

Important taxa of the six endemic vegetation types

1. Cape Flats Sand Fynbos

Tall Shrubs: Metalasia densa, Morella cordifolia, M. serrata, Passerina corymbosa, Protea burchellii, P. repens, Psoralea pinnata, Pterocelastrus tricuspidatus, Rhus lucida, Wiborgia obcordata.

Low Shrubs: Diastella proteoides, Diosma hirsuta, Erica lasciva, E. muscosa, Phyllica cephalantha, Senecio halimifolius, Serruria glomerata, Stoebe plumosa, Anthospermum aethiopicum, Aspalathus callosa, A. hispida, A. quinquefolia subsp. quinquefolia, A. sericea, A. spinosa subsp. spinosa, A. ternata, Berzelia abrotanoides, Chrysanthemoides incana, Cliffortia eriocephalina, C. juniperina, C. polygonifolia, Erica articularis, E. axillaris, E. capitata, E. corifolia, E. ferrea, E. imbricata, E. mammosa, E. plumosa, E. pulchella, Eriocephalus africanus var. africanus, Galenia africana, Gnidia spicata, Helichrysum cymosum, Leucadendron floridum, L. salignum, Leucospermum hypophyllocarpodendron subsp. canaliculatum, Metalasia adunca, M. pulchella, Morella quercifolia, Passerina ericoides, Pharnaceum lanatum, Phyllica parviflora, Plecostachys polifolia, P. serpyllifolia, Polpoda capensis, Protea scolymocephala, Serruria fasciflora, S. trilopha, Staavia radiata, Stilbe albiflora, Stoebe cinerea, Syncarpha vestita, Trichocephalus stipularis.

Succulent Shrub: Crassula flava. Herbs: Berkheya rigida, Conyza pinnatifida, Edmondia sesamoides, Helichrysum tinctum, Indigofera procumbens, Knowltonia vesicatoria.

Geophytic Herbs: Watsonia meriana, Aristea dichotoma, Geissorhiza tenella, Othonna heterophylla, Pelargonium longifolium, Wachendorfia paniculata, Zantedeschia aethiopica.

Succulent Herb: Carpobrotus acinaciformis.

Herbaceous Climber: Dipogon lignosus.

Graminoids: Cynodon dactylon, Ehrharta villosa var. villosa, Elegia tectorum, Restio quinquefarius, Sporobolus virginicus, Thamnochortus erectus, Willdenowia incurvata, Calopsis impolita, Elegia juncea, E. microcarpa, E. nuda, Hordeum capense, Hypodiscus aristatus, Ischyrolepis capensis, I. paludosa, Juncus capensis, Restio bifurcus, R. micans, R. quadratus, Willdenowia sulcata, W. teres.

2. Peninsula Sandstone Fynbos

Small Tree: Leucospermum conocarpodendron subsp. viridum.

Tall Shrubs: Metalasia densa, Phyllica buxifolia, Protea lepidocarpodendron, Psoralea aphylla, Aspalathus linearis, Erica tristis, Euryops abrotanifolius.

Low Shrubs: Anthospermum galioides subsp. galioides, Berzelia lanuginosa, Cliffortia drepanoides, C. ruscifolia, C. subsetacea, Cryptadenia grandiflora, Elytropappus gnaphaloides, Erica axillaris, E. ericoides, E. hispidula, E. imbricata, E. labialis, E. muscosa, Felicia fruticosa subsp. fruticosa, Helichrysum cymosum, Leucadendron laureolum, L. xanthoconus, Otholobium hirtum, Penaea mucronata, Roella ciliata, Saltera sarcocolla, Stoebe cinerea, S. fusca, Syncarpha speciosissima, S. vestita, Anthospermum aethiopicum, Aspalathus argyrella, A. aspalathoides, A. callosa, A. commutata, A. cordata, A. crenata, A. filicaulis, A. macrantha, A. psoraleoides, A. quinquefolia subsp. compacta, A. retroflexa subsp. retroflexa, A. tridentata subsp. tridentata, Capelio tabularis, Clusia polygonoides, Cullumia ciliaris, Erica benthamiana, E. corifolia, E. exleean, E. hirtiflora, E. lutea, E.

multumbellifera, *E. parviflora*, *E. plukenetii* subsp. *plukenetii*, *E. pulchella*, *E. sessiliflora*, *E. similis*, *E. viscaria* subsp. *viscaria*, *Euryops pectinatus* subsp. *pectinatus*, *Helichrysum pandurifolium*, *Metalasia brevifolia*, *Muraltia pageae*, *Osmitopsis asteriscoides*, *Otholobium fruticans*, *Passerina truncata* subsp. *monticola*, *Pelargonium cucullatum*, *Phyllica imberbis*, *Protea cynaroides*, *Struthiola ciliata* subsp. *angustifolia*, *Stylapterus fruticosus*, *Ursinia paleacea*, *Witsenia maura*, *Zyrphelis foliosa*, *Z. taxifolia*.

Semiparasitic Shrub: *Thesium virgatum*.

Herbs: *Corymbium africanum*, *Indigofera psoraloides*, *Ursinia nudicaulis*.

Geophytic Herbs: *Aristea bakeri*, *Geissorhiza aspera*, *G. bolusii*, *G. hispidula*, *G. imbricata* subsp. *imbricata*, *G. juncea*, *G. ovata*, *G. similis*, *G. tenella*, *G. umbrosa*, *Trachyandra hirsutiflora*.

Graminoids: *Anthochortus crinalis*, *Ehrharta ramosa* subsp. *aphylla*, *Elegia ebracteata*, *E. hookeriana*, *E. mucronata*, *E. neesii*, *E. racemosa*, *E. stipularis*, *E. thyrsoifera*, *E. vaginulata*, *Ficinia acuminata*, *F. bulbosa*, *F. nigrescens*, *F. oligantha*, *F. trichodes*, *Hypodiscus aristatus*, *Ischyrolepis cincinnata*, *I. gaudichaudiana*, *Pentameris macrocalycina*, *Platycaulos compressus*, *Pseudopentameris macrantha*, *Restio bifidus*, *R. perplexus*, *Staberoha distachyos*, *S. vaginata*, *Tetraria flexuosa*, *T. involucrata*, *Thamnochortus fruticosus*, *T. lucens*, *T. obtusus*, *Ehrharta villosa* var. *villosa*, *Ischyrolepis capensis*, *Pentaschistis colorata*, *Restio dodii*, *Tetraria cuspidata*, *T. ligulata*, *T. microstachys*.

Endemic Taxa:

Small Tree: *Mimetes fimbriifolius*.

Tall Shrubs: *Erica caterviflora*, *Leucadendron macowanii*, *L. strobilinum*, *Liparia laevigata*.

Low Shrubs: *Diastella divaricata* subsp. *divaricata*, *Agathosma lanceolata*, *A. pulchella*, *Anaxeton arborescens*, *Aspalathus barbata*, *A. borboniifolia*, *A. capensis*, *A. capitata*, *A. chenopoda* subsp. *chenopoda*, *A. incurva*, *Brachysiphon fucatus*, *Cliffortia discolor*, *Cyclopia galioides*, *C. latifolia*, *Erica abietina* subsp. *abietina*, *E. abietina* subsp. *atrorosea*, *E. abietina* subsp. *constantiana*, *E. abietina* subsp. *diabolis*, *E. amoena*, *E. annectens*, *E. capensis*, *E. clavisepala*, *E. cyrilliflora*, *E. depressa*, *E. diosmifolia*, *E. eburnea*, *E. empetrina*, *E. fairii*, *E. fontana*, *E. haematocodon*, *E. halicacaba*, *E. heleogena*, *E. limosa*, *E. marifolia*, *E. mollis*, *E. nevillei*, *E. oxycoccifolia*, *E. paludicola*, *E. physodes*, *E. pilulifera*, *E. planifolia*, *E. pyxidiflora*, *E. quadrisulcata*, *E. salteri*, *E. sociorum*, *E. subcapitata*, *E. urna-viridis*, *Indigofera candolleana*, *I. filiformis*, *I. mauritanica*, *Lebeckia macowanii*, *Liparia parva*, *Metalasia compacta*, *M. divergens* subsp. *divergens*, *M. divergens* subsp. *fusca*, *Microdon nitidus*, *Morella diversifolia*, *Muraltia acipetala*, *M. brachypetala*, *M. comptonii*, *M. curvipetala*, *M. demissa*, *M. diabolica*, *M. mixta*, *M. orbicularis*, *Osmitopsis dentata*, *Phyllica schlechteri*, *Prismatocarpus nitidus*, *Roella amplexicaulis*, *R. decurrens*, *R. goodiana*, *R. recurvata*, *R. squarrosa*, *R. triflora*, *Serruria collina*, *S. cyanoides*, *S. decumbens*, *S. hirsuta*, *S. villosa*, *Staavia dodii*, *S. glutinosa*, *Stoebe rosea*, *Wahlenbergia pyrophila*.

Succulent Shrubs: *Aloe commixta*, *Drosanthemum stokoei*, *Erepsia forficata*, *Lampranthus austriicola*, *L. incurvus*, *L. multiradiatus*, *L. promontorii*, *L. roseus*, *L. tenuis*.

Semiparasitic Shrub: *Thesium pseudovirgatum*.

Herbs: *Gerbera wrightii*, *Helichrysum fruticans*, *H. grandiflorum*, *Heliophila promontorii*, *H. tabularis*, *Lobelia eckloniana*, *Nemesia micrantha*, *Pseudoselago peninsulae*, *Scabiosa africana*, *Senecio verbascifolius*, *Ursinia tenuifolia* subsp. *tenuifolia*, *Villarsia goldblattiana*.

Geophytic Herbs: *Bobartia gladiata* subsp. *major*, *Disa nubigena*, *Geissorhiza bonaspei*, *G. tabularis*, *Gethyllis kaapensis*, *Gladiolus aureus*, *G. bonaspei*, *G. monticola*, *G. vigilans*, *Lachenalia capensis*, *Pterygodium connivens*, *Romulea papyracea*, *Watsonia tabularis*, *Wurmbea hiemalis*. Carnivorous Herb: *Drosera cuneifolia*.

Graminoids: *Thamnochortus nutans*, *Anthochortus capensis*, *Calopsis gracilis*, *Elegia intermedia*, *Eleocharis leptota*, *Ficinia anceps*, *F. fastigiata*, *F. micrantha*, *Isolepis bulbifera*, *I. pusilla*, *Restio communis*, *Tetraria graminifolia*, *T. paludosa*, *Thamnochortus levynsiae*.

3. Peninsula Granite Fynbos

Small Trees: *Brabejum stellatifolium* (d), *Kiggelaria africana* (d), *Leucadendron argenteum* (d), *Protea nitida* (d), *Widdringtonia nodiflora* (d), *Leucospermum conocarpodendron* subsp. *conocarpodendron*.

Tall Shrubs: *Diospyros whyteana* (d), *Leucadendron rubrum* (d), *Metalasia densa* (d), *Passerina corymbosa* (d), *Podalyria calyptrata* (d), *Protea coronata* (d), *P. lepidocarpodendron* (d), *Rhus lucida* (d), *R. tomentosa* (d), *Cassine peragua* subsp. *peragua*, *Chrysanthemoides monilifera*, *Euryops abrotanifolius*, *Montinia caryophyllacea*, *Myrsine africana*, *Psoralea aphylla*, *P. pinnata*, *Putterlickia pyracantha*, *Rhus laevigata*.

Low Shrubs: Cliffortia stricta (d), Elytropappus gnaphaloides (d), E. rhinocerotis (d), Erica hirtiflora (d), E. plukenetii subsp. plukenetii (d), Leucadendron salignum (d), L. xanthoconus (d), Stoebe cinerea (d), Anthospermum aethiopicum, Aspalathus astroites, Berzelia lanuginosa, Brunia nodiflora, Cliffortia drepanoides, C. ruscifolia, Clutia polifolia, Erica baccans, E. ericoides, E. mauritanica, Eriocephalus racemosus, Euryops pinnatipartitus, Felicia aethiopica, Heliophila callosa, Maytenus oleoides, Morella quercifolia, Osteospermum ciliatum, Otholobium fruticans, Pelargonium cucullatum, Penaea mucronata, Phyllica imberbis, Psoralea lucida, Stilbe vestita, Stoebe alopecuroides, S. fusca, Trichocephalus stipularis.

Semiparasitic Shrub: Osyris compressa. Herbs: Edmondia sesamoides, Pseudoselago spuria.

Geophytic Herbs: Aristeia bakeri (d), A. capitata (d), Pteridium aquilinum (d), Amaryllis belladonna, Geissorhiza pusilla, Romulea cruciata.

Graminoids: Cannomois virgata (d), Ischyrolepis eleocharis (d), I. gaudichaudiana (d), Mastersiella digitata (d), Restio triticeus (d), Cymbopogon marginatus, Elegia racemosa, Ficinia angustifolia, F. filiformis, F. oligantha, Hypodiscus albo-aristatus, Restio filiformis, Thamnochortus erectus.

4. Peninsula Shale Renosterveld

Tall Shrubs: Gymnosporia buxifolia, Noltea africana, Rhus angustifolia, R. glauca, R. lucida, R. tomentosa, Myrsine africana, Olea europaea subsp. africana, Putterlickia pyracantha, Rhus laevigata.

Low Shrubs: Cliffortia polygonifolia, Elytropappus rhinocerotis, Eriocephalus africanus var. africanus, Helichrysum cymosum, H. patulum, Lobostemon argenteus, Salvia africana-caerulea, Stoebe cinerea, Anthospermum spathulatum subsp. spathulatum, Chrysanthemoides incana, Clutia pulchella, Diosma hirsuta, Erica baccans, Gnidia inconspicua, Otholobium hirtum, Salvia africana-lutea.

Succulent Shrubs: Erepisia anceps, Tylecodon grandiflorus.

Herbs: Stachys aethiopica, Knowltonia capensis, Pseudoselago serrata.

Geophytic Herbs: Cheilanthes capensis, Mohria caffrorum, Asplenium aethiopicum, Geissorhiza inflexa, G. pusilla.

Graminoids: Hyparrhenia hirta, Cymbopogon marginatus, Ehrharta erecta, Eragrostis curvula, Merxmuellera stricta, Pentaschistis aspera, Themeda triandra, Tribolium uniola.

5. Lourensford Alluvium Fynbos

Small Tree: Protea nitida.

Tall Shrubs: Protea burchellii, P. coronata, P. repens.

Low Shrubs: Asparagus rubicundus, Athanasia juncea, A. trifurcata, Cliffortia marginata, Erica imbricata, E. paniculata, Leucadendron lanigerum var. lanigerum, L. salignum, Lotononis prostrata, Marasmodes polycephala, Protea cynaroides, P. scolymocephala, Senecio pubigerus, Stoebe plumosa.

Herb: Helichrysum crispum.

Geophytic Herbs: Ammocharis longifolia, Geissorhiza setacea, Ixia dubia.

Graminoids: Cymbopogon marginatus, Cynodon dactylon, Elegia recta, Ficinia indica, Hyparrhenia hirta, Ischyrolepis capensis, Staberoha cernua, Tetraria compar, Themeda triandra, Tribolium uniola.

6. Cape Flats Dune Strandveld

Endemic Taxa:

Narrow-leaf Brightfig *Lampranthus tenuifolius*.

The city of Cape Town is one of the hottest of the Biodiversity 'hot spots' on Earth. In terms of unique diversity, there are few places elsewhere that even come close.

Our conservation situation is dire. Much work is being carried out by the Biodiversity Management Branch of the City of Cape Town, and also by the Table Mountain National Park and Cape Nature. You too can help in many ways by joining organizations such as CREW (Custodians for Rare and Endangered Wildflowers), the various "Friends" groups (such as Friends of Tygerberg or Friends of Silvermine), the IKAPA Honorary Rangers (that service the National Park), the Botanical Society of South Africa (which leads botanical walks in the city). Your assistance in helping to conserve our beleaguered biodiversity is essential.

Acknowledgements:

The information was compiled by Tony Rebelo and Patricia Holmes. Comments were provided by Clifford Dorse, Ismail Ebrahim, Dalton Gibbs and Nigel Forshaw. Comments and editing were provided by Jenny Josefsson.

Major references were:

A.B. Low & A.G. Rebelo (eds). *Vegetation of South Africa, Lesotho & Swaziland, a companion to the vegetation map of South Africa, Lesotho and Swaziland*. Dept Environmental Affairs and Tourism, Pretoria. 85pp. ISBN 0 621 17316 9.

A.G. Rebelo, C. Boucher, N. Helme, L. Mucina, M.C. Rutherford *et al.* 2006. Fynbos Biome, in: L. Mucina & M.C. Rutherford (eds). *The Vegetation of South Africa, Lesotho and Swaziland*. *Strelitzia* **19**, pp 52-219.

Anthony G. Rebelo, Patricia M. Holmes, Clifford Dorse & Julia Wood. Cape Town: Averting a Biodiversity Megadisaster? Unpublished MS.