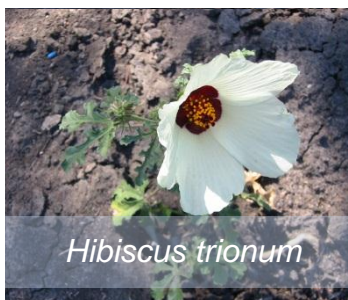
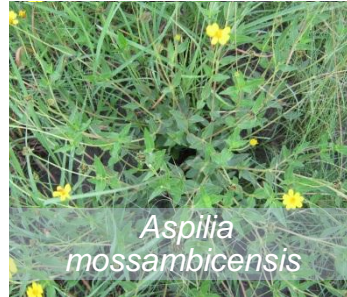


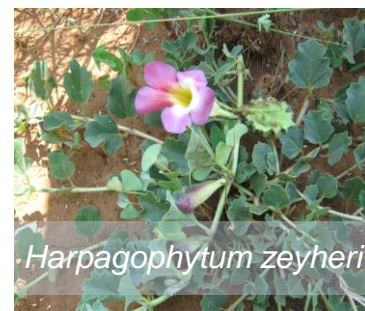
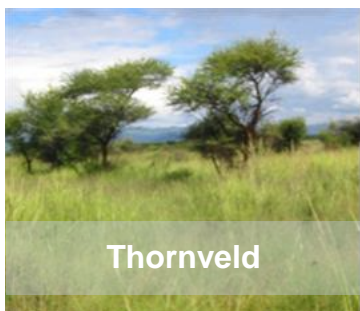
APPENDIX A: HABITATS & FLORA OF THE HERITAGE PARK

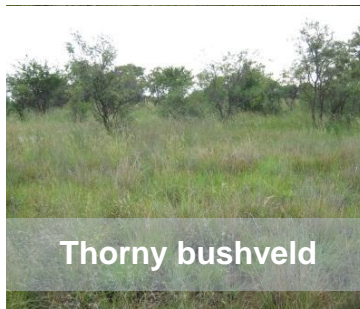
1. Thornveld & mixed bushveld of the plains

1.1. Thornveld on black clay soils



1.2. Thornveld on red to brown loams





Thorny bushveld



Coccinia sessilifolia



Coccinia sessilifolia



Cyphostemma lanigerum



Ipomoea papilio



Ipomoea gracilisejala



Heliotropium strigosum



Raphionacme hirsuta



Tephrosia plicata

1.3. Mixed bushveld



Mixed Bushveld on rocky soil



Xerophyta retinervis



Xerophyta retinervis



Mixed bushveld on hillslope



Aptosimum lineare

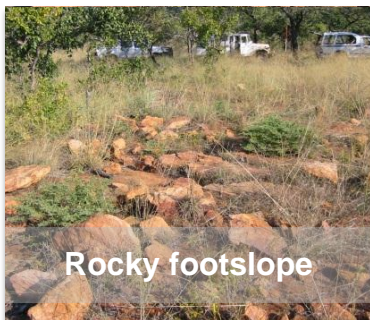


Ledebouria apertiflora



2. Kloofs, ravines & rocky mountain sites of the Dwarsberg Rang

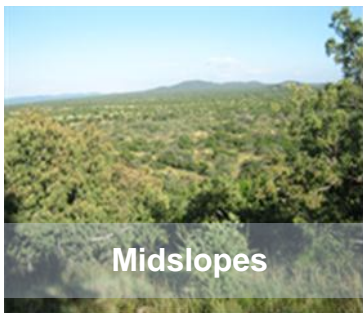
2.1. Mountain footslopes

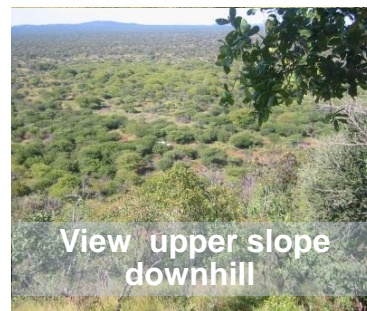
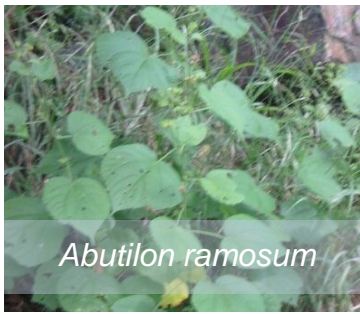


2.2. Rocky mountain kloofs & ravines

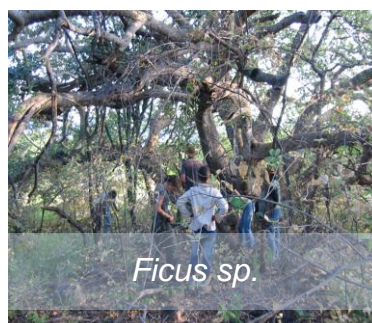
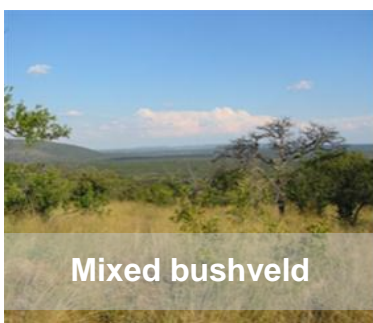
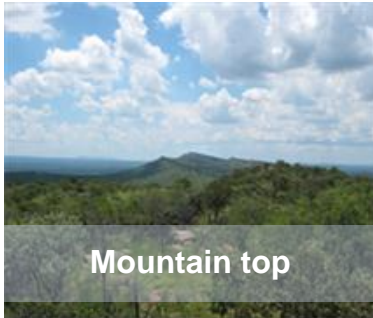


2.3. Middle and upper slopes



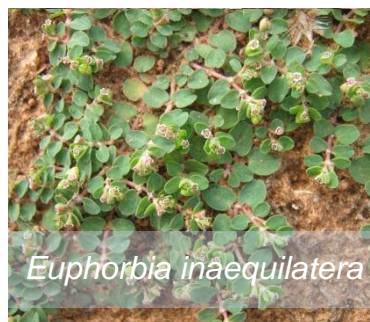


2.4. Mountain top

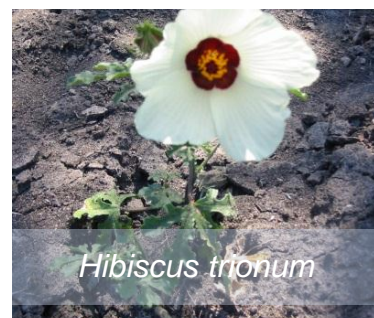
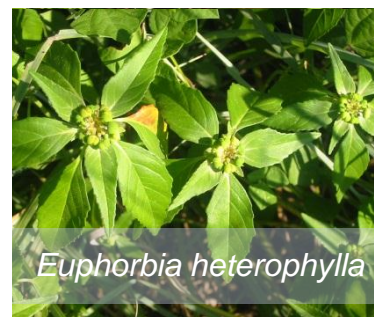


3. Disturbed bushveld of the local cement mine & farming area

3.1. Cement mine

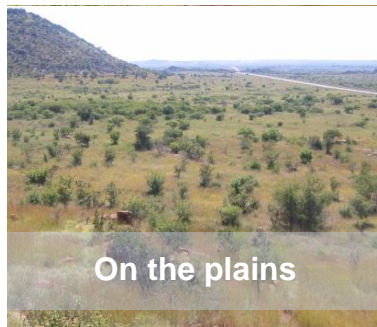


3.2. Farming area



APPENDIX B: HABITATS & FLORA OF THE IMPALA PLATINUM MINING AREA

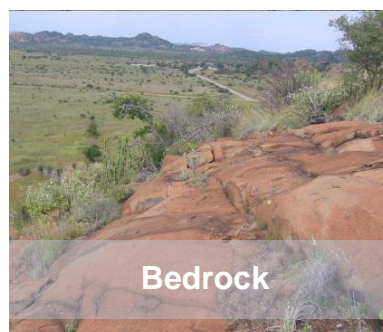
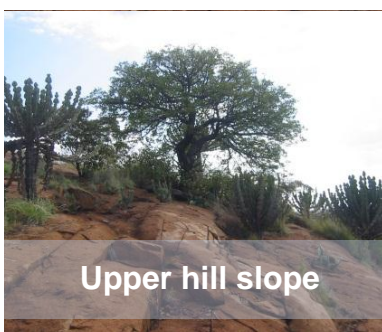
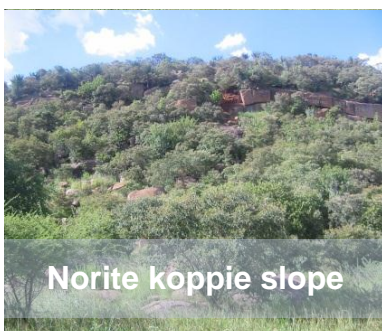
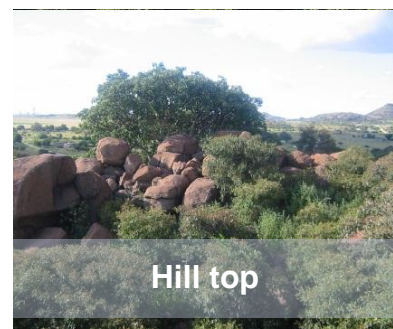
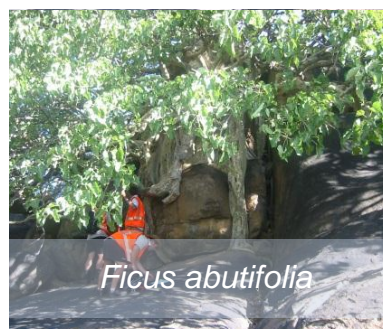
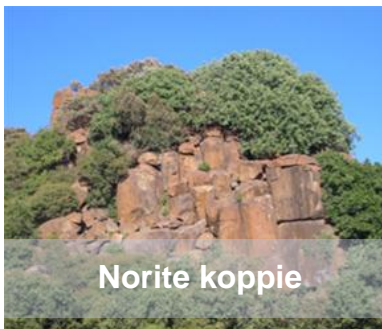
1. Thornveld





2. Norite koppies & noritic rocky outcrops

2.1. Norite koppies





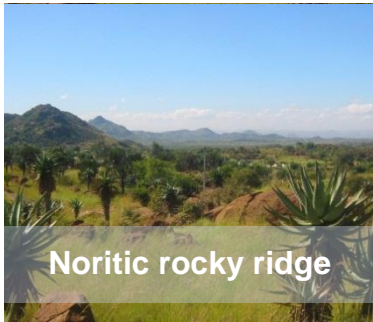
Upper hill slope



Rocky slope



Barleria pretoriensis



Noritic rocky ridge



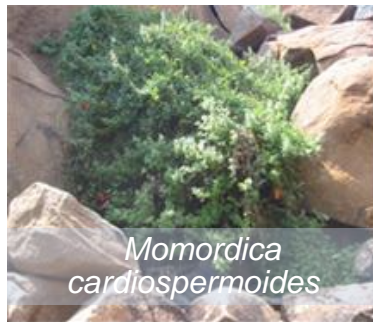
Aloe marlothii (front)



Hibiscus subreniformis



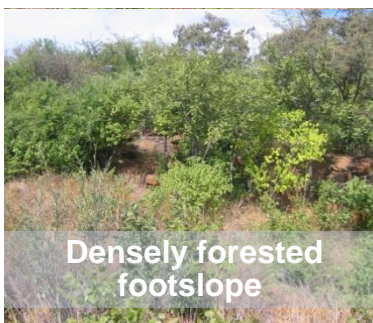
Norite koppie footslope



Momordica cardiospermoides



Momordica cardiospermoides



Densely forested footslope



Sanseveria aethiopica



Sanseveria aethiopica



Norite koppie kloof



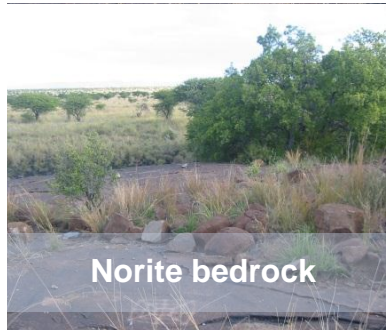
Tragia okanyua



Thunbergia neglecta



2.2. Norite rocky outcrop





Norite dome



Huernia transvaalensis



Huernia transvaalensis



Norite rocky outcrop



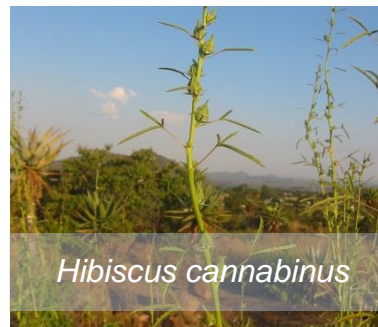
Acalypha villicaulis



Helichrysum setosum



Norite bedrock



Hibiscus cannabinus



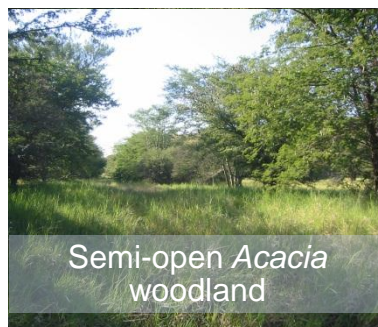
Hermannia modesta

3. Rehabilitated sedimentation dams

3.1. Old tailing dam



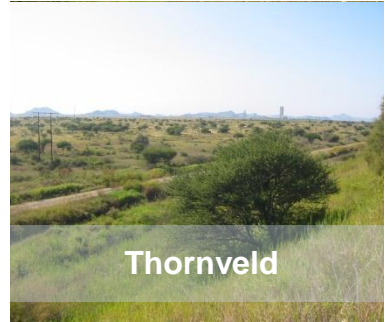
Plateau



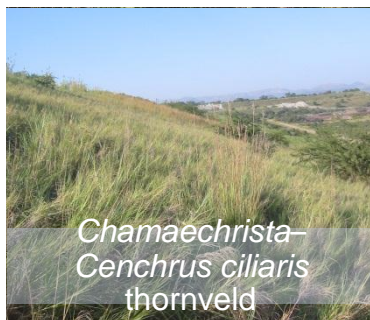
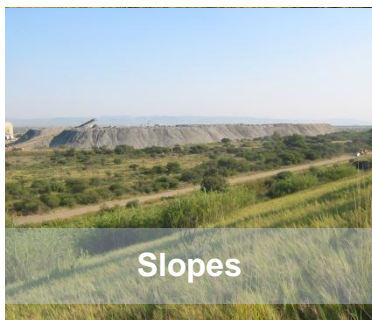
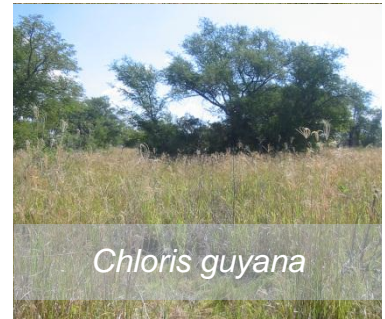
Semi-open *Acacia* woodland



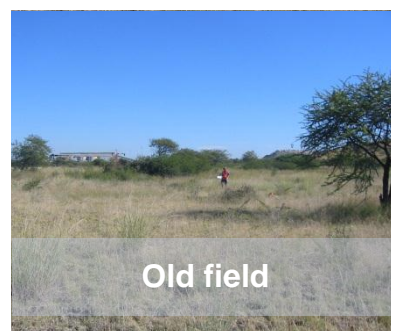
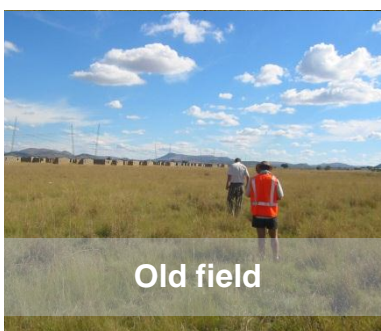
Acacia galpinii



3.2. New tailing dam



4. Old fields



APPENDIX C: ANNOTATED SPECIES CHECKLIST

a) Heritage Park

ACANTHACEAE

Asystasia schimperi

Kurzweg, S. 425

2526BB

Barleria macrostegia

Kurzweg, S. 27, 322a, 411, 482, 492, 512, 528

2426CB, 2426DC, 2426DD, 2526BB

Blepharis integrifolia var *integrifolia*

Kurzweg, S. 32, 151, 259

2426CB

Blepharis subvolubilis

Kurzweg, S. 178

2426DA

Crabbea hirsuta

Kurzweg, S. 365

2426DC

Ruellia cordata

Kurzweg, S. 226, 330, 495, 498

2426DA, 2426DC, 2526BB

Ruellia patula

Kurzweg, S. 23

2426CB

Ruelliopsis setosa

Kurzweg, S. 141a

2426CB

Siphonoglossa linifolia

Kurzweg, S. 276, 409

2426CB, 2526BB

AMARANTHACEAE

Aerva leucura

Kurzweg, S. 84, 205

2426CB

Alternanthera pungens

Kurzweg, S. 490, 500

2426DD, 2526BB

Gomphrena celosioides

Kurzweg, S. 220

2426DA

Kyphocarpa angustifolia

Kurzweg, S. 22, 58, 141b

2426CB, 2426AD, 2426CB

Pupalia lappacea var *lappacea*

Kurzweg, S. 137

2426CB

ANACARDIACEAE

Sclerocarya birrea subsp *birrea*

Magodiello, M.M. 56, 61

2626DC

Searsia leptodictya

Kurzweg, S. 422

2526BB

APOCYNACEAE

Ancylobotrys petersiana

Kurzweg, S. 519

2426DD

Gomphocarpus tomentosus subsp *tomentosus*

Magodiello, M.M. 9

2626DC

Pentarrhinum insipidum

Magodiello, M.M. 11

2626DC

ASPARAGACEAE

Asparagus suaveolens

Magodiello, M.M. 54, 72

2626DC

ASPHODELACEAE

Aloe greatheadii var *davyana*

Magodiello, M.M. 14

2626DC

Aloe marlothii subsp *marlothii*
Magodiello, M.M. 12
2626DC

ASTERACEAE

Acanthospermum hispidum
Kurzweg, S. 203
2426DA

Cosmos bipinnatus
Kurzweg, S. 183
2426DA

Dicoma gerrardii
Kurzweg, S. 172, 410
2426DA, 2526BB

Dicoma macrocephala
Kurzweg, S. 272
2426CB

Flaveria bidentis
Kurzweg, S. 265, 294
2426CB, 2426DA

Hirpicium bechuanense

Kurzweg, S. 18, 234, 250
2426CB, 2426DA

Kleinia longiflora
Magodiello, M.M. 64
2626DC

Laggera decurrens
Kurzweg, S. 359
2526BA

Nidorella resedifolia subsp *resedifolia*
Kurzweg, S. 185
2426DA

Schkuhria pinnata
Kurzweg, S. 25, 210; Magodiello, M.M. 7
2426CB, 2426DA, 2626DC

Tagetes minuta
Kurzweg, S. 186
2426DA

Vernonia fastigiata
Kurzweg, S. 29
2426CB

Vernonia oligocephala
Götze, A.R. 357; Kurzweg, S. 108b, 357, 362, 403

2426CB, 2426DC, 2526BA, 2526BB

Vernonia poskeana subsp *botswanica*

Kurzweg, S. 212

2426DA

Xanthium spinosum

Kurzweg, S. 491

2426DD

Xanthium strumarium

Kurzweg, S. 293

2426DA

Zinnia peruviana

Kurzweg, S. 24

2426CB

BORAGINACEAE

Ehretia rigida subsp *nervifolia*

Magodiello, M.M. 71

2626DC

CAPPARACEAE

Cleome monophylla

Kurzweg, S. 68

2426CB

Cleome rubella

Kurzweg, S. 286

2426CB

CARYOPHYLLACEAE

Pollichia campestris

Kurzweg, S. 217, 254

2426CB, 2426DA

COMBRETACEAE

Combretum apiculatum subsp *apiculatum*

Kurzweg, S. 100, 477, 487

2426CB, 2426DD

Combretum hereroense

Kurzweg, S. 46, 424, 476, 486

2426CB, 2426DD, 2526BB, 2426DD

Combretum molle

Kurzweg, S. 316; Magodiello, M.M. 5, 58

2426DC

Combretum zeyheri

Kurzweg, S. 371, 509, 522

2426DC, 2426DD

Terminalia sericea

Magodiolo, M.M. 6

2426DC

COMMELINACEAE

Commelina africana var *barberae*

Kurzweg, S. 219

2426DA

Commelina africana var *krebsiana*

Kurzweg, S. 162, 248, 332; Magodiolo, M.M. 18

2426CB, 2426DA, 2426DC

Commelina africana var *lancispatha*

Kurzweg, S. 365

2426DC

Commelina benghalensis

Kurzweg, S. 122, 364

2426CB, 2426DC

Commelina eckloniana

Kurzweg, S. 49

2426AD

Commelina livingstonii

Kurzweg, S. 356

2526BA

Cyanotis speciosa

Kurzweg, S. 373, 524, 540

2426DC, 2426DD

CONVOLVULACEAE

Evolvulus alsinoides

Kurzweg, S. 2

2426CB

Ipomoea bolusiana

Kurzweg, S. 158

2426CB

Ipomoea optica

Kurzweg, S. 331

2426DC

Ipomoea coscinosperma

Kurzweg, S. 109
2426CB
Ipomoea crassipes
Kurzweg, S. 402, 414
2526BB
Ipomoea gracilispala
Kurzweg, S. 94, 202, 280, 468, 478,
2426CB, 2426DD
Ipomoea magnusiana
Kurzweg, S. 281, 289, 369, 391
2426BB, 2426CB, 2426DC
Ipomoea obscura var *obscura*
Kurzweg, S. 54, 240, 336, 493, 506
2426AD, 2426DA, 2426DC, 2426DD, 2526BB
Ipomoea papilio
Kurzweg, S. 222, 232, 235, 297
2426DA
Merremia palmata
Kurzweg, S. 121
2426CB
Merremia verecunda
Kurzweg, S. 133

2426CB
Seddera suffruticosa
Kurzweg, S. 326, 481, 517
2426DC, 2426DD

CRASSULACEAE

Kalanchoe lanceolata
Magodiolo, M.M. 27
2426DC
Kalanchoe paniculata
Kurzweg, S. 149, 343
2426CB, 2426DC
Kalanchoe paniculata
Kurzweg, S. 343
2426DC
Kalanchoe rotundifolia
Kurzweg, S. 224
2426DA

CUCURBITACEAE

Coccinia sessilifolia

Kurzweg, S. 393

2426BB

Cucumis hirsutus

Kurzweg, S. 249, 264

2426CB, 2426DA

Kedrostis hirtella

Magodiello, M.M. 66

2626DC

Momordica balsamina

Kurzweg, S. 123

2426CB

CYPERACEAE

Bulbostylis burchellii

Kurzweg, S. 510, 523; Magodiello, M.M. 1

2426DC, 2426DD

Cyperus marlothii

Kurzweg, S. 334

2426DC

DRACAENACEAE

Sansevieria aethiopica

Magodiello, M.M. 68

2626DC

EUPHORBIACEAE

Acalypha villicaulis

Kurzweg, S. 324

2426DC

Bridelia mollis

Kurzweg, S. 366; Magodiello, M.M. 40

2426DC

Croton gratissimus var *gratissimus*

Kurzweg, S. 315; Magodiello, M.M. 3

2426DC

Euphorbia clavarioides var *truncata*

Magodiello, M.M. 31

2426DC

Euphorbia heterophylla

Kurzweg, S. 512

2426DD

Jatropha zeyheri

Kurzweg, S. 37, 238, 263, 408

2426CB, 2426DA, 2526BB

Tragia rupestris

Magodiello, M.M. 39

2626DC

FABACEAE

Acacia burkei

Magodiello, M.M. 60

2426DC

Acacia caffra

Kurzweg, S. 417

2526BB

Acacia hebeclada subsp *hebeclada*

Kurzweg, S. 350; Magodiello, M.M. 67

2426DC

Acacia karroo

Kurzweg, S. 420

2526BB

Alistilus bechuanicus

Kurzweg, S. 313; Magodiello, M.M. 37

2426DC

Bauhinia petersiana subsp *petersiana*

Kurzweg, S. 343

2426DC

Burkea africana

Magodiello, M.M. 34

2426DC

Crotalaria lotoides

Kurzweg, S. 355, 501, 514

2426DC, 2426DD, 2526BB

Dichrostachys cinerea subsp *africana* var *africana*

Magodiello, M.M. 53

2426DC

Dichrostachys cinerea subsp *cinerea*

Kurzweg, S. 13, 61, 357

2426CB, 2426AD, 2526BA

Elephantorrhiza burkei

Magodiello, M.M. 2

2426DC

Indigofera circinnata

Magodiello, M.M. 20, 25

2426DC

Indigofera cryptantha var *cryptantha*

Kurzweg, S. 239a, 239b

2426DA

Otoptera burchellii

Magodiello, M.M. 24

2426DC

Peltophorum africanum

Kurzweg, S. 314; Magodiello, M.M. 52

2426DC

Senna italica subsp *arachoides*

Kurzweg, S. 494; Magodiello, M.M. 70

2426DC, 2526BB

Stylosanthes fruticosa

Kurzweg, S. 34, 190, 379

2426CB, 2426DA, 2426DC

GERANIACEAE

Monsonia angustifolia

Kurzweg, S. 10, 60, 193; Magodiello, M.M. 28

2426AD, 2426CB, 2426DA, 2426DC

HYACINTHACEAE

Drimia altissima

Magodiello, M.M. 22

2426DC

Eucomis autumnalis subsp *clavata*

Magodiello, M.M. 23

246DC

Ledebouria graminifolia

Magodiello, M.M. 65

2426DC

Ornithogalum tenuifolium subsp *tenuifolium*

Magodiello, M.M. 21

2426DC

IRIDACEAE

Gladiolus permeabilis subsp *edulis*

Kurzweg, S. 415, 529

2426DD, 2526BB

LAMIACEAE

Becium obovatum subsp *obovatum* var *obovatum*

Magodiello, M.M. 8

2426DC

Leonotis randii

Kurzweg, S. 526; Magodiello, M.M. 16

2426DC, 2426DD

Leucas capensis

Kurzweg, S. 352, 502

2426DC, 2526BB

Leucas neuflizeana

Kurzweg, S. 129

2426CB

Leucas sexdentata

Kurzweg, S. 36, 208

2426CB, 2426DA

Salvia reflexa

Kurzweg, S. 103, 192, 360

2426CB, 2426DA, 2526BA

Tetradenia brevispicata

Kurzweg, S. 370

2426DC

Teucrium trifidum

Kurzweg, S. 433

2426DD

Vitex zeyheri

Kurzweg, S. 96, 171

2426CB, 2426DA

MALPIGHIACEAE

Sphedamnocarpus pruriens subsp *pruriens*

Kurzweg, S. 9, 80

2426CB

MALVACEAE

Abutilon galpinii

Kurzweg, S. 419

2526BB

Abutilon piloso-cinereum

Kurzweg, S. 2

2426CB
Abutilon pycnodon
Kurzweg, S. 340
2426DC
Hibiscus cannabinus
Kurzweg, S. 114, 262
2426CB
Hibiscus engleri
Kurzweg, S. 287
2426CB
Hibiscus pusillus
Kurzweg, S. 16, 246, 251, 435
2426CB, 2426DA, 2426DD
Hibiscus trionum
Kurzweg, S. 51, 113
2426AD, 2426CB
Malvastrum coromandelianum
Kurzweg, S. 106
2426CB
Pavonia burchellii
Kurzweg, S. 14, 256, 425
2426CB, 2526BB

Sida chrysantha
Kurzweg, S. 469
2426DD
Sida cordifolia
Kurzweg, S. 67
2426CB
Sida dregei
Kurzweg, S. 5b, 19
2426AD, 2426CB
Sida rhombifolia subsp *rhombifolia*
Kurzweg, S. 485
2426DD
Sida spinosa var *spinosa*
Kurzweg, S. 12a, 159
2426CB

MOLLUGINACEAE

Corbichonia decumbens
Kurzweg, S. 50
2426AD
Limeum viscosum subsp *viscosum* var *viscosum*

Kurzweg, S. 376

2426DC

Mollugo nudicaulis

Kurzweg, S. 47

2426AD

MORACEAE

Ficus abutilifolia

Kurzweg, S. 320; Magodiolo, M.M. 63

2426DC

Ficus glumosa

Magodiolo, M.M. 62

2426DC

NYCTAGINACEAE

Boerhavia diffusa var *diffusa*

Kurzweg, S. 460, 470

2426DD

Boerhavia erecta

Kurzweg, S. 497

2526BB

Commicarpus pentandrus

Kurzweg, S. 117, 236, 400

2426BB, 2426CB, 2426DA

OLACACEAE

Ximena americana var *microphylla*

Kurzweg, S. 66

2426CB

OLEACEAE

Jasminum breviflorum

Kurzweg, S. 45, 56, 351

2426AD, 2426CB, 2426DC

Menodora heterophylla var *australis*

Kurzweg, S. 404

2546BB

OROBANCHACEAE

Striga asiatica

Kurzweg, S. 1, 367

2426CB, 2426DC

Striga bilabiata subsp *bilabiata*

Kurzweg, S. 405

2526BB

Striga forbesii

Kurzweg, S. 457; La Grange, M. 570

2427CC

Striga gesnerioides

Kurzweg, S. 97, 283

2426CB

PASSIFLORACEAE

Adenia digitata

Kurzweg, S. 193

2426DA

PEDALIACEAE

Ceratotheca triloba

Kurzweg, S. 285

2426CB

Dicerocaryum eriocarpum

Kurzweg, S. 35, 392; Magodiello, M.M. 29

2426BB, 2426CB, 2426DC

Harpagophytum zeyheri subsp *zeyheri*

Kurzweg, S. 153, 426; Magodiello, M.M. 74

2426CB, 2426DC, 2526BB

PLUMBAGINACEAE

Plumbago zeylanica

Magodiello, M.M. 17, 69

2426DC

POACEAE

Cynodon dactylon

Magodiello, M.M. 30

2426DC

Enneapogon cenchroides

Kurzweg, S. 368

2426DC

Enneapogon pretoriensis

Kurzweg, S. 389

2526BB

Eragrostis cilianensis

Kurzweg, S. 111

2426CB

Pogonarthria squarrosa

Kurzweg, S. 89

2426CB

Sorghum versicolor

Kurzweg, S. 112

2426CB

Themeda triandra

Magodiolo, M.M. 35

2426DC

PORTULACACEAE

Talinum caffrum

Magodiolo, M.M. 36

2426DC

PTERIDACEAE

Pellaea calomelanos var *calomelanos*

Magodiolo, M.M. 51

2426DC

PTERIDACEAE

Pellaea calomelanos var *calomelanos*

Kurzweg, S. 71

2426CB

PUNICACEAE

Punica granatum

Magodiolo, M.M. 19

2426DC

RANUNCULACEAE

Clematis brachiata

Kurzweg, S. 191, 209

2426DA

RHAMNACEAE

Ziziphus mucronata subsp *mucronata*

Kurzweg, S. 221, 230, 360, 496; Magodiolo, M.M. 55
2426DA, 2426DC, 2526BA, 2526BB

RHAMNACEAE

Ziziphus zeyheriana

Kurzweg, S. 386
2526BB

RUBIACEAE

Spermacoce senensis

Kurzweg, S. 39
2426CB

Vangueria infausta subsp *infausta*

Magodiolo, M.M. 57
2426DC

SAPINDACEAE

Pappea capensis

Magodiolo, M.M. 59
2426DC

SAPOTACEAE

Mimusops zeyheri

Magodiolo, M.M. 73
2426DC

SCROPHULARIACEAE

Aptosimum elongatum

Kurzweg, S. 26
2426CB

SCROPHULARIACEAE

Aptosimum elongatum

Kurzweg, S. 160, 388
2426CB, 2526BB

Aptosimum indivisum

Kurzweg, S. 201

2426DA

Aptosimum lineare var *lineare*

Kurzweg, S. 76, 344, 464

2426CB, 2426DC, 2426DD

Jamesbrittenia burkeana

Kurzweg, S. 180

2426DA

SOLANACEAE

Solanum panduriforme

Kurzweg, S. 7, 156, 157

2426CB

Withania somnifera

Kurzweg, S. 269, 428; Magodiolo, M.M. 13

2426DC, 2526BB

STERCULIACEAE

Hermannia floribunda

Magodiolo, M.M. 15

2426DC

Melhania prostrata

Kurzweg, S. 11, 98

2426CB

Waltheria indica

Kurzweg, S. 3, 175; Magodiolo, M.M. 4

2426CB, 2426DA, 2426DC

TILIACEAE

Corchorus asplenifolius

Kurzweg, S. 130, 357b, 413

2426CB, 2526BA, 2526BB

Grewia bicolor

Kurzweg, S. K423

2526BB

Grewia flava

Kurzweg, S. 135, 155; Magodiolo, M.M. 26, 33

2426CB, 2426DC

Grewia monticola

Kurzweg, S. 101

2426CB

Triumfetta rhomboidea var *rhomboidea*

Kurzweg, S. 317

2426DC

Triumfetta sonderi

Kurzweg, S. 181

2426DA

VELLOZIACEAE

Xerophyta humilis

Magodiello, M.M. 10

2426DC

Xerophyta retinervis

Kurzweg, S. 187

2426DA

VERBENACEAE

Chascanum hederaceum var *hederaceum*

Kurzweg, S. 4, 194, 258

2426AD, 2426CB, 2426DA

Chascanum pinnatifidum var *pinnatifidum*

Kurzweg, S. 28

2426CB

Lantana rugosa

Kurzweg, S. 17, 227, 304

2426CB, 2426DA, 2426DC

Lippia javanica

Kurzweg, S. 179, 466

2426DA, 2426DD

Lippia rehmannii

Kurzweg, S. 467

2426DD

Lippia scaberrima

Kurzweg, S. 93; Magodiello, M.M. 32

2426CB, 2426DC

VITACEAE

Rhoicissus tridentata subsp *cuneifolia*

Magodiello, M.M. 38

2426DC

ZYGOPHYLLACEAE

Tribulus terrestris

Kurzweg, S. 48

2426AD

b) Impala Platinum

ACANTHACEAE

Barleria galpinii

Kurzweg, S. 1133

2527CA

Barleria macrostegia

Kurzweg, S. 1075

2527CA

Barleria pretoriensis

Kurzweg, S. 686, 828, 914

2527CB

Blepharis integrifolia var *integrifolia*

Kurzweg, S. 1085

2527CB

Blepharis leendertziae

Kurzweg, S. 1094

2527CB

Blepharis subvolubilis

Kurzweg, S. 1149

2527AC

Crabbea hirsuta

Kurzweg, S. 668

2527CB

Hypoestes forskalii

Kurzweg, S. 606, 799

2527CB

Justicia flava

Kurzweg, S. 1084

2527CA

Ruellia cordata

Kurzweg, S. 815, 1147

2527AC, 2527CB

Thunbergia neglecta

Kurzweg, S. 608, 645, 680, 867

2527AD, 2527CB

AIZOACEAE

Zaleya pentandra

Kurzweg, S. 681, 1154

2527AC, 2527AD

Kurzweg, S. 935, 983

2527CA, 2527CB

Pupalia lappacea var *lappacea*

Kurzweg, S. 907

2527CB

AMARANTHACEAE

Achyranthes aspera var *aspera*

Kurzweg, S. 853, 974, 1187

2527AC, 2527CA, 2527CB

Achyropsis leptostachya

Kurzweg, S. 1151

2527AC

Amaranthus hybridus subsp *hybridus* var *erythrosthachys*

Kurzweg, S. 990, 1065

2527CA

Amaranthus thunbergii

Kurzweg, S. 956

2527CB

Gomphrena celosioides

Kurzweg, S. 625

2527CB

Kyphocarpa angustifolia

ANACARDIACEAE

Searsia lancea

Kurzweg, S. 1167

2527AC

Searsia pyroides subsp *pyroides*

Kurzweg, S. 1183

2527AC

APOCYNACEAE

Carissa bispinosa

Kurzweg, S. 1146

2527AC

Gomphocarpus fruticosus subsp *decipiens*

Kurzweg, S. 1009, 1073

2527CA

Huernia transvaalensis

Kurzweg, S. 629

2527CB

Orbea lutea subsp *lutea*

Kurzweg, S. 640

2527CB

Raphionacme galpinii

Kurzweg, S. 899

2527CB

Sarcostemma viminale subsp *viminale*

Kurzweg, S. 847

2527CB

ARALIACEAE

Cussonia paniculata subsp *sinuata*

Kurzweg, S. 813, 845

2527CB

ASPARAGACEAE

Asparagus laricinus

Kurzweg, S. 1060, 1064

2527AC

Asparagus setaceus

Kurzweg, S. 546

2527CB

Asparagus suaveolens

Kurzweg, S. 585

2527CB

Asparagus virgatus

Kurzweg, S. 888

2527CB

ASTERACEAE

Aster squamatus

Kurzweg, S. 1078, 1182

2527AC, 2527CA

Berkheya radula

Kurzweg, S. 1103

2527CB

Bidens pilosa

Kurzweg, S. 1141	2527CA, 2527CB
2527CA	<i>Felicia muricata</i> subsp <i>muricata</i>
<i>Cirsium vulgare</i>	Kurzweg, S. 918
Kurzweg, S. 942	2527CB
2527CB	<i>Felicia muricata</i> subsp <i>strictifolia</i>
<i>Conyza bonariensis</i>	Kurzweg, S. 653, 800, 971
Kurzweg, S. 592	2527CA, 2527CB
2527CB	<i>Flaveria bidentis</i>
<i>Conyza canadensis</i>	Kurzweg, S. 945, 978
Kurzweg, S. 1080	2527CA, 2527CB
2527CA	<i>Geigeria elongata</i>
<i>Conyza scabrada</i>	Kurzweg, S. 612, 822
Kurzweg, S. 1181	2527CB
2527AC	<i>Helichrysum nudifolium</i> var <i>nudifolium</i>
<i>Crepis hypochaeridea</i>	Kurzweg, S. 796
Kurzweg, S. 850	2527CB
2527CB	<i>Helichrysum setosum</i>
<i>Dicoma gerrardii</i>	Kurzweg, S. 580, 900
Kurzweg, S. 992, 1022	2527CB
2527CA	<i>Helichrysum witbergense</i>
<i>Dicoma macrocephala</i>	Kurzweg, S. 1006
Kurzweg, S. 655, 993	2527CA

<i>Hirpicium bechuanense</i>	Kurzweg, S. 1148, 1160 2527AC	Kurzweg, S. 881, 1125 2527CA, 2527CB
<i>Hypoestes forskaolii</i>	Kurzweg, S. 882 2527CB	<i>Pseudognaphalium oligandrum</i> Kurzweg, S. 591 2527CB
<i>Lactuca inermis</i>	Kurzweg, S. 1021, 1072 2527CA	<i>Pseudognaphalium undulatum</i> Kurzweg, S. 931 2527CB
<i>Laggera decurrens</i>	Kurzweg, S. 1069 2527CA	<i>Psiadia punctulata</i> Kurzweg, S. 1140 2527CA
<i>Nidorella anomala</i>	Kurzweg, S. 952 2527CB	<i>Pulicaria scabra</i> Kurzweg, S. 1180 2527AC
<i>Nidorella resedifolia</i> subsp <i>resedifolia</i>	Kurzweg, S. 649 2527CB	<i>Senecio inornatus</i> Kurzweg, S. 1177 2527AC
<i>Pegolettia senegalensis</i>	Kurzweg, S. 824 2527CB	<i>Senecio harveianus</i> Kurzweg, S. 985 2527CA
<i>Philyrophyllum schinzii</i>		<i>Senecio pleistocephalus</i> Kurzweg, S. 980, 1139

2527CA
Seriphium plumosum
Kurzweg, S. 987, 1004
2527CA
Sonchus oleraceus
Kurzweg, S. 1019
2527CA
Tarchonanthus camphoratus
Kurzweg, S. 1145
2527AC
Tarchonanthus parvicapitulatus
Kurzweg, S. 690, 913
2527CB
Vernonia fastigiata
Kurzweg, S. 1097
2527CB
Vernonia oligocephala
Kurzweg, S. 1123
2527CA
Vernonia poskeana subsp *botswanica*
Kurzweg, S. 904, 989, 1000

2527CA, 2527CB
Xanthium strumarium
Kurzweg, S. 1066
2527CA

AYTONIACEAE

Asterella sp.
Kurzweg, S. 795
2527CB

BORAGINACEAE

Heliotropium ovalifolium
Kurzweg, S. 1070
2527CA
Heliotropium strigosum
Kurzweg, S. 929
2527CB

CACTACEAE

Opuntia ficus-indica

Kurzweg, S. 868

2527CB

CAMPANULACEAE

Wahlenbergia undulata

Kurzweg, S. 1008

2527CA

CAPPARACEAE

Boscia foetida subsp *rehmanniana*

Kurzweg, S. 558

2527CB

Cleome monophylla

Kurzweg, S. 619

2527CB

Cleome rubella

Kurzweg, S. 905

2527CB

CARYOPHYLLACEAE

Pollichia campestris

Kurzweg, S. 970

2527CA

Polygala amatymbica

Kurzweg, S. 1110

2527CA

Polygala hottentotta

Kurzweg, S. 981

2527CA

Polygala sphenoptera var *sphenoptera*

Kurzweg, S. 1121

2527CA

CELASTRACEAE

Maytenus undata

Kurzweg, S. 602, 791, 941

2527AD, 2527CB

COMBRETACEAE

Combretum molle

Kurzweg, S. 547, 903

2527CB

Combretum zenkeri

Kurzweg, S. 962

2527CB

COMMELINACEAE

Commelina africana var *lancispatha*

Kurzweg, S. 805

2527CB

Commelina benghalensis

Kurzweg, S. 607, 869

2527CB

Commelina subulata

Kurzweg, S. 626

2527CB

Cyanotis speciosa

Kurzweg, S. 1091

2527CB

CONVOLVULACEAE

Evolvulus alsinoides

Kurzweg, S. 613

2527CB

Ipomoea bathycolpos

Kurzweg, S. 1130

2527CA

Ipomoea coscinosperma

Kurzweg, S. 1035

2527AC

Ipomoea dichroa

Kurzweg, S. 873, 997

2527CA, 2527CB

Ipomoea gracilispala

Kurzweg, S. 996

2527CA

Ipomoea magnusiana

Kurzweg, S. 908, 928

2527CB

Ipomoea oblongata

Kurzweg, S. 1131

2527CA

Ipomoea papilio

Kurzweg, S. 1152

2527AC

Merremia palmata

Kurzweg, S. 930

2527CB

Seddera capensis

Kurzweg, S. 1087

2527CB

CRASSULACEAE

Kalanchoe neglecta

Kurzweg, S. 1093

2527CB

Kalanchoe paniculata

Kurzweg, S. 1137

2527CA

Kalanchoe rotundifolia

Kurzweg, S. 1052

2527AC

CUCURBITACEAE

Acanthosicyos naudinianus

Kurzweg, S. 601

2527CB

Cucumis anguria var *longaculeatus*

Kurzweg, S. 587, 627

2527CB

Cucumis myriocarpus subsp *myriocarpus*

Kurzweg, S. 1061

2527AC

Kedrostis hirtella

Kurzweg, S. 839

2527CB

Momordica boivinii

Kurzweg, S. 972

2527CA

Momordica cardiospermoides

Kurzweg, S. 939, 1014

2527CA, 2527CB

CYPERACEAE

Bulbostylis burchellii

Kurzweg, S. 986
2527CA
Cyperus brevis
Kurzweg, S. 1106
2527CB
Cyperus congestus
Kurzweg, S. 1158
2527CA
Cyperus marginatus
Kurzweg, S. 1104
2527CB
Cyperus marlothii
Kurzweg, S. 590
2527CB
Cyperus rupestris var *amnicola*
Kurzweg, S. 634
2527CB
Cyperus rupestris var *rupestris*
Kurzweg, S. 818
2527CB
Fimbristylis ferruginea
Kurzweg, S. 1168

2527AC

DRACAENACEAE

Sansevieria aethiopica

Kurzweg, S. 560, 837

2527CB

EBENACEAE

Diospyros lycioides subsp *lycioides*

Kurzweg, S. 559

2527CB

Euclea crispa subsp *crispa*

Kurzweg, S. 798, 1047

2527AC, 2527CB

EQUISETACEAE

Equisetum ramosissimum

Kurzweg, S. 1174

2527AC

EUPHORBIACEAE

Acalypha glabrata var *pilosa*

Kurzweg, S. 840

2527CB

Acalypha indica var *indica*

Kurzweg, S. 842

2527CB

Acalypha segetalis

Kurzweg, S. 624, 1002, 1136

2527CA, 2527CB

Acalypha villicaulis

Kurzweg, S. 678, 898

2527AD, 2527CB

Bridelia mollis

Kurzweg, S. 921, 1188

2527AC, 2527CB

Clutia pulchella var *pulchella*

Kurzweg, S. 578, 877

2527CB

Coccinia rehmannii

Kurzweg, S. 1071

2527CA

Croton gratissimus var *gratissimus*

Kurzweg, S. 556, 687

2527CB

Euphorbia griseola subsp *griseola*

Kurzweg, S. 897

2527CB

Euphorbia heterochroma subsp *heterochroma*

Kurzweg, S. 1173

2527AC

Euphorbia heterophylla

Kurzweg, S. 857

2527CB

Euphorbia inaequilatera var *inaequilatera*

Kurzweg, S. 884, 959

2527CB

Jatropha schlechteri subsp *setifera*

Kurzweg, S. 937

2527CB

Phyllanthus incurvus

Kurzweg, S. 833, 1090

2527CB

Phyllanthus maderaspatensis

Kurzweg, S. 1127

2527CA

Phyllanthus parvulus var *garipensis*

Kurzweg, S. 648

2527CB

Ricinus communis var *communis*

Kurzweg, S. 1067

2527CA

Tragia incisifolia

Kurzweg, S. 672, 1124

2527CA, 2527CB

Tragia okanyua

Kurzweg, S. 571

2527CB

FABACEAE

Acacia galpinii

Ayres, P. 1; Kurzweg, S. 927

2527CA, 2527CB

Acacia karroo

Ayres, P. 2; Kurzweg, S. 670

2527CA, 2527CB

Acacia nilotica subsp *kraussiana*

Ayres, P. 3; Kurzweg, S. 669

2527CA, 2527CB

Acacia polyacantha subsp *campylacantha*

Kurzweg, S. 854

2527CB

Acacia robusta subsp *robusta*

Ayres, P. 4; Kurzweg, S. 988

2527CA

Acacia sieberiana var *woodii*

Ayres, P. 6; Kurzweg, S. 926

2527CA, 2527CB

Acacia tortilis subsp *heteracantha*

Ayres, P. 7

2527CA

Chamaecrista mimosoides

Kurzweg, S. 617, 948

2527CB

Crotalaria distans subsp *distans*

Kurzweg, S. 933, 1020

2527CA, 2527CB
Elephantorrhiza elephantina
Kurzweg, S. 1041
2527AC
Faidherbia albida
Ayres, P. 5
2527CA
Indigofera circinnata
Kurzweg, S. 1109
2527CA
Indigofera hedyantha
Kurzweg, S. 671
2527CB
Indigofera holubii
Kurzweg, S. 950, 1027
2527CA, 2527CB
Indigofera leendertziae
Kurzweg, S. 832
2527CB
Indigofera lydenbergensis
Kurzweg, S. 1032
2527AC

Indigofera melanadenia
Kurzweg, S. 1099
2527CB
Indigofera verrucosa
Kurzweg, S. 1143
2527CA
Lotononis corymbosa
Kurzweg, S. 1120
2527CA
Mundulea sericea
Kurzweg, S. 860, 1013
2527CA, 2527CB
Neonotonia wightii
Kurzweg, S. 889
2527CB
Rhynchosia caribaea
Kurzweg, S. 646, 654
2527CB
Rhynchosia confusa
Kurzweg, S. 920
2527CB
Rhynchosia densiflora subsp *chrysadenia*

- Kurzweg, S. 836
2527CB
- Rhynchosia minima* var *minima*
Kurzweg, S. 1186
2527AC
- Rhynchosia minima* var *prostrata*
Kurzweg, S. 1185
2527AC
- Rhynchosia pentheri* var *pentheri*
Kurzweg, S. 674
2527CB
- Rhynchosia sordida*
Kurzweg, S. 797, 829
2527CB
- Rhynchosia totta* var *totta*
Kurzweg, S. 641, 801, 855, 885, 1068
2527CA, 2527CB
- Senna italica* subsp *arachoides*
Kurzweg, S. 932
2527CB
- Sesbania bispinosa* var *bispinosa*
Kurzweg, S. 963, 1156
2527CA, 2527CB
- Sesbania transvaalensis*
Kurzweg, S. 666, 809, 943
2527CB
- Tephrosia burchellii*
Kurzweg, S. 618
2527CB
- Tephrosia multijuga*
Kurzweg, S. 637, 650
2527CB
- Tephrosia purpurea* subsp *leptostachya* var *pubescens*
Kurzweg, S. 1016, 1030
2527CA
- Tephrosia rhodesica* var *evansii*
Kurzweg, S. 917
2527CB
- Tipuana tipu*
Kurzweg, S. 1059
2527AC
- Tylosema esculentum*
Kurzweg, S. 1050, 1179
2527AC

Zornia glochidiata

Kurzweg, S. 895

2527CB

GERANIACEAE

Monsonia angustifolia

Kurzweg, S. 623, 1134

2527CA, 2527CB

HYACINTHACEAE

Drimia calcarata

Kurzweg, S. 636

2527CB

Ledebouria luteola

Kurzweg, S. 826

2527CB

Ornithogalum abyssinicum

Kurzweg, S. 1171

2527AC

Ornithogalum flexuosum

Kurzweg, S. 793

2527CB

Ornithogalum glaucescens

Kurzweg, S. 878

2527CB

IRIDACEAE

Gladiolus elliotii

Kurzweg, S. 1037, 1166

2527CA, 2527AC

Gladiolus permeabilis subsp *edulis*

Kurzweg, S. 910

2527CB

Tritonia nelsonii

Kurzweg, S. 642

2527CB

JUNCACEAE

Juncus rigidus

Kurzweg, S. 1159

2527CA

LAMIACEAE

Aeollanthus buchnerianus

Kurzweg, S. 875

2527CB

Leonotis randii

Kurzweg, S. 586, 901, 919

2527CB

Leucas glabrata var *glabrata*

Kurzweg, S. 549, 595, 615

2527CB

Leucas martinicensis

Kurzweg, S. 835

2527CB

Ocimum gratissimum subsp *gratissimum* var *gratissimum*

Kurzweg, S. 912

2527CB

Ocimum labiatum

Kurzweg, S. 1036

2527AC

Salvia reflexa

Kurzweg, S. 588, 1010, 1031

2527AC, 2527CA, 2527CB

Salvia runcinata

Kurzweg, S. 968, 1063

2527AC, 2527CA

Tetradenia brevispicata

Kurzweg, S. 864, 870

2527CB

Teucrium trifidum

Kurzweg, S. 887

2527CB

Vitex zeyheri

Kurzweg, S. 792

2527AD

LORANTHACEAE

Tapinanthus oleifolius

Kurzweg, S. 979

2527CA

MALPIGHIACEAE

Sphedamnocarpus pruriens subsp *pruriens*

Kurzweg, S. 643

2527CB

MALVACEAE

Abutilon angulatum var *angulatum*

Kurzweg, S. 610

2527CB

Abutilon galpinii

Kurzweg, S. 597

2527CB

Abutilon piloso-cinereum

Kurzweg, S. 1155

2527CA

Abutilon pycnodon

Kurzweg, S. 551, 598

2527CB

Hibiscus calyphyllus

Kurzweg, S. 871

2527CB

Hibiscus engleri

Kurzweg, S. 621, 676, 909

2527AD, 2527CB

Hibiscus pusillus

Kurzweg, S. 572, 679, 811, 890

2527AD, 2527CB

Hibiscus sabdariffa

Kurzweg, S. 911

2527CB

Hibiscus subreniformis

Kurzweg, S. 563, 787, 803

2527AD, 2527CB

Hibiscus trionum

Kurzweg, S. 620

2527CB

Hibiscus vitifolius subsp *vulgaris*

Kurzweg, S. 593, 915

2527CB

Malvastrum coromandelianum

Kurzweg, S. 1175

2527AC

Sida alba

Kurzweg, S. 596

2527CB

Sida chrysantha

Kurzweg, S. 1079

2527CA

Sida dregei

Kurzweg, S. 1029

2527CA

Sida rhombifolia subsp *rhombifolia*

Kurzweg, S. 1023

2527CA

Sida spinosa var *spinosa*

Kurzweg, S. 589

2527CB

MELIACEAE

Turraea obtusifolia

Kurzweg, S. 684, 691, 806

2527CB

MOLLUGINACEAE

Corbichonia decumbens

Kurzweg, S. 1033, 1088

2527AC, 2527CB

Mollugo nudicaulis

Kurzweg, S. 564, 1001

2527CA, 2527CB

MORACEAE

Ficus abutilifolia

Kurzweg, S. 553, 790

2527AD, 2527CB

Ficus ingens var *ingens*

Kurzweg, S. 946

2527CB

Ficus natalensis subsp *graniticola*

Kurzweg, S. 688

2527CB

MYROTHAMNACEAE

Myrothamnus flabellifolius

Kurzweg, S. 567

2527CB

MYRSINACEAE

Myrsine pillansii

Kurzweg, S. 786

2527AD

NYCTAGINACEAE

Boerhavia erecta

Kurzweg, S. 677, 843

2527AD, 2527CB

Commicarpus pentandrus

Kurzweg, S. 995, 1034, 1039, 1048, 1144, 1172, 1178

2527AC, 2527CA

OLEACEAE

Jasminum breviflorum

Kurzweg, S. 896, 1051

2527AC, 2527CB

Menodora heterophylla var *australis*

Kurzweg, S. 1161

2527AC

ORCHIDACEAE

Bonatea speciosa var *antennifera*

Kurzweg, S. 880

2527CB

Eulophia streptopetala

Kurzweg, S. 574

2527CB

OROBANCHACEAE

Alectra orobanchoides

Kurzweg, S. 644

2527CB

Striga asiatica

Kurzweg, S. 1057

2527AC

Striga bilabiata subsp *bilabiata*

Kurzweg, S. 846, 861, 1129

2527CA, 2527CB

Striga elegans

Kurzweg, S. 1045

2527AC

Striga gesnerioides

Kurzweg, S. 1100, 1191

2527CB

Striga forbesii

Kurzweg, S. 675, 810

2527CB

OXALIDACEAE

Oxalis obliquifolia

Kurzweg, S. 582

2527CB

PASSIFLORACEAE

Adenia digitata

Kurzweg, S. 565, 600, 603, 812, 916

2527CB

PEDALIACEAE

Ceratotheca triloba

Kurzweg, S. 622

2527CB

Dicerocaryum eriocarpum

Kurzweg, S. 892, 1074

2527CA, 2527CB

Harpagophytum zeyheri subsp *zeyheri*

Kurzweg, S. 1054

2527AC

Sesamum triphyllum var *triphyllum*

Kurzweg, S. 689

2527CB

PLUMBAGINACEAE

Plumbago zeylanica

Kurzweg, S. 562

2527CB

POACEAE

Aristida bipartita

Kurzweg, S. 667

2527CB

Aristida junciformis subsp *junciformis*

Kurzweg, S. 575

2527CB

Bothriochloa bladhii

Kurzweg, S. 1169

2527AC

Bothriochloa insculpta

Kurzweg, S. 953

2527CB

Chloris gayana

Kurzweg, S. 965

2527CA

Cymbopogon pospischilii

Kurzweg, S. 583

2527CB

Dichanthium annulatum var *papillosum*

Kurzweg, S. 951

2527CB

Digitaria eriantha

Kurzweg, S. 967

2527CA

Enneapogon cenchroides

Kurzweg, S. 1018

2527CA

Eragrostis barbinodis

Kurzweg, S. 1089

2527CB

Eragrostis chloromelas

Kurzweg, S. 922

2527CB

Eragrostis heteromera

Kurzweg, S. 638

2527CB

Eragrostis micrantha

Kurzweg, S. 821

2527CB

Hyperthelia dissoluta

Kurzweg, S. 960

2527CB

Imperata cylindrica

Kurzweg, S. 982

2527CA

Microchloa caffra

Kurzweg, S. 819

2527CB

Pennisetum setaceum

Kurzweg, S. 823, 984

2527CA, 2527CB

Phragmites australis

Kurzweg, S. 998

2527CA

Pogonarthria squarrosa

Kurzweg, S. 966

2527CA

Setaria verticillata

Kurzweg, S. 605

2527CB

Sorghum versicolor

Kurzweg, S. 958

2527CB

Sporobolus festivus

Kurzweg, S. 635, 820

2527CB

Sporobolus nitens

Kurzweg, S. 1086

2527CB

Sporobolus pyramidalis

Kurzweg, S. 1157

2527CA

POLYGALACEAE

Polygala amatymbica

Kurzweg, S. 1114

2527CA

Polygala hottentotta

Kurzweg, S. 1005

2527CA

POLYGONACEAE

Persicaria hystricula

Kurzweg, S. 1077

2527CA

Rumex lanceolatus

Kurzweg, S. 999

2527CA

PORTULACACEAE

Portulaca kermesina

Kurzweg, S. 830, 1153

2527AC, 2527CB

Portulaca oleracea

Kurzweg, S. 975, 1017

2527CA

Portulaca quadrifida

Kurzweg, S. 632, 894, 1015

2527CA, 2527CB

Talinum caffrum

Kurzweg, S. 631

2527CB

PROTEACEAE

Faurea saligna

Kurzweg, S. 957

2527CB

PTERIDACEAE

Cheilanthes eckloniana

Kurzweg, S. 947

2527CB

Cheilanthes multifida

Kurzweg, S. 604

2527CB

Cheilanthes viridis var *viridis*

Kurzweg, S. 566, 611

2527CB

Pellaea calomelanos var *calomelanos*

Kurzweg, S. 584, 949

2527CB

RANUNCULACEAE

Clematis brachiata

Kurzweg, S. 576, 647, 808, 814, 961

2527CB

RHAMNACEAE

Helinus integrifolius

Kurzweg, S. 573, 794

2527CB

Ziziphus mucronata subsp *mucronata*

Kurzweg, S. 816, 848

2527CB

RICCIACEAE

Riccia albolimbata

Kurzweg, S. 994

2527CA

RUBIACEAE

Anthospermum rigidum subsp *pumilum*

Kurzweg, S. 955

2527CB

Kohautia caespitosa subsp *brachyloba*

Kurzweg, S. 1098, 1164

2527CA, 2527CB

Kohautia virgata

Kurzweg, S. 825, 1025

2527CA, 2527CB

Oldenlandia cephalotes

Kurzweg, S. 1190

2527AC

Oldenlandia herbacea var *flaccida*

Kurzweg, S. 902

2527CB

Pavetta eylesii

Kurzweg, S. 858, 940

2527CB

Pavetta zeyheri

Kurzweg, S. 1056

2527AC

Rubia horrida

Kurzweg, S. 1083, 1165

2527CA

SANTALACEAE

Osyris lanceolata

Kurzweg, S. 876

2527CB

Thesium hirsutum

Kurzweg, S. 934, 1132

2527CA, 2527CB

Thesium multiramulosum

Kurzweg, S. 1044

2527AC

Thesium transvaalense

Kurzweg, S. 1150

2527AC

SAPINDACEAE

Pappea capensis

Kurzweg, S. 1055

2527AC

SAPOTACEAE

Mimusops zeyheri

Kurzweg, S. 807

2527CB

SCROPHULARIACEAE

Aptosimum elongatum

Kurzweg, S. 1043

2527AC

Aptosimum indivisum

Kurzweg, S. 1095

2527CB

Craterostigma plantagineum

Kurzweg, S. 827

2527CB

Jamesbrittenia aurantiaca

Kurzweg, S. 1038, 1101

2527AC, 2527CB

Jamesbrittenia burkeana

Kurzweg, S. 804, 954

2527CB

Selago densiflora

Kurzweg, S. 1096, 1126

2527CA, 2527CB

SELAGINELLACEAE

Selaginella kraussiana

Kurzweg, S. 628

2527CB

SOLANACEAE

Nicotiana glauca

Kurzweg, S. 976, 1082

2527CA

Physalis viscosa

Kurzweg, S. 1003

2527CA

Solanum nigrum

Kurzweg, S. 944, 977

2527CA, 2527CB

Solanum panduriforme

Kurzweg, S. 609

2527CB

Solanum retroflexum

Kurzweg, S. 991

2527CA

Solanum tomentosum var *tomentosum*

Kurzweg, S. 550, 788, 865

2527AD, 2527CB

Withania somnifera

Kurzweg, S. 611, 683, 973

2527AD, 2527CA, 2527CB

STERCULIACEAE

Hemizygia canescens

Kurzweg, S. 906

2527CB

Hermannia boraginiflora

Kurzweg, S. 893

2527CB

Hermannia coccocarpa

Kurzweg, S. 1062, 1105, 1118, 1170

2527AC, 2527CA, 2527CB

Hermannia depressa

Kurzweg, S. 581, 1028, 1162

2527AC, 2527CA, 2527CB

Hermannia floribunda

Kurzweg, S. 554, 577, 863

2527CB

Hermannia modesta

Kurzweg, S. 874, 1163

2527CA, 2527CB

Hermannia quartiniana

Kurzweg, S. 938

2527CB

Melhania acuminata var *acuminata*

Kurzweg, S. 802

2527CB

Melhania prostrata

Kurzweg, S. 630, 834, 862

2527CB

TAMARICACEAE

Tamarix ramosissima

Kurzweg, S. 969

2527CA

THYMELAEACEAE

Gnidia capitata

Kurzweg, S. 1142

2527CA

TILIACEAE

Corchorus asplenifolius

Kurzweg, S. 856, 1135

2527CA, 2527CB

Corchorus schimperi

Kurzweg, S. 594, 844, 1026

2527CA, 2527CB

Corchorus trilocularis

Kurzweg, S. 673, 1102

2527CB

Grewia bicolor

Kurzweg, S. 852

2527CB

Triumfetta annua

Kurzweg, S. 599

2527CB

URTICACEAE

Pouzolzia mixta

Kurzweg, S. 555

2527CB

VELLOZIACEAE

Xerophyta retinervis

Kurzweg, S. 1058

2527AC

VERBENACEAE

Chascanum hederaceum var *hederaceum*

Kurzweg, S. 639, 851

2527CB

Chascanum pinnatifidum var *pinnatifidum*

Kurzweg, S. 685, 849, 1184

2527AC, 2527CB

Lantana rugosa

Kurzweg, S. 652

2527CB

Lippia scaberrima

Kurzweg, S. 682, 936, 1081, 1138

2527AD, 2527CA, 2527CB

Verbena bonariensis

Kurzweg, S. 1076

2527CA

Verbena brasiliensis

Kurzweg, S. 886

2527CB

VISCACEAE

Viscum rotundifolium

Kurzweg, S. 817, 831

2527CB

VITACEAE

Cissus quadrangularis var *pubescens*

Kurzweg, S. 838

2527CB

Cyphostemma hereroense

Kurzweg, S. 557, 1128

2527CA, 2527CB

Cyphostemma humile subsp *dolichopus*

Kurzweg, S. 841, 859

2527CB

Cyphostemma sulcatum

Kurzweg, S. 552, 561

2527CB

Cyphostemma woodii

Kurzweg, S. 789, 866

2527AD, 2527CB

Rhoicissus tridentata subsp *cuneifolia*

Kurzweg, S. 872, 964

2527CB

Tribulus terrestris

Kurzweg, S. 1024

2527CA

ZYGOPHYLLACEAE

BIBLIOGRAPHY

ABBITT, R.J.F., SCOTT, J.M. & WILCOVE, D.S. 2000. The geography of vulnerability: incorporating species geography and human development patterns into conservation planning. *Biological Conservation* 96: 169–175.

ACOCKS, J.P.H. 1953. Veld types of South Africa. *Memoirs of the Botanical Survey of South Africa* 28: 1–192.

AGIS (Agricultural Geo-Referenced Information System). 2010. AGISMap Atlas. <http://www.agis.agric.za> Date of access: 15. September 2010.

ALLABY, M. 2004. Savannah woodland. <http://www.encyclopedia.com/doc/1O14savannahwoodland.html>. Date of access: 11. February 2010.

ALEXANDER, D. 1996. Bioregionalism: the need for a firmer theoretical foundation. *Trumpeter* 13 (3): 1–7. <http://www.icaap.org/iuicode?6.13.3.4>. Date of access: 27. October 2010.

BALMFORD, A., GREEN, M.J.B. & MURRAY, M.G. 1996a. Using higher-taxon richness as a surrogate for species richness. I. Regional tests. *Proceedings: Biological Sciences* 263(1375): 1267–1274.

BALMFORD, A., JAYASURIYA, A.H.M. & GREEN, M.J.B. 1996b. Using higher-taxon richness as a surrogate for species richness. II. Local tests. *Proceedings: Biological Sciences* 263(1376): 1571–1575.

BALMFORD, A., MOORE, J. L., BROOKS, T., BURGESS, N., HANSEN, L. A., WILLIAMS, P. & RAHBEK, C. 2001. Conservation conflicts across Africa. *Science* 291:2616–2619.

BARNES, S.J. & MAIER, W.D. 2002. *Platinum-group element distributions in the Rustenburg Layered Suite of the Bushveld Complex, South Africa*. (In Cabri, L.J. (ed.) The geology, geochemistry, mineralogy and mineral beneficiation of platinum-group elements. Special Volume 54. Canadian Institute of Mining, Metallurgy and Petroleum. p. 431–458).

BGIS. 2007. Biodiversity GIS – Profile. <http://bgis.sanbi.org/profile.asp>. Date of access: 29. April 2010.

BIGIRIMANA, J., BOGAERT, J., DE CANNIERE, C.D., LEJOLY, J. & PARAMENTIER, I. 2011. Alien plant species dominate the vegetation in a city of Sub-Saharan Africa. *Landcape and Urban Planning* 100: 251–267.

BONN, A., RODRIGUES, A.S.L. & GASTON, K. 2002. Threatened and endemic species: Are they good indicators of patterns of biodiversity on a national scale? *Ecology Letters* 5: 733–741.

BOONZAAIER, W.B. & LOURENS, M. 2002. *Heritage Park Concept Plan*. 2nd Edition. Pilanesberg National Park Management Series for the North West Parks and Tourism Board. Contour Project Managers and Grant Thornton Kessel Feinstein, Rustenburg.

BREEDLOVE, G. & JORDAAN, F. (eds.) 2001. *Environmental Potential Atlas for South Africa*. Department of Environmental Affairs and Tourism, University of Pretoria & GIS Business Solutions, South Africa.

BROMILOW, C. 2001. *Problem plants of South Africa: a guide to the identification and control of more than 300 invasive plants and other weeds*. Briza Publications, Pretoria.

BROOKS, T., BALMFORD, A., BURGESS, N., FIELDSÅ, J., HANSEN, L.A., MOORE, J., RAHBEK, C. & WILLIAMS, P. 2001. Towards a blueprint for conservation in Africa. *Bioscience* 51(8): 613–624.

BROWN, L.R., BREDENKAMP, G.J. & VAN ROOYEN, N. 1997. Phytosociological synthesis of the vegetation of the Borakalalo Nature Reserve, North-West Province. *South African Journal of Botany* 63(5): 242–253.

BRUNCKHORST, D.J. 1995. Sustaining nature and society: a bioregional approach. *Inhabit* 3: 5–9.

BRUNCKHORST, D.J. & BRIDGEWATER, P. 1996. Identifying Core Reserve Networks in Coastal Bioregions: a Novel Implementation Framework for Coastal Marine Biosphere Reserves. Proceedings of 2nd UNESCO International Conference on Biosphere Reserves, Seville, Spain, 20-25 March 1995.

BURGER, D. (ed.) 2011. South Africa Yearbook 2010/2011. Department of Government Communication and Information System, South Africa.

http://www.gcis.gov.za/resource_centre/sa_info/yearbook/2010-11/chapter1.pdf Date of access: 12. May 2011.

BURGESS, N., D'AMICO HALES, J., UNDERWOOD, E., DINERSTEIN, E., OLSON, D., ITOUA, I., SCHIPPER, J., RICKETTS, T. & NEWMAN, K. 2004. *Terrestrial ecoregions of Africa and Madagascar: A conservation assessment*. World Wildlife Fund. Island Press, Washington, DC, United States.

BUTT, C.R.M. & ZEEGERS, H. 1992. Regolith exploration geochemistry in tropical and subtropical terrains. Handbook of exploration geochemistry, Volume 4. Elsevier Science Publishers B.V., Amsterdam, Netherlands. http://horizon.documentation.ird.fr/exl-doc/pleins_textes/pleins_textes_6/b_fdi_33-34/37577.pdf Date of access: 12. October 2010.

CARO, T.M. & O'DOHERTY, G. 1999. On the use of surrogate species in conservation biology. *Conservation Biology* 13(4): 805–814.

CATUNEANU, O. & ERIKSSON, P. 2002. Sequence stratigraphy of the Precambrian Rooihogte-Timeball Hill rift succession, Transvaal Basin, South Africa. *Sedimentary Geology* 147: 71–88.

CHONG, G.W. & STOHLGREN, T.J. 2007. Species-area curves indicate the importance of habitats' contributions to regional biodiversity. *Ecological Indicators* 7: 387–395.

CILLIERS, S.S., MÜLLER, N. & DREWES, E. 2004. Overview on urban nature conservation: situation in the western-grassland biome of South Africa. *Urban Forestry & Urban Greening* 3: 49–62.

CILLIERS, S.S., WILLIAMS, N.S.G. & BARNARD, F.J. 2008. Patterns of exotic plant invasion in fragmented urban and rural grassland across continents. *Landscape Ecology* 23: 1243–1256.

CHRIST, T.O., VEECH, J.A., GERING, J.C. & SUMMERVILLE, K.S. 2003. Partitioning Species Diversity across Landscapes and Regions: A Hierarchical Analysis of α , β and γ Diversity. *The American Naturalist* 162(6): 734–742.

- CLOVER, J. & ERIKSEN, S. 2009. The effects of land tenure change on sustainability: human security and environmental change in southern African savannas. *Environmental Science & Policy* 12(1): 53–70.
- COLE, M. 1996. *The Savannas: Biogeography and Geobotany*. Academic Press, London.
- COLWELL, R.K. & CODDINGTON, J.A. 1995. *Estimating biodiversity through extrapolation*. (In Hawksworth D.L. (ed.) *Biodiversity measurement and estimation*. Royal Society, Chapman & Hall, London.)
- CONSERVATION INTERNATIONAL. 2007. Hotspots defined.
http://www.biodiversityhotspots.org/xp/hotspots/hotspotsscience/Pages/hotspots_defined.aspx
 Date of access: 3. May 2010.
- COUNCIL FOR GEOSCIENCE. 2011. Summary of Economic Geology of Provinces: North West Province.
http://www.geoscience.org.za/index.php?option=com_content&task=view&id=165&Itemid=152 Date of access: 24. November 2011.
- COUSINS, C.A. 1959. The Bushveld Igneous Complex: The geology of South Africa's platinum resources. *Platinum Metals* 3(3): 94–99.
- COWLING, R.M., GIBBS RUSSELL, G.E., HOFFMANN, M.T. & HILTON-TAYLOR, C. 1989. Patterns of plant species diversity in southern Africa. (In Huntley, B.J. (ed.) *Biotic diversity in southern Africa: Concepts and conservation*. Oxford University Press, pp.19–50.)
- COWLING, R.M. & HILTON-TAYLOR, C. 1994. *Patterns of plant diversity and endemism in southern Africa: an overview*. (In Huntley, B.J. (ed.) *Botanical Diversity in Southern Africa*. National Botanical Institute, Pretoria. p.31–52.)
- COWLING, R.M. & HILTON-TAYLOR, C. 1997. *Phytogeography, flora and endemism*. (In Cowling, R.M., Richardson, D.M. & Pierce, S.M. (eds.) *Vegetation of Southern Africa*, Cambridge University, United Kingdom. p.43–61.)
- COWLING, R.M., PRESSEY, R.L., LOMBARD, A.T., DESMET, P.G. & ELLIS, A.G. 1999. From representation to persistence: requirements for a sustainable system of

conservation areas in the species-rich Mediterranean-climate desert of southern Africa.

Diversity and Distributions 5: 51–71.

COWLING, R.M., RICHARDSON, D.M. & PIERCE, S.M. 1997. *Vegetation of Southern Africa*. Cambridge University Press, United Kingdom.

COWLING, R.M. & WILHELM-RECHMANN, A. 2007. Four perspectives on conservation in Africa. *Oryx* 41(2): 135–139.

DARKOH, M.B.K. 2003. Regional perspectives on agriculture and biodiversity in the drylands of Africa. *Journal of Arid Environments* 54: 261–279.

DASMANN, R.F. 1973. *A system for defining and classifying natural regions for the purpose of conservation*. World Conservation Union, Switzerland.

DASMANN, R.F. 1974. *Biotic provinces of the world: further development of a system for defining and classifying natural regions for purposes of conservation*. World Conservation Union, Switzerland.

DAVIS, S.D., HEYWOOD, V.H. & HAMILTON, A.C. (eds.) 1994. *Centres of plant diversity: a guide and strategy for their conservation*. Volume 1: Europe, Africa, South West Asia and the Middle East. World Wide Fund for Nature (WWF) and The World Conservation Union (IUCN).

DAVIS, F.W., STOMS, D.M., ESTES, J.E., SCEPAN, J. & SOTT, J.M. 1990. An information systems approach to the preservation of biological diversity. *International Journal of Geographic Information Systems* 4: 55–78.

DE VILLIERS, B. & MANGOLD, S. 2002. Chapter 2: The biophysical environment. (In Walmsley, D., Walmsley, J., Mangold, S. & Kalule-Sabiti M. (eds.) North West Province state of the environment report. Directorate of Environment and Conservation Management, North West Department of Agriculture, Conservation and Environment, South Africa.) <http://www.nwpg.gov.za/soer/FullReport/bio-physical.html#a3> Date of access: 3. August 2010.

DE WIT, P.V. & BEKKER, R.P. 1990. Land systems map of the Republic of Botswana. Soil mapping & advisory services project. FAO, Ministry of Agriculture, Gaborone.

http://eusoils.jrc.ec.europa.eu/esdb_archive/EuDASM/africa/images/maps/download/afr_lsmrb.jpg Date of access: 10. February 2010.

DEL MORAL, R. 1980. On selecting indirect ordination methods. *Vegetatio* 42(1): 75–84.

DENGLER, J. 2009. A flexible multi-scale approach for standardized recording of plant species richness patterns. *Ecological Indicators* 9: 1169–1178.

DESMET, P. & COWLING, R. 2004. Using the species-area relationship to set baseline targets for conservation. *Ecology and Society* 9(2): 11.

DRIVER, A., COWLING, M. & MAZE, K. 2003. Planning for living landscapes—Perspective & lessons from South Africa. Botanical Society, Cape Town.

DU TOIT, A.L. 1954. *The geology of South Africa*. 3rd edition. Oliver and Boyd, London.

DUDLEY, N., HIGGINS-ZOGIB, L. & MANSOURIAN, S. (eds.) 2005. *Beyond belief: Linking faiths and protected areas to support biodiversity conservation*. World Wildlife Fund for Nature, Gland, Switzerland.

DUELLI, P. & OBRIST, M.K. 2003. Biodiversity indicators: the choice of values and measures. *Agriculture, Ecosystems and Environment* 98: 87–98.

DUFOUR, A., GADALLAH, F., WAGNER, H.H., GUISAN, A. & BUTTLER, A. 2006. Plant species richness and environmental heterogeneity in a mountain landscape: effects of variability and spatial configuration. *Ecography* 29(4): 573–584.

DWAF (Department of Water Affairs and Forestry). 2011. Sustainable Forestry: Protected Trees. <http://www2.dwaf.gov.za/webapp/SustainableProtectedTrees.aspx> Date of access: 31. May 2011.

EDWARDS, D. 1974. Survey to determine the adequacy of existing conserved areas in relation to vegetation types. A preliminary report. *Koedoe* 17: 2–37.

EDWARDS, P.J. & ABIVARDI, C. 1998. The value of biodiversity: Where ecology and economy blend. *Biological Conservation* 83(3): 239–246.

EDWARDS, D. & LEISTNER, O. A. 1971. A degree reference system for citing biological

records in Southern Africa. *Mitteilungen der Botanischen Staatssammlung München* 10: 501–509.

EILERTSEN, O., OKLAND, R., OKLAND, T. & PEDERSON, O. 1990. Data manipulation and gradient length estimation in DCA ordination. *Journal of Vegetation Science* 1(2): 261–270.

EKEN, G., BENNUN, L., BROOKS, T.M., DARWALL, W., FISHPOOL, L.D.C., FOSTER, M., KNOX, D., LANGHAMMER, P., MATIKU, P., RADFORD, E., SALAMAN, P., SECHREST, W., SMITH, M.L., SPECTOR, S. & TORDORFF, A. 2004. Key biodiversity areas as site conservation targets. *BioScience* 54(12): 1110–1118.

ELSTON, W.E. 2008. Proposed bushveld scenario: impact, mantle upwelling, meltdown, collapse. (In Conference on Large Meteorite Impacts and Planetary Evolution IV, 17.–21. August 2008, Vredefort Dome, South Africa). <http://www.lpi.usra.edu/meetings/lmi2008/pdf/3037.pdf> Date of access: 25. Juli 2010.

ELSTON, W.E. 2003. The Proterozoic Bushveld Complex, South Africa: plume, astrobleme or both? (In Penrose Conference Plume IV: Beyond the Plume Hypothesis, Hveragerdi, Iceland, 25.–29. August 2003). http://www.mantleplumes.org/Penrose/PenPDFAbstracts/Elston_Wolf_abs.pdf Date of access: 25. Juli 2010.

ENCYCLOPAEDIA BRITANNICA. 1995. Southern Africa: relief. http://www.uv.es/EBRIT/macro/macro_5005_94_1.html Date of access: 22.03.2012.

ENCYCLOPEDIA OF THE NATIONS. 2011. Africa. <http://www.nationsencyclopedia.com/economies/Africa/index.html> Date of access: 12. May 2011.

ERIKSSON, P.G., ALTERMAN, W., CATUNEANU, O. VAN DER MERWE, R. & BUMBY, A.J. 2001. Major influences on the evolution of the 2.67–2.1 Ga Transvaal basin, Kaapvaal craton. *Sedimentary Geology* 141–142: 205–231.

ERIKSEN, S.E.H. & WATSON, H.K. 2009. The dynamic context of southern African savannas: investigating emerging threats and opportunities to sustainability. *Environmental Science & Policy* 12: 5–22.

ESRI (Environmental Systems Research Institute). 2010. *ArcGIS Desktop 10*. Education Edition. ESRI, Redlands, California, USA.

FABRICIUS, C., KOCH, E. & MAGOME, H. 2001. Towards strengthening collaborative ecosystem management: lessons from environmental conflict and political change in southern Africa. *Journal of the Royal Society of New Zealand* 31(4): 831–844.

FAIRBANKS, D.H.K. 2000. Physio-climatic classification of South Africa's woodland biome. *Plant Ecology* 149(1): 71–89.

FAO (Food and Agriculture Organization of the United Nations). 2004. Drought impact mitigation and prevention in the Limpopo River Basin: a situation analysis. Land and Water Discussion Paper No. 4. Rome. http://www.sarpn.org.za/documents/d0001237/P1367_limpopo-2004_cover.pdf Date of access: 3. August 2010.

FAO (Food and Agriculture Organization of the United Nations). 2005. Fertilizer use by crop in South Africa. Land and Plant Nutrition Management Service, Land and Water Development Division, Rome. <ftp://ftp.fao.org/docrep/fao/008/y5998e/y5998e00.pdf> Date of access: 14. October 2010.

FERRIER, S. 2002. Mapping spatial pattern in biodiversity for regional conservation planning: where to from here? *Systematic Biology* 51(2): 331–363.

FJELDSÅ, J. & TUSHABE, H. 2005. *Complementarity of species distributions as a tool for prioritising conservation actions in Africa: testing the efficiency of using coarse-scale distribution data.* (In Huber, B.A., Sinclair, B.J. & Lampe, K. (eds.) African biodiversity: molecules, organisms, ecosystems. Springer Science & Business Media, New York. p.1–24.)

FOX, R. 2000. *The geography of South Africa in a changing world.* Oxford University Press Southern Africa, Cape Town.

FREEDMAN, B. 1995. *Environmental Ecology: The Ecological Effects of Pollution, Disturbance, and other Stresses.* 2nd edition. Academic Press, London.

FRIEDEL, M.H. 1988. The development of veld assessment in the northern Transvaal savanna II. Mixed bushveld. *Journal of the Grassland Society of southern Africa* 5: 55–63.

- FROST, P.G.H. 1987. The regional landscape: Nylsvley in perspective. *South African National Scientific Programmes Report No. 133*. Foundation for Research Development, Pretoria.
- FUGGLE, R. 2008. *The Evolution of EIA in South Africa and Recommendations for Improving its Efficiency and Effectiveness*. (In Ten Years of EIA in South Africa: Papers read at a Conference held at the Lord Charles Hotel in Somerset West, South Africa, from the 24.–25. November 2008.)
- FUNK, V.A. & RICHARDSON, K.S. 2002. Systematic data in biodiversity studies: use it or lose it. *Systematic Biology* 51(2): 303–316.
- GASTON, K.J. 2000. Biodiversity: higher taxon richness. *Progress in Physical Geography* 24(1): 117–127.
- GERMISHUIZEN, G. & MEYER, N.L. (eds) 2003. Plants of southern Africa: an annotated checklist. *Strelitzia* 14. National Botanical Institute, Pretoria.
- GEOSPATIAL COMMUNICATION NETWORK. 2010. Overview of GIS. <http://www.gisdevelopment.net/tutorials/tuman006pf.htm>. Date of access: 27. April 2010.
- GIBBS RUSSELL, G.E. 1987. Preliminary floristic analysis of the major biomes in southern Africa. *Bothalia* 17(2): 213–227.
- GIVEN, D.R. 1994. *Principles and practice of plant conservation*. Chapman & Hall, London.
- GOLDBLATT, P. 1978. An analysis of the Flora of Southern Africa: its characteristics, relationships, and origins. *Annals of the Missouri Botanical Garden* 65(2): 369–436.
- GOURMELON, F. 2006. Main roles of GIS in ecological studies on small protected islands. <http://www.pwrc.usgs.gov/resshow/howell/sieg/Products/products.html>. Date of access: 27. April 2010.
- GRAND, J., CUMMINGS, M.P., REBELO, T.G., RICKETTS, T.H. & NEEL, M.C. 2007. Biased data reduce efficiency and effectiveness of conservation reserve networks. *Ecology Letters* 10: 364–374.

- GRANTHAM, H.S., MOILANEN, A., WILSON, K.A., PRESSEY, R.L., REBELO, T.G. & POSSINGHAM, H.P. 2008. Diminishing return on investment for biodiversity data in conservation planning. *Conservation Letters* 1: 190–198.
- GRIVETTI, L.E. 1979. Kalahari agro-pastoral hunter-gatherers: the Tswana example. *Ecology of Food and Nutrition* 7: 235–256.
- GROVES, D.I. 2003. The Bushveld Complex: dynamic processes at all scales. Centre for Global Metallogeny. ftp://ftp.uwa.edu.au/pub/segs/4_BushveldWMC.ppt Date of access: 21. January 2010.
- HADLY, E.A. & MAURER, B.A. 2001. Spatial and temporal patterns of species diversity in montane mammal communities of western North America. *Evolutionary and Ecology Research* 3: 477–486.
- HAINES-YOUNG, R. 2009. Land use and biodiversity relationships. *Land Use Policy* 26: 178–186.
- HAMILTON, A.J. 2005. Species diversity or biodiversity? *Journal of Environmental Management* 75: 89–92.
- HARPER, J.L. & HAWKSWORTH, D.L. 1995. *Preface*. (In Hawksworth D.L. (ed.) Biodiversity measurement and estimation. Royal Society, Chapman & Hall, London.)
- HATTON, C.J. & SCHWEITZER, J.K. 1995. Evidence for synchronous extrusive and intrusive Bushveld magmatism. *Journal of South African Earth Sciences* 21: 579–594.
- HENDERSON, L. 2001. Amendments to legislation of declared weeds and invader plants in South Africa. Paper presented at the Joint Soils, Crops & Weeds Congress in January 2001. http://www.sanparks.org/parks/kruger/conservation/scientific/ff/alien_biota/policies/National%20legislation%20-%20CARA%201.pdf Date of access: 2. September 2009.
- HEPWORTH, J.V. & JONES, C.R. 1973. Geological map of Botswana. Director of Geological Survey and Mines with the authority of the Ministry of Commerce, Industry and Water Affairs, Gaborone. http://eusoils.jrc.ec.europa.eu/esdb_archive/EuDASM/africa/images/maps/download/afr_gmob.jpg Date of access: 28. June 2010.

- HERITAGE PARK. 2005. Heritage Park Homepage. www.heritage-park.co.za.
- HESS, G.R., BARTEL, R.A., LEIDNER, A.K., ROSENFELD, K.M., RUBINO, M.J., SNIDER, S.B. & RICKETTS, T.H. 2006. Effectiveness of biodiversity indicators varies with extent, grain and region. *Biological Conservation* 132: 448–45.
- HEYWOOD, V. H. & WATSON, W. T. (eds.) 1995. *Global Biodiversity Assessment*. United Nations Environment Programme (UNEP), Cambridge University Press, Cambridge.
- HUDAK, A.T. 1999. Rangeland mismanagement in South Africa: failure to apply ecological knowledge. *Human Ecology* 27(1): 55–78.
- HUGO, M.L., VILJOEN, A.T. & MEEUWIS, J.M. 1997. *The ecology of natural resource management: The quest for sustainable living*. A text for South African students. Kagiso Publishers, Pretoria.
- HUNTLEY, B.J. 1978. *Ecosystem conservation in southern Africa*. (In Werger, M.J.A. (ed.) *Biogeography and Ecology of Southern Africa*. Junk, The Hague, pp. 1333-1384.)
- IMPALA PLATINUM LIMITED. 2009. Corporate responsibility: Environmental performance. <http://www.implats.co.za/reports/2009/SD/environmental.htm> Date of access: 4. November 2010.
- IMPALA PLATINUM LIMITED. 2010a. Fact Sheet. http://www.implats.co.za/implats/downloads/2010/fact%20sheets/Implats%20FS_NOV2010.pdf Date of access: 12. October 2010.
- IMPALA PLATINUM LIMITED. 2010b. Mineral resources and mineral reserves – Annual Report. http://www.implats.co.za/implats/downloads/2010/investor%20media/implats_mineral_resource_statement2010.pdf Date of access: 4. November 2010.
- IMPALA PLATINUM LIMITED. 2011a. Impala Platinum. <http://www.implats.co.za/implats/Impala-platinum.asp> Date of access: 21. November 2011.

- IMPALA PLATINUM LIMITED. 2011b. Resources and reserves.
<http://www.implats.co.za/implats/Resources-Reserves-Impala.asp> Date of access: 21. November 2011.
- IUCN. 2010. The IUCN Red List of Threatened Species, 2009 Update: Plant Facts. International Union for Conservation of Nature, Switzerland.
http://cmsdata.iucn.org/downloads/more_facts_on_plants.pdf. Date of access 24. Mar. 2010.
- IUSS WORKING GROUP. 2006. *World reference base for soil resources 2006*. 2nd edition. World Soil Resources Reports No. 103. FAO, Rome.
- IZIDINE, S.A., SIEBERT, S.J., VAN WYK, A.E. & ZOBOLO, A.M. 2008a. Taboo and political authority in conservation policy: A case study of the Licuáti Forest in Maputaland, Mozambique. *Journal for the study of Religion, Nature, and Culture* 2(3): 373–390.
- IZIDINE, S.A., SIEBERT, S.J., VAN WYK, A.E. & ZOBOLO, A.M. 2008b. Threats to Ronga custodianship of a sacred grove in southern Mozambique. *African Journal of Indigenous Knowledge Systems* 7(2): 182–197.
- JOHNSTON, C.A. 2001. *Geographic Information Systems in Ecology*. 2nd edition. Blackwell Science, United Kingdom.
- JOHNSON, M.R., ANHAEUSSER, C.R. & THOMAS, R.J. (eds.) 2006. *The geology of South Africa*. Geological Society of South Africa & Council for Geoscience, Johannesburg.
- JÜRGENS, N. 1998. *Aspects of botanical diversity in Southern African arid regions – an outline of concepts and results*. (In Barthlott, W. & Winiger, M. (eds.) *Biodiversity – a challenge for development research and policy*. Springer, New York.)
- KENT, M. & COKER, P. 1992. *Vegetation description and analysis: A practical approach*. John Wiley & Sons Ltd., London.
- KERR, J.T. 1997. Species richness, Endemism, and the choice of areas for conservation. *Conservation Biology* 11(5): 1094–1100.

KERSHAW, M., MACE, G.M. & WILLIAMS, P.H. 1995. Threatened status, rarity, and diversity as alternative selection measures for protected areas: A test using Afrotropical antelopes. *Conservation Biology* 9(2): 324–334.

KESSEL, S.R. & WHITTAKER, R.H. 1976. Comparison of three ordination techniques. *Vegetatio* 32(1): 21–29.

KHAN, F. 2000. Environmentalism in South Africa: A socio-political perspective. <http://digitalcommons.macalester.edu/cgi/viewcontent.cgi?article=1192&context=macintl>
Date of access: 7. July 2009.

KINNAIRD, J.A. 2005. The Bushveld Large Igneous Province. Large Igneous Provinces Commission, International Association of Volcanology and Chemistry of the Earth's Interior. <http://www.largeigneousprovinces.org/Downloads/BushveldLIP.pdf> Date of access: 21. August 2010.

KNIGHT, A.T., COWLING, R.M., ROUGET, M., BALMFORD, A., LOMBARD, A.T. & CAMPBELL, B.M. 2008. Knowing but not doing: Selecting priority conservation areas and the research-implementation gap. *Conservation Biology* 22(3): 610–617.

KRENKEL, E. 1957. *Geologie und Bodenschätze Afrikas*. 2. Auflage. Akademische Verlagsgesellschaft Geest & Portig, Leipzig.

KURZWEG, S. 2008. *Floristic survey of the expansion area of the proposed Heritage Park in North-West Province*. B.Sc. Honours thesis, North West University, Potchefstroom, South Africa.

LA GRANGE, M. 2010. *Vegetation classification of the proposed Heritage Park, North-West Province, South Africa*. M.Sc. dissertation, North-West University, Potchefstroom, South Africa.

LAMPRECHT, R. 2010. *A vegetation study on the area leased for mining purposes by Impala Platinum, Rustenburg South Africa*. M.Sc. dissertation, North-West University, Potchefstroom, South Africa.

LAMPRECHT, A.J.H., CILLIERS, S.S., GÖTZE, A.R. & DU TOIT, M.J. 2011. Phytosociological description of norite koppies in the Rustenburg area, North-West Province

and refinement of the distribution of the Norite Koppies Bushveld on the national vegetation classification map of South Africa. *Bothalia* 41(2): 327–339.

LANDRES, P., VERNER, J. & THOMAS, J. 1988. Ecological uses of vertebrate indicator species – a critique. *Conservation Biology* 2: 316–328.

LAWLER, J.J., WHITE, D., SIFNEOS, J.C. & MASTER, L.L. 2003. Rare species and the use of indicator groups for conservation planning. *Conservation Biology* 17(3): 875–882.

LEPS, J. & SMILAUER, P. 1999. *Multivariate analysis of ecological data*. University of South Bohemia, Ceske Budejovice, Czech Republic.

LIMPOPO RIVER AWARENESS KIT. 2010. The River Basin.

<http://www.limpoporak.com/en/river.aspx> Date of access: 20. October 2010.

LOMOLINO, M.V., RIDDLE, B.R. & BROWN, J.H. 2006. *Biogeography*. 3rd edition. Sinauer, USA. 847p.

LONDON, L.F. 2000. What is a bioregion? <http://www.ibiblio.org/InterGarden/links/start-392001/msg00549.html>. Date of access 27. Jan. 2010.

LONG, A. J. 1996. Establishing conservation priorities in South America using endemic birds. (In Harcourt, C. & Sayer, J. (eds.) *The conservation atlas of tropical forests: America*. Simon & Schuster, New York and London. pp.35–46.)

LOUBSER, A. 2010. Granite Mining – Years of Plunder condoned by DME.

<http://www.environment.co.za/poisoning-carcinogens-heavy-metals-mining/granite-mining-years-of-plunder-condoned-by-dme.html> Date of access: 2. November 2010.

LOVEJOY, T.E. 1980. Discontinuous wilderness: minimum areas for conservation. *Parks* 5(2): 13–15.

LOVEJOY, T.E. 1995. *The quantification of biodiversity: an esoteric quest or a vital component of sustainable development*. (In Hawksworth D.L. (eds.) *Biodiversity measurement and estimation*. Royal Society, Chapman & Hall, London.)

LOW, A.B. & REBELO, A.G. (eds.) 1996. *Vegetation of South Africa, Lesotho and Swaziland*. Department of Environmental Affairs and Tourism, Pretoria.

- MAGODIELO, M.M., SIEBERT, S.J., CILLIERS, S.S. & RETIEF, F.P. 2010. A critical assessment of plant resource utilization and park expansion in North-West. *South African Journal of Botany* 76(2): 412–413.
- MAKWAEBEBA, I.M. 2004. *The use of traditional knowledge in the South African National Parks Imbweu Youth Programme: planting a seed of environmental awareness.* (In Hamú, D., Auchincloss, E., Goldstein, W. (eds.) *Communicating Protected Areas.* Commission on Education and Communication, IUCN, Gland, Switzerland and Cambridge, UK. p. 115–123.)
- MARGULES, C.R. & PRESSEY, R.L. 2000. Systematic conservation planning. *Nature* 405: 243–253.
- MARGULES, C.R. & PRESSEY, R.L. 2002. Representing biodiversity: Data and procedures for identifying priority areas for conservation. *Journal of Biosciences* 27(4): 309–326.
- MATHEMA, A.B. 2005. *Monitoring of peat bog restoration.* M.Sc. thesis. International Institute for Geo-Information Science & Earth Observation, Enschede.
- MAY, R.M. 1995. *Conceptual aspects of the quantification of the extent of biological diversity.* (In Hawksworth, D.L. (eds.) *Biodiversity measurement and estimation.* Chapman & Hall, Royal Society, London.)
- MAZE, K., BROWNLIE, S. & DRIVER, A. 2005. Biodiversity offsets —a briefing paper for the mining industry. <http://www.icmm.com/document/25> Date of access: 17. April 2010.
- MCDONALD, R.I., KAREIVA, P. & FORMAN, R.T.T. 2008. The implications of current and future urbanization for global protected areas and biodiversity conservation. *Biological Conservation* 141(6): 1695–1703.
- MCGINLEY, M. (eds.) 2007. *Biodiversity in Africa.* (In Cleveland, C.J. (eds.) *Encyclopedia of Earth.* Environmental Information Coalition, National Council for Science and the Environment, Washington, DC. http://www.eoearth.org/article/Biodiversity_in_Africa Date of access: 24. March 2010.)
- MCLAUGHLIN, S.P. 1994. Floristic plant geography: the classification of floristic areas and floristic elements. *Progress in Physical Geography* 18(2): 185–208.

- MEADOWS, M.E. & HOFFMANN, M.T. 2002. The nature, extent and causes of land degradation in South Africa: legacy of the past, lessons for the future? *Area* 34(4): 428–437.
- MILLENNIUM ECOSYSTEM ASSESSMENT. 2005. *Ecosystems and Human Well-being: Biodiversity Synthesis*. World Resource Institute, Washington, DC.
- MILLER, J.R. & HOBBS, R.J. 2002. Conservation where people live and work. *Conservation Biology* 16(2): 330–337.
- MITCHELL, K. 2001. Species-area relation.
<http://math.hws.edu/~mitchell/SpeciesArea/speciesAreaText.html> Date of access: 12. October 2011.
- MOHLER, L. 1981. Effects of sample distribution along gradients on eigenvector ordination. *Vegetation* 45(3): 141–145.
- MONTGOMERY, C.A. 2002. Ranking the benefits of biodiversity: an exploration of relative values. *Journal of Environmental Management* 65: 313–326.
- MOORE, J.M., TSIKOS, H. & POLTEAU, S. 2001. Deconstructing the Transvaal Supergroup, South Africa: implications for Palaeoproterozoic palaeoclimate models. *Journal of African Earth Sciences* 33 (3–4): 437–444.
- MORRIS, J.W. & GLEN, H.F. 1978. PRECIS, the National Herbarium of South Africa (PRE) Computerized Information System. *Taxon* 27(5/6): 449–462.
- MUCINA, L. & RUTHERFORD, M.C. 2006. *The Vegetation of South Africa, Lesotho and Swaziland*. South African National Biodiversity Institute, Pretoria.
- MUCHAPONDWA, E., BIGGS, H., DRIVER, A., MATOSE, F., MOORE, K., MUNGATANA, E. & SCHEEPERS, K. 2009. Using economic incentives in bioregions in South Africa. http://www.econrsa.org/papers/w_papers/wp120.pdf Date of access: 27. January 2010.
- MYERS, N., MITTERMEIER, R.A., MITTERMEIER, C.G., DA FONSECA, G.A.B. & KENT, J. 2000. Biodiversity hotspots for conservation priorities. *Nature* 403: 853–858.

- NALDRETT, T., KINNAIRD, J., WILSON, A. & CHUNNETT, G. 2008. Concentration of PGE in the earth's crust with special reference to the Bushveld Complex. *Earth Science Frontiers* 15(5): 264–297.
- NELL, D. 2004. An historiographical overview of environmental history in South Africa. *History Compass* 2(1): 1–9.
- NORTH WEST PARKS & TOURISM BOARD. 2005. About Pilanesberg. http://www.pilanesberg-game-reserve.co.za/about_pilanesberg/index.html Date of access: 12. September 2010.
- NORTH WEST UNIVERSITY. 2008a. *Biodiversity Report of Impala Bafokeng mining complex according to the original EMPR and amendments from 1997 to 2005*. Department of Environmental Science & Development, North West University, Potchefstroom Campus.
- NORTH WEST UNIVERSITY. 2008b. *Proposal Impala Bafokeng Mining Complex*. Focus Area of Environmental Sciences and Management, North-West University, Potchefstroom Campus.
- NOSS, R.F. 1990. Indicators for monitoring biodiversity: a hierarchical approach. *Conservation Biology* 4: 355–364.
- NOSS, R.F. & COOPERRIDER, A.Y. 1994. *Saving Natures Legacy*. Island Press, Washington, DC.
- NOTTEN, A. 2002. *Encephalartos woodii* Sander. Kirstenbosch National Botanical Gardens. <http://www.plantzafrica.com/plantefg/encephwoodii.htm>. Date of access 24. Mar. 2010.
- NWDACE (North West Department of Agriculture, Conservation and Environment). 2008. North West Province Environment Outlook: a report on the state of the environment 2008. http://www.nwpg.gov.za/Agriculture/NW_ENVIRONMENTAL_OUTLOOK/index.asp Date of access: 5. January 2010.
- O'BRIEN, E.M. 1993. Climatic gradients in woody plant species richness: towards an explanation based on an analysis of Southern Africa's woody flora. *Journal of Biogeography* 20(2): 181–198.

- O'CONNELL, A.F., GILBERT, A.T. & HATFIELD, J.S. 2004. Contribution of natural history collection data to biodiversity assessment in National Parks. *Conservation Biology* 18(5): 1254–1261.
- OLDEN, J.D., POFF, N.L., DOUGLAS, M.R., DOUGLAS, M.E. & FAUSCH, K.D. 2004. Ecological and evolutionary consequences of biotic homogenization. *Trends in Ecology and Evolution* 19(1): 18–24.
- OLSON, D.M. & DINERSTEIN, E. 1998. The global 200: a representation approach to conserving the Earth's most biological valuable ecoregions. *Conservation Biology* 12: 502–515.
- OLSON, D.M. & DINERSTEIN, E. 2002. The global 200: priority ecoregions for global conservation. *Annals of the Missouri Botanical Garden* 89 (2): 199–224.
- OLSON, D.M., DINERSTEIN, E., WIKRAMANAYAKE, E.D., BURGESS, N.D., POWELL, G.V.N., UNDERWOOD, E.C., D'AMICO, J.A., ITOUA, I., STRAND, H.E., MORRISON, J.C., LOUCKS, J., ALLNUTT, T.F., RICKETTS, T.H., KURA, Y., LAMOREUX, J.F., WETTENGEL, W.W., HEDAO, P. & KASSEM, R. 2001. Terrestrial ecoregions of the world: a new map of life on earth. *BioScience* 51(11): 933–938.
- OMERNIK, J.M. 1987. Map supplement: ecoregions of the conterminous United states. *Annals of the association of American Geographers* 77(1): 118–125.
- OMERNIK, J.M. 2004. Perspectives on the nature and definition of ecological regions. *Environmental Management* 34: 27–38.
- PALMER, M. 2011. Ordination methods for ecologists. <http://ordination.okstate.edu> Date of access: 03. April 2011.
- PALMER, T. & AINSLIE, A. 2002. Country pasture/forage resource profiles: South Africa – part II. <http://www.fao.org/ag/AGP/agpc/doc/Counprof/southafrica/southafrica2.htm> Date of access: 29. March 2010.
- PARTRIDGE, T.C., WOOD, B.A. & DE MENOCAL, P.B. 1995b. *Influence of global climate change and regional uplift on large mammal evolution in East and Southern Africa.* (In Vrba, E.S., Denton, G.H. Burckle, L.H. & Partridge, T.C. (eds.) *Palaeoclimate and*

evolution with emphasis on human origins. Yale University Press, New Haven. pp. 331-655.)

PAUCHARD, A., AGUAYO, M., PENA, E. & URRUTIA, R. 2006. Multiple effects of urbanization on the biodiversity of developing countries: The case of fast-growing metropolitan area (Concepción, Chile). *Biological Conservation* 127(3): 272–281.

PAUSAS, J.G. & AUSTIN, M.P. 2001. Patterns of plant species richness in relation to different environments: an appraisal. *Journal of Vegetation Science* 12(2): 153–166.

PAUSAS, J.G., CARRERAS, J., FERRÉ, A. & FONT, X. 2003. Coarse-scale plant species richness in relation to environmental heterogeneity. *Journal of Vegetation Science* 14(5): 661–668.

PEARSON, D.L. 1995. *Selecting indicator taxa for the quantitative assessment of biodiversity.* (In Hawksworth D.L. (eds.) Biodiversity measurement and estimation. Royal Society, Chapman & Hall, London.)

PEEL, M.J.S., GROSSMANN, D. & VAN ROOYEN, N. 1991. Determinants of herbaceous plant species composition on a number of ranches in the north-western Transvaal. *Journal of the Grassland Society of southern Africa* 8: 99–102.

PERRITT, S. & ROBERTS, M. 2007. Flexural-slip structures in the Bushveld Complex, South Africa? *Journal of Structural Geology* 29: 1422–1429.

PHILLIPS, L. 1973. The agricultural and related development of the Tugela Basin and its influent surrounds. A study in subtropical Africa. Volume 19. Natal Town and Regional Planning Commission, Pietermaritzburg.

PHUA, M. & MINOWA, M. 2005. A GIS-based multi-criteria decision making approach to forest conservation planning at a landscape scale: a case study in the Kinabalu Area, Sabah, Malaysia. *Landscape and Urban Planning* 71: 207–222.

PIDWIRNY, M. 2006. *Characteristics of the Earth's Terrestrial Biomes.* (In Fundamentals of Physical Geography. 2nd Edition.

<http://www.physicalgeography.net/fundamentals/9k.html> Date of access: 29. Jan. 2010.)

PIERCE, S.M., COWLING, R.M., KNIGHT, A.T., LOMBARD, A.T., ROUGET, M. & WOLF, T. 2005. Systematic conservation planning for land-use planning: Interpretation for implementation. *Biological Conservation* 125: 441–458.

PILANESBERG SAFARIS & TOURS. 2010. The park.
http://www.pilanesbergsafaris.com/pilanesberg_park.php Date of access: 12. September 2010.

PIMENTEL, D., MCNAIR, S., JANECKA, J., WIGHTMAN, J., SIMMONDS, C., O'CONNELL, C., WONG, E., RUSSEL, L., ZERN, J, AQUINO, T. & TSOMONDO, T. 2001. Economic and environmental threats of alien plant, animal, and microbe invasions. *Agriculture, Ecosystems and Environment* 84: 1–20.

PLANTLIFE INTERNATIONAL. 2004. Identifying and protecting the world's most important most important plant areas. Plantlife International, UK.

PONTARP, M. 2011. Species-area relationship. Blog run by the Lund University.
<http://equation-of-the-month.blogspot.com/2011/06/species-area-relationship.html> Date of access: 13. October 2011.

PORTER, T.M. 2006. Bushveld 2006: Tour summary & ore deposit description.
<http://www.portergeo.com.au/tours/bushveld2006/bushveld2006deposits.asp> Date of access: 6. October 2010.

POSA. 2010. Plants of Southern Africa: an online checklist.
<http://posa.sanbi.org/searchspp.php>

PRESSEY, R.L. & TAFFS, K.H. 2001. Scheduling conservation action in production landscapes: priority areas in western New South Wales defined by irreplaceability and vulnerability to vegetation loss. *Biological Conservation* 100: 355–376.

PROTEA ATLAS PROJECT. 2010. Red Data Lists of southern African Plants.
<http://protea.worldonline.co.za/reddatasa.htm> Data of access 24. Mar. 2010.

RAAL, P.A. & BURNS, M.E.R. 1996. Mapping conservation importance rating of the South African coastal vegetation as an aid to development planning. *Landscape & Urban Planning* 34: 389–400.

- REBELO, A.G., HOLMES, P.M., DORSE, C. & WOOD, J. 2011. Impacts of urbanization in a biodiversity hotspot: Conservation challenges in Metropolitan Cape Town. *South African Journal of Botany* 77(1): 20–35.
- REDDY, S. & DÁVLOS, M. 2003. Geographical sampling bias and its implications for conservation priorities in Africa. *Journal of Biogeography* 30: 1719–1727.
- REID, W.V. 1998. Biodiversity hotspots. *Tree* 13(7): 275–280.
- RENSBURG, L. 2005. Research Proposal: Sustainable Integrated Development Framework for Heritage Park. Department of Environmental Science and Development, North West University, Potchefstroom.
- REYERS, W.V. 1998. Biodiversity hotspots. *Tree* 13(7): 275–280.
- REYERS, B. 2001. *A multicritical assessment of regional sustainability options in the Northern Province, South Africa*. PhD thesis. University of Pretoria.
<http://upetd.up.ac.za/thesis/available/etd-05292006-155514/> Date of access: 15. April 2009.
- REYERS, B. 2004. Incorporating anthropogenic threats into evaluations of regional biodiversity and prioritisation of conservation areas in the Limpopo Province, South Africa. *Biological Conservation* 118: 521–531.
- REYERS, B., FAIRBANKS, D.H.K., VAN JAARSVELD, A.S. & THOMPSON, M. 2001. Priority areas for the conservation of South African vegetation: a coarse-filter approach. *Diversity and Distributions* 7: 79–95.
- REYERS, B., ROUGET, M., JONAS, Z., COWLING, R.M., DRIVER, A., MAZE, K. & DESMET, P. 2007. Developing products for conservation decision-making: lessons from a spatial biodiversity assessment for South Africa. *Diversity and Distributions* 13(5): 608–619.
- RICKETTS, T. & IMHOFF, M. 2003. Biodiversity, urban areas, and agriculture: locating priority ecoregions for conservation. *Conservation Ecology* 8(2): 1.
- ROBERTSON, M.P. & BARKER, N.P. 2006. A technique for evaluating species richness maps generated from collections data. *South African Journal of Science* 102: 77–84.

- RODRIGUES, A.S.L., AKÇAKAYA, H.R., ANDELMAN, S.J., BAKARR, M.I., BOITANI, L., BROOKS, T.M., CHANSON, J.S., FISHPOOL, L.D.C., DA FONSECA, G.A.B., GASTON, K.J., HOFFMANN, M., MARQUET, P.A., PILGRIM, J.D., PRESSEY, R.L., SCHIPPER, J., SECHREST, W., STUART, S.N., UNDERHILL, L.G., WALLER, R.W., WATTS, M.E.J. & YAN, X. 2004a. Global gap analysis: Priority regions for expanding the global protected-area network. *BioScience* 54: 1092-1100.
- ROE, D. & HOLLANDS, M. 2004. Protected areas: how much is enough? *Congress Parks Magazine* 14(2): 42–44. 2003 Durban World Parks Congress, South Africa.
- ROSENZWEIG, M.L. 1995. *Species diversity in space and time*. Cambridge University Press, Cambridge.
- ROUTLEDGE, R.D. 1977. On Whittaker's components of diversity. *Ecology* 58(5): 1120–1127.
- ROWE-ROWE, D.T. & TAYLOR, P.J. 1996. Distribution patterns of terrestrial mammals in KwaZulu-Natal. *South African Journal of Zoology* 31(3): 131-144.
- RUTHERFORD, M.C. 1997. *Categorization of biomes*. (In Cowling, R.M., Richardson, D.M. & Pierce, S.M. (eds.) *Vegetation of Southern Africa*. Cambridge University Press, United Kingdom. pp. 91–98.)
- RUTHERFORD, M.C., MUCINA, L. & POWRIE, L.W. 2006. *Biomes and Bioregions of Southern Africa*. (In *The vegetation of South Africa, Lesotho and Swaziland*. *Strelizia* 19. South African National Biodiversity Institute, Pretoria. pp. 31–51.)
- RUTHERFORD, M.C. & WESTFALL, R.H. 1986. Biomes of Southern Africa: an objective categorisation. *Memoirs of the Botanical Survey of South Africa* 54:1–98. Botanical Research Institute, Department of Agricultural and Water Supply, Pretoria.
- SÆTERSDAL, M., GJERDE, I., BLOM, H.H., IHLEN, P.G., MYRSETH, E.W., POMMERESCHE, R., SKARTVEIT, J., SOLHØY, T. & AAS, O. 2003. Vascular plants as a surrogate species group in complementary site selection for bryophytes, macrolichens, spiders, carabids, staphylinids, snails, and wood living polypore fungi in a northern forest. *Biological Conservation* 115: 21–31.

- SALEM, B.B. 2003. Application of GIS to biodiversity monitoring. *Journal of Arid Environments* 54: 91–114.
- SANBI. 2009. South African National Biodiversity Institute. www.sanbi.org.za.
- SARDC (Southern African Research and Documentation Centre). 2002. Limpopo River Basin Fact Sheet 1. <http://www.sardc.net/imercsa/limpopo/pdf/Limpopo1.pdf> Date of access: 20. October 2010.
- SCHLÜTER, T. 2008. *Geological atlas of Africa: with notes on stratigraphy, tectonics, economic geology, geohazards, geosites and geoscientific education of each country*. 2nd edition. Springer, Berlin.
- SCHULZE, E., THERON, G.K. & VAN HOVEN, W. 1994. The vegetation and identification of management units of the Imberbe Game Lodge in the mixed bushveld of the north-western Transvaal. *South African Journal of Botany* 60(2): 85–93.
- SECRETARIAT OF THE CONVENTION ON BIOLOGICAL DIVERSITY. 2000. Sustaining Life on Earth: How the Convention on Biological Diversity promotes nature and human well-being. <http://www.cbd.int/convention/guide/> Date of access: 23. March 2010.
- SHARAM, G. 2002. Savanna plant ecology. Serengeti National Park's Official Site. http://www.serengeti.org/download/Plant_Ecology.pdf Date of access: 11. February 2010.
- SIEBERT, S.J., VAN WYK, A.E. & BREDENKAMP, G.J. 2001. Endemism in the flora of ultramafic areas of Sekhukhuneland, South Africa. *South African Journal of Science* 97: 529–532.
- SOBERÓN, J. & PETERSON, A.T. 2004. Biodiversity informatics: managing and applying primary biodiversity data. *Philosophical Transactions of the Royal Society London* 359: 689–698.
- SOIL CLASSIFICATION WORKING GROUP. 1991. *Soil Classification —A Taxonomic System for South Africa*. ARC-Institute for Soil, Climate and Water, Pretoria.

SOLBRIG, O.T. 1996. The diversity of the savanna ecosystems. (*In Solbrig, O.T., Medina, E., & Silva, J.F. (eds.) Biodiversity and savanna ecosystem processes: A global perspective. Ecological Studies, Vol. 121. Springer Verlag, Berlin, p.1–29).*

SOLBRIG, O.T., MEDINA, E. & SILVA, J.F. 1996. *Biodiversity and savanna ecosystem processes: A global perspective. Ecological Studies, Vol. 121. Springer Verlag, Berlin.*

SOUTH AFRICA. 1997. White Paper on the Conservation and Sustainable Use of South Africa's Biological Diversity. Government Gazette Notice 1095 of 1997. Department of Environmental Affairs and Tourism (DEAT).

<http://www.environment.gov.za/PolLeg/WhitePapers/Biodiversity/Contents.htm> Date of access: 15. Feb. 2010.

SOUTH AFRICA. 1999. Sustainability of Terrestrial Ecosystems. National State of the Environment Report —South Africa. Department of Environmental Affairs and Tourism (DEAT). <http://www.environment.gov.za/soer/nsoer/issues/land/refer.htm> Date of access: 30. March 2010.

SOUTH AFRICA. 2005a. A level I river ecoregion classification system for South Africa, Lesotho and Swaziland. Department of Water Affairs and Forestry (DWAF). http://www.dwaf.gov.za/iwqs/gis_data/ecoregions/LEVEL_I_ECOREGIONSsigned_small2.pdf Date of access: 19. Jan. 2010.

SOUTH AFRICA. 2005b. *South Africa: Country Study 2005. National Biodiversity Strategy & Action Plan.* Department of Environmental Affairs and Tourism (DEAT).

SOUTH AFRICA. 2010. *Groot Marico —History.* <http://www.grootmarico.com/history.php> Date of access: 20. October 2010.

SOUTH AFRICA. 2011. Reports: Study Reports – Study of agricultural industry in the Limpopo Province. Department of Agriculture, Limpopo Provincial Government. http://www.lda.gov.za/downloads/downloads_reports/Forestry%20and%20Wild%20life.pdf Date of access: 17. September 2011.

SOUTH AFRICA. 2011. Mining and Quarrying. Website of the Department of Transport, Roads and Community Safety, North-West Province.

http://www.nwpg.gov.za/transport/NWFTD/nw/industries/mining_quarrying/index_xml.html

Date of access: 24. November 2011.

SOUTH AFRICAN COMMISSION OF STRATIGRAPHY. 1980. Stratigraphy of South Africa. Part 1. (*In* Kent, L.E. Lithostratigraphy of the Republic of South Africa, South West Africa/Namibia, and the Republics of Bophuthatswana, Transkei and Venda: Handbook, Geological Survey of South Africa, 8.)

SOWMAN, M., FUGGLE, R. & PRESTON, G. 1995. A Review of the Evolution of Environmental Evaluation Procedures in South Africa. *Environmental Impact Assessment Review* 15: 45–67.

STALMANS, M. & DE WET, F. 2003. Soils and vegetation of the Madikwe and Pilanesberg expansion areas in the Heritage Park, North West Province. Rustenburg: International conservation services.

STEENKAMP, Y., VAN WYK, A.E., SMITH, G.F. & STEYN, H. 2005. Floristic endemism in southern Africa: A numerical classification at generic level. *Biologiske Skrifter* 55: 253–271.

SWINGLAND, I.R. 2001. Biodiversity, definition of. (*In* Levin, S.A. (eds.) Encyclopedia of biodiversity, Volume 1. Academic Press, San Diego. p.377–391.)

TAINTON, N.M. 1999. *Veld management in South Africa*. University of Natal Press, Pietermaritzburg, South Africa.

TAKHTAJAN, A. 1986. *Floristic regions of the world*. University of California Press, Berkeley, USA.

TER BRAAK, C.J.F. & PRENTICE, I.C. 1988. A theory of gradient analysis. *Advances in Ecological Research*, Vol. 18, p. 271–317.

TER BRAAK, C.J.F. & SMILAUER, P. 2002. *CANOCO Reference Manual and CanoDraw for Windows User's Guide: Software for Canonical Community Ordination (version 4.5)*. Microcomputer Power, Ithaca NY, USA.

- THERON, G.K. 1973. *'n ekologiese studie van die plantegroei van die Loskopdamnatuurreservaat*. Unpublished. D.Sc. Thesis, University of Pretoria.
- THULLER W., MIDGLEY, G.F., ROUGET, M. & COWLING, M. 2006. Predicting patterns of plant species richness in megadiverse South Africa. *Ecography* 29: 733–744.
- UDVARDY, M.D.F. 1975. *A classification of the biogeographical Provinces of the world*. IUCN Occasional Paper No. 18. International Union for Conservation of Nature and Natural Resources, Morges, Switzerland.
- UNEP (UNITED NATIONS ENVIRONMENT PROGRAMME). 2002. Africa Environment Outlook: past, present and future perspectives. <http://www.unep.org/dewa/africa/publications/aeo-1/139.htm> Date of access: 16. April 2010.
- UNITED NATIONS. 1992. Convention on Biological Diversity. <http://www.cbd.int/doc/legal/cbd-en.pdf> Date of access: 16. March 2010.
- VAN JAARVELD, A.S., FREITAG, S., CHOWN, S.L., MULLER, C., KOCH, S., HULL, H., BELLAMY, C., KRÜGER, M., ENRÖDY-YOUNGA, S., MANSELL, M.W. & SCHOLZ, C.H. 1998. Biodiversity Assessment and conservation strategies. *Science* 279(5359): 2106–2108.
- VAN DER MEULEN, F. 1978. Progress with vegetation studies in the Sourish Mixed Bushveld of the western Transvaal. *Bothalia* 12(3): 531–536.
- VAN DER MEULEN, F. 1979. Plant sociology of the western Transvaal Bushveld, South Africa. *Dissertationes Botanicae*, Band 49. J.Cramer, Vaduz.
- VAN DER MEULEN, F. & WESTFALL, R.H. 1979. A vegetation map of the western Transvaal Bushveld. *Bothalia* 12(4): 731–735.
- VAN STADEN, P.J. & BREDENKAMP, G.J. 2006. A floristic analysis of forest and thicket vegetation of the Marakele National Park. *Koedoe* 49(1): 15–32.
- VAN VUUREN, D.P., SALA, O.E. & PEREIRA, H.M. 2006. The future of vascular plant diversity under four global scenarios. *Ecology and Society* 11(2): 25. <http://www.ecologyandsociety.org/vol11/iss2/art25/> Date of access: 7. May 2010.

VAN WILGEN, B.W., RICHARDSON, D.M., LE MAITRE, D.C., MARAIS, C. & MAGADLELA, D. 2001. The economic consequences of alien plant invasions: examples of impacts and approaches to sustainable management in South Africa. *Environment, Development and Sustainability* 3: 145–168.

VAN WILGEN, B.W., REYERS, B., LE MAITRE, D.C., RICHARDSON, D.M. & SCHONEGEVEL, L. 2008. A biome-scale assessment of the impact of invasive plants on ecosystem services in South Africa. *Journal of Environmental Management* 89: 336–349.

VAN WYK, B. & GERICKE, N. 2000. *People's plants: a guide to useful plants of Southern Africa*. Briza Publications, Pretoria.

VAN WYK, A.E. & SMITH, G.F. 2001. *Regions of floristic endemism in southern Africa: a review with emphasis on succulents*. Umdaus Press, Hatfield, South Africa.

VAN WYK, B., VAN OUDTSHOORN, B. & GERICKE, N. 1997. *Medicinal plants of South Africa*. Briza Publications, Pretoria.

WALKER, P. & FAITH, D.P. 1993. *Diversity: a software package for sampling phylogenetic and environmental diversity*. Division of Wildlife and Ecology. Australia: CSIRO.

WATSON, H.K. & DLAMINI, T.B. 2000. Southern African Savannas: sustainable management of natural resources (soil, water, flora, & fauna) —a synthesis study of human impacts and enhancement of economic and social benefits.

<http://www.savannas.net/inco/udw.htm>. Date of access: 30. March 2010.

WERGER, M.J.A. 1978. *Biogeography of the Flora of Southern Africa*. 2 vols. Junk, The Hague.

WERGER, M.J.A. & COETZEE, B.J. 1978. The Sudano-Zambesian region. (In Werger, M.J.A. (ed.) *Biogeography and ecology of southern Africa*. Junk, The Hague. pp.301-462.)

WESSELS, K.J., REYERS, B., VAN JAARSVELD, A.S. & RUTHERFORD, M.C. 2003. Identification of potential conflict areas between land transformation and biodiversity conservation in north-eastern South Africa. *Agriculture, Ecosystems and Environment* 95: 157–178.

WESSELS, K.J., MATHIEU, R., ERSAMUS, B.F.N., ASNER, G.P., SMIT, I.P.J., AARDT, J.A.N., MAIN, R., FISHER, J., MARAIS, W., KENNEDY-BOWDOIN, T., KNAPP, D.E., EMERSON, R. & JACOBSON, J. 2011. Impact of communal land use and conservation on woody vegetation structure in the Lowveld savannas of South Africa. *Forest Ecology and Management* 261(1): 19–29.

WESSELS, K.J., REYERS, B., VAN JAARVELD, A.S. & RUTHERFORD, M.C. 2003. Identification of potential conflict areas between land transformation and biodiversity conservation in north-eastern South Africa. *Agriculture, Ecosystems and Environment* 95(1): 157–178.

WHITE, F. 1983. The vegetation of Africa: a descriptive memoir to accompany the UNESCO/AETFAT/UNSO vegetation map of Africa. UNESCO, Paris. *Natural Resources Research* 20: 1–356.

WHITE, D., MINOTTI, P.G., BARCZAK, M.J., SIFNEOS, J.C., FREEMARK, K.E., SANTELMANN, M.V., STEINITZ, C.F., KIESTER, A.R. & PRESTON, E.M. 1997. Assessing risk to biodiversity from future landscape change. *Conservation Biology* 11(2): 349–360.

WHITTAKER, R.H. 1972. Evolution and measurement of species diversity. *Taxon* 21(2/3): 213–251.

WILLIAMS, P.H. & GASTON, K.J. 1994. Measuring more of biodiversity: can higher-taxon richness predict wholesale species richness? *Biological Conservation* 67: 211–217.

WILSON, M.V. 1981. A statistical test of the accuracy and consistency of ordinations. *Ecology* 62(1): 8–12.

WILSON, K.A., WESTPHAL, M.I., POSSINGHAM, H.P. & ELITH, J. 2005. Sensitivity of conservation planning to different approaches to using predicted species distribution. *Biological Conservation* 122: 99–112.

WINTERBACH, R., BREDENKAMP, G.J., DEUTSCHLÄNDER, M.S. & MUCINA, L. 2000. Preliminary syntaxonomic scheme of vegetation classes for the Central Bushveld of South Africa. (In P.S. Whyte, L. Mucina, J.S. Leps & E. Van der Maarel (eds.), Proceedings of the 41st IAVS Symposium, Uppsala, Sweden, 26 July–1 August, 1998, pp. 123–127).

WOODS, J. & WATSON, H.K. 2005. The Southern African Savannas Network: sustainable management of natural resources (soil, water, flora and fauna).

<http://www.icsuscope.org/projects/complete/sas.htm>. Date of access: 30. March 2010.

WORLD WILDLIFE FUND & MCGINLEY, M. 2007. Southern Africa bushveld. (In Cleveland, C.J. (ed.) *Encyclopedia of Earth*. Environmental Information Coalition, National Council for Science and the Environment, Washington, D.C.).

http://www.eoearth.org/article/Southern_Africa_bushveld Date of access: 19. January 2009.

WWF. 2009. Delineation of ecoregions. <http://www.worldwildlife.org/science/ecoregion/delineation.html>. Date of access: 21. January 2010.

WYNBERG, R. 2002. A decade of biodiversity conservation and use in South Africa: tracking progress from Rio Earth Summit to the Johannesburg World Summit on sustainable development. *South African Journal of Science* 98: 233–243.

YOUNG, M. D. 1992. *Sustainable investment and resource use: equity, environmental integrity and economic efficiency*. Parthenon Press, Carnforth and Unesco, Paris.