L.Bolus) L.Bolus  
*Astridia hallii* L. Bolus  
*Astridia velutina* Dinter  
*Brownanthus arenosus* (Schinz) Ihlenf.& Bittrich

- Brownanthus schenckii* (Schinz) Schwantes  
*Brownanthus marlothii* (Pax) Schwantes  
*Brownanthus namibensis* (Marloth) Bullock  
*Brownanthus neglectus* S.M.Pierce & Gerbaulet  
*Brownanthus nucifer* (Ihlenf.& Bittrich) S.M.Pierce & Gerbaulet  
*Brownanthus pseudoschlichtianus* S.M.Pierce & Gerbaulet  
*Brownanthus pubescens* (N.E.Br.ex C.A.Maass) Bullock  
*Cephalophyllum compressum* L. Bolus  
*Cephalophyllum confusum* (Dinter) Dinter & Schwantes  
*Cephalophyllum ebracteatum* (Schltr.& Diels) Dinter & Schwantes  
*Cephalophyllum herrei* L.Bolus  
*Cheiridopsis brownii* Schick & Tischer  
*Cheiridopsis caroli-schmidtii* (Dinter & A.Berger) N.E.Br.  
*Cheiridopsis robusta* (Haw.) N.E.Br.  
*Cheiridopsis verrucosa* L.Bolus  
*Conophytum halenbergense* (Dinter & Schwantes) N.E.Br.  
*Conophytum jucundum* (N.E.Br.) N.E.Br. subsp. *jucundum*  
*Conophytum klinghardtense* Rawe subsp. *baradii* (Rawe) S.A.Hammer  
*Conophytum klinghardtense* Rawe subsp. *klinghardtense*  
*Conophytum loeschianum* Tischer  
*Conophytum pageae* (N.E.Br.) N.E.Br.  
*Conophytum quae situm* (N.E.Br.) N.E.Br. subsp. *densipunctum* (L.Bolus) S.A.Hammer  
*Conophytum ricardianum* Loesch & Tischer subsp. *ricardianum*  
*Conophytum saxetanum* (N.E.Br.) N.E.Br.  
*Conophytum taylorianum* (Dinter & Schwantes) subsp. *ernianum* (Loesch & Tischer) de Boer ex S.A.Hammer  
*Conophytum taylorianum* (Dinter & Schwantes) N.E.Br. subsp. *taylorianum*  
*Delosperma klinghardtianum* Dinter & Schwantes  
*Dracophilus dealbatus* (N.E.Br.) Walgate  
*Dracophilus delaetianus* (Dinter) Dinter & Schwantes  
*Dracophilus montis-draconis* (Dinter) Dinter & Schwantes  
*Dracophilus proximus* (L.Bolus) Walgate  
*Drosanthemum albens* L.Bolus  
*Drosanthemum curtophyllum* L. Bolus  
*Drosanthemum hispidum* (L.) Schwantes  
*Drosanthemum inornatum* (L.Bolus) L.Bolus  
*Drosanthemum luederitzii* (Engl.) Schwantes  
*Drosanthemum pauper* (Dinter) Dinter & Schwantes  
*Drosanthemum subcompressum* (Haw.) Schwantes  
*Eberlanzia clausa* (Dinter) Schwantes  
*Eberlanzia cyathiformis* (L.Bolus) H.E.K.Hartmann  
*Eberlanzia ebracteata* (L.Bolus) H.E.K.Hartmann  
*Eberlanzia schneideriana* (A.Berger) H.E.K.Hartmann  
*Eberlanzia sedoides* (Dinter & A.Berger) Schwantes  
*Ebracteola derenbergiana* (Dinter) Dinter & Schwantes  
*Fenestraria rhopalophylla* (Schltr.& Diels) N.E.Br. subsp. *aurantiaca* (N.E.Br.)  
H.E.K.Hartmann  
*Fenestraria rhopalophylla* (Schltr.& Diels) N.E.Br. subsp. *rhopalophylla*  
*Hartmanthus hallii* (L.Bolus) S.A.Hammer  
*Hartmanthus pergaminateus* (L. Bolus) S.A.Hammer  
*Hereroa hesperantha* (Dinter & A.Berger) Dinter & Schwantes  
*Jordaaniella cuprea* (L.Bolus) H.E.K.Hartmann

- Juttadinteria albata* (L.Bolus) L.Bolus  
*Juttadinteria attenuata* Walgate  
*Juttadinteria ausensis* (L.Bolus) Schwantes  
*Juttadinteria deserticola* (Marloth) Schwantes  
*Juttadinteria kovisimontana* (Dinter) Schwantes  
*Juttadinteria simpsonii* (Dinter) Schwantes  
*Juttadinteria suavissima* (Dinter) Schwantes  
*Lampranthus borealis* L.Bolus  
*Lampranthus hoerleinianus* (Dinter) Friedrich  
*Lampranthus otzenianus* (Dinter) Friedrich  
*Leipoldtia alborosea* (L.Bolus) H.E.K.Hartmann & Stüber  
*Leipoldtia weigangiana* (Dinter) Dinter & Schwantes subsp. *grandiflora* (L.Bolus)  
H.E.K.Hartmann & S.Rust  
*Leipoldtia weigangiana* (Dinter) Dinter & Schwantes subsp. *littlewoodii* (L.Bolus)  
H.E.K.Hartmann & S.Rust  
*Leipoldtia weigangiana* (Dinter) Dinter & Schwantes subsp. *weigangiana*  
*Lithops francisci* (Dinter & Schwantes) N.E.Br.  
*Lithops gesineae* de Boer  
*Lithops herrei* L. Bolus  
*Lithops optica* (Marloth) N.E.Br.  
*Mesembryanthemum barklyi* N.E.Br.  
*Mesembryanthemum cryptanthum* Hook.f.  
*Mesembryanthemum guerichianum* Pax  
*Mesembryanthemum hypertrophicum* Dinter  
*Mesembryanthemum inachabense* Engl.  
*Mesembryanthemum nodiflorum* L.  
*Mesembryanthemum pellitum* Friedrich  
*Namibia cinerea* (Marloth) Schwantes  
*Namibia pomonae* (Dinter) Dinter & Schwantes ex Walgate  
*Namibia ponderosa* (Dinter) Dinter & Schwantes ex H. Jacobsen  
*Phyllobolus melanospermus* (Dinter & Schwantes) Gerbaulet  
*Phyllobolus oculatus* (N.E.Br.) Gerbaulet  
*Prenia tetragona* (Thunb.) Gerbaulet  
*Psammophora longifolia* L.Bolus  
*Psammophora modesta* (Dinter & A.Berger) Dinter & Schwantes  
*Psammophora nissenii* (Dinter) Dinter & Schwantes  
*Psammophora saxicola* H.E.K.Hartmann  
*Psilocaulon coriarium* (Burch. ex N.E.Br.) N.E.Br.  
*Psilocaulon dinteri* (Engl.) Schwantes  
*Psilocaulon salicornioides* (Pax) Schwantes  
*Psilocaulon subnodosum* (A.Berger) N.E.Br.  
*Ruschia abbreviata* L.Bolus  
*Ruschia deminuta* L.Bolus  
*Ruschia divaricata* L.Bolus  
*Ruschia muelleri* (L.Bolus) Schwantes  
*Ruschia namusmontana* Friedrich  
*Ruschia odontocalyx* (Schltr.& Diels) Schwantes  
*Ruschia pollardii* Friedrich  
*Ruschia ruschiana* (Dinter) Dinter & Schwantes  
*Ruschia spinosa* (L.) Dehn  
*Ruschia tumidula* (Haw.) Schwantes  
*Schwantesia herrei* L. Bolus

*Stoeberia arborea* Van Jaarsv.  
*Stoeberia beetzii* (Dinter) Dinter & Schwantes  
*Stoeberia carpis* Friedrich  
*Stoeberia frutescens* (L.Bolus) van Jaarsv.  
*Stoeberia gigas* (Dinter) Dinter & Schwantes  
*Stoeberia utilis* (L.Bolus) Van Jaarsv.  
*Synaptophyllum juttae* (Dinter & A.Berger) N.E.Br.  
*Titanopsis schwantesii* (Dinter) Schwantes

Molluginaceae  
*Adenogramma glomerata* (L.f.) Druce  
*Coelanthum grandiflorum* E.Mey. ex Fenzl  
*Glinus lotoides* L. var. *lotoides* \*  
*Hypertelis angraë-pequenae* Friedr.  
*Hypertelis salsolooides* (Burch.) Adamson var. *salsolooides*  
*Hypertelis spargulacea* E.Mey. ex Fenzl  
*Limeum aethiopicum* Burm. subsp. *namaense* Friedrich var. *namaense*  
*Limeum deserticolum* Dinter & G.Schellenb.  
*Limeum fenestratum* (Fenzl) Heim. var. *fenestratum*  
*Mollugo cerviana* (L.) Ser.ex DC. var. *cerviana*  
*Mollugo walteri* Friedrich  
*Pharnaceum albens* L.f.  
*Pharnaceum confertum* (DC.) Eckl.& Zeyh.  
*Pharnaceum exiguum* Adamson  
*Pharnaceum brevicaule* (DC.) Bartl.  
*Pharnaceum croceum* E.Mey.ex Fenzl  
*Suessenguthiella scleranthoides* (Sond.) Friedrich

Montiniaceae  
*Montinia caryophyllacea* Thunb.

Moraceae  
*Ficus cordata* Thunb. subsp. *cordata*  
*Ficus ilicina* (Sond.) Miq.

Myrtaceae  
*Eucalyptus camaldulensis* Dehnb.\*

Neuradaceae  
*Grielum humifusum* Thunb.  
*Grielum sinuatum* Licht.ex Burch.  
*Neuradopsis austro-africana* (Schinz) Bremek.& Oberm.

Onagraceae  
*Oenothera indecora* Cambess. subsp. *indecora* \*

Orobanchaceae  
*Hyobanche barklyi* N.E.Br.

Oxalidaceae  
*Oxalis beneprotecta* Dinter ex R.Knuth  
*Oxalis copiosa* F.Bolus

*Oxalis laxicaulis* R. Knuth

*Oxalis luederitzii* Schinz

*Oxalis obtusa* Jacq.

*Oxalis pseudo-cernua* R.Knuth

Papaveraceae

*Argemone ochroleuca* Sweet subsp. *ochroleuca* \*

*Papaver aculeatum* Thunb.

Pedaliaceae

*Rogeria longiflora* (Royen) J.Gay ex DC.

*Sesamum capense* Burm.f.

Phytolaccaceae

*Lophiocarpus polystachyus* Turcz.

Plantaginaceae

*Plantago lanceolata* L.

Plumbaginaceae

*Dyerophytum africanum* (Lam.) Kuntze

*Limonium dyeri* Lincz.

*Limonium scabrum* (Thunb.) Kuntze var. *scabrum*

Polygalaceae

*Polygala leptophylla* Burch.

*Polygala mossii* Exell

*Polygala pallida* E.Mey.

*Polygala scabra* L.

*Polygala* sp. nov.

Polygonaceae

*Emex australis* Steinh.

*Rumex lativalvis* Meisn.

Portulacaceae

*Anacampseros baeseckei* Dinter

*Anacampseros filamentosa* (Haw.) Sims subsp. *namaquensis* (H.Pearson & Stephens)

G.D.Rowley

*Anacampseros filamentosa* (Haw.) Sims subsp. *tomentosa* (A.Berger) Gerbaulet

*Anacampseros retusa* Poelln.

*Avonia albissima* (Marloth) G.D.Rowley

*Ceraria fruticulosa* H.Pearson & Stephens

*Ceraria namaquensis* (Sond.) Pearson & Stephens

*Portulacaria pygmea* Pillans

Resedaceae

*Oligomeris dipetala* (Aiton) Turcz. var. *dipetala*

Rhamnaceae

*Ziziphus mucronata* Willd.

Rosaceae

*Potentilla supina* L.

Rubiaceae

*Anthospermum dregei* Sond. subsp. *dregei*

*Gaillonia crocylloides* (Sond.) Thulin

*Galium tomentosum* Thunb.

*Kohautia caespitosa* Schnizl. subsp. *brachyloba* (Sond.) D.Mantell

*Kohautia ramosissima* Bremek.

Salicaceae

*Salix mucronata* Thunb. subsp. *capensis* (Thunb.) Immelman

Santalaceae

*Thesium lacinulatum* A.W.Hill.

*Thesium lineatum* L.f.

Sapindaceae

*Pappea capensis* Eckl. & Zeyh.

Scrophulariaceae

*Antherothamnus pearsonii* N.E.Br.

*Anticharis ebracteata* Schinz

*Anticharis inflata* Marloth & Engl.

*Anticharis juncea* L. Bolus

*Anticharis scoparia* (E.Mey. ex Benth.) Hiern ex Benth. & Hook.f.

*Aptosimum albomarginatum* Marloth & Engl.

*Aptosimum eriocephalum* E.Mey.ex Benth.

*Aptosimum lineare* Marloth & Engl.

*Aptosimum spinescens* (Thunb.) F.E.Weber

*Aptosimum tragacanthoides* E.Mey.ex Benth.

*Aptosimum viscosum* Benth.

*Diascia ausana* Dinter

*Diclis petiolaris* Benth.

*Dischisma spicatum* (Thunb.) Choisy

*Hebenstretia cordata* L.

*Hebenstretia integrifolia* L.

*Hebenstretia namaquensis* Roessler

*Hebenstretia parviflora* E.Mey.

*Jamesbrittenia adpressa* (Dinter) Hilliard

*Jamesbrittenia aridicola* Hilliard

*Jamesbrittenia atropurpurea* (Benth.) Hilliard subsp. *pubescens* Hilliard

*Jamesbrittenia bicolor* (Dinter) Hilliard

*Jamesbrittenia canescens* (Benth.) Hilliard var. *canescens*

*Jamesbrittenia fruticosa* (Benth.) Hilliard

*Jamesbrittenia glutinosa* (Benth.) Hilliard

*Jamesbrittenia huillana* (Diels) Hilliard

*Jamesbrittenia integerima* (Benth.) Hilliard

*Jamesbrittenia maxii* (Hiern) Hilliard

*Jamesbrittenia merxmulleri* (Roessler) Hilliard

*Jamesbrittenia ramosissima* (Hiern) Hilliard

*Jamesbrittenia sessilifolia* (Diels) Hilliard

*Lyperia tristis* (L.f.) Benth.  
*Manulea androsacea* E.Mey. ex Benth.  
*Manulea aridicola* Hilliard  
*Manulea gariepina* Benth.  
*Manulea minuscula* Hilliard  
*Manulea namibensis* (Roessler) Hilliard  
*Nemesia fleckii* Thell.  
*Nemesia fruticans* (Thunb.) Benth.  
*Nemesia gracilis* Benth.  
*Nemesia violiflora* Roessler  
*Nemesia viscosa* E.Mey.ex Benth.  
*Peliostomum leucorrhizum* E.Mey.ex Benth.  
*Peliostomum viscosum* E.Mey.ex Benth.  
*Phyllopodium hispidulum* (Thell.) Hilliard  
*Phyllopodium maxii* (Hiern) Hilliard  
*Phyllopodium namaense* (Thell.) Hilliard  
*Selago angolensis* Rolfe  
*Selago angustibractea* Hilliard  
*Selago dinteri* Rolfe subsp. *pseudodinteri* Hilliard  
*Selago divaricata* L.f.  
*Veronica anagallis-aquatica* L.  
*Zaluzianskya benthamiana* Walp.  
*Zaluzianskya diandra* Diels  
*Zaluzianskya peduncularis* (Benth.) Walp.

Solanaceae

*Datura inoxia* Mill.\*  
*Datura stramonium* L.\*  
*Lycium amoenum* Dammer  
*Lycium bosciifolium* Schinz  
*Lycium cinereum* Thunb.  
*Lycium gariepense* A.M.Venter  
*Lycium grandicalyx* Joubert & A.M.Venter  
*Lycium horridum* Thunb.  
*Lycium pilifolium* C.H.Wright  
*Lycium schizocalyx* C.M.Wright  
*Lycium tetrandrum* L.f.  
*Lycopersicon pimpinellifolium* (L.) Mill.\*  
*Nicotiana glauca* R.C.Graham \*  
*Nicotiana longiflora* Cav.\*  
*Solanum burchellii* Dunal  
*Solanum capense* L.  
*Solanum nigrum* L.\*  
*Solanum rigescens* Jacq.

Sterculiaceae

*Hermannia abrotanoides* Schrad.  
*Hermannia affinis* K.Schum.  
*Hermannia amoena* Dinter ex Friedr.-Holzh.  
*Hermannia comosa* Burch.ex DC.  
*Hermannia complicata* Engl.  
*Hermannia desertorum* Eckl.& Zeyh.

*Hermannia disermifolia* Jacq.  
*Hermannia engleri* Schinz  
*Hermannia gariepina* Eckl. & Zeyh.  
*Hermannia macra* Schltr.  
*Hermannia minutiflora* Engl.  
*Hermannia modesta* (Ehrenb.) Mast.  
*Hermannia paucifolia* Turcz.  
*Hermannia pfeilii* K. Schum.  
*Hermannia spinosa* E.Mey.ex Harv.  
*Hermannia stricta* (E.Mey.ex Turcz.) Harv.  
*Hermannia trifurca* L.

Tamaricaceae  
*Tamarix usneoides* E.Mey.ex Bunge

Thymelaceae  
*Gnidia polycephalia* (C.A.Meyer) Gilg  
*Gnidia suavissima* Dinter

Urticaceae  
*Didymodoxa capensis* (L.f.) Friis & Wilmot-Dear var. *capensis*  
*Forsskaolea candida* L.f.  
*Forsskaolea hereroensis* Schinz

Vahliaeae  
*Vahlia capensis* (L.f.) Thunb. subsp. *vulgaris* var. *vulgaris*

Verbenaceae  
*Chascanum garipense* E.Mey.  
*Chascanum namaquanum* (Bolus ex H. Pearson) Moldenke  
*Lantana camara* L.\*

Viscaceae  
*Viscum capense* L.f.  
*Viscum rotundifolium* L.f.

Zygophyllaceae  
*Augea capensis* Thunb.  
*Fagonia capensis* Hadidi  
*Fagonia isotricha* Murb. var. *spinescens* (O.Schwartz) Hadidi  
*Sisyndite sparteo* E.Mey.ex Sond.  
*Tribulus cristatus* C.Presl  
*Tribulus terrestris* L.  
*Tribulus zeyheri* Sond. subsp. *zeyheri*  
*Zygophyllum applanatum* Van Zyl  
*Zygophyllum chrysopteron* Retief  
*Zygophyllum clavatum* Schltr. & Diels  
*Zygophyllum cordifolium* L.f.  
*Zygophyllum decumbens* Del. var. *decumbens* A.Hosny  
*Zygophyllum foetidum* Schrad. & Wendl.  
*Zygophyllum hirticaule* Van Zyl  
*Zygophyllum leptopetalum* Sond.

- Zygophyllum leucocladum* Diels  
*Zygophyllum longicapsulare* Schinz  
*Zygophyllum longistipulatum* Schinz  
*Zygophyllum macrocarpon* Retief  
*Zygophyllum microcarpum* Cham.  
*Zygophyllum morgiana* L.  
*Zygophyllum patenticaule* Van Zyl  
*Zygophyllum prismatocarpum* Sond.  
*Zygophyllum pterocaule* Van Zyl  
*Zygophyllum pubescens* Schinz  
*Zygophyllum retrofractum* Thunb.  
*Zygophyllum rigidum* Schinz  
*Zygophyllum schreiberanum* Merx. & Giess  
*Zygophyllum segmentatum* Van Zyl  
*Zygophyllum simplex* L.