



**Invasive alien
flora and fauna in
South Africa:
expertise and bibliography**

by

Charles F. Musil & Ian A.W. Macdonald



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SANBI Biodiversity Series

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foreword

The Global Strategy on Invasive Alien Species prepared by the Global Invasive Species Programme highlighted ten elements that need to be addressed in our efforts to reduce the global impact of invasive species. Building of both research and management capacity are two of these elements. This inventory is an excellent baseline from which to begin addressing the development of capacity in both these areas within South Africa.

South Africa is regarded as an African if not a world leader in the management of established invasive species. Programmes such as *Working for Water* have won numerous accolades for its approach to dealing with the threat of invasive woody plants and job creation. Currently, bio-control in South Africa is well resourced and produces excellent work and numerous scientific publications. Needless to say many of the experts and much of the scientific literature in South Africa is focused on these two areas.

The inventory highlights the lack of expertise in the following:

- Prevention of the introduction of new invasive species.
- Specific genera of invasive species e.g. *Populus* and *Prosopis* species.
- Invasive species in particular biomes e.g. arid biomes.

This inventory will have served its overarching purpose if academic institutions, particularly those with specific interest in invasive species research and management, are able to motivate financial support to fill the gaps in our knowledge and train skilled people to address these. The problem of a shrinking scientific community is not specific to South Africa yet the wealth of knowledge must not be lost as a result of lack of foresight in research planning.

South Africa leads Programme Area 3 of the New Partnership for African Development environmental initiative. This focuses on invasive species in Africa. The inventory of expertise and bibliography is being expanded to southern Africa under the Regional Biodiversity Support Programme. It should be expanded to cover the whole continent so that it provides a resource for research and management within Africa.

As this inventory was funded by the Regional Biodiversity Support Programme it does not address the threat of invasive species to agriculture. If we are to convince politicians in Africa of the need to spend more on research, prevention of introduction and management of invasive species then I believe we need to show the threat they pose to food security. Maybe this calls for a whole inventory of its own.

This inventory will be useful to both researchers and managers alike. The bibliography of over 3 000 publications is an excellent resource. The list of experts will need to be maintained and regularly updated to have an ongoing use and this should be the responsibility of an organisation such as the South African National Biodiversity Institute.

Denis Rangi
SA expertise IAS

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1. Introduction

There is general recognition that serious ecological, economic and social consequences result from the invasion of natural ecosystems by foreign biological organisms (Perrings *et al.* 2000; McNeely *et al.* 2001), these often designated as alien invasive species (AIS). Conservative estimates indicate that the global costs of alien invasive species impacts on natural ecosystems exceed the total economic output of the entire African continent (Pimentel 2002), with such impacts predicted to intensify in the near future due to global climate change (Mooney & Hobbs 2000). To minimise these impacts, it is necessary to integrate the best available scientific management policies, strategies and methodologies (Preston *et al.* 2000; Wittenberg & Cock 2001).

Two recent reviews (Macdonald 2004a, b) have indicated that South Africa, which has for several decades been at the forefront of scientific endeavour involving alien invasive species impacts, is at serious risk of losing its scientific capacity in this unique and important field of ecosystem management. The reasons are a recent reduction in the numbers of newly trained experts, many of whom do not have access to the considerable knowledge bank that has accumulated in this field over the last 150 years, the retained knowledge mostly apportioned among existing experts, many of whom have retired or are close to retirement.

This inventory arose as an outcome of an earlier national survey sponsored by the Southern Africa Biodiversity Support Programme (RBSAP) aimed at determining user needs for databases, guidelines and other resources in the field of alien invasive species management and research (Macdonald 2004b). This survey concluded that one of the most useful steps that could be taken to address the declining capacity problem would be to create a network of experts to share accumulated knowledge with the aim of building intellectual and technical capacity to serve the future developmental needs of South Africa. Another suggested solution was to create a consolidated bibliography relevant to the management of alien invasive species impacts in South Africa. This inventory is an initial endeavour to meet these two recommendations.

2. Definitions and geographical coverage

In this inventory, the term 'alien' designates foreign biological organisms that are not indigenous to South Africa and its islands with the idiom 'invasive' referring to self-sustaining populations of alien biological organisms that have spread unaided from sites of initial introduction into natural ecosystems without active human assistance. A recent synthesis of the South African Plant Invader Atlas (SAPIA) database identified 117 major invaders, 80% of which are listed by regulations under the Conservation of Agricultural Resources Act (Nel *et al.* 2004). However, in this inventory information on 'weeds' or 'pests' of transformed ecosystems, e.g. agricultural and silvicultural, was excluded though the distinction between these and acknowledged alien invasive species was sometimes ambiguous. A typical example was introduced pathogens of foreign timber trees, which are themselves alien invasive species. Also excluded from the inventory were indigenous organisms that have invaded areas outside their natural distribution ranges in response to environmental or habitat changes whether natural or induced by human activities, as well as those classified as alien invasive species in other regions of the world. However, 'translocated' indigenous organisms which have moved into areas outside their natural distribution ranges as direct or indirect consequences of human activities, e.g. introduction of wild animals for game ranching/hunting and spread of self-sustaining fish populations into new river basins due to hydrological developments, were included in the inventory.

The area incorporated in this inventory included the Republic of South Africa, its continental and subantarctic islands, i.e. the Prince Edward Islands comprising Marion Island and Prince Edward Island. Literature referring to Lesotho and Swaziland was also included in the inventory only where considered highly relevant to the alien invasive species situation in South Africa.

3. Procedures applied in expertise audit

The basic method applied in petitioning alien invasive species experts for their inclusion in a national register was to e-mail them a questionnaire (Appendix 1) requesting its completion and referral to other known experts not included on an appended mailing list. A supplementary questionnaire was also incorporated during the first six months of the expertise audit eliciting opinions of recipients as to requisite conditions for inclusion in a national alien invasive species expertise register. The questionnaire survey was initiated in late April 2005 and was finally compiled in March 2006.

The original mailing list was assembled from a national list of alien invasive species experts presented in Zimmermann (2003), the RBSAP survey of user needs and guidelines for databases (Macdonald 2003b), a list developed by the task group that drafted the alien invasive species section of the National Biodiversity Strategy and Action Plan (Macdonald *et al.* 2004) and lists employed by task and reference groups that formulated regulations for alien invasive species sections of the new National Environmental Management Biodiversity Act (G. Preston pers. comm.). The compiled list comprised 386 persons implicated in issues involving alien invasive organisms. E-mail addresses of 358 of these persons were sourced of which 355 were successfully transmitted questionnaires. Regular reminders were transmitted to recipients of questionnaires until a response was received, either as a completed questionnaire or as a directive for their exclusion from the register of South African alien invasive species experts. Also, an open invitation for inclusion in a national alien invasive species expertise register was posted on the website of the South African National Biodiversity Institute (SANBI) in the latter half of 2005. As a consequence of all these actions, 203 responses were eventually received (57.2% success) which included 163 completed questionnaires and 40 directives from persons for their exclusion from the register as they did not consider themselves as experts on alien invasive organisms.

4. Procedures applied in literature audit

Literature on alien invasive fauna and flora pertinent to South Africa, which comprised a wide range of articles, i.e. scientific and popular manuscripts, books and book chapters, magazine and newspaper articles, pamphlets, congress, symposia and workshop proceedings, dissertations, academic and governmental and nongovernmental institutional and departmental reports etc., were obtained from a variety of sources.

Older hard copy sources of literature included earlier published bibliographies relating to alien invasive species in southern Africa, namely Zimmermann (2003) for all alien flora and fauna, Moran & Moran (1982) for alien invasive vascular plants, Bruton & Merron (1985) for alien invasive aquatic animals, Awad (2003) for alien invasive marine organisms and Brooke (1986) for alien invasive birds. Other hard-copy sources included summary papers published in the national synthesis volume on the Ecology of Biological Invasions (Macdonald *et al.* 1986), which comprised South Africa's contribution to the SCOPE Programme, and a comprehensive bibliography of scientific articles published by staff of the Plant Protection Research Institute over the period 1984 to 2005 provided by Dr H.G. Zimmermann. These bibliographies were digitised with an aid of a flatbed document scanner and edited.

More recent electronic sources of literature included digitised records obtained from the Harry Molteno and Mary Gunn Libraries of SANBI, the Working For Water Programme (WFW) and the Global Invasive Species Programme, the University of the Western Cape, the Weeds Research Division of the Plant Protection Institute, the Council for Scientific and Industrial Research (CSIR) and the IZIKO Museum

in Cape Town. Also obtained in electronic format were the personal bibliographies provided by 50 respondents in the expertise audit. Where subject and taxonomic keywords were not included with the literature references obtained from the various hard-copy and electronic sources, a standardised set, based on information reflected in the titles, were appended in upper case to each reference. Lists of all keywords applied in the bibliography classified under various administrative and research topics, life form and taxonomic groups are presented in Appendices 2 and 3.

5. Analysis of expertise register

5.1 Selection criteria

Most (70%) of the respondents in the expertise audit were of the opinion that neither rank, position, public standing, status among scientific peers, experience, publication record or academic qualifications should be conditional for admission to the national register. Therefore, inclusion of respondents in the register was based solely on current or past involvement in some socio-economic, management or research role on alien invasive organisms in South Africa. Details of 163 persons included in the register are presented in Section 7.

5.2 Gender, credentials and training institutions

There was clear gender preference towards trained males in the register both in the general Mr and Mrs/Ms categories where a 3:1 bias in favour of males (65 'Mr' compared with 19 'Mrs' or 'Ms') was evident, and also in the distinguished Prof. and Dr categories where a slightly larger 4:1 bias in favour of males (63 male compared with 16 female Professors and Doctors) was also apparent.

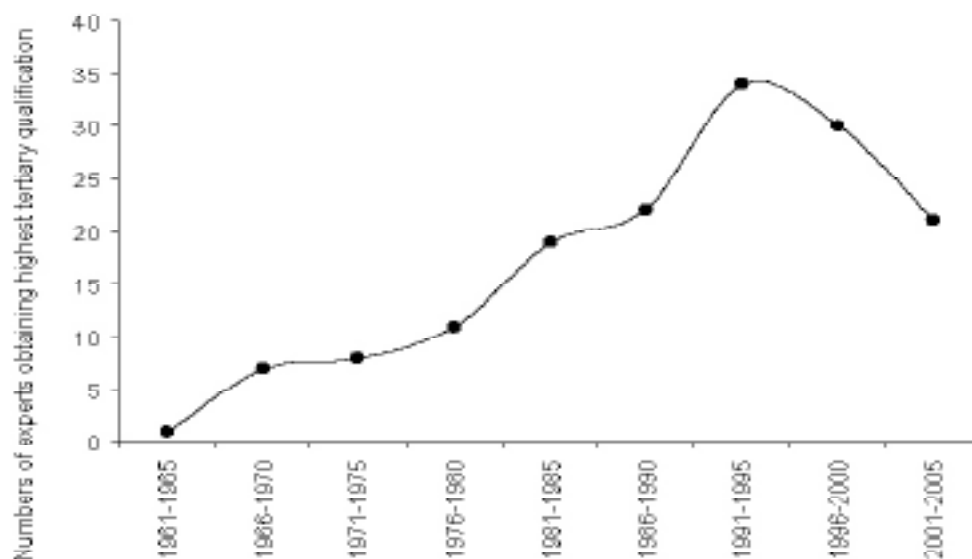


FIGURE 1.—Numbers of qualified experts on alien invasive organisms produced every 5 years since 1960.

Of the 164 listed experts, 48% possessed a Ph.D. or D.Sc., 24% an M.Sc., 7% a B.Sc. (Hons), 9% a B.Sc and 9% a diplomas/technical certificate in nature conservation, forestry or environmental sciences. The remaining 3% possessed a legal (LL.B. and LL.M.) or educational (HED) qualification. The rate at which the highest tertiary-level qualifications were conferred on experts in the register over the last 45 years is illustrated in Figure 1, the numbers of skilled experts produced reaching a peak between 1991 and 1995 with a subsequent decline apparent since 2000. Some 81% of the degrees and 9% of the diplomas/technical certificates conferred on experts originated from South African tertiary academic institutions, with only 10% originating from foreign (British, American,

Swedish and Zimbabwean) tertiary academic institutions. Among the South African degrees, 28% were conferred by the University of Cape Town, 12% by Rhodes University, 9% by Stellenbosch University, 8% by the University of KwaZulu-Natal, 7% by the Tshwane University of Technology (formerly Pretoria Technikon), 5% by the University of the Witwatersrand, 4% by the University of the Free State, 4% also by the Nelson Mandela Metropolitan University (formerly the University of Port Elizabeth), with the remaining 4% conferred by other South African universities. Among the South African diplomas/technical certificates, the vast majority (7%) were conferred by the Port Elizabeth Technikon (including the affiliated Saasveld School of Forestry), with the remaining 2% by other South African technikons.

5.3 Institutional and geographical deployment

Statistics on the institutional and geographical deployment of experts during the audit are presented in Tables 1 and 2.

Universities (Table 1) employed the largest number of experts (25%) followed by national parastatals (19%), governmental departments (15%) and provincial and municipal sectors (14%). The smallest number of experts were employed in museums and private corporations (4–5%). Among the universities (Table 1), the University of Cape Town employed the greatest number of experts, followed by Stellenbosch University. Noteworthy, is that increased capacity is likely to develop at Stellenbosch University in the near future with the recent establishment of the ‘Centre of Excellence in Invasion Biology (CIB)’ funded by the National Research Foundation and the Department of Science and Technology. Among the parastatals (Table 1), the Agricultural Research Council (ARC) employed the greatest number of experts, followed by SANBI, with the leading institutions in the governmental and provincial sectors employing experts being the Working for Water Programme (WFW), the South African National Parks (SANPARKS) and the Western Cape Nature Conservation Board (WCNCB). However, many of the experts employed in these institutions are also actively engaged in other sectors of environmental management and research and are consequently not involved with alien invasive organisms on a full-time basis.

There was a conspicuous geographical deployment bias of experts (Table 2) to the Western Cape (55%) and Gauteng (20%) Provinces, with smaller numbers of experts stationed in the KwaZulu-Natal (11%) and Eastern Cape (6%) and only a minute fraction (3% collectively) stationed in the Free-State and Northern Cape. This geographical deployment bias reflected mainly Tshwane and Cape Town metropolitan centres of operation of the leading institutions employing experts on alien invasive organisms, and not ideally the geographical distributions of these organisms in South Africa. Alien plants, for example, exhibit high species densities predominantly along the southern and eastern coastal regions of South Africa, the eastern escarpment of KwaZulu-Natal and Mpumalanga, and around the eastern Free State and Gauteng Provinces (Nel *et al.* 2004). Encouraging also (Table 1) was the growing number of private consulting agencies and independent consultants (12% of experts) trading in environmental impact assessments related to alien invasive organisms. This undoubtedly in response to immensely increased amounts of funding available from national and international donor agencies with the establishment of the new democratic dispensation in South Africa in 1994.

TABLE 1.—Institutional deployment of experts during audit

Sector [Numbers employing experts]	Institution {Number of experts employed}	Total numbers of experts employed (% of total)
National Parastatals [4]	ARC {16}, SANBI {10} CSIR {4}, ESKOM {1}	31 (19)
Governmental Departments and Conservation Agencies [5]	WFW {10}, SANPARKS {7} DEAT {4}, DWAF {3}	24 (15)
Provincial & Municipal Departments and Conservation Agencies [6]	WCNCB {10}, GDACE {2} Ezemvelo KZN Wildlife {3} FSDTEEF {3} City of Cape Town {3} Mpumalanga Parks Board {1}	22 (14)
Museums [3]	Albany {4}, Iziko {1} McGregor {1}	6 (4)
Universities [9]	UCT {16}, SUN {8}, Tshwane {5} WITS {3}, UWC {2}, UKZN {2}, UNISA {1}, Limpopo {1} Rhodes {1}, Wales {1}	40 (25)
Private Corporations [6]	SAPPI {2} Volcano AgroScience {2} Two Oceans Aquarium {1} Plant Health Products {1} Dow AgroSciences {1} Biological Control Products {1}	8 (5)
Non-Governmental Agencies [9]	GISP {3}, BOTSOC {2} SAFI and Birdlife SA {2} Grootbos Foundation {1} Western Cape Reptile Inst. {1} Conservation Strategy & Law {1} Institute Conservation Natural History Soutpansberg {1} Others {2}	13 (8)
Private Consulting Agencies [8]	-	8 (5)
Independent Consultants [11]	-	11 (7)

ARC—Agricultural Research Council; SANBI—South African National Biodiversity Institute; CSIR—Council for Scientific and Industrial Research; ESKOM—Electricity Supply Commission; WFW—Working for Water; SANPARKS—South African National Parks; DWAF—Department Water Affairs and Forestry; DEAT—Department Environmental Affairs and Tourism; GDACE—Gauteng Department Agriculture Conservation & Environment; WCNCB—Western Cape Nature Conservation Board; FSDTEEF—Free-State Department Tourism Environment and Economic Affairs; UCT—University Cape Town; SUN—Stellenbosch University; WITS—University of the Witwatersrand Johannesburg; UWC—University of the Western Cape; UKZN—University of KwaZulu-Natal; UNISA—University of South Africa; SAPPI—South African Pulp and Paper Industries; GISP—Global Invasive Species Program; BOTSOC—Botanical Society of South Africa

TABLE 2.—Geographical deployment of experts during audit

Province	Region	Postal codes	No. of experts (% of total)
Gauteng	Tshwane (Pretoria)	0001–0184	21
	Johannesburg	1709–2193	11
Limpopo		0727–0920	4 (2)
Mpumalanga		1200–1380	4 (2)
KwaZulu-Natal		3202–3935	18 (11)
Eastern Cape		5214–6140	9 (6)
Western Cape			89 (55)
	Southern Cape	6525–6930	10
	SW Country Areas	7141–7280	4
	Cape Town Metropole	7441–8012	75
Northern Cape	Kimberley	8300	2 (1)
Free State	Bloemfontein	9300	3 (2)
[United Kingdom]			1

5.4 Categories of speciality

5.4.1 *Region, ecosystem and biome*

Ten experts cited global and 77 cited the Republic of South Africa as their geographical areas of speciality, with 41 of them listing the Western Cape, 14 KwaZulu-Natal and 10 the Eastern Cape.

Most experts (74%) specified terrestrial ecosystems as their prime area of proficiency, with 18% designating aquatic ecosystems, 4% listing both terrestrial and aquatic ecosystems and the residual 5% of experts not denoting any specific area of speciality (Table 3). In the terrestrial ecosystems, 28% (57) of experts specified the Fynbos Biome as their area of speciality (Table 3), with 21% (43) stipulating the Savanna Biome, 16% (32) the Grassland Biome and 13% (26) the Forest Biome as their areas of proficiency, the last biome disproportionately well represented considering that it covers less than 1% of the country's surface area. Less than 11% (22) collectively of the experts designated the arid Nama-Karoo, Succulent Karoo and Desert Biomes as their areas of speciality (Table 3). In the aquatic ecosystems, 70% (26) of the experts specified freshwater environments as their area of proficiency, with 24% (9) denoting marine environments and 5% (2) listing estuarine environments as their areas of competency (Table 3).

TABLE 3.—Numbers of experts who cite proficiency in different ecosystems, biomes and habitats relevant to alien invasive organisms

Ecosystems & Biomes	No. of experts	Habitat	No. of experts (% of total)
Marine	9	Coral reef	1
		Subtidal	1
		Intertidal	1
		General marine	6
Estuarine	2		
Freshwater	26	Wetlands	2
		General freshwater	24
AQUATIC			37 (14)
Antarctic	1		
Island	3		
Coastal	2		
Catchments	11	Agricultural area	1
		Sylvicultural area	2
		Urban area	1
		Riparian zone	7
Fynbos	57		
Savanna	43	General Savanna	40
		Arid Savanna	2
		Bushveld	1
Grassland	32		
Forest	26	General forest	23
		Afromontane	3
Thicket	6		
Karoo	7		
Succulent Karoo	7		
Nama-Karoo	4		
Desert	4		
TERRESTRIAL			203 (77)
Aquatic & Terrestrial			11 (4)
Unspecified			13 (5)

5.4.2 Management, control and research

There was a distinct predominance in speciality cited by experts towards the topic of management (Table 4).

TABLE 4.—Numbers of experts who cite capability in different management, control and research topics and themes on alien invasive organisms

Topics	Numbers of experts	Themes	Numbers of experts
Management	80		
		Operational	20
		Biocontrol	20
		Techniques	14
		Conservation	10
		Eradication	6
		Restoration	6
		Integrated control	4
Planning	43		
Strategy	31		
Ecology	31		
		General	12
		Distribution	10
		Population biology	5
		Fire	4
Taxonomy, Biosystematics	18		
Impact assessment	12		
Research	9		
Education	8		
Legislation	7		
Risk assessment	7		
Mapping, Remote-sensing	7		
Survey	6		
Evaluation	6		
Training & capacity-building	6		
Policy	5		
Monitoring	5		
Social aspects	4		

OTHER CATEGORIES LISTED LESS THAN FOUR TIMES: Abundance—2, Advice—2, Advocacy, Assessment—2, Bioclimatic-potential, Biodiversity (marine), Biogeography—3, Biology, Biosecurity, Biotechnology (genetic engineering & GMOs)—2, [Bird—4], Budget—3, Chemical—2, Community, Compliance, Concept, Conservancy, Database, Dispersal, Ecophysiology, Ecosystem effects, Ecosystem function, Editing, Emerging weeds—2, Endemism, Evolution, Fisheries, Frequency, Fundraising, Game ranching, Genetics—2, Global-change—2, Habitats invaded, History, Hunting, Hydrology—2, Identification—2, Introduction (non-indigenous game), Invasiveness, Local government, Marketing, Mechanical, Modeling—3, Mutualism, Mycorrhizas, Nesting, Networking, Non-specific—2, Non-timber, Park development, PCR, Photography, Physiology—2, Piscicide application, Plant pathology—2, Plant products, Pollution, Priority—2, Proposal writing, Rate of spread, References, Regeneration, Reproductive biology, Resource economics—3, Review, Roosting, Seed biology & dynamics—2, Soil conservation, Spread, Statistics, Timber, Volunteer, Workstudy—2

Eighty experts specified current and/or past involvement in the management of alien invasive organisms, followed by 43 involved in planning and 31 in strategy. Experts with proficiency in operational and biocontrol themes formed the two largest groups, each comprising 20 experts, within the management topic. The smallest group, comprising only four experts, listed 'Integrated Control' as their speciality theme, the preferred approach recognised internationally towards management of alien invasive organisms (Wittenberg & Cock, 2001). Concerning was the relatively small numbers of experts (Table 4) who specified specialities in research (7), risk assessment (7) and monitoring (5) on whose results proper decisions on management of existing and emerging alien invasive populations are based. Similarly, only six experts listed training and capacity building as a speciality, a vital component in the advancement of future expertise to serve the developmental and sustainable environmental needs of the South African populace. However, the most concerning aspect in the speciality topics and themes listed by experts was the ostensible absence of anyone listing prevention as their field of competency, though one expert did list biosecurity (Table 4). This extraordinary absence of prevention mirrors the situation in South Africa as a whole, where an enormous amount of effort and expenditure is directed towards controlling well-established populations of alien invasive organisms compared with an almost complete dearth of effort in the much more cost-effective approach of controlling emerging alien invasive organisms and preventing foreign biological organisms from entering the country (Macdonald 2004a).

5.4.3 Life form and taxonomic groups

There were more than twice as many experts (Table 5) citing adeptness in alien flora (127 experts) than alien fauna (54 experts).

Among the alien flora, most experts (68) specified a speciality in woody plants, with their principal genera of speciality (Table 6) being *Acacia* (32 experts), *Pinus* (20 experts) and *Hakea* (14 experts). Strangely, only five experts listed competency in the genus *Prosopis*, and only one in the genus *Populus*, despite the fact that mesquite (*Prosopis glandulosa* var. *torreyana/velutina*) and white and grey poplars (*Populus alba/canescens*) together with black wattle (*Acacia mearnsii*) have been classified as the most widespread and abundant alien invasive plants in South Africa (Nel *et al.* 2004). Similarly, only five experts identified themselves as specialists in the genus *Eichhornia*, even though water hyacinth (*E. crassipes*) is the most widespread and abundant alien invasive aquatic plant in South Africa (Nel *et al.* 2004).

Among the alien fauna, specialists in birds (14 experts), fish (11 experts) and insects (10 experts) were more or less equally divided (Table 5). However, very few experts denoted proficiency in any specific alien bird genus (Table 6), the main genera of speciality listed being *Anus* (2 experts), *Acridotheres* (1 expert) and *Sturnus* (1 expert). Many of the experts included alien invasive birds as a component of a more general avian expertise in South Africa. Among the alien fishes, the prime genera of speciality listed by experts were *Micropterus* (4 experts), *Cyprinus* (2 experts) and *Oncorhynchus* (2 experts). That only two experts specified alien invasive micro-organisms as their speciality (Table 5) possibly reflects the reality that persons specialising in plant pathology, animal and human health do not view themselves as working with the phenomenon of alien invasion, even though many of these organisms are introduced aliens.

TABLE 5.—Numbers of experts who cite competency in different life forms of alien invasive organisms

Alien Fauna			Alien Flora		
Life form		Nos of experts	Life form		Nos of experts
Microbes	Infecting Fish	0	Aquatic	Phytoplankton	0
	Infecting Mammals	0		Macrophytes	8
	Infecting Plants	2			
Invertebrates	Cnidaria	1	Terrestrial	Herbaceous plants	15
	Insects	10		Woody plants	68
	Crustaceans	0		Succulent plants	4
	Molluscs	1		All plants	32
	Amphipods	1			
	Ascidians	0			
Vertebrates	Fish	11			
	Amphibians	2			
	Reptiles	4			
	Birds	14			
	Mammals	8			
Totals		54	Totals		127

TABLE 6.—Numbers of experts who cite knowledge of different genera of alien invasive organisms

Genera	Life Form	Number of experts
<i>Acacia</i>	Woody plant	32
<i>Pinus</i>	Woody plant	20
<i>Hakea</i>	Woody plant	14
<i>Opuntia</i>	Succulent plant	8
<i>Eucalyptus</i>	Woody plant	7
<i>Chromolaena</i>	Woody plant	6
<i>Lantana</i>	Woody plant	6
<i>Eichhornia</i>	Aquatic macrophyte	5
<i>Prosopis</i>	Woody plant	5
<i>Rubus</i>	Woody plant	5
<i>Clarias</i>	Fish (translocated)	4
<i>Micropterus</i>	Fish	4
<i>Cyprinus</i>	Fish	3
<i>Oncorhynchus</i>	Fish	3
<i>Parthenium</i>	Herbaceous plant	3
<i>Schinus</i>	Woody plant	3
<i>Solanum</i>	Woody plant	3

CITED TWICE: *Anas*, *Azolla*, *Campuloclinium*, *Corvus*, *Felis*, *Lepomis*, *Myriophyllum*, *Oreochromis*, *Pistia*, *Salmo*, *Salvinia*, *Sus*, *Tilapia*.

CITED ONCE: *Acridotheres*, *Ageratina*, *Agrobacterium*, *Argemone*, *Arundo*, *Atriplex*, *Barbus*, *Bryophyllum*, *Caesalpinia*, *Cardiospermum*, *Cereus*, *Cortaderia*, *Harrisia*, *Jacaranda*, *Leptospermum*, *Leucaena*, *Linepithema*, *Melia*, *Metrosideros*, *Mus*, *Myoporum*, *Mytilus*, *Nerium*, *Nicotiana*, *Oryctolagus*, *Pennisetum*, *Pereskia*, *Populus*, *Rattus*, *Sesbania*, *Setaria*, *Sturnus*, *Tamarix*.

6. Analysis of bibliography

6.1 Scale and rate of publications

A total of 3 054 articles on South African alien invasive flora and fauna were sourced, the earliest records dating back to 1858. The bibliography constitutes a provisional rather than a comprehensive final listing as many of the articles included come from secondary sources. A thorough search of national and international archives may broaden the scope of this bibliography.

To facilitate article retrieval, especially in hard copies of this bibliography, the articles were clustered on the basis of their assigned keywords into 12 life form groups, and within each life form group into six functional categories comprising the most commonly referred to topics in the bibliography. The 12 designated life form groups comprised 'alien aquatic plants', 'alien herbaceous plants (including grasses)', 'alien succulent plants', 'alien woody plants', 'alien plants of nonspecific life form', 'alien plant pathogens', 'alien biota of nonspecific life form', 'alien invertebrates', 'alien fishes', 'alien birds', 'alien amphibians–reptiles–mammals' and 'alien animals of nonspecific life form'. The six selected functional categories included 'ecology', 'identification', 'impact', 'introduction', 'invasion' and 'management', the last category including aspects of control, utilisation, conservation, restoration and legislation. Article allocation to functional categories was based on their predominant theme. Their appended keywords indicate reference to other functional categories.

The rate at which publications on alien invasive plants have appeared annually since 1858 is illustrated in Figure 2.

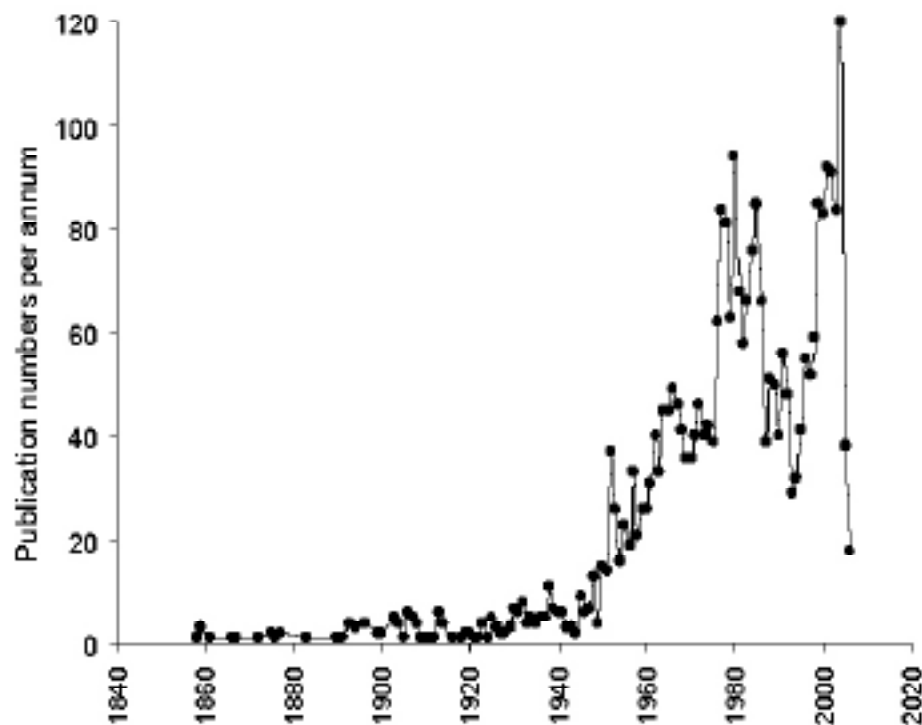


FIGURE 2.—Numbers of publications on alien invasive organisms appearing annually since 1858.

The significant trends include:

- An exponential increase in the numbers of publications appearing annually from 1945 to 1980.
- A decline in the numbers of publications appearing annually between 1980 and 1995 due to the termination of the National Scientific Programme of the Foundation for Research and

Development (FRD) of the CSIR which provided substantial funding for research on alien invasive organisms.

- A resurgence in the numbers of publications appearing annually after 1995 due to a huge injection of funds by the national Working for Water Programme into the management, public awareness, research and biocontrol of alien invasive organisms.
- A disturbing sharp decline in the numbers of publications appearing annually after 2005 due partly to attrition of senior staff and mentoring capacity within national parastatals and governmental institutions.

6.2 Categories of articles

6.2.1 *Management, control and research*

The fifteen most common general topics referred to in the bibliography are presented in Figure 3.

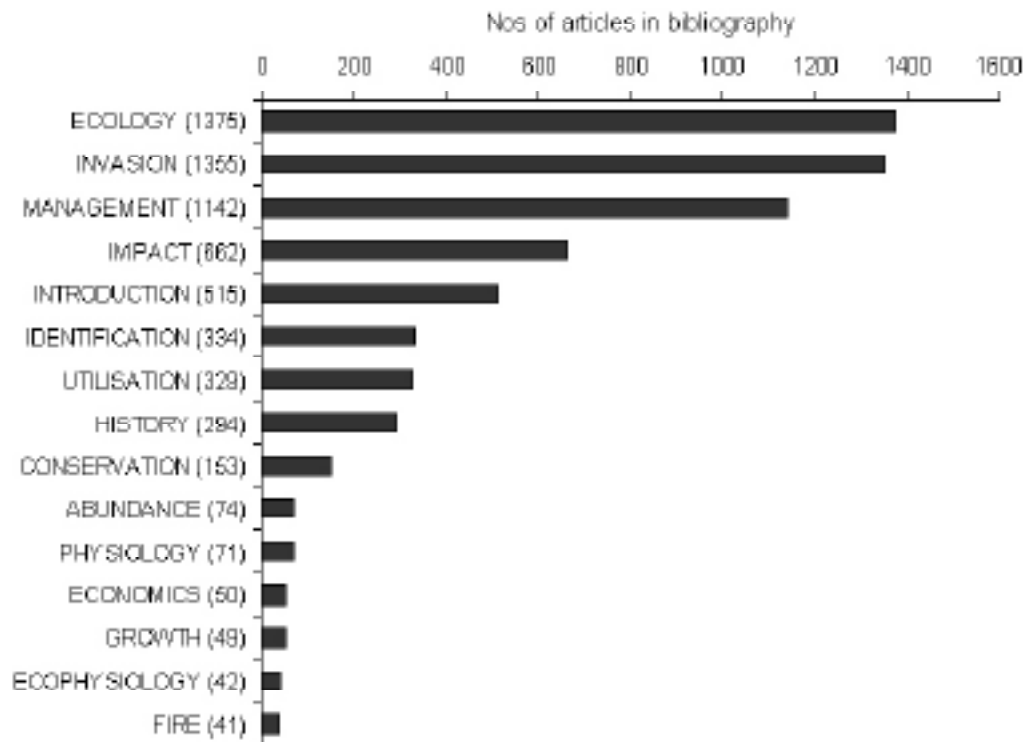


FIGURE 3.—Fifteen most common general topics referred to in the bibliography.

The greatest number of articles dealt with topics of ecology (1 375 articles) closely followed by invasion (1 355 articles) and management (1 142 articles). Within the 'invasion' topic the subsidiary keyword 'spread', which described any article covering the geographical and/or spatial distributions of alien invasive organisms was most frequently applied (1 080 articles). Within the 'management' topic (Table 7), the subsidiary keyword 'biocontrol' was most frequently applied (514 articles) followed by 'chemical control' (60 articles), 'evaluation' (52 articles) and 'integrated control' (48 articles). Clearly, the biocontrol community have excelled in documenting their invaluable contribution to the long-term management of alien invasive organisms in South Africa (e.g. Olckers & Hill 1999). Also, there were vastly more articles that dealt with ecological (1 279 articles) than economic topics (50 articles) about alien invasions (Figure 3). The paucity of information on the economic impacts of alien invasions has been identified as a key reason why the importance of such phenomena has not, until only recently, been recognised (Perrings *et al.* 2000; Pimmentel 2002).

Many articles which dealt with topics of impact (662 articles), introduction (515 articles) and utilisation (329 articles) had interrelated themes in that they alluded to both the introduction of alien organisms for purposes of utilisation (Table 7), e.g. the introduction of fish, molluscs and crustacea

for purposes of angling (154 articles) and aquaculture (108 articles), and their impact on the natural populations. There were also moderate numbers of articles (Figure 2) dealing with the topic of 'fire' (41 articles), a reflection of the role of fire in promoting the invasion of South African mediterranean-climate ecosystems by alien woody plants (Taylor 1977; Pieterse & Cairns 1988; Richardson 1988), the subsequent effects of the alien woody plant infestations on fire regimes (Versveld & Van Wilgen 1986; Di Tomaso *et al.* 2004) and the fire-related management of these alien woody plant infestations (Kruger 1977; Holmes 2001). Noteworthy, were the relatively few publications (Table 7) dealing with crucial elements of risk assessment (32 articles), prevention (22 articles), early warning (4 articles) and quarantine procedures (4 articles).

TABLE 7.—Numbers of articles in bibliography referring to various categories of utilisation and management of alien invasive organisms

Utilisation	Nos of articles	Management	Nos of articles
Aquaculture	114	Biocontrol	516
Angling	108	Chemical control	60
Sylviculture	28	Evaluation	53
Horticulture	19	Integrated control	48
Grazing	18	Restoration	47
Fuelwood	9	Conflict of interests	39
Aquaria	4	Plant pathogen	39
Soil stabilisation	3	Legislation	36
Medicinal	2	Risk assessment	32
Agroforestry	2	Prevention	22
		Early warning	4
		Quarantine	4
Other	22	Other	242
Total	329	Total	1142

6.2.2 *Ecosystem, biome and habitat*

Among aquatic ecosystems (Table 8), the greatest numbers of articles dealt with alien invasive organisms in riverine habitats (144 articles) followed by artificial impoundments (94 articles), fish ponds (44 articles) and marine habitats (44 articles).

Among terrestrial ecosystems, the greatest number of articles dealt with alien invasive organisms in the Fynbos Biome (285 articles), followed by the Savanna Biome (89 articles) and Forest Biome (57 articles). Even though articles on alien invasive organisms in terrestrial ecosystems were substantially greater in number than those in aquatic ecosystems (Table 8), there were proportionately smaller numbers of articles dealing with the utilisation of alien invasive organisms in terrestrial than aquatic environments (Table 7). Sylviculture, horticulture, fuel-wood, grazing, soil stabilisation, and agroforestry collectively accounted for 79 articles dealing with utilisation of alien invasive organisms (predominantly plants) in terrestrial ecosystems—this in comparison with angling, aquaculture and aquaria which collectively accounted for 226 articles referring to utilisation of alien invasive organisms (mainly fish) in aquatic environments (Table 7). Sub-Antarctic ecosystems were also relatively well represented in the bibliography, with 34 articles dealing with alien invasive organisms in this environment as were urban habitats with 40 articles referring to alien invasive organisms in this transformed ecosystem (Table 8).

Of the 635 articles that dealt with impacts of alien invasive organisms on various components of natural and transformed ecosystems, native flora and fauna and interspecific interactions (Table 9), those that featured most prominently in the bibliography dealt with impacts on plants (86 articles),

followed by birds (79 articles), fish (76 articles), biodiversity (54 articles) and hydrology (31 articles). Impacts on relations between parasites and host organisms (mainly introduced fish parasites impacting native fishes) were the most frequently reported interspecific interaction (22 articles).

TABLE 8.—Numbers of articles in bibliography referring to various biomes and habitats of aquatic and terrestrial ecosystems infested by alien invasive organisms

Aquatic Ecosystem				Terrestrial Ecosystem			
		Biome/Habitat	Nos of articles			Biome/Habitat	Nos of articles
Freshwater	Natural	River	144	Natural	Fynbos	285	
		Pan	25		Savanna	89	
		Riparian	16		Forest	57	
		Wetland	3		Karoo	42	
	Artificial	Impoundment	94		Nama-Karoo	4	
		Fishpond	44		Succulent Karoo	1	
Canal		5	Grassland		30		
Estuarine	Natural	Estuary	20		Insular	Coastal Island	11
				Subantarctic Island		34	
Marine	Natural	Marine	44	Transformed	Urban	40	
		Intertidal	5		Sylvicultural	8	
					Agricultural	3	
					Pasture	1	
					Rangeland	1	
					Roadside	1	

TABLE 9.—Numbers of articles in bibliography referring to various components of natural and transformed ecosystems, native flora and fauna and interspecific interactions impacted on by invasive alien organisms

Ecosystem type		Native Fauna		Native Flora		Interspecific Interactions						
Component	Nos of articles	Component	Nos of articles	Component	Nos of articles	Category	Nos of articles					
Natural	Biodiversity	Mollusc	1	Plant	89	Parasitism	22					
		Fish	76			Litter	5	Hybridization	13			
		Hydrology	31					Amphibian	5	Myrmemochory	11	
	Degradation	10	Bird					79	Predation	11		
									Nesting	31	Disease	7
									Roosting	3	Mutualism	7
Transformed	10	Gleaning	5	Pollination	7							
				Mammal	6	Allelopathy	3					
						Rodent	3	Toxicity	2			
								Ungulate	1	Pathogen	2	
Agriculture	6											
		Apiculture	3									
				Grazing	4							

6.2.3 Life form and taxonomic groups

Among the alien flora (Table 10), the greatest number of articles dealt with woody plants (766 articles) of which the genera *Acacia* (232 articles), *Hakea* (114 articles) *Pinus* (89 articles) and *Solanum* (88 articles) were most frequently mentioned (Table 11). Noteworthy were the relatively few articles (Appendix 3) dealing with two of the most widespread and abundant alien woody plant genera in South Africa (Nel *et al.* 2004), namely *Prosopis* (35 articles) and *Populus* (6 articles only).

Succulent plants (Table 10) comprised the second most cited alien floral life form (208 articles), with the genus *Opuntia* (Table 11) most frequently mentioned (228 articles), the earliest entries dating back to 1858 (McGibbon 1858). The invasion of South Africa's semi-arid rangelands by several species of *Opuntia* has been supplemented by numerous other alien invasive members of the cactus family in recent decades. That South Africa should be prone to invasion by alien succulents is not surprising considering that the country's ecosystems, which comprise 34% of all the world's succulent plant species, seem particularly suited to plants of this life form. Clearly, increased capacity needs to be developed with respect to understanding and managing alien invasive succulents in South Africa's arid ecosystems, especially as only 11% of the audited

TABLE 10.—Numbers of articles in the bibliography referring to different life forms of alien invasive organisms

Alien Fauna			Alien Flora		
	Life form	Nos of articles		Life form	Nos of articles
Microbes	Infecting Plants	29	Aquatic	Phytoplankton	4
	Infecting Fish	20		Macrophytes	169
	Infecting Mammals	1			
Invertebrates	Cnidaria	2	Terrestrial	Herbaceous plants	57
	Insects	88		Succulent plants	206
	Crustaceans	29		Woody plants	765
	Moluscs	38			
	Ascidians	1			
Vertebrates	Fish	509			
	Amphibians	13			
	Reptiles	7			
	Birds	696			
	Mammals	35			

experts collectively designated the arid Nama-Karoo, Succulent Karoo and Desert Biomes as their areas of speciality (Table 3), with even a fewer 2.5% (4 out of 163 experts) indicating a speciality in alien succulent plants (Table 5). The third most cited alien floral life form in the bibliography (Table 10) was the aquatic macrophytes (170 articles), with the genus *Eichhornia* (Table 11) most frequently mentioned (90 articles), followed by the genera *Azolla* (30 articles), *Myriophyllum* (28 articles) and *Salvinia* (26 articles). Here again, in view of the small numbers of experts (8 out of 163) specifying a speciality in aquatic macrophytes and the enormous threat posed by alien water plants to recreational and economic water use in both natural and artificial freshwater bodies in South Africa, there is also a need for the development of increased capacity in this field.

Among the alien fauna (Table 10), the greatest number of articles dealt with birds (696 articles) of which the genera *Passer* (335 articles), *Sturnus* (209 articles), *Acridotheres* (175 articles) and *Fringilla* (67 articles) were most commonly referred to (Table 11). The copious literature on this life form is in part due to the numerous short notes published by especially amateur ornithologists recording the spread of various alien bird species, such as the house sparrow *Passer domesticus* (Winterbottom 1972) and European starling *Sturnus vulgaris* throughout South Africa, a process actively encouraged by South Africa's few professional ornithologists. Similar participation by the angling fraternity in documenting in angling magazines and other popular articles the spread of alien fishes into river systems and impoundments has also resulted in abundant articles dealing with this life form (509 articles). Indeed, the most frequently referred to alien fish genus (Table 11) was *Salmo* (249 articles), followed by the genera *Micropterus* (157 articles), *Cyprinus* (156 articles) and *Lepomis* (88 articles). The genus *Salmo* including two widespread and highly prized angling fish species in South Africa, namely the rainbow trout *S. gairdneri* and brown trout *S. trutta*.

TABLE 11.—Number of articles in bibliography referring to most frequently cited genera in different life forms of alien invasive organisms

Alien fauna		Genera	Alien flora		Genera
Microbes	Infecting plants	<i>Phytophthora</i> (5), <i>Armillaria</i> (2), <i>Amylostereum</i> (1), <i>Sphaeropsis</i> (1)	Aquatic	Phytoplankton	<i>Cladophora</i> (2), <i>Gymnodinium</i> (1)
	Infecting fish	<i>Argulus</i> (6), <i>Bothriocephalus</i> (5), <i>Lernaea</i> (4), <i>Myxosoma</i> (4)		Macrophytes	<i>Eichhornia</i> (90), <i>Azolla</i> (30), <i>Myriophyllum</i> (28), <i>Salvinia</i> (25)
	Infecting mammals	-			
Invertebrates	Cnidaria	<i>Craspedacusta</i> (2)	Terrestrial	Herbaceous plants	<i>Cirsium</i> (9), <i>Xanthium</i> (8), <i>Ageratina</i> (5), <i>Amaranthus</i> (3), <i>Stipa</i> (30), <i>Agrostis</i> (3), <i>Cortaderia</i> (1), <i>Pennisetum</i> (1)
	Insects	<i>Linepithema</i> (25), <i>Plutella</i> (3), <i>Cardiocondyla</i> (2), <i>Paratrechina</i> (2)		Succulent plants	<i>Opuntia</i> (228), <i>Pereskia</i> (7), <i>Harrisia</i> (6), <i>Cereus</i> (3)
	Crustaceans	<i>Daphnia</i> (11), <i>Cherax</i> (8), <i>Macrobrachium</i> (5), <i>Procambarus</i> (5),		Woody plants	<i>Acacia</i> (232), <i>Hakea</i> (114), <i>Pinus</i> (89), <i>Solanum</i> (88), <i>Lantana</i> (76), <i>Chromolaena</i> (69), <i>Sesbania</i> (50), <i>Paraserianthes</i> (37), <i>Prosopis</i> (35), <i>Eucalyptus</i> (33), <i>Leptospermum</i> (30), <i>Rubus</i> (29)
	Molluscs	<i>Lymnaea</i> (20), <i>Mytilus</i> (9), <i>Physa</i> (9), <i>Helisoma</i> (6), <i>Pila</i> (2), <i>Thais</i> (2),			
	Ascidians	-			
Vertebrates	Fish	<i>Salmo</i> (249), <i>Micropterus</i> (157), <i>Cyprinus</i> (156), <i>Lepomis</i> (88), <i>Tinca</i> (43)			
	Amphibians	<i>Cryptobranchus</i> (2)			
	Reptiles	<i>Chrysemys</i> (2), <i>Ramphotyphlops</i> (2)			
	Birds	<i>Passer</i> (335), <i>Sturnus</i> (209), <i>Acridotheres</i> (175), <i>Fringilla</i> (67), <i>Cygnus</i> (40), <i>Columba</i> (33), <i>Anas</i> (29), <i>Corvus</i> (27) <i>Psittacula</i> (25)			
	Mammals	<i>Mus</i> (12), <i>Hemitragus</i> (5), <i>Rattus</i> (7), <i>Felis</i> (6), <i>Sciurus</i> (3)			

7. Register of expertise

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Main genera: *Acacia*

Institutional Consulting: Yes

Private Consulting: Yes

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Groups: Bird

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Area of expertise: Northern Cape; Kalahari

Biomes/habitats: Savanna

Fields: Ecology; Taxonomy

Groups: Woody plant

Main genera: *Prosopis*, *Nicotiana*, *Schinus*

Institutional Consulting: Yes

Private Consulting: Yes

Armstrong, A.J. Dr (Adrian)

Ph.D., Stellenbosch University, 1996

Affiliation: Ezemvelo KZN Wildlife

Post title: Nature Conservation Scientist

Address: Biodiversity Division, Ezemvelo KZN Wildlife, PO Box 13053, Cascades, Pietermaritzburg, 3202

Tel: 033 845 1433

Fax: 033 845 1226

E-mail: aarmstrong@kznwildlife.com

Area of expertise: KwaZulu-Natal

Biomes/habitats: Savanna; Grassland; Forest

Fields: Risk assessment

Groups: Reptile; Butterfly

Institutional Consulting: No

Private Consulting: No

Arnolds, J.L. Ms (Judith)

M.Sc., North-West University, 2007

Affiliation: South African National Biodiversity Institute

Post title: Chief Agricultural Development Technician

Address: Research and Scientific Services, South African National Biodiversity Institute, Private Bag X7, Claremont, 7735

Tel: 021 799 8800

Cell: 083 513 4838

E-mail: arnolds@sanbi.org

Area of expertise: Western Cape

Biomes/habitats: Fynbos

Fields: Ecology; Physiology

Groups: Grasses

Main Genera: *Lolium*

Institutional Consulting: No

Private Consulting: No

Ashton, P.J. Dr (Pete)

Ph.D., Rhodes University, 1983

Affiliation: Council for Scientific and Industrial Research

Post title: Divisional Fellow and Principal Scientist

Address: CSIR-Environmentek, Council for Scientific and Industrial Research, PO Box 395, Pretoria, 0001

Tel: 012 841 3293
 Fax: 012 841 2689
 E-mail: pashton@csir.co.za
 Area of expertise: Southern Africa
 Biomes/habitats: Aquatic ecosystems
 Fields: Integrated control; Strategic; Planning
 Groups: Aquatic plant (floating)
 Main genera: *Azolla*, *Eichhornia*
 Institutional Consulting: Yes
 Private Consulting: No

Attwood, C.G. Dr (Colin)

Ph.D., University of Cape Town, 2003
 Affiliation: Marine and Coastal Management,
 Department of Environmental Affairs and
 Tourism
 Post title: Senior Specialist Scientist
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 Department of Environmental Affairs and
 Tourism, Private Bag X2, Cape Town, 8012
 Tel: 021 402 3190
 Fax: 021 421 7406
 E-mail: cattwood@deat.gov.za
 Area of expertise: RSA
 Biomes/habitats: Marine
 Fields: Nonspecific
 Groups: All (marine)
 Institutional Consulting: Yes
 Private Consulting: No

Awad, A.A. Mr (Adnan)

M.Sc., University of Cape Town, 2000
 Affiliation: Global Invasive Species Programme
 Post title: Marine Program/Consultant
 Address: GISP, Kirstenbosch, South African
 National Biodiversity Institute, Private Bag X7,
 Claremont, 7735
 Tel: 021 799 8815
 Fax: 021 797 1561
 Cell: 082 785 9678
 E-mail: awad@sanbi.org
 Area of expertise: Africa (esp. southern and
 eastern), global
 Biomes/habitats: Marine
 Fields: Management; Survey; Risk assessment;
 Strategic; Policy
 Groups: All (marine)
 Institutional Consulting: Yes
 Private Consulting: Yes

Baard, E. Dr (Ernst)

Ph.D., Stellenbosch University, 1990
 Affiliation: Scientific Services, CapeNature
 Post title: Manager
 Address: Scientific Services, CapeNature, Private
 Bag 5014, Stellenbosch, 7599
 Tel: 021 866 8001
 Fax: 021 866 1523
 Cell: 082 414 0424
 E-mail: baarde@cncjnk.wcape.gov.za
 Area of expertise: RSA; Western Cape

Biomes/habitats: Fynbos; Succulent Karoo; Nama-
 Karoo; Freshwater
 Fields: Identification; Risk assessment
 Groups: Reptile; Amphibian
 Institutional Consulting: Yes
 Private Consulting: Yes

Barnard, P.E. Dr (Phoebe)

Ph.D., Uppsala University, Sweden, 1994
 Affiliation: South African National Biodiversity
 Institute and Global Invasive Species
 Programme
 Post title: Senior Specialist Scientist
 Address: Global Change Research Group, South
 African National Biodiversity Institute, Private
 Bag X7, Claremont, 7735
 Tel: 021 799 8722
 Fax: 021 797 6903
 E-mail: barnard@sanbi.org
 Area of expertise: Namibia; Global
 Biomes/habitats: Desert; Ephemeral river courses;
 Arid savanna; Fynbos
 Fields: Strategic; Planning; Evolution; Global
 change
 Groups: n/a
 Institutional Consulting: Yes
 Private Consulting: No

Beste, J. Mr (Johan)

M.Sc., University of Wolverhampton, 1999
 Affiliation: Department of Water Affairs and Forestry
 Post title: Deputy Director: Forestry Policy and
 Strategy
 Address: Department of Water Affairs and Forestry,
 Private Bag X93, Pretoria, 0001
 Tel: 012 336 8171
 Fax: 012 336 6663
 E-mail: besterj@dwaf.gov.za
 Area of expertise: Mpumalanga; Limpopo Province;
 Gauteng; Free State
 Biomes/habitats: Savanna; Grassland
 Fields: Risk assessment; Regeneration; Utilisation;
 Social (community participation)
 Groups: Woody plant
 Private Consulting: No

Beste, M.N. Prof. (Marthán)

D.Sc., University of Pretoria, 1977
 Affiliation: Mammal Research Institute
 Post title: Acting Director
 Address: Zoology and Entomology Department,
 University of Pretoria, c/o Lynnwood and
 University Roads, Pretoria, 0002
 Tel: 012 420 2067
 Fax: 012 420 2534
 E-mail: mnbester@zoology.up.ac.za
 Area of expertise: Subantarctic
 Biomes/habitats: Islands (Continental and Oceanic)
 Fields: Management; Eradication
 Groups: Mammal
 Main genera: *Felis*, *Mus*, *Rattus*
 Institutional Consulting: Yes
 Private Consulting: Yes

Bezuidenhout, L. Mrs (Liezl)

B.Tech. Conservation, Cape Technikon, 2001
 Affiliation: Working for Water Programme
 Post title: Area Manager
 Address: Working for Water Regional Office
 Bellville, Department of Water Affairs and
 Forestry, PO Box X16, Sanlamhof, Bellville,
 7535
 Tel: 021 950 7100
 Fax: 021 950 7118
 Cell: 082 908 4729
 E-mail: bezuidl@dwaf.gov.za
 Area of expertise: Western Cape; Southern Cape;
 Eastern Cape
 Biomes/habitats: Afromontane Forest; Fynbos
 Fields: Strategic; Planning; Management;
 Technique; Research
 Groups: Woody plant; Herbaceous plant (esp. forest
 IAS)
 Institutional Consulting: Yes
 Private Consulting: Yes

Bezuidenhout, R. Mr (Ryno)

University of South Africa
 Affiliation: Western Cape Reptile Institute
 Post title: Researcher
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 Reptile Institute, 32 Kantbos Street, Kuils
 River, Cape Town, 8000
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 Fax: 021 787 1622
 Cell: 084 789 7000
 E-mail: bezuidl@dwaf.gov.za
 Area of expertise: RSA
 Biomes/habitats: Fynbos; Forest; Karoo; Desert
 Fields: Ecology; Research
 Groups: Reptile (esp. snake)
 Main genera: *Bitis*, *Naja*
 Institutional Consulting: Yes
 Private Consulting: Yes

Bromilow, C.R. Mr (Clive)

B.Sc.(Hons), Liverpool Polytechnic (UK), 1973
 Affiliation: Biological Control Products
 Post title: n/a
 Address: Biological Control Products, PO Box
 15132, Westmead, 3610
 Tel: 031 700 4625
 Fax: 031 700 1338
 Cell: 082 417 6886
 E-mail: clive@biocontrol.co.za
 Area of expertise: RSA
 Biomes/habitats: All
 Fields: Distribution; Photography; Management
 Groups: Plant
 Private Consulting: Yes

Byrne, M.J. Prof. (Marcus)

Ph.D., University of the Witwatersrand, 1998
 Affiliation: University of the Witwatersrand

Post title: Associate Professor
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 Department, University of the Witwatersrand,
 Private Bag 3, Wits, 2050
 Tel: 011 717 6491
 Fax: 011 403 1429
 E-mail: marcus@gecko.biol.wits.ac.za
 Area of expertise: RSA
 Biomes/habitats: Freshwater; Terrestrial
 Fields: Biocontrol; Evaluation (post-release)
 Groups: n/a
 Main genera: *Eichhornia*
 Institutional Consulting: Yes
 Private Consulting: Yes

Cambray, J.A. Dr (Jim)

Ph.D., Rhodes University, 1992
 Affiliation: Makana Biodiversity Centre, Albany
 Museum
 Post title: Senior Specialist Scientist
 Address: Department of Ichthyology and Fisheries
 Science, PO Box 94, Grahamstown, 6140
 Tel: 046 622 2312
 Fax: 046 622 2398
 E-mail: J.Cambray@ru.ac.za
 Area of expertise: RSA
 Biomes/habitats: Freshwater
 Fields: Survey; Planning; Eradication; Education
 (awareness)
 Groups: Fish
 Main genera: *Clarias*, *Micropterus*, *Oncorhynchus*,
Tilapia, *Salmo*
 Institutional Consulting: Yes
 Private Consulting: No

Chown, S.L. Prof. (Steven)

Ph.D., University of Pretoria, 1989
 Affiliation: Centre for Invasion Biology, Stellenbosch
 University
 Post title: Director
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 University, Private Bag X1, Matieland, 7602
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 Fax: 021 808 2995
 Cell: 082 788 1410
 E-mail: slchown@sun.ac.za
 Area of expertise: RSA; Subantarctic; Antarctic
 Biomes/habitats: Fynbos; Savanna; Subantarctic;
 Antarctic
 Fields: Ecology (macro-, community); Ecosystem
 function
 Groups: Insect; Mammal; Plant
 Main genera: n/a
 Institutional Consulting: Yes
 Private Consulting: No

Cilliers, C.J. Dr (Carina)

Ph.D., Rhodes University, 1983
 Affiliation: Weeds Unit, Plant Protection Research
 Institute, Agricultural Research Council
 Post title: Specialist Researcher, RETIRED

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E-mail: cillierscarina@telkomsa.net
Area of expertise: RSA
Biomes/habitats: Savanna; Freshwater
Fields: Management (technique); Planning;
Operational; Evaluation
Groups: Woody plant; Aquatic plant
Institutional Consulting: No
Private Consulting: Yes

Clark, B.M. Dr (Barry)

Ph.D., University of Cape Town, 1997
Affiliation: University of Cape Town
Post title: Research Associate
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PO Box 34035, Rhodes Gift, 7707
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Fax: 021 685 3401
Cell: 082 373 0521
E-mail: bclark@botzoo.uct.ac.za
Area of expertise: RSA
Biomes/habitats: Marine; Freshwater
Fields: Risk assessment; Planning; Management;
Impact assessment
Groups: All (marine); Fish (freshwater)
Institutional Consulting: Yes
Private Consulting: Yes

Cobbing, B.L. Mr (Ben)

B.Sc., Rhodes University, 2003
Affiliation: Conservation Support Services
Post title: GIS Project Manager
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504, Grahamstown, 6140
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Fax: 046 622 4526
Cell: 082 445 1049
E-mail: bcobbing@csggis.co.za
Area of expertise: RSA
Biomes/habitats:
Fields: Strategic; Planning; Mapping; Distribution
Groups: Plant
Main genera: n/a
Institutional Consulting: Yes
Private Consulting: No

Coetzee, A. Mr (Andre)

Higher Dipl. Forestry Conservation, Saasveld
School of Forestry (Port Elizabeth Technikon),
1993
Affiliation: Mpumalanga Parks Board
Post title: Acting Chief Executive Officer
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Private Bag X11338, Nelspruit, 1200
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Cell: 083 626 6305
E-mail: andre.coetzee@pboard1.agric.za

Area of expertise: Mpumalanga
Biomes/habitats: Grassland
Fields: Strategic; Planning; Management; Fisheries
Groups: n/a
Main genera: n/a
Institutional Consulting: Yes
Private Consulting: No

Colahan, B.D. Mr (Brian)

M.Sc., University of Natal, 1984
Affiliation: Scientific Support, Environmental Affairs
Directorate, Free State Department of Tourism,
Environment and Economic Affairs
Post title: Principal Nature Conservation Scientist
(Ornithology)
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State Tourism, Environment and Economic
Affairs, Private Bag X20801, Bloemfontein,
9300
Tel: 051 400 4787
Fax: 051 400 4811
E-mail: colahan@dteea.fs.gov.za
Area of expertise: Free State
Biomes/habitats: Grassland; Karoo; Arid savanna;
Fromontane Forest; Freshwater
Fields: Ecology; Conservation management
Groups: Bird
Institutional Consulting: Yes
Private Consulting: No

Crawford, R.J.M. Prof. (Robert)

Ph.D., University of Cape Town, 1979
Affiliation: Marine and Coastal Management,
Department of Environment and Tourism
Post title: Chief Specialist Scientist
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Tourism, Marine and Coastal Management,
Private Bag X2, Rogge Bay, 8012
Tel: 021 402 3140
Fax: 021 421 7406
E-mail: crawford@deat.gov.za
Area of expertise: RSA
Biomes/habitats: Marine
Fields: Population dynamics
Groups: Bird (marine)
Main genera: *Acacia*, *Pinus*, *Eucalyptus*, *Myoporum*,
Felis, *Oryctolagus*
Institutional Consulting: Yes
Private Consulting: Yes

Culross, B.R. Mr (Brian)

B.Sc., Aberdeen University, Scotland, 1966
Affiliation: n/a
Post title: n/a
Address: 23 Lange Avenue, Quellerina, Florida,
1709
Cell: 083 649 6164
E-mail: brian.culross@isat.co.za
Area of expertise: Gauteng; KwaZulu-Natal
Biomes/habitats: Savanna
Fields: Identification (field)
Groups: Herbaceous plant; Woody plant

Main genera: n/a
 Institutional Consulting: No
 Private Consulting: Yes

Daitz, L.D. Mr (David)

MBA, University of Cape Town, 1983
 Affiliation: CapeNature
 Post title: Chief Executive Officer
 Address: CapeNature, Private Bag X29,
 Rondebosch, 7701
 Tel: 021 659 3400
 Fax: 021 659 3415
 Cell: 083 412 1570
 E-mail: ddaitz@pgwc.gov.za
 Area of expertise: RSA
 Biomes/habitats: Fynbos; Grassland
 Fields: Strategic; Planning; Operational
 Groups: Woody plant; Plant (plantation)
 Main genera: *Acacia*, *Pinus*, *Hakea*, *Rubus*, *Setaria*,
Solanum
 Institutional Consulting: Yes
 Private Consulting: Yes

Damm, G.R. Mr (Gerhard)

Affiliation: n/a
 Post title: n/a
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 Tel: 011 883 2299
 Fax: 011 784 2074
 E-mail: gerhard@muskwa.co.za
 Area of expertise: n/a
 Biomes/habitats: n/a
 Fields: Introduction (non-indigenous game)
 Groups: Mammal (large)
 Main genera: n/a
 Institutional Consulting: Yes
 Private Consulting: Yes

Day, J. Prof. (Jenny)

Ph.D., University of Cape Town, 1978
 Affiliation: Freshwater Research Unit, University of
 Cape Town
 Post title: Director
 Address: Zoology Department, University of Cape
 Town, Private Bag, Rondebosch, 7701
 Tel: 021 650 3604
 Fax: 021 650 3301
 E-mail: jday@botzoo.uct.ac.za
 Area of expertise: Western Cape
 Biomes/habitats: Freshwater
 Fields: n/a
 Groups: All (freshwater)
 Institutional Consulting: No
 Private Consulting: No

De Moor, F.C. Dr (Ferdy)

Ph.D., University of the Witwatersrand, 1983
 Affiliation: Albany Museum, Makana Biodiversity
 Centre, Department of Freshwater
 Invertebrates

Post title: Senior Specialist Researcher
 Address: Freshwater Invertebrates, Albany
 Museum, Somerset Street, Grahamstown,
 6139
 Tel: 046 622 2312
 Fax: 046 622 2398
 E-mail: f.demoor@ru.ac.za
 Area of expertise: RSA
 Biomes/habitats: Freshwater
 Fields: Distribution; Biosystematics
 Groups: Invertebrate (freshwater)
 Institutional Consulting: Yes
 Private Consulting: No

De Moor, I.J. Ms (Irene)

M.Sc., Rhodes University, 1993
 Affiliation: Southern African Institute of Aquatic
 Biodiversity
 Post title: Associate Research Officer
 Address: Freshwater Invertebrates, Albany
 Museum, Somerset Street, Grahamstown,
 6139
 Tel: 046 622 2312
 Fax: 046 622 2398
 E-mail: i.demoor@ru.ac.za
 Area of expertise: Africa
 Biomes/habitats: Freshwater
 Fields: Strategic; Planning; Advisor; Management
 (protocols); Editor
 Groups: Invertebrate (freshwater); Fish
 (freshwater); Mollusc
 Main genera: *Cherax*, *Procambarus*, *Salmo*,
Micropterus
 Institutional Consulting: No
 Private Consulting: Yes

Dean, W.R.J. Dr (Richard)

Ph.D., University of Cape Town, 1995
 Affiliation: Percy FitzPatrick Institute, University of
 Cape Town
 Post title: Chief Research Officer
 Address: PO Box 47, Prince Albert, 6930
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 E-mail: lycium@mweb.co.za
 Area of expertise: Southern Africa
 Biomes/habitats: Karoo; Savanna
 Fields: Distribution; Ecology
 Groups: Bird
 Institutional Consulting: No
 Private Consulting: No

den Dulk, H.P. Mr (Harmen)

Nat Dipl, Technikon Pretoria, 1971
 Affiliation: Soil Conservation, Gauteng Department
 of Agriculture, Conservation and Environment
 Post title: Control Technician
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 Environment, PO Box 8769, Johannesburg,
 2000
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 E-mail: harmen.denDulk@gauteng.gov.za
 Area of expertise: Gauteng
 Biomes/habitats: Savanna; Riparian zone
 Fields: Soil-conservation; Management (plant);
 Eradication
 Groups: Woody plant
 Institutional Consulting: Yes
 Private Consulting: No

Erasmus, W.Z. Mr (Zane)

Higher Dipl. Nature Conservation, Saasveld School
 of Forestry (Port Elizabeth Technikon), 1989
 Affiliation: CapeNature
 Post title: Programme Manager: Fire
 Address: 15 Madison Square, Edgemoed, 7441
 Tel: 021 558 4168
 Fax: 086 672 6562
 Cell: 082 414 6344
 E-mail: wze@netactive.co.za
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos
 Fields: Fire; Management
 Groups: Woody plant
 Main genera: *Acacia*, *Hakea*, *Pinus*
 Institutional Consulting: Yes
 Private Consulting: Yes

Esler, K.J. Prof. (Karen)

Ph.D., University of Cape Town, 1993
 Affiliation: Department of Conservation Ecology,
 University of Stellenbosch
 Post title: Associate Professor
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 Stellenbosch University, Private Bag X1,
 Matieland, 7602
 Tel: 021 808 4005
 Fax: 021 808 3304
 E-mail: kje@sun.ac.za
 Area of expertise: South Western Cape
 Biomes/habitats: Fynbos; Karoo
 Fields: Seed-biology; Ecology (general)
 Groups: Woody plant; Grass
 Main genera: *Acacia*, *Argemone*
 Institutional Consulting: Yes
 Private Consulting: No

Euston-Brown, D.I.W. Mr (Douglas)

M.Sc., University of Cape Town, 1995
 Affiliation: n/a
 Post title: Private Consultant
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 Fax: 021 780 1214
 Cell: 082 897 8866
 E-mail: dougeb@netactive.co.za
 Area of expertise: RSA
 Biomes/habitats: Fynbos; Forest; Thicket; Savanna
 Fields: Mapping (vegetation); Survey (botanical);
 Research

Groups: n/a
 Main genera: n/a
 Institutional Consulting: No
 Private Consulting: Yes

Findlay, J.B.R. Dr (Jim)

D.Sc., University of Pretoria, 1975
 Affiliation: Commercial Weed Control
 Post title: Consultant
 Address: Agricultural Resource Consultants, PO
 Box 3474, Parklands, 2121
 Tel: 011 486 2254
 Fax: 011 486 2274
 E-mail: agrecon@pixie.co.za
 Area of expertise: RSA
 Biomes/habitats: Terrestrial; Freshwater
 Fields: Management; Technique (chemical
 development); Planning; Restoration
 Groups: Woody plant; Aquatic plant
 Institutional Consulting: Yes
 Private Consulting: Yes

Foden, W.B. Ms (Wendy)

M.Sc., University of Cape Town, 2001
 Affiliation: South African National Biodiversity
 Institute
 Post title: Programme Manager
 Address: Biodiversity, Policy and Planning, South
 African National Biodiversity Institute, Private
 Bag X101, Pretoria, 0001
 Tel: 012 843 5288
 Fax: 012 843 5219
 Cell: 084 442 9141
 E-mail: foden@sanbi.org
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos
 Fields: Ecology (fire and regeneration)
 Groups: Woody plant
 Institutional Consulting: No
 Private Consulting: No

Foxcroft, L.C. Mr (Llewellyn)

M.Tech. Nature Conservation, Tshwane University
 of Technology (Pretoria Technikon), 2003
 Affiliation: Savanna Ecosystem Research Unit,
 South African National Parks
 Post title: Programme Manager: Invasion Ecology
 and River Research
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 African National Parks, Private Bag X402,
 Skukuza, 1350
 Tel: 013 735 4125
 Fax: 013 735 4055
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 E-mail: llewellynf@sanparks.org
 Area of expertise: RSA
 Biomes/habitats: Savanna
 Fields: Strategic; Planning; Management;
 Monitoring
 Groups: Woody plant (shrub)
 Main genera: *Opuntia*

Institutional Consulting: No
Private Consulting: Yes

Freitag-Ronaldson, S. Dr (Stefanie)

Ph.D., University of Pretoria, 1996
Affiliation: South African National Parks
Post title: Programme Integrator: Human Impacts and Species Research
Address: Scientific Services, South African National Parks, PO Box 830, Hoedspruit, 1380
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Fax: 015 793 0402
Cell: 082 908 2678
E-mail: stefanief@sanparks.org
Area of expertise: Kruger National Park
Biomes/habitats: Savanna
Fields: Strategic; Planning; Impact assessment (conservation)
Groups: Woody plant (esp.); Fish; Invertebrate
Institutional Consulting: Yes
Private Consulting: No

Geach, B.G.S. Ms (Bev)

M.Sc., University of Port Elizabeth, 1997
Affiliation: n/a
Post title: Project Manager
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Tel: 012 310 3919 (only valid to end June 2005)
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Cell: 082 787 8252
E-mail: bgeach@deat.gov.za (to June 2005) or stadfam@iafrica.com
Area of expertise: RSA
Biomes/habitats: Nonspecific
Fields: Policy, Strategic; Planning; Management
Groups: n/a
Institutional Consulting: No
Private Consulting: Yes

Geldenhuis, C.J. Prof. (Coert)

Ph.D., University of Cape Town, 1989
Affiliation: Forestwood CC
Post title: Owner and sole member
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Tel: 012 803 3277
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Cell: 082 776 1593
E-mail: cgelden@mweb.co.za
Area of expertise: RSA; Southern Africa
Biomes/habitats: Forest
Fields: Utilisation (sustainable use, timber, nontimber); Restoration; Ecology
Groups: Woody plant (esp. forest)
Institutional Consulting: Yes
Private Consulting: Yes

Gets, H. Mrs (Hettie)

HED, B.A., University of South Africa, 1999
Affiliation: Conservation Education Programme, WWF South Africa

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Cell: 082 891 0831
E-mail: hgets@wwf.org.za
Area of expertise: RSA
Biomes/habitats: Nonspecific
Fields: Education (environmental); Capacity building; Training (course development), Networking; Teaching resource development
Groups: n/a
Main genera: n/a
Institutional Consulting: Yes
Private Consulting: No

Gibbs, D.J. Mr (Dalton Gibbs)

B.Tech. Nature Conservation, CAPUT, 1999
Affiliation: City of Cape Town, Nature Conservation
Post title: Nature Conservator
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E-mail: rondevlei@sybaweb.co.za
Area of expertise: RSA
Biomes/habitats: Fynbos; Freshwater; Urban
Fields: Planning; Management; Operational
Groups: Bird; Fish; Plant (high altitude rope access)
Main genera: *Anas*, *Corvus*, *Cyprinus*, *Clarias*
Institutional Consulting: No
Private Consulting: Yes

Goodall, J.M. Mr (Jeremy)

M.Sc., University of Natal, 2000
Affiliation: Weeds Unit, Plant Protection Research Institute, Agricultural Research Council
Post title: Researcher
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E-mail: goodallj@arc.agric.za
Area of expertise: RSA
Biomes/habitats: Grassland; Savanna
Fields: Integrated control (herbicides, mechanical, fire, utilisation); Management; Ecology; Training
Groups: Herbaceous plant; Woody plant (esp. Asteraceae)
Main genera: *Campuloclinium*, *Chromolaena*, *Parthenium* (at present)
Institutional Consulting: Yes
Private Consulting: n/a

Gordon, A.J. Mr (Tony)

M.Sc., Rhodes University, 1993
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Area of expertise: Western Cape

Biomes/habitats: Fynbos

Fields: Biocontrol (plants)

Groups: Woody plant

Main genera: *Acacia*, *Hakea*, *Leptospermum*

Institutional Consulting: Yes

Private Consulting: Yes

Griffiths, C.L. Prof. (Charles)

Ph.D., University of Cape Town, 1974

Affiliation: Marine Biology Research Institute,
Zoology Department, University of Cape Town

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Area of expertise: Southern Africa

Biomes/habitats: Marine

Fields: Biodiversity (marine); Taxonomy; Ecology
(coastal)

Groups: Invertebrate (Amphipoda)

Institutional Consulting: Yes

Private Consulting: Yes

Hahn, N. Mr (Norbert)

M.Sc., University of Natal, 2003

Affiliation: Institute for the Conservation and Natural
History of the Soutpansberg, Herbarium
Soutpansbergensis

Post title: Director

Address: Institute for the Conservation and Natural
History of the Soutpansberg, Herbarium
Soutpansbergensis, PO Box 1734, Makhado,
0920

Tel: 015 517 7176

E-mail: nhahn@soutpansberg.com

Area of expertise: Limpopo Province; Mpumalanga;
Maputaland,

Biomes/habitats: Forest; Savanna

Fields: Taxonomy; Endemism; Biogeography

Groups: Woody plant; Succulent

Private Consulting: Yes

Hanekom, N.M. Dr (Nick)

Ph.D., University of Port Elizabeth (NMMU), 1980

Affiliation: South African National Parks

Post title: Researcher

Address: Conservation Services, South African
National Parks, PO Box 176, Sedgfield, 6573

Tel: 044 343 1302

Fax: 044 343 2331

E-mail: nickh@sanparks.co.za

Area of expertise: Western Cape

Biomes/habitats: Marine

Fields: Monitoring

Groups: Marine rock mussels

Main genera: *Mytilus*

Institutional Consulting: Yes

Private Consulting: No

Harding, G.B. Dr (Graham)

Ph.D., University of Port Elizabeth, 1988

Affiliation: Invader Plant Specialists CC

Post title: Owner/Consultant

Address: Invader Plant Specialists CC, PO Box
3879, Durbanville, 7551

Tel: 021 976 6127

Fax: 021 976 6127

Cell: 082 412 7411

E-mail: hartding@pixie.co.za

Area of expertise: RSA

Biomes/habitats: All (incl. Arid; Freshwater)

Fields: Management; Research; Technique
(chemical development); Training

Groups: Woody plant; Aquatic plant

Main genera: n/a

Institutional Consulting: Yes

Private Consulting: Yes

Harebottle, D.M. Mr (Doug)

M.Sc., University of KwaZulu-Natal, 1994

Affiliation: University of Cape Town

Post title: Scientific Officer

Address: Avian Demography Unit, University
of Cape Town, Private Bag (no number),
Rondebosch, 7701

Tel: 021 650 2330

Fax: 021 650 3434

Cell: 082 736 3087

E-mail: doug@adu.uct.ac.za

Area of expertise: RSA

Biomes/habitats: Freshwater

Fields: Monitoring (population)

Groups: Bird

Main genera: *Anas*

Institutional Consulting: Yes

Private Consulting: Yes

Henderson, L. Ms (Lesley)

B.Sc.(Hons), University of the Witwatersrand, 1979

Affiliation: Weeds Unit, Plant Protection Research
Institute, Agricultural Research Council

Post title: Senior Researcher

Address: South African National Biodiversity
Institute, Private Bag X101, Pretoria, 0001

Tel: 012 843 5035

Fax: 012 804 3211

E-mail: henderson@sanbi.org

Area of expertise: RSA

Biomes/habitats: Grassland; Savanna; Fynbos;
Forest; Succulent Karoo; Nama-Karoo

Fields: Distribution; Abundance; Habitats invaded;
Emerging weeds; Legislation; Restricted spp.

Groups: Plant (all IAS)

Institutional Consulting: Yes

Private Consulting: No

Hill, M.P. Prof. (Martin)

Ph.D., Rhodes University, 1994
 Affiliation: Department of Zoology and Entomology,
 Rhodes University
 Post title: Associate Professor and Head of
 Entomology
 Address: Department of Zoology and Entomology,
 Rhodes University, PO Box 94, Grahamstown,
 6140
 Tel: 046 603 8712
 Fax: 046 622 8959
 Cell: 073 177 0041
 E-mail: m.p.hill@ru.ac.za
 Area of expertise: RSA
 Biomes/habitats: Freshwater
 Fields: Biocontrol (aquatic plants)
 Groups: Aquatic plant
 Main genera: *Eichhornia*, *Azolla*, *Salvinia*, *Pistia*,
Myriophyllum
 Institutional Consulting: Yes
 Private Consulting: Yes

Hoffman, M.T. Prof. (Timm)

Ph.D., University of Cape Town, 1989
 Affiliation: Leslie Hill Institute for Plant Conservation,
 Botany Department
 Post title: Director
 Address: Botany Department, Leslie Hill Institute
 for Plant Conservation, Botany Department,
 Private Bag, Rondebosch, Cape Town, 7701
 Tel: 021 650 2440
 Fax: 021 650 4046
 E-mail: thoffman@botzoo.uct.ac.za
 Area of expertise: Northern Cape; Namaqualand
 Biomes/habitats: Succulent Karoo
 Fields: Distribution; Ecology
 Groups: n/a
 Main genera: n/a
 Institutional Consulting: No
 Private Consulting: No

Hoffmann, J.H. Prof. (John)

Ph.D., Rhodes University, 1983
 Affiliation: University of Cape Town
 Post title: Chief Research Officer
 Address: Zoology Department, University of Cape
 Town, Private Bag, Rondebosch, 7700
 Tel: 021 650 3400
 Fax: 021 650 3301
 E-mail: hoff@botzoo.uct.ac.za
 Area of expertise: RSA
 Biomes/habitats: Terrestrial
 Fields: Biocontrol (plants)
 Groups: Plant (Angiosperm); Insect
 Main genera: *Acacia*, *Opuntia*, *Sesbania*, *Pinus*,
Prosopis, *Hakea*
 Institutional Consulting: Yes
 Private Consulting: Yes
Holmes, P.M. Dr (Patricia or Pat)
 Ph.D., University of Cape Town, 1989
 Affiliation: n/a

Post title: Ecological consultant
 Address: 23 Dreyersdal Road, Cape Town, 7845
 Tel: 021 712 7816
 Fax: 021 712 7816
 E-mail: prebelo@mweb.co.za
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos; Riparian zone
 Fields: Ecology; Seed bank dynamics; Impact
 assessment (clearing); Restoration
 Groups: Woody plant; Grass; Herbaceous plant
 (annual)
 Main genera: *Acacia*, *Pinus*, *Hakea*
 Institutional Consulting: Yes
 Private Consulting: Yes

Hughes, R. Mr (Rael)

Nat. Dipl., Port Elizabeth Technikon–Saasveld, 1991
 Affiliation: Working for Water Programme
 Post title: Implementation Co-ordinator
 Address: Aquatic Weed and Biocontrol Unit,
 Working for Water, Private Bag X4390, Cape
 Town, 8000
 Tel: 021 441 2709
 Fax: 021 441 2781
 Cell: 082 857 3663
 E-mail: hughesr@dwaf.gov.za
 Area of expertise: RSA
 Biomes/habitats: Freshwater
 Fields: Strategic; Planning; Management; Technique
 Groups: All (aquatic, especially aquatic plant)
 Institutional Consulting: Yes
 Private Consulting: No

Hughes (née Mgidi), T.N. Mrs (Theresa)

B.Sc. (Hons), University of Cape Town, 1999
 Affiliation: Terrestrial Ecosystem Management,
 Environmentek, Council for Scientific and
 Industrial Research
 Post title: Research scientist
 Address: Division of Water, Environment and
 Forestry Technology, Council for Scientific
 and Industrial Research, PO Box 320,
 Stellenbosch, 7599
 Tel: 021 888 2608
 Fax: 021 888 2684
 E-mail: tmgidi@csir.co.za
 Area of expertise: RSA
 Biomes/habitats: Terrestrial; Riparian zone
 Fields: Ecology; Management; Distribution (current
 and potential); Population dynamics; Impact
 assessment (biocontrol)
 Groups: Plant (terrestrial, especially major and
 emerging IAP)
 Main genera: *Acacia*, *Hakea*, *Prosopis*
 Institutional Consulting: Yes
 Private Consulting: No

Impson, N.D. Mr (Dean)

M.Sc., Rhodes University, 1988
 Affiliation: Scientific Services, CapeNature
 Post title: Principal Nature Conservation Scientist
 Address: Scientific Services, CapeNature, Private
 Bag X5014, Stellenbosch, 7600

Tel: 021 866 8019
 Fax: 021 866 1523
 Cell: 082 414 0020
 E-mail: impsond@cncjnk.wcape.gov.za
 Area of expertise: Western Cape
 Biomes/habitats: Freshwater
 Fields: Monitoring; Research; Impact; Piscicide
 Application; Pollution; Education (awareness)
 Groups: Fish (freshwater)
 Main genera: *Micropterus*, *Cyprinus*, *Clarias*,
Tilapia, *Oncorhynchus*, *Lepomis*, *Oreochromis*
 Institutional Consulting: Yes
 Private Consulting: Yes

Impson, F.A. Mrs (Fiona)

B.Sc.(Hons), Rhodes University, 1987
 Affiliation: University of Cape Town
 Post title: Research officer
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 Research Institute, Private Bag X5017,
 Stellenbosch, 7599
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 Fax: 021 883 3285
 Cell: 082 622 0691
 E-mail: impsonf@arc.agric.za
 Area of expertise: Western Cape (mainly)
 Biomes/habitats: Fynbos
 Fields: Biocontrol (plants)
 Groups: Woody plant
 Main genera: *Acacia*
 Institutional Consulting: Yes
 Private Consulting: No

Ivey, P.J. Mr (Philip)

M.Sc., Birmingham University, 1993
 Affiliation: Global Invasive Species Programme
 Post title: Programme Co-ordinator
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 South African National Biodiversity Institute,
 Private Bag X7, Claremont, 7735
 Tel: 021 799 8837
 Fax: 021 797 1561
 E-mail: ivey@sanbi.org
 Area of expertise: Global
 Biomes/habitats: Nonspecific
 Fields: Nonspecific
 Groups: n/a
 Main genera: n/a
 Institutional Consulting: No
 Private Consulting: No

Jackelman, J. Mr (James)

M.Sc., University of Cape Town, 1996
 Affiliation: Wild Coast Project (DEAT/DEAET)
 Post title: Project Manager
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 Development Project, PO Box 19829, Tecoma,
 5214
 Tel: 043 721 1216
 Fax: 043 721 1217
 E-mail: wildcoast@sa.wild.org

Area of expertise: Eastern Cape; Western Cape
 Biomes/habitats: Fynbos; Forest; Grassland
 Fields: Strategic; Planning; Budget; Operational;
 Management; Technique (mechanical,
 chemical)
 Groups: Woody plant; Herbaceous plant
 Main genera: n/a
 Institutional Consulting: No
 Private Consulting: Yes

Jackson, L.F. Dr (Lynn)

Ph.D., University of South Carolina, 1983
 Affiliation: Global Invasive Species Programme
 Post title: Director
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 South African National Biodiversity Institute,
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 Fax: 021 797 1561
 Cell: 083 -4067666
 E-mail: jackson@sanbi.org
 Area of expertise: Global
 Biomes/habitats: Marine
 Fields: Legislation; Policy; Planning; Training
 Groups: n/a
 Main genera: n/a
 Institutional Consulting: Yes
 Private Consulting: No

Jansen van Vuuren, B. Dr (Bettine)

Ph.D., University of Pretoria, 2000
 Affiliation: Centre for Invasion Biology, Stellenbosch
 University
 Post title: Researcher
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 Stellenbosch University, Private Bag X1,
 Stellenbosch, 7602
 Tel: 021 808 4862
 Fax: 021 808 2405
 E-mail: bjvv@sun.ac.za
 Area of expertise: RSA
 Biomes/habitats: Nonspecific
 Fields: Genetics (conservation)
 Groups: n/a
 Main genera: n/a
 Institutional Consulting: Yes
 Private Consulting: Yes

Jewitt, G. Prof (Graham)

Ph.D., Stellenbosch University, 1998
 Affiliation: School of Bioresources Engineering and
 Environmental Hydrology
 Post title: Associate Professor
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 and Environmental Hydrology, University of
 KwaZulu-Natal, Private Bag X01, Scottsville,
 3209
 Tel: 033 260 5468
 Fax: 033 260 5818
 E-mail: jewittg@ukzn.ac.za
 Area of expertise: RSA

Biomes/habitats: Terrestrial; Wetland; Riparian zone
 Fields: Hydrology
 Groups: n/a
 Main genera: n/a
 Institutional Consulting: Yes
 Private Consulting: No

Jordaan, F. Mr (Ferdie)

B.Agric., University of the Orange Free State, 1979
 Affiliation: n/a
 Post title: Product Manager
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 Lynnwood Ridge, 0040
 Tel: 012 348 6042
 Fax: 012 348 6041
 Cell: 083 636 7368
 E-mail: fjv@lantic.net
 Area of expertise: RSA
 Biomes/habitats: Savanna
 Fields: Management; Technique (chemical)
 Groups: Woody plant
 Main genera: *Acacia*
 Institutional Consulting: Yes
 Private Consulting: Yes

Kirkwood, D. Dr (Don)

Ph.D., University of Cape Town, 2003
 Affiliation: CapeNature
 Post title: Regional Ecologist
 Address: Scientific Services, CapeNature, 16 17th
 Ave, Voëlklip, Hermanus, 7200
 Tel: 028 314 0173
 Fax: 028 314 1814
 Cell: 082 333 1661
 E-mail: dkirkwood@cncjnk.wcape.gov.za
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos
 Fields: Strategic; Planning; Management;
 Technique; Impact assessment (management),
 Population-biology (plant)
 Groups: Woody plant; Grass
 Institutional Consulting: Yes
 Private Consulting: Yes

Klein, H. Mrs (Hildegard)

B.Sc.(Hons), University of Pretoria, 1988
 Affiliation: Weeds Unit, Plant Protection Research
 Institute, Agricultural Research Council
 Post title: Senior Research Technician
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 Agricultural Research Council, Private Bag
 X134, Queenswood, Pretoria, 0121
 Tel: 012 356 9841
 Fax: 012 329 3278
 Cell: 082 550 6014
 E-mail: kleinh@arc.agric.za
 Area of expertise: RSA
 Biomes/habitats: Terrestrial
 Fields: Biocontrol; Legislation
 Groups: Woody plant; Succulent
 Main genera: *Opuntia*, *Cereus*, *Harrisia*, *Pereskia*,
Lantana, *Eucalyptus*

Institutional Consulting: Yes
 Private Consulting: Yes

Kluge, R.L. Dr (Rob)

Ph.D., Rhodes University, 1982
 Affiliation: n/a
 Post title: Consultant
 Address: 40 Golden Pond, 8 Somerset Place,
 Hilton, 3245
 Tel: 033 343 3475
 Fax: 033 343 1103
 Cell: 072 922 5523
 E-mail: rlk@futurenet.co.za
 Area of expertise: RSA
 Biomes/habitats: Savanna
 Fields: Biocontrol
 Groups: Insect; Plant
 Institutional Consulting: No
 Private Consulting: Yes

Knott, H.B. Mr (Howard)

Diploma, T.C.U. Texas USA, 1984
 Affiliation: n/a
 Post title: n/a
 Address: Greater KuduLand Safaris, PO Box 1385,
 Makhado, 0920
 Tel: 015 539 0720
 Fax: 015 539 0808
 E-mail: howard@greaterkuduland.co.za
 Area of expertise: RSA; Limpopo Province
 Biomes/habitats: Bushveld
 Fields: Game ranching; Conservancy
 Groups: n/a
 Private Consulting: Yes

Kotzé, J.D. Mr (Ian)

M.Sc., Stellenbosch University, 2000
 Affiliation: Geoinformatics, ISCW, Agricultural
 Research Council
 Post title: Remote Sensing Researcher
 Address: ISCW, Agricultural Research Council,
 Private Bag X5017, Stellenbosch, 7599
 Tel: 021 887 4690
 Fax: 021 887 5096
 E-mail: kotzei@arc.agric.za
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos
 Fields: Survey; Strategic; Planning; Operational;
 management; Remote sensing; Work study;
 Budget; GIS; Biocontrol
 Groups: Woody plant
 Main genera: *Acacia*, *Pinus*, *Hakea*
 Institutional Consulting: Yes
 Private Consulting: No

Kraaij, T. Mrs (Tineke)

M.Sc., Stellenbosch University, 2003
 Affiliation: Scientific Services, South African
 National Parks
 Post title: Terrestrial Ecologist

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South African National Parks, PO Box 176,
Sedgefield, 6573

Tel: 044 343 1302

Fax: 044 343 2331

E-mail: tinekek@sanparks.org

Area of expertise: Western Cape

Biomes/habitats: Fynbos

Fields: Physiology, Restoration

Groups: Woody plant

Main genera: *Acacia*, *Pinus*

Institutional Consulting: No

Private Consulting: No

Langley, C.H. Mr (Howard)

Cert. Field Ecology, University of Rhodesia (now
Zimbabwe), 1976

Affiliation: South African National Parks

Post title: Regional Manager (Western Cape)

Address: 8 Belvedere Avenue, Clovelly, 7945

Tel: 021 701 8692 (until 30 Nov 2005)

Cell: 083 630 4574

E-mail: langleyh@wam.co.za

Area of expertise: RSA

Biomes/habitats: Fynbos

Fields: Park planning; Park development;
Conservation management; Invasive plant
management planning

Groups: Woody plant

Main genera: *Acacia*, *Pinus*

Private Consulting: Yes

Le Maitre, D.C. Dr (David)

Ph.D., University of Cape Town, 1999

Affiliation: Council for Scientific and Industrial
Research

Post title: Principal Researcher

Address: Environmentek, Council for Scientific
and Industrial Research, PO Box 320,
Stellenbosch, 7599

Tel: 021 888 2407

Fax: 021 888 2684

E-mail: dlmaitre@csir.co.za

Area of expertise: RSA (especially Western Cape)

Biomes/habitats: Terrestrial (especially Fynbos)

Fields: Impact (hydrology); Ecology; Rate of spread;
Bioclimatic potential; Population dynamics
(biocontrol)

Groups: Woody plant

Main genera: *Acacia*, *Pinus*, *Hakea*

Institutional Consulting: Yes

Private Consulting: No

Little, G.S. Mr (Grant)

BSc, University of Natal, 1990

Affiliation: Sappi-Technical

Post title: Environmental and Quality Systems
Manager

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Cell: 083 661 7458

E-mail: grant.little@sappi.com

Area of expertise: KwaZulu-Natal; Mpumalanga

Biomes/habitats: Non specific

Fields: Management (systems)

Groups: Plant

Institutional Consulting: No

Private Consulting: No

Lotter, W.D. Mr (Wayne)

M.Tech. Nature Conservation, Tshwane University
of Technology, 2004

Affiliation: KwaZulu Natal Wildlife

Post title: Invasive alien species coordinator

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Cascades, 3202

Tel: 033 845 1872

Fax: 033 845 1879

Cell: 079 498 7086

E-mail: lotterW@kznwildlife.com

Area of expertise: RSA (excl. Western Cape);
Tanzania

Biomes/habitats: Savanna; Forest; Grassland

Fields: Strategic; Planning; Integrated control

Groups: All (especially plant)

Main genera: n/a

Institutional Consulting: Yes

Private Consulting: Yes

Macdonald, I.A.W. Prof (Ian)

Ph.D., University of Cape Town, 1991

Affiliation: n/a

Post title: International Environmental Consultant

Address: PO Box 35, Winterton, 3340

Cell: 082 53 49588

E-mail: macdonfam@kingsley.co.za

Area of expertise: Southern Africa; Global

Biomes/habitats: Fynbos; Savanna; Forest

Fields: Strategic; Planning; Review; Survey

Groups: Plant (especially woody plant); Bird

Main genera: *Acacia*, *Chromolaena*, *Melia*, *Pinus*,
Acridotheres, *Corvus*, *Sturnus*

Private Consulting: Yes

Malan, G. Prof. (Gerard)

Ph.D., University of Cape Town, 1995

Affiliation: Tshwane University of Technology

Post title: Associate Professor

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Fax: 012 318 5566

Cell: n/a

E-mail: malang@tut.ac.za

Area of expertise: KwaZulu-Natal; Eastern Cape;
Northern Cape; Western Cape

Biomes/habitats: Forest; Grassland

Fields: Bird; Nesting; Roosting; Hunting

Groups: Woody plant (especially nest trees of
raptors)

Main genera: *Pinus*, *Eucalyptus*, *Populus*

Institutional Consulting: Yes

Private Consulting: No

Manuel, J.J. Mr (Jeff)

B.Sc.(Hons), University of the Western Cape, 2003

Affiliation: n/a

Post title: n/a

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Tel: 021 959 3919

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Area of expertise: Western Cape

Biomes/habitats: Freshwater

Fields: Ecology

Groups: Plant (especially reed)

Main genera: *Arundo*

Institutional Consulting: Yes

Private Consulting: Yes

Marais, C. Dr (Christo)

Ph.D., Stellenbosch University, 1998

Affiliation: Working for Water Programme/
CapeNature

Post title: Executive Manager: Strategic
Partnerships

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Water, Private Bag X4390, Cape Town, 8000

Tel: 021 441 2727

Fax: 021 441 2781

Cell: 082 551 8316

E-mail: chris@dwaf.gov.za

Area of expertise: RSA

Biomes/habitats: Terrestrial (especially Fynbos)

Fields: Resource economics

Groups: Woody plant

Main genera: n/a

Institutional Consulting: No

Private Consulting: No

Martin, A.P. Dr (Paul)

Ph.D., University of Port Elizabeth (now Nelson
Mandela Metropolitan), 1991

Affiliation: South African Local Government
Association (SALGA)

Post title: Representative: Biodiversity/alien species

Address: Environmental Services, Nelson Mandela
Metropolitan Municipality, PO Box 11, Port
Elizabeth, 6000

Tel: 041 505 4578

Fax: 041 505 4491

Cell: 083 463 5609

E-mail: pmartin@mandelametro.gov.za

Area of expertise: Nelson Mandela Metro

Biomes/habitats: Fynbos; Thicket

Fields: Bird; Local Government; Strategic; Planning;
Management

Groups: Bird

Institutional Consulting: Yes

Private Consulting: No

McDonald, D.J. Dr (Dave)

Ph.D., University of Cape Town, 1995

Affiliation: Botanical Society of South Africa

Post title: Director: Botanical and Communication
Programmes

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Africa, Private Bag X10, Claremont, 7735

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E-mail: davemcd@mweb.co.za

Area of expertise: RSA

Biomes/habitats: Fynbos; Grassland; Savanna

Fields: Ecology (vegetation)

Groups: Plant

Institutional Consulting: Yes

Private Consulting: No

McQueen, C. Ms (Carol)

B.Sc.(Hons), University of Cape Town, 1994

Affiliation: Working for Water Programme

Post title: Unit Manager: Monitoring and Evaluation

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Town, 8000

Tel: 021 441 2735

E-mail: mcqueen@dwaf.gov.za

Area of expertise: RSA

Biomes/habitats: Nonspecific

Fields: Management; Operational

Groups: n/a

Main genera: n/a

Midgley, G.F. Dr (Guy)

Ph.D., University of Natal, 1996

Affiliation: South African National Biodiversity
Institute

Post title: Chief Specialist Scientist

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Area of expertise: Eastern Cape; Northern Cape;
Western Cape

Biomes/habitats: Fynbos; Succulent Karoo

Fields: Concept; Invasiveness; Impact

Groups: Plant

Main genera: n/a

Institutional Consulting: No

Private Consulting: No

Milton, S.J. Prof. (Sue)

Ph.D., University of Cape Town, 1992

Affiliation: Conservation Ecology Department,
University of Stellenbosch

Post title: Professor

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 Fax: 023 541 1828
 Cell: 082 770 0296
 E-mail: sukaroo@mweb.co.za
 Area of expertise: Western Cape; Northern Cape
 Biomes/habitats: Nama-Karoo; Succulent Karoo
 Fields: Distribution; Dispersal
 Groups: Plant
 Main genera: *Atriplex*, *Schinus*, *Opuntia*, *Nerium*,
Tamarix, *Pennisetum*
 Institutional Consulting: Yes
 Private Consulting: Yes

Minter, L.R. Prof. (Les)

Ph.D., University of the Witwatersrand, 1999
 Affiliation: University of Limpopo
 Post title: Associate Professor
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 University of Limpopo, Private Bag X1106,
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 Cell: 082 921 4405
 E-mail: minter@ul.ac.za
 Area of expertise: RSA
 Biomes/habitats: Terrestrial
 Fields: Taxonomy; Reproductive biology
 Groups: Amphibian (Anura–frog)
 Private Consulting: Yes

Moll, E.J. Dr (Eugene)

Ph.D., University of Natal, 1972
 Affiliation: Retired
 Post title: n/a
 Address: 18 Derbyshire Cres, Kirstenhof, 7945
 Cell: 072 240 1891
 E-mail: aemoll@xsinet.co.za
 Area of expertise: RSA
 Biomes/habitats: Terrestrial
 Fields: Identification; Ecology
 Groups: Woody plant
 Main genera: *Acacia*, *Pinus*, *Hakea*
 Institutional Consulting: n/a
 Private Consulting: Yes

Moran, V.C. Prof. (Cliff)

Ph.D., Rhodes University, 1967
 Affiliation: University of Cape Town
 Post title: Senior Researcher
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 Town, Private Bag , Rondebosch, 7701
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 Cell: 082 740 7321
 E-mail: vcmoran@iafrica.com
 Area of expertise: RSA
 Biomes/habitats: Fynbos
 Fields: Biocontrol (plants)

Groups: Insect
 Main genera: *Acacia*
 Institutional Consulting: No
 Private Consulting: Yes

Morgan, W.L. Mr (Lloyd)

B.Sc., Stellenbosch University, 1969
 Affiliation: Commercial Chemical Company
 Post title: Market Development Manager
 Address: Dow Agrosociences, PO Box 355, Paarl,
 7620
 Tel: 021 872 1751
 Cell: 082 653 3942
 E-mail: lmorgan@dow.com
 Area of expertise: RSA
 Biomes/habitats: Fynbos; Savanna
 Fields: Research; Marketing; Advice
 Groups: Woody plant; Herbaceous plant (broad-
 leaved); Grass
 Main genera: *Acacia*
 Institutional Consulting: Yes
 Private Consulting: No

Morris, M.J. Dr (Mike)

Ph.D., Stellenbosch University, 1982
 Affiliation: Plant Health Products (Pty) Ltd
 (Biological control company)
 Post title: Managing Director
 Address: Plant Health Products (Pty) Ltd, PO Box
 207, Nottingham Road, 3280
 Tel: 033 266 6130
 Fax: 033 266 6130
 E-mail: php@wandata.com
 Area of expertise: RSA
 Biomes/habitats: Fynbos; Savanna
 Fields: Biocontrol (plants using pathogens)
 Groups: Woody plant; Herbaceous *plant*
 Main genera: *Acacia*, *Ageratina*, *Eichhornia*,
Chromolaena, *Lantana*
 Private Consulting: Yes

Musil, C.F. Dr (Charles)

Ph.D., University of Natal, 1983
 Affiliation: South African National Biodiversity
 Institute
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 Cell: 083 384 9202
 E-mail: Musil@sanbi.org
 Area of expertise: RSA
 Biomes/habitats: Fynbos; Estuary; Freshwater
 Fields: Taxonomy; Ecology; Physiology;
 Management; Utilisation
 Groups: Woody plant; Aquatic plant; Wetland plant
 Main genera: *Acacia*, *Eichhornia*, *Salvinia*, *Pistia*,
Myriophyllum
 Institutional Consulting: Yes

Musil (née Duggan), K.J. Mrs (Kathy)

B.Sc.(Hons), University of Natal, 1978
 Affiliation: Tokai Library
 Post title: Librarian
 Address: 31 Highlands Ave, Tokai, Cape Town,
 7945
 Tel: 021 715 8550
 Fax: 021 715 5931
 E-mail: musil_home@absamail.co.za
 Area of expertise: Gauteng; Mpumalanga; North-
 West
 Biomes/habitats: Savanna; Forest; Grassland;
 Riparian zone
 Fields: Distribution; Frequency; Abundance;
 Taxonomy
 Groups: Woody plant
 Institutional Consulting: No
 Private Consulting: Yes

Olckers, T. Dr (Terry)

Ph.D., Rhodes University, 1989
 Affiliation: University of KwaZulu-Natal
 Post title: Senior Lecturer
 Address: School of Biological and Conservation
 Sciences, University of KwaZulu-Natal, PO
 Box X01, Scottsville, 3209
 Tel: 033 260 5139
 Fax: 033 260 5105
 E-mail: olckerst@ukzn.ac.za
 Area of expertise: KwaZulu-Natal; Eastern Cape
 Biomes/habitats: Savanna
 Fields: Biocontrol
 Groups: Plant (especially woody plant)
 Main genera: *Solanum*, *Parthenium*, *Leucaena*
 Institutional Consulting: Yes
 Private Consulting: No

Palmer, N.G. Mr (Guy)

Higher Dipl., Saasveld School of Forestry (Port
 Elizabeth Technikon), 1992
 Affiliation: Scientific Services, CapeNature
 Post title: Specialist Technician
 Address: Scientific Services, CapeNature, Private
 Bag X5014, Stellenbosch, 7599
 Tel: 021 866 8009
 Fax: 021 866 1523
 Cell: 082 415 1884
 E-mail: palmerg@cncjnk.wcape.gov.za
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos
 Fields: Eradication; Ecology
 Groups: Mammal; Bird; Woody plant
 Main genera: *Sus*
 Institutional Consulting: Yes
 Private Consulting: Yes

Parker-Allie, F. Ms (Fatima)

M.Sc., University of Cape Town, 2002
 Affiliation: South African National Biodiversity
 Institute

Post title: Senior Scientist
 Address: Invasive aliens unit, South African National
 Biodiversity Institute, Private Bag X7, Cape
 Town, 7735
 Tel: 021 799 8809
 Fax: 021 797 6903
 E-mail: Parker@sanbi.org
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos
 Fields: Management; Technique; Restoration
 Groups: Woody plant; Grass; Ant
 Main genera: *Acacia*
 Institutional Consulting: Yes
 Private Consulting: No

Paterson, A.R. Mr (Sandy)

LL.M., University of Cape Town, 2003
 Affiliation: Institute of Marine and Environmental
 Law
 Post title: Lecturer
 Address: PO Box 44008, Scarborough, 7975
 Tel: 021 650 5644
 Fax: 021 650 5607
 E-mail: paterson@law.uct.ac.za
 Area of expertise: Global; RSA
 Biomes/habitats: Nonspecific
 Fields: Legislation
 Groups: n/a
 Main genera: n/a
 Institutional Consulting: Yes
 Private Consulting: Yes

Pauw, A. Dr (Anton)

Ph.D., University of Cape Town, 2004
 Affiliation: Botany and Zoology Department,
 Stellenbosch University
 Post title: Lecturer
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 Stellenbosch University, Private Bag 1X,
 Stellenbosch, 7602
 Tel: 021 808 3063
 Fax: 021 808 2405
 E-mail: apauw@sun.ac.za
 Area of expertise: South Western Cape
 Biomes/habitats: Fynbos
 Fields: Ecology (pollination, fire)
 Groups: n/a
 Main genera: n/a
 Institutional Consulting: Yes
 Private Consulting: Yes

Paxton, B.R. Mr (Bruce)

B.Sc.(Hons), University of Cape Town, 2001
 Affiliation: Freshwater Research Unit, University of
 Cape Town
 Post title: Research Officer
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 Town, Cape Town, 7701
 Tel: 021 650 4634
 Fax: 021 650 3301
 Cell: 083 301 8594

E-mail: bpaxton@botzoo.uct.ac.za
 Area of expertise: Western Cape
 Biomes/habitats: Freshwater
 Fields: Ecology
 Groups: Fish
 Main genera: *Labeobarbus*, *Barbus*, *Micropterus*
 Institutional Consulting: Yes
 Private Consulting: Yes

Peter, M.V. Mr (Michael)

Higher Dipl. –Forestry, Saasveld School of Forestry
 (Port Elizabeth Technikon), 1996
 Affiliation: Department of Water Affairs and Forestry
 Post title: Director: Forestry Technical and
 Information Services
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 Tel: 012 336 8782
 Fax: 012 336 8847
 Cell: 082 808 0425
 E-mail: peterm@dwaf.gov.za
 Area of expertise: Southern Cape; KwaZulu-Natal
 Biomes/habitats: Forest; Fynbos; Grassland;
 Riparian zone
 Fields: Strategic; Planning; Management;
 Operational
 Groups: Woody plant
 Main genera: *Acacia*, *Pinus*, *Solanum*, *Lantana*,
Caesalpinia
 Institutional Consulting: Yes
 Private Consulting: No

Phelan, A.J. Mrs (Jan)

B.Sc. and UED, University of KwaZulu-Natal and
 Stellenbosch University, 1969 & 1970
 Affiliation: n/a
 Post title: n/a
 Address: PO Box 25, Howick, 3290
 Tel: 033 330 2948
 Fax: 033 330 2948
 Cell: 082 876 0003
 E-mail: mwplanit@mweb.co.za
 Area of expertise: Northern Cape; KwaZulu-Natal
 Biomes/habitats: Savanna; Grassland
 Fields: Planning; Operational; Monitoring
 Groups: Woody plant; Succulent
 Main genera: *Opuntia*, *Prosopis*
 Institutional Consulting: No
 Private Consulting: Yes

Phelps, T. Dr (Tony)

Ph.D., University of Southampton, 1978
 Affiliation: University of Wales, (Evolutionary Biology
 Team) at Bangor, UK./English Nature/Cape
 Nature/SANParks
 Post title: Researcher
 Address: Western Cape Reptile Institute, In
 collaboration with Cape Nature, 32 Kantbos
 Street, Kuils River, Cape Town, 8000
 Cell: 082 908 4729
 E-mail: viperidaewatch@ukonline.co.uk

Area of expertise: RSA; Africa; Europe; America;
 Global
 Biomes/habitats: Heathland; Fynbos; Savanna;
 Coastal; Karoo; Forest; Desert
 Fields: Ecology (Squamate)
 Groups: Reptile (Squamate)
 Main genera: *Bitis*, *Naja*
 Institutional Consulting: Yes
 Private Consulting: Yes

Picker, M.D. Dr (Mike)

Ph.D., University of the Witwatersrand, 1982
 Affiliation: University of Cape Town
 Post title: Senior lecturer
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 Town, Private Bag, Cape Town, 7701
 Tel: 021 650 3630
 Fax: 021 650 3630
 E-mail: mpicker@botzoo.uct.ac.za
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos
 Fields: Ecology; Taxonomy
 Groups: Animal (especially amphibian and
 invertebrate)
 Main genera: *Linepithema*
 Institutional Consulting: Yes
 Private Consulting: Yes

Poulter, A.G. Mr (Tony)

B.Tech. Conservation, Port Elizabeth Technikon,
 1988
 Affiliation: Invasive Alien Species Programme
 (KZN–Working for Water)
 Post title: Director Manager
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 Environment: Invasive Alien Species
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 E-mail: poultert@dae.kzntl.gov.za
 Area of expertise: Mpumalanga; KwaZulu-Natal
 Biomes/habitats: Savanna; Grassland; Afromontane
 Forest
 Fields: Strategic; Planning; Management;
 Operational
 Groups: Plant
 Main genera: n/a
 Institutional Consulting: Yes
 Private Consulting: No

Powrie, L.W. Mr (Les)

M.Sc., University of Cape Town, 1986
 Affiliation: South African National Biodiversity
 Institute and Global Invasive Species
 Programme
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 African National Biodiversity Institute, Private
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 Cell: 084 707 6297
 E-mail: powrie@sanbi.org
 Area of expertise: Southern Africa
 Biomes/habitats: n/a
 Fields: GIS, Database
 Groups: Plant
 Main genera: n/a
 Institutional Consulting: No
 Private Consulting: No

Preston, G.R. Dr (Guy)

Ph.D., University of Cape Town, 1989
 Affiliation: Working for Water Programme
 Post title: National Programme Leader
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 E-mail: gpreston@mweb.co.za
 Area of expertise: RSA
 Biomes/habitats: All
 Fields: Policy; Legislation; Management, Operational; Research; Social (mainstreaming); Fund-raising; Advocacy
 Groups: All (especially woody plant)
 Institutional Consulting: Yes
 Private Consulting: No

Prinsloo, G. Dr (Gerhard)

Ph.D., University of Pretoria, 1982
 Affiliation: Biosystematics Division, PPRI, ARC
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 Fax: 012 35 6998
 Cell: 082 411 9549
 E-mail: prinsloogl@arc.agric.za
 Area of expertise: RSA
 Biomes/habitats: Nonspecific
 Fields: Taxonomy; Biogeography (zoogeography); Assessment (biodiversity)
 Groups: Hymenoptera (parasitic)
 Institutional Consulting: Yes
 Private Consulting: No

Privett, S.D.J. Mr (Sean)

M.Sc., University of Cape Town, 1998
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 Post title: Director
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 Fax: 028 384 8100
 Cell: 082 411 1008
 E-mail: sean@grootbos.co.za
 Area of expertise: Western Cape (especially Overberg)

Biomes/habitats: Fynbos
 Fields: Conservation management; Utilisation (sustainable use)
 Groups: Plant (vascular)
 Main genera: n/a
 Institutional Consulting: Yes
 Private Consulting: Yes

Prochazka, K. Dr (Kim)

Ph.D., University of Cape Town, 1995
 Affiliation: International Ocean Institute, Southern Africa
 Post title: Director
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 E-mail: kprochazka@uwc.ac.za
 Area of expertise: RSA; Western Cape; Namibia
 Biomes/habitats: Marine (especially Intertidal, Subtidal)
 Fields: Ecology (especially community); Population biology
 Groups: Fish; Invertebrate (benthic)
 Institutional Consulting: Yes
 Private Consulting: Yes

Rebello, A.G. Dr (Tony)

Ph.D., University of Cape Town, 1992
 Affiliation: Protea Atlas Project
 Post title: Senior Researcher
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 Tel: 021 799 8727
 Fax: 021 797 6903
 E-mail: rebello@sanbi.org
 Area of expertise: Western Cape; Eastern Cape
 Biomes/habitats: Fynbos
 Fields: Ecology; Distribution
 Groups: Woody plant (Proteaceae)
 Main genera: *Hakea*
 Institutional Consulting: Yes
 Private Consulting: No

Richardson, D.M. Prof. (Dave)

Ph.D., University of Cape Town, 1989
 Affiliation: Centre for Invasion Biology, Stellenbosch University
 Post title: Deputy Director
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 Tel: 021 808 3711
 Fax: 021 808 2995
 Cell: 082 902 9024
 E-mail: rich@sun.ac.za
 Area of expertise: RSA
 Biomes/habitats: Fynbos
 Fields: Ecology; Research; Education (lecturer); Editor

Groups: Woody plant (especially *Pinus*, *Hakea*, *Acacia*)

Main genera: *Pinus*, *Hakea*, *Opuntia*, *Schinus*, *Metrosideros*

Institutional Consulting: Yes

Private Consulting: No

Robertson, H.G. Dr (Hamish)

Ph.D., Rhodes University, 1985

Affiliation: Iziko Museums of Cape Town

Post title: Director Natural History Collections

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E-mail: hrobertson@iziko.org.za

Area of expertise: Southern Africa

Biomes/habitats: All

Fields: Taxonomy

Groups: Ant (Formicidae)

Institutional Consulting: Yes

Private Consulting: No

Robertson, M.P. Dr (Mark)

Ph.D., Rhodes University, 2003

Affiliation: University of Pretoria

Post title: Lecturer

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Area of expertise: RSA

Biomes/habitats: Nonspecific

Fields: Modelling (distribution); Risk assessment; Impact assessment (biodiversity); Survey

Groups: Plant

Institutional Consulting: Yes

Private Consulting: Yes

Roets, W. Mr (Wietsche)

M.Sc., University of the North, 1997

Affiliation: CapeNature

Post title: Aquatic Scientist

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Fax: 044 802 5313

Cell: 082 414 0064

E-mail: wroets@pgwc.gov.za

Area of expertise: Western Cape

Biomes/habitats: Savanna; Freshwater

Fields: Ecology (Freshwater and terrestrial); Hydrology (Groundwater surface water interface)

Groups: Aquatic plant; Aquatic animal

Institutional Consulting: Yes

Private Consulting: Yes

Rosmarin, J.R. Mr (John)

B.Sc., University of the Witwatersrand, 1968

Affiliation: n/a

Post title: n/a

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Cell: 083 251 0007

E-mail: odinp@global.co.za

Area of expertise: RSA; Soutpansberg

Biomes/habitats: Montane

Fields: Social (community-based natural resource management)

Groups: Woody plant

Main genera: *Eucalyptus*

Institutional Consulting: No

Private Consulting: No

Rouget, M. Dr (Mathieu)

Ph.D., University of Cape Town, 2002

Affiliation: South African National Biodiversity Institute

Post title: Conservation planning/GIS Manager

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Tel: 021 799 8749

Fax: 021 797 6903

E-mail: rouget@sanbi.org

Area of expertise: RSA

Biomes/habitats: Fynbos

Fields: Modelling; Spread; Distribution

Groups: n/a

Institutional Consulting: No

Private Consulting: Yes

Rushworth, I.A. Mr (Ian)

M.Sc., University of Cape Town, 1997

Affiliation: Ezemvelo KZN Wildlife

Post title: Ecological Advice Co-ordinator uKhahlamba

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Cell: 082 940 1462

E-mail: ianr@kznwildlife.com

Area of expertise: KwaZulu-Natal

Biomes/habitats: Grassland

Fields: Strategic; Planning; Operational; Mapping; Conservation

Groups: Plant (especially *Rubus*)

Main genera: *Rubus*

Institutional Consulting: No

Private Consulting: Yes

Russell, I.A. Dr (Ian)

Ph.D., University of the Witwatersrand, 1997

Affiliation: South African National Parks

Post title: Scientist
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 E-mail: ianr@sanparks.org
 Area of expertise: RSA
 Biomes/habitats: Freshwater
 Fields: Distribution; Impact (community level)
 Groups: Fish
 Institutional Consulting: No
 Private Consulting: No

Rutherford, M.C. Dr (Michael)

Ph.D., Stellenbosch University, 1975
 Affiliation: South African National Biodiversity Institute
 Post title: Chief Specialist Scientist
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 Fax: 021 797 6903
 Cell: 082 575 7175
 E-mail: rutherford@sanbi.org
 Area of expertise: Southern Africa
 Biomes/habitats: Savanna, Desert, Fynbos, Grassland, Karoo
 Fields: Ecology
 Groups: Plant
 Main genera: n/a
 Institutional Consulting: No
 Private Consulting: No

Samways, M.J. Prof. (Michael)

Ph.D., London, 1975
 Affiliation: Centre for Agricultural Biodiversity, and Centre for Invasion Biology, University of Stellenbosch
 Post title: Chair
 Address: Entomology Department, Stellenbosch University, Private Bag X1, Matieland, 7602
 Tel: 021 808 3728
 Fax: 021 808 4708
 Cell: 082 579 9978
 E-mail: samways@sun.ac.za
 Area of expertise: RSA; Seychelles; Comoros Islands
 Biomes/habitats: Fynbos; Grassland; Coastal; Coral Reef
 Fields: Conservation
 Groups: Insect (dragonfly, butterfly, grasshopper, other); Coral
 Main genera: *Acacia*, *Pinus*
 Institutional Consulting: Yes
 Private Consulting: Yes

Sandwith, M.M. Ms (Margaret)

M.Sc. Environment and Development, University of KwaZulu-Natal, 2002
 Affiliation: Percy FitzPatrick Institute, University of Cape Town

Post title: Librarian
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 Tel: 021 650 3305
 Fax: 021 650 3295
 E-mail: Fitzlib@botzoo.uct.ac.za
 Area of expertise: RSA
 Biomes/habitats: All
 Fields: References
 Groups: n/a
 Main genera: n/a
 Institutional Consulting: No
 Private Consulting: No

Sandwith, T. Mr (Trevor)

M.Sc., University of Cape Town, 1993
 Affiliation: South African National Biodiversity Institute
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 Cell: 082 321 2747
 E-mail: trevor@capeaction.org.za
 Area of expertise: KwaZulu-Natal; Eastern Cape; Western Cape
 Biomes/habitats: Savanna; Forest; Grassland; Fynbos
 Fields: Conservation management, Strategic; Planning
 Groups: Woody plant
 Institutional Consulting: Yes
 Private Consulting: No

Schutte-Vlok, A. Dr (AnneLise)

Ph.D., University of Johannesburg (previously RAU), 1995
 Affiliation: CapeNature
 Post title: Regional Ecologist: Gouritz Region
 Address: Scientific Services, CapeNature, Private Bag 658, Oudtshoorn, 6620
 Tel: 044 203 6316
 Fax: 044 272 8110
 E-mail: scapeimu@mweb.co.za
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos; Succulent Karoo; Thicket
 Fields: Taxonomy; Ecology
 Groups: Woody plant
 Main genera: *Acacia*, *Pinus*, *Hakea*, *Opuntia*
 Institutional Consulting: Yes
 Private Consulting: No

Scotcher, J.S.B. Dr (John)

Ph.D., University of the Witwatersrand, 1983
 Affiliation: n/a
 Post title: n/a
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Tel: 033 330 2330
 Fax: 033 330 7255
 Cell: 083 626 8990
 E-mail: jscotcher@forestlore.co.za
 Area of expertise: KwaZulu-Natal
 Biomes/habitats: Grassland; Forest
 Fields: Education (guidelines); Technique
 Groups: Woody plant
 Main genera: *Acacia*, *Pinus*, *Eucalyptus*, *Solanum*,
Rubus
 Private Consulting: Yes

Sharp, D. Mrs (Debbie)

M.Sc., University of Port Elizabeth, 2000
 Affiliation: Working for Water Programme
 Post title: Biocontrol and Aquatic weeds Officer and
 now Regional Implementation Manager
 Address: Implementation Unit, DWAF: Working for
 Water Programme, Private Bag X24, Howick,
 3290
 Tel: 033 330 2051
 Fax: 033 330 4041
 Cell: 082 462 1584
 E-mail: MuirD@arc.agric.za
 Area of expertise: RSA
 Biomes/habitats: Fynbos; Freshwater; Grassland
 Fields: Biocontrol (plant, aquatic plant, emerging
 weed); Strategic; Planning; Operational
 Groups: Plant
 Institutional Consulting: Yes
 Private Consulting: Yes

Silberbauer, E.S. Mr (Edward)

Diploma in Agriculture, Elsenberg Agricultural
 College, 1961
 Affiliation: Botanical Society of South Africa, Betty's
 Bay Hack Group
 Post title: Convenor
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 Tel: 028 272 9096
 E-mail: mem@yebo.co.za
 Area of expertise: Western Cape
 Biomes/habitats: Fynbos
 Fields: Eradication; Management; Technique;
 Volunteer
 Groups: Woody plant
 Main genera: *Acacia*, *Hakea*, *Pinus*, *Eucalyptus*,
Metrosideros
 Institutional Consulting: Yes
 Private Consulting: Yes

Simelane, D.O. Mr (David)

M.Sc., University of Arkansas, 1996
 Affiliation: Weeds Unit, Plant Protection Research
 Institute, Agricultural Research Council
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 0121
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 Cell: 083 684 3450

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 Area of expertise: RSA
 Biomes/habitats: Terrestrial
 Fields: Biocontrol (weed)
 Groups: Woody plant; Insect (Coleoptera,
 Lepidoptera, Heteroptera, Diptera)
 Main genera: *Lantana*, *Cardiospermum*
 Institutional Consulting: Yes

Skelton, P.H. Prof. (Paul)

Ph.D., Rhodes University, 1980
 Affiliation: Southern African Institute of Aquatic
 Biodiversity
 Post title: Managing Director
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 6140
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 E-mail: p.skelton@ru.ac.za
 Area of expertise: Southern Africa
 Biomes/habitats: Freshwater
 Fields: Taxonomy; Systematics; Conservation;
 Biogeography; History
 Groups: Fish (freshwater)
 Main genera: *Micropterus*, *Oncorhynchus*, *Salmo*,
Lepomis, *Cyprinus*, *Clarias*, *Oreochromis*
 Institutional Consulting: Yes
 Private Consulting: No

Stein, R.T. Prof. (Robyn)

LL.M., London School of Economics and Political
 Science, 1992
 Affiliation: Department of Environmental, Energy
 and Water Law
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 E-mail: rstein@edwardnathan.com
 Area of expertise: RSA
 Biomes/habitats: Nonspecific
 Fields: Legislation (local and international)
 Groups: n/a
 Institutional Consulting: Yes
 Private Consulting: Yes

Stevens, R.A. Mr (Russell)

M.A., University of Cape Town, 1994
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 8002
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 E-mail: rstevens@aquarium.co.za
 Area of expertise: Western Cape

Biomes/habitats: Marine; Freshwater; Catchments
 Fields: Environmental Education
 Groups: n/a
 Institutional Consulting: Yes
 Private Consulting: No

Steyn, F.J. Mr (Francis)

MSA (Masters in Sustainable Agriculture), University of the Free State, 2001
 Affiliation: Biodiversity conservation
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 E-mail: franciss@elsenburg.com
 Area of expertise: Western Cape
 Biomes/habitats: All
 Fields: Social (community-based natural-resource management)
 Groups: n/a
 Institutional Consulting: Yes

Stirton, C.H. Prof. (Charlie)

Ph.D., University of Cape Town, 1989
 Affiliation: n/a
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 Area of expertise: RSA
 Biomes/habitats: Fynbos; Savanna; Grassland
 Fields: Taxonomy (plants and cultivated plants)
 Groups: Plant (Leguminosae, Verbenaceae, Rosaceae)
 Main genera: *Rubus*, *Lantana*
 Private Consulting: Yes

Strathie, L.W. Ms (Lorraine)

M.Sc., University of Cape Town, 1995
 Affiliation: Weeds Unit, Plant Protection Research Institute, Agricultural Research Council
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 Cell: 083 331 8706
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 Area of expertise: RSA
 Biomes/habitats: Forest; Savanna; Fynbos
 Fields: Biocontrol; Management; Operational; Research; Evaluation (pre- and post-release)
 Groups: Woody plant; Herbaceous plant
 Main genera: *Chromolaena*, *Parthenium*
 Institutional Consulting: Yes
 Private Consulting: No

Swart, C.W. Mr (Charles)

Nat. Dipl. Forestry, Port Elizabeth Technikon, 1989
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 E-mail: ctenviro@iafrica.com
 Area of expertise: Eastern Cape; KwaZulu-Natal; RSA
 Biomes/habitats: Terrestrial
 Fields: Strategic; Planning; Budget; Training; Evaluation; Work study
 Groups: All (especially woody plant)
 Institutional Consulting: Yes
 Private Consulting: Yes

Taylor, S.J. Dr (Sue)

Ph.D., University of Natal, 1995
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 E-mail: sue.taylor@gauteng.gov.za
 Area of expertise: Gauteng
 Biomes/habitats: Agricultural area; Grassland
 Fields: Biotechnology (genetic engineering, GMO issues); Global change; Plant pathology; PCR; Strategic; Planning; Management; Operational
 Groups: Plant pathogen (microorganism, bacteria); GMO
 Main genera: *Agrobacterium*
 Institutional Consulting: Yes
 Private Consulting: Yes

Thomson, P.J. Mr (Peter)

B.Sc.(Hons), University College of Rhodesia (London), 1970
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 Area of expertise: KwaZulu-Natal
 Biomes/habitats: All
 Fields: Strategic; Planning; Management; Operational; Technique
 Groups: Fish (freshwater); Mammal; Plant
 Institutional Consulting: No
 Private Consulting: Yes

Turpie, J.K. Dr (Jane)

Ph.D., University of Cape Town, 1994
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 Area of expertise: Southern Africa; Eastern Africa
 Biomes/habitats: Estuary; Wetland; Fynbos; Thicket;
 Grassland; Karoo
 Fields: Resource economics; Conservation
 planning; Modelling (ecological economic)
 Groups: n/a
 Main genera: n/a
 Institutional Consulting: No (UCT)
 Private Consulting: Yes (Anchor)

Underhill, L.G. Prof. (Les)

Ph.D., University of Cape Town, 1973
 Affiliation: Avian Demography Unit, University of
 Cape Town
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 Cell: 072 062 1140
 E-mail: lgu@adu.uct.ac.za
 Area of expertise: Southern Africa; Global
 Biomes/habitats: Marine
 Fields: Statistics
 Groups: Bird
 Institutional Consulting: Yes
 Private Consulting: No

Urban, A.J. Dr (Alan)

Ph.D., Rhodes University, 1977
 Affiliation: Weeds Unit, Plant Protection Research
 Institute, Agricultural Research Council
 Post title: Senior Researcher (Entomology)
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 Fax: 012 329 3278
 Cell: 072 213 2176
 E-mail: urbana@arc.agric.za
 Area of expertise: RSA
 Biomes/habitats: Savanna
 Fields: Biocontrol
 Groups: Woody plant
 Main genera: *Lantana*
 Institutional Consulting: Yes
 Private Consulting: No

Van Dam, D. Mr (Dix)

Nat. Dipl. Forestry, Saasveld School of Forestry
 (Port Elizabeth Technikon), 1982
 Affiliation: Weed Control Specialists–SILVIX CC
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 Box 646, Sabie, 1260
 Tel: 013 764 2279
 Fax: 013 764 2998
 Cell: 082 804 7942
 E-mail: dix@hlatini.co.za
 Area of expertise: Mpumalanga; Northern Province
 Biomes/habitats: Sylvicultural-area; Forest;
 Grassland
 Fields: Management; Operational
 Groups: Plant (declared invader and weed species)
 Institutional Consulting: Yes
 Private Consulting: Yes

Van der Walt, S.T. Mr (Stephan)

B.Sc.(Hons), University of the Free State, 1998
 Affiliation: Free State Department of Tourism,
 Environment and Economic Affairs
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 Environment and Economic Affairs, Private
 Bag X20801, Bloemfontein, 9300
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 E-mail: vdwalts@dteea.fs.gov.co.za
 Area of expertise: Free State
 Biomes/habitats: Freshwater
 Fields: n/a
 Groups: n/a
 Institutional Consulting: Yes
 Private Consulting: Yes

Van Rensburg, E. Dr (Eugene)

Ph.D., Rand Afrikaans University, 1990
 Affiliation: Eskom
 Post title: Chief Consultant Weed Science: ESKOM
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 Africa), Eskom: Eskom Enterprises: Critical
 Services; Vegetation Management, PO Box
 351, Rivonia, 2128
 Tel: 011 801 3315
 Fax: 011 801 3316/18
 Cell: 082 451 1994
 E-mail: eugene.vrensborg@eskom.co.za
 Area of expertise: South Africa
 Biomes/habitats: All
 Fields: Management; Operational
 Groups: Woody plant
 Institutional Consulting: Yes
 Private Consulting: Yes

Van Wilgen, B.W. Dr (Brian)

Ph.D., University of Cape Town, 1985
 Affiliation: Council for Scientific and Industrial
 Research
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Area of expertise: RSA; Australia

Biomes/habitats: Fynbos; Savanna; Grassland;
Forest; Freshwater

Fields: Fire; Biocontrol; Resource economics;
Impact assessment; Priority

Groups: Plant

Institutional Consulting: Yes

Private Consulting: Yes

Van Wyk, A.E. Prof. (Braam)

D.Sc., University of Pretoria, 1986

Affiliation: University of Pretoria

Post title: Professor and Curator of the Herbarium

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Pretoria, Pretoria, 0002

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Area of expertise: RSA

Biomes/habitats: Grassland, Savanna

Fields: Taxonomy

Groups: Woody plant

Institutional Consulting: Yes

Private Consulting: Yes

Van Wyk, G. Prof. (Gerrit)

Ph.D., North Carolina State University, 1975

Affiliation: Department of Forest and Wood Science,
Stellenbosch University

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E-mail: gvwyk@sun.ac.za

Area of expertise: RSA

Biomes/habitats: Sylvicultural area; Forest;
Grassland

Fields: Management; Operational

Groups: Woody plant

Main genera: *Acacia*, *Pinus*, *Eucalyptus*

Institutional Consulting: No

Private Consulting: No

Venter, S.M. Mrs (Sarah)

M.Sc., University of the Free State, 2001

Affiliation: SAFI and Birdlife SA

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Area of expertise: Limpopo Province

Biomes/habitats: Forest

Fields: Policy; Planning; Bird

Groups: Bird

Private Consulting: Yes

Venter, J.H. Mr (Jan-Hendrik)

BSc, University of South Africa, 1996

Affiliation: Pest Risk Analysis Division, Directorate
Plant Health, DoA

Post title: Senior Plant and Quality Control Officer

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Area of expertise: Global

Biomes/habitats: All

Fields: Risk assessment (plant; plant products)

Groups: Insect (phytophagous); Mite
(phytophagous)

Institutional Consulting: Yes

Private Consulting: No

Vernon, C.J. Mr (Carl)

B.Sc.(Hons), University of Pretoria, 1969

Affiliation: retired

Post title: n/a

Address: PO Box 19592, Tecoma, 5243

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Area of expertise: Eastern Cape

Biomes/habitats: Forest; Savanna; Grassland

Fields: Ecology

Groups: Woody plant

Private Consulting: Yes

Vlok, J.H.J. Mr (Jan)

M.Sc., University of Natal, 1995

Affiliation: Regalis Environmental Services CC

Post title: Sole shareholder

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1512, Oudtshoorn, 6620

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Area of expertise: Western Cape; Eastern Cape

Biomes/habitats: Fynbos; Thicket; Succulent Karoo.

Fields: Conservation management; Strategic;
Planning;

Groups: Grass (annual); Woody plant

Institutional Consulting: No

Private Consulting: Yes

Voges, K. Mr (Kasey)

Nat. Dipl. Forestry, Saasveld School of Forestry
(Port Elizabeth Technikon), 1983

Affiliation: Working for Water Programme

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E-mail: pappea@telkomsa.net
Area of expertise: RSA
Biomes/habitats: Terrestrial
Fields: Strategic; Planning; Management;
Technique; Evaluation
Groups: Plant
Institutional Consulting: Yes
Private Consulting: Yes

Vrahimis, S. Mr (Savvas)

M.Sc., University of the Free State, 1990
Affiliation: Scientific Services, Free State
Department of Tourism, Environment and
Economic Affairs
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Scientific Services
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E-mail: vrahimis@dteea.fs.gov.za
Area of expertise: Free State
Biomes/habitats: Grassland, Savanna
Fields: Conservation management
Groups: Mammal
Institutional Consulting: Yes
Private Consulting: No

Waddilove, D. Mr (David)

LL.B., Stellenbosch University, 1989
Affiliation: n/a
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Road 14, Newlands, 7700
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Area of expertise: RSA
Biomes/habitats: Terrestrial; Aquatic
Fields: Legal; Compliance; Strategic; Planning
Groups: n/a
Institutional Consulting: Yes
Private Consulting: Yes

Wagiet, R. Dr (Razeena)

Ph.D., Rhodes University, 1996
Affiliation: South African National Parks
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Conservation
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National Parks, PO Box 787, Pretoria, 0001
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Area of expertise: RSA
Biomes/habitats: Nonspecific
Fields: Education (including awareness); Taxonomy
Groups: Nonspecific
Main genera: n/a
Institutional Consulting: Yes
Private Consulting: Yes

Wanless, R.M. Mr (Ross)

M.Sc., University of Cape Town, 2002
Affiliation: Percy FitzPatrick Institute, University of
Cape Town
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Town, Private Bag X3, Rondebosch, 7701
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Area of expertise: Islands (global)
Biomes/habitats: Islands; Terrestrial (especially
insular systems)
Fields: Taxonomy; Eradication; Biosecurity;
Restoration; Project management;
Prioritisation; Remote sensing; Planning;
Proposal writing
Groups: Mammal; Bird
Institutional Consulting: Yes
Private Consulting: Yes

Wannenburgh, A.M. Mr (Andrew)

B.Sc., Stellenbosch University, 1992
Affiliation: Working for Water Programme, National
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Area of expertise: RSA
Biomes/habitats: Nonspecific
Fields: Strategic; Planning; Management
Groups: Woody plant
Institutional Consulting: Yes
Private Consulting: Yes

Wessels, N.G.J. Mr (Nigel)

M.Sc., Nelson Mandela Metropolitan University,
1997
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Area of expertise: RSA

Biomes/habitats: Fynbos
 Fields: Strategic; Planning; Management
 Groups: Woody plant
 Main genera: *Pinus*, *Acacia*, *Hakea*, *Eucalyptus*,
Cortaderia, *Rubus*
 Institutional Consulting: Yes
 Private Consulting: Yes

Willems, T.J.A. Mr (Tyl)

B.Eng., Stellenbosch University, 1996
 Affiliation: ECSA, SAICE, SAIAE
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 E-mail: WillemT@dwaf.gov.za
 Area of expertise: Western Cape; RSA
 Biomes/habitats: Fynbos
 Fields: Strategic; Planning; Management
 Groups: Woody plant
 Institutional Consulting: No
 Private Consulting: No

Wingfield, M.J. Prof. (Mike)

Ph.D., University of Minnesota, USA, 1983
 Affiliation: FABI, University of Pretoria
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 of Excellence
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 Area of expertise: Southern Africa
 Biomes/habitats: Terrestrial
 Fields: Taxonomy; Genetics (population)
 Groups: Woody plant; Fungus (on trees)
 Institutional Consulting: Yes
 Private Consulting: Yes

Wise, A.J. Mr (Anthony)

Nat. Dipl. Forestry, Saasveld School of Forestry
 (Port Elizabeth Technikon), 1989
 Affiliation: Volcano AgroScience
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 Area of expertise: RSA
 Biomes/habitats: All
 Fields: Planning; Management; Operational;
 Chemical
 Groups: Woody plant; Herbaceous plant
 Institutional Consulting: Yes
 Private Consulting: Yes

Witkowski, E.T.F. Prof. (Ed)

Ph.D., University of Cape Town, 1988
 Affiliation: University of the Witwatersrand
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 Area of expertise: Mpumalanga; Western Cape,
 KwaZulu-Natal
 Biomes/habitats: Savanna; Grassland; Fynbos
 Fields: Ecology; Ecosystem effects (nutrient
 cycling); Biology; Impacts (community level)
 Groups: Woody plant
 Main genera: *Acacia*, *Chromolaena*,
Campuloclinium
 Institutional Consulting: Yes

Witt, A.B.R. Mr (Arne)

Ph.D. (in submission)
 M.Sc. (x2), University of Cape Town and
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 Area of expertise: RSA
 Biomes/habitats: Fynbos; Savanna
 Fields: Biocontrol; Impact assessment
 Groups: Plant
 Main genera: *Acacia*, *Bryophyllum*, *Jacaranda*,
Prosopis
 Institutional Consulting: Yes
 Private Consulting: No

Wolfaardt, A.C. Mr (Anton)

B.Sc.(Hons.), Stellenbosch University, 1999
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 Area of expertise: Western Cape
 Biomes/habitats: Fynbos
 Fields: Planning; Operational; Management
 Groups: Woody plant; Mammal
 Main genera: *Acacia*, *Pinus*, *Sus*
 Institutional Consulting: No
 Private Consulting: No

Wood, A.R. Dr (Alan)

Ph.D., Stellenbosch University, 2004
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Area of expertise: RSA
Biomes/habitats: Terrestrial
Fields: Plant Pathology; Biocontrol (fungi)
Groups: Plant (all declared invader species)
Institutional Consulting: Yes

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Ph.D., Rhodes University, 1995
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Area of expertise: RSA
Biomes/habitats: Forest; Thicket; Savanna;
Grassland
Fields: Biocontrol
Groups: Woody plant
Main genera: *Chromolaena*
Institutional Consulting: Yes
Private Consulting: No

Zimmermann, H.G. Dr (Helmuth)

Ph.D., Rhodes University, 1983
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Area of expertise: Africa; RSA
Biomes/habitats: All
Fields: Integrated control; Biocontrol
Groups: Plant (especially Cactaceae)
Main genera: *Opuntia*
Institutional Consulting: No
Private Consulting: Yes

8. Bibliography

8.1 Alien Aquatic Plants (170)

8.1.1 A-Aquatic Plants—Ecology (14)

- ASHTON, P.J. 1974. The effect of some environmental factors on the growth of *Azolla filiculoides* Lam. In E.M. van Zinderen Bakker Sr (ed.), *The Orange River—Progress Report*, pp. 123–138. Institute for Environmental Sciences, Bloemfontein. A-AQUATIC MACROPHYTE, ECOLOGY, ECOPHYSIOLOGY, GROWTH, AZOLLA
- ASHTON, P.J. 1977. Factors affecting the growth and development of *Azolla filiculoides* Lam. In D.P. Annecke (ed.), *Proceedings of the Second National Weeds Conference of South Africa*, pp. 249–268. Balkema, Cape Town. A-AQUATIC MACROPHYTE, ECOLOGY, GROWTH, ECOPHYSIOLOGY, AZOLLA
- ASHTON, P.J. 1982. The autecology of *Azolla filiculoides* Lamarck with special reference to its occurrence in the Hendrik Verwoerd Dam catchment area, 245 pp. Ph.D. thesis, Rhodes University, Grahamstown. A-AQUATIC MACROPHYTE, IMPOUNDMENT, ECOLOGY, INVASION, SPREAD, ECOPHYSIOLOGY, AZOLLA
- ASHTON, P.J., APPLETON, C.C. & JACKSON, P.B.N. 1986. Ecological impacts and economic consequences of invasive alien organisms in southern African aquatic ecosystems. In I.A.W. Macdonald, F.J. Kruger & A.A. Ferrar (eds), *The ecology and control of biological invasions in southern Africa*, pp. 247–257. Oxford University Press, Cape Town. A-AQUATIC MACROPHYTE, A-AQUATIC ANIMAL, ECOLOGY, ECONOMICS, IMPACT
- ASHTON, P.J. & WALMSLEY, R.D. 1976. The aquatic fern *Azolla* and its *Anabaena* symbiont. *Endeavour* 35: 39–43. A-AQUATIC MACROPHYTE, ECOLOGY, AZOLLA
- BREEN, C.M., ROGERS, K.H. & ASHTON, P.J. 1988. Vegetation processes in swamps and flooded plains. In J.J. Symoens (ed.), *Vegetation of inland waters*, pp. 223–247. Junk, Dordrecht. A-AQUATIC MACROPHYTE, ECOLOGY, IMPACT
- FLACH, T.P. 1977. *Studies on the autecology of Myriophyllum aquaticum in the South-Western Cape Province*. Unpublished M.Sc. thesis, University of Cape Town, Cape Town. A-AQUATIC MACROPHYTE, ECOLOGY, MYRIOPHYLLUM
- HOY, L. & TAYLOR, M. 2005. Wicked water weeds [effect of invasive water weeds on the environment]. *South African Gardening* Feb 2005: 41. A-AQUATIC MACROPHYTES, ECOLOGY, IMPACT
- MUSIL, C.F. 1972. *Ecological studies on the aquatic macrophytes of the Pongolo River flood plain pans*. M.Sc. thesis, University of Natal, Pietermaritzburg. A-AQUATIC MACROPHYTE, PAN, ECOLOGY
- MUSIL, C.F., BORNMAN, C.H. & GRUNOW, J.O. 1976. Some observed inter-relationships between the cover of aquatic vegetation and various physical properties of the water medium. *Journal of South African Botany* 42: 157–169. A-AQUATIC MACROPHYTE, ECOLOGY, IMPACT, WATER-QUALITY

- MUSIL, C.F. & BREEN, C.M. 1977. The influence of site and position in the plant community on the nutrient distribution in, and content of *Eichhornia crassipes* (Mart.) Solms. *Hydrobiologia* 53: 67–72. A-AQUATIC MACROPHYTE, ECOLOGY, ECOPHYSIOLOGY, NUTRIENT, EICHHORNIA
- MUSIL, C.F., GRUNOW, J.O. & BORNMAN, C.H. 1973. Classification and ordination of the aquatic macrophytes in the Pongolo River Pans. *Bothalia* 11: 181–190. A-AQUATIC MACROPHYTE, PAN, ECOLOGY
- MUSIL, C.F. & WARD, C.J. 1984. A classification of the water plant communities of Natal, South Africa—a synopsis. *Garcia de Orta, Series Botany, Lisboa* 6: 151–162. A-AQUATIC MACROPHYTE, ECOLOGY, INVASION, SPREAD
- TWYMAN, E.S. & ASHTON, P.J. 1972. An autecological investigation of the aquatic fern (*Azolla* sp.) in relation to the Hendrik Verwoerd Dam. *Transactions of the South African Institute of Civil Engineers* 14.2: 88, 89. A-AQUATIC MACROPHYTE, IMPOUNDMENT, ECOLOGY, INVASION, SPREAD, AZOLLA

8.1.2 A-Aquatic Plants—Identification (17)

- ANONYMOUS 1970. Gevaarlike plante: Die waterhiasint. *Die Landbouweekblad* 21.7.1970: 6. A-AQUATIC MACROPHYTE, IDENTIFICATION, MANAGEMENT, EICHHORNIA
- ANONYMOUS 1980. Water hyacinth/waterhiasint (*Eichhornia crassipes* (Mart.) Solms). *Farming in South Africa, Southern African plants* W.7/1980, 2 pp. A-AQUATIC MACROPHYTE, IDENTIFICATION, ECOLOGY, INVASION, SPREAD, MANAGEMENT, EICHHORNIA
- ANONYMOUS 1980. Parrot's feather/waterduisendblaar (*Myriophyllum aquaticum* (Vell.) Verdc.). *Farming in South Africa, Southern African plants* W.9/1980, 2 pp. A-AQUATIC MACROPHYTE, IDENTIFICATION, ECOLOGY, INVASION, SPREAD, MANAGEMENT, MYRIOPHYLLUM
- ANONYMOUS 1980. Kariba weed/Karibavaring (*Salvinia molesta* Mitchell). *Farming in South Africa, Southern African plants* W.8/1980, 2 pp. A-AQUATIC MACROPHYTE, IDENTIFICATION, ECOLOGY, INVASION, SPREAD, MANAGEMENT, SALVINIA
- ANONYMOUS 1980. Water fern/rooi watervaring (*Azolla filiculoides* Lam.) *Farming in South Africa, Southern African plants* W.16/1980, 2 pp. A-AQUATIC MACROPHYTE, IDENTIFICATION, ECOLOGY, INVASION, SPREAD, MANAGEMENT, AZOLLA
- DU TOIT, R. 1938. Water hyacinth. *Farming in South Africa* 13: 16, 17. A-AQUATIC MACROPHYTE, IDENTIFICATION, MANAGEMENT, EICHHORNIA
- GERBER, A., CILLIERS, C.J., VAN GINKEL, C. & GLEN, R. 2004. *Easy identification of aquatic plants. A guide for the identification of water plants in and around South African impoundments*. Department of Water Affairs and Forestry, Pretoria. A-AQUATIC MACROPHYTE, IDENTIFICATION, FIELD-GUIDE, MANAGEMENT
- HENDERSON, L. & CILLIERS, C. 1991. Water lettuce/waterslaai A.33/1991. *Farming in South Africa*. A-AQUATIC MACROPHYTE, IDENTIFICATION, ECOLOGY, MANAGEMENT, PISTIA

HENDERSON, L. & CILLIERS, C.J. 2002. *Invasive aquatic plants: a guide to the identification of the most important and potentially dangerous invasive aquatic and wetland plants in South Africa*. Plant Protection Research Institute Handbook No. 16, 88 pp. Agricultural Research Council, Pretoria. A-AQUATIC MACROPHYTE, FIELD-GUIDE, IDENTIFICATION, WETLAND, PRIORITY, EARLY-WARNING, BIOCONTROL, MANAGEMENT

JACOT GUILLARMOD, A. 1970. Aquatic weeds in southern Africa. *Probe* (Science Students Council Journal Witwatersrand University), pp. 47–49, 53. A-AQUATIC MACROPHYTE, IDENTIFICATION, IMPACT, MANAGEMENT, AZOLLA, EICHHORNIA, MYRIOPHYLLUM, SALVINIA

JACOT GUILLARMOD, A. 1977. Some water weeds of the Eastern Cape Province. *The Eastern Cape Naturalist* 60: 4–8. A-AQUATIC MACROPHYTE, IDENTIFICATION, MANAGEMENT, EICHHORNIA

JACOT GUILLARMOD, A. 1978. Parrot's feather. In C.H. Stirton (ed.), *Plant invaders: beautiful but dangerous*, pp. 96–99. The Department of Nature and Environmental Conservation of the Cape Provincial Administration, Cape Town. A-AQUATIC MACROPHYTE, IDENTIFICATION, ECOLOGY, INVASION, SPREAD, MANAGEMENT, MYRIOPHYLLUM

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8.2.2 A-Herbaceous Plants— Identification (11)

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8.4 Alien Woody Plants (766)

8.4.1 A-Woody Plants—Ecology (87)

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8.4.2 A-Woody Plants—Identification (59)

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8.5 Alien Plants—Nonspecific Life Form (307)

8.5.1 A-Plants—NSLF—Ecology (10)

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8.5.2 A-Plants—NSLF—Identification (29)

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8.6 Alien Plant Pathogens (36)

8.6.1 A-Plant Pathogens—Ecology (12)

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8.6.3 A-Plant Pathogens—Impact (5)

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8.6.4 A-Plant Pathogens—Introduction (9)

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WINGFIELD, M.J. 2003. Increasing threat of diseases to exotic plantation forests in the southern hemisphere: lessons from *Cryphonectria* canker. *Australasian Plant Pathology* 32: 133–139. A-WOODY PLANT, A-PLANT-PATHOGEN, CRYPHONECTRIA, INVASION

WOOD, A.R. & SCHOLLER, M. 2002. *Puccinia abrupta* var. *parthenicola* on *Parthenium hysterophorus* in southern Africa. *Plant Disease* 86,3: 327. A-HERBACEOUS PLANT, PLANT-PATHOGEN, PARTHENIUM, PUCCINIA, INVASION

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BURGESS, T. & WINGFIELD, M.J. 2002. Quarantine is important in restricting the spread of exotic seed-borne tree pathogens in the southern hemisphere. *International Forestry Review* 4: 56–65. A-WOODY PLANT, A-PLANT-PATHOGEN, MANAGEMENT, QUARANTINE

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8.7 Alien Biota—Nonspecific Life Form (100)

8.7.1 A-Biota—NSLF—Ecology (13)

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BRUTON, M.N. & APPLETON, C.C. 1975. Survey of Mgobezeleni lake-system in Zululand, with a note on the effect of a bridge on the mangrove swamp. *Transactions of the Royal Society of South Africa* 41: 282–294. A-MOLLUSC, ESTUARY, LYMNAEA, ECOLOGY

CHOWN, S.L. 2000. Functional ecosystems: The Prince Edward Islands. In B.D. Durham & J.C. Pauw (eds), *Summary marine biodiversity status report for South Africa*, pp. 30, 31. National Research Foundation, Pretoria. A-BIOTA, ISLAND-SUBANTARCTIC, ECOLOGY

DAVIS, G.D. & RICHARDSON, D.M. (eds) 1995. *Mediterranean-type ecosystems: the function of biodiversity*. Ecological Studies 109. Springer-Verlag, Berlin. A-BIOTA, FYNBOS, ECOLOGY

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DE MOOR, F.C., DE MOOR, I.J. & SKELTON, P.H. 1998. Freshwater ecology. In R.A. Lubke & I.J. de Moor, (eds), *A field guide to the Eastern and southern Cape coasts*, pp. 281–286. UCT Press,

Cape Town. A-BIOTA, FRESHWATER, ECOLOGY, FIELD-GUIDE

FOXCROFT, L.C., CADENASSO, M.L. & PICKETT, S.T.A. 2006. Beyond filling the gaps: advancing the science of invasion ecology using a new conceptual framework. *Ecological Monographs* (submitted). A-BIOTA, ECOLOGY, RESEARCH, CONCEPT

GREVE, M., GREMMEN, N.J.M., GASTON, K.J. & CHOWN, S.L. 2005. Nestedness of Southern Ocean Island biotas: ecological perspectives on a biogeographic conundrum. *Journal of Biogeography* 32: 155–168. A-BIOTA, ISLAND-SUBANTARCTIC, ECOLOGY

HORTSTMAN, D.A., MCGIBBON, S., PITCHER, G.C., CALSER, D., HUTCHINGS, L. & WILLIAMS, P. 1991. Red tides in False Bay, 1959–1989, with particular reference to recent blooms of *Gymnodinium* sp. *Transactions of the Royal Society of South Africa* 47,4 & 5: 611–628. A-PHYTOPLANKTON, ECOLOGY, MARINE, INVASION, SPREAD, HISTORY, INTRODUCTION, BALLAST-WATER, GYMNODINIUM

MACDONALD, I.A.W., CRAWFORD, R.J.M., SIEGFRIED, W.R. & HUNTLEY, B.J. 1988. Long-term environmental change in and around southern Africa. *South African Journal of Science* 84: 483, 486. ECOLOGY, INVASION, GLOBAL-CHANGE

PITCHER, G.C. 1998. *Harmful algal blooms of the Benguela Current*, 20 pp. National Book Printers, Cape Town, South Africa. A-PHYTOPLANKTON, MARINE, ECOLOGY, INVASION, SPREAD, INTRODUCTION, BALLAST-WATER

PITCHER, G.C., BERNARD, S. & PIENAAR, R.N. 1999. Brown tides on the west coast. *Harmful Algal News* 18: 8–10. A-PHYTOPLANKTON, MARINE, ECOLOGY, INVASION, SPREAD, INTRODUCTION, BALLAST-WATER

8.7.2 A-Biota—NSLF—Identification (1)

LUBKE, R.A. & DE MOOR, I.J. (eds) 1998. *A field guide to the Eastern and southern Cape coasts*, 550 pp. UCT Press, Cape Town. A-BIOTA, IDENTIFICATION, INTRODUCTION, ECOLOGY, INVASION, SPREAD, IMPACT, HISTORY, FIELD-GUIDE

8.7.3. A-Biota—NSLF—Impact (9)

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DE MOOR, I.J. & BRUTON, M.N. 1998. Conservation. In R.A. Lubke & I.J. de Moor (eds), *A field guide to the Eastern and southern Cape coasts*, pp. 459–470. UCT Press, Cape Town. A-BIOTA, ECOLOGY, IMPACT, N-BIODIVERSITY, FIELD-GUIDE

FOXCROFT, L.C. 2004. Impacts of invasive alien species on biodiversity. *The Game Ranger* (Official magazine of the Game Rangers Association of Africa) 2: 12–14. A-BIOTA, ECOLOGY, INVASION, IMPACT, N-BIODIVERSITY, CONSERVATION, MANAGEMENT

GRIFFITHS, C.L., GRIFFITHS, M.H., HUTCHINGS, K., JERARDINO, A., KRUGER, N., LAMBETH, S.J.,

LESLIE, R.W., MELVILLE-SMITH, R., TARR, R., VAN DER LINGEN, C.D., VAN SITTERT, L., BEST, P.B., BROWN, A.C., CLARK, B.M., COOK, P.A., CRAWFORD, R.J.M., DAVIES, J.H.M. & DAVIES, B.R. 2004. Human impacts on marine animal life in the Benguela—a historical overview. *Oceanography and Marine Biology: an Annual Review* 42: 303–392. A-BIOTA, MARINE, ECOLOGY, INVASION, IMPACT, N-ANIMAL, INTRODUCTION

MARTENS, K. & DE MOOR, F.C. 1995. The fate of the Rhino Ridge pool at Thomas Baines Nature Reserve: a cautionary tale for nature conservationists. *South African Journal of Science* 91: 385–387. A-BIOTA, RIVER, IMPACT, CONSERVATION

NIEMELÄ, J., KOTZE, J., ASHWORTH, A., BRANDMAYR, P., DESENDER, K., NEW, T., PENEV, L., SAMWAYS, M.J. & SPENCE, J. 2000. The search for common anthropogenic impacts on biodiversity: a global network. *Journal of Insect Conservation* 4: 3–9. A-BIOTA, ECOLOGY, IMPACT, N-BIODIVERSITY, CONSERVATION, CO-OPERATION

O'KEEFFE, J.H. & DE MOOR, F.C. 1988. Changes in the physico-chemistry and benthic invertebrates of the Great Fish River, South Africa, following an interbasin transfer of water. *Regulated Rivers: Research and Management* 2: 39–55. A-BIOTA, T-BIOTA, RIVER, IMPACT, N-INVERTEBRATE, INTER-BASIN TRANSFER

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8.9 Alien Fish (509)

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8.11 Alien Amphibians—Reptiles—Mammals (46)

8.11.1 A-Amphibians—Reptiles—Mammals—Ecology (19)

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8.11.3 A-Amphibians–Reptiles–Mammals—Impact (5)

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8.12 Alien Animals—Nonspecific Life Form (21)

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8.12.3 A-Animals—NSLF—Impact (1)

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8.12.4 A-Animals—NSLF—Introduction (3)

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- ANAS, CHRYSOLOPHUS, COLUMBA, CYGNUS, FRINGILLA, PHASIANUS, STURNUS, TURDUS, HEMITRAGUS, SCIURUS

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Appendices

Appendix 1.—An example of questionnaire developed to solicit IAS expert personal details and opinions.

Entry format for SABSP Inventory of Expertise on Invasive Alien Species in the Republic of South Africa

Please enter ALL your entries in column F (below)

Surname (e.g. Venter)

First name (e.g. Stephanus)

Second name (e.g. Jacobus)

Third & Fourth names, etc.

Title (e.g. Prof., Dr, Mr, Mrs, Ms, Miss)

Preferred name of address (e.g. Fanie)

Highest Academic Qualification (e.g. Ph.D.)

Institution of highest qualification (e.g. UCT)

Year qualification obtained (e.g. 1976)

Affiliation (e.g. Weeds Unit, PPRI, ARC)

Post title (e.g. Senior Researcher)

Postal Address (fill in below opp. headings):

Department (e.g. Botany Dept., or E Cape Region)

Institution's name (e.g. DWAF or Univ. of Natal)

PO Box or Private Bag or Street Name (e.g. PO Box)

Number (e.g. 234)

Town or City (e.g. Pietermaritzburg)

Postal Code
(e.g.3220)

Contact details (fill in below opp headings):

Work telephone No. (e.g. 056 488 1570)

Work Fax No. (e.g. 056 488 1577)

Cellphone No. (e.g. 083 123 4567)

(do not give cellphone if you do not want this in)

E-mail address (e.g. johnH@iasman.co.za)

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Expertise details (fill in below opp headings):

Geographical area of IAS expertise

(e.g. RSA, or E. Cape)

Biome(s) of expertise

(e.g. Fynbos, Savanna, Marine, Freshwater)

Field(s) of expertise (as many as you wish)

(e.g. strategic planning of control ops, taxonomy)

IAS Taxa on which you are expert

(e.g. Woody plants, Hymenoptera, Fishes)

IAS Genera on which you concentrate

(e.g. *Acacia*, *Pinus*, *Sturnus*, *Salmo*)

Availability for consulting (fill in below):

Institutional Consulting (e.g. Yes or No)

Private Consulting (e.g. Yes or No)

Your preferences for the expertise listing (rate as below):

(Rate each as: 0 = not useful, 1 = useful, 2 = very useful)

Include anybody who wishes to be included (0, 1 or 2)

Include currently active researchers (0, 1 or 2)

Include also retired researchers (0, 1 or 2)

Include also deceased researchers (0, 1 or 2)

Include only researchers with > 3 published papers (0, 1 or 2)

Include only researchers with > 10 published papers (0, 1 or 2)

Include currently active managers (0, 1 or 2)

Include also retired managers (0, 1 or 2)

Include also deceased managers (0, 1 or 2)

Include only managers with > 3 yrs experience (0, 1 or 2)

Include only managers with > 10 yrs experience (0, 1 or 2)

Include only people others nominate as being an expert (0, 1 or 2)

Your views on putting the bibliography and list of expertise on a website:

I favour the final products of this project being put on a website (e.g. Yes or No)

Thank you for helping us with this project

(please save your completed spreadsheet as Your surname_your firstname.xls and return as an e-mail attachment to macdonald@sanbi.org)

Appendix 2.—Keywords to life forms, administrative and research topics applied in the bibliography with the number of articles relating to each presented in parenthesis.

Category of invasive organism

All categories

A-BIOTA (100)

Animals

A-ANIMAL (36), A-AQUATIC ANIMAL (17), A-AQUATIC INVERTEBRATE (12), A-ARTHROPOD (11), A-ASCIDIAN (1), A-BIRD (696), T-BIRD (21), A-COPEPOD (1), A-CRUSTACEAN (17), A-FISH (509), T-FISH (110), A-FISH-PARASITE (16), A-FISH-PATHOGEN (4), T-FROG (13), A-INVERTEBRATE (138), A-JELLYFISH (2), A-MAMMAL (35 [25]), A-MAMMAL-PARASITE (1), T-MAMMAL (10 [9]), A-MOLLUSC (38), A-REPTILE (7), T-REPTILE (5)

Micro-organisms

A-MICROBE (18), A-PLANT-PATHOGEN (36)

Plants

A-PLANT (307), T-PLANT (1), A-AQUATIC PLANT (170), A-SUCCULENT PLANT (208), A-GRASS (34), A-HERBACEOUS PLANT (57), A-PHYTOPLANKTON (4), A-WOODY PLANT (766)

Ecosystems, biomes and habitats

Aquatic

CANAL (5), ESTUARY (20), FISH-POND (44), FRESHWATER (44), INTERTIDAL-AREA (5), IMPOUNDMENT (94), MARINE (44), PAN (25), RIVER (144), WETLAND (3)

Terrestrial

AGRICULTURAL-AREA (3), FYNBOS (285), FOREST (57), GRASSLAND (30), KAROO (42), NAMA-KAROO (4), PASTURE (1), RANGELAND (1), RIPARIAN (16), ROAD RESERVE (1), SAVANNA (89), SUCCULENT-KAROO (1), SYLVICULTURAL-AREA (8), TERRESTRIAL (3), URBAN (40)

Insular

ISLAND (2), ISLAND-COASTAL (11), ISLAND-SUBANTARCTIC (34)

General topics

ABUNDANCE (74), ADAPTATION (4), AIR-POLLUTION (1), ANATOMY (1), AVIAN-FRUGIVORY (3), AVIFAUNA (4), BEHAVIOUR (29), BIBLIOGRAPHY (5), BIOGEOGRAPHY (18), BIOMASS (10), CLIMATE (5), COMPETITION (16), COMPUTERISED-DATABASE (3), CONCEPT (44), CONSERVATION (153), DATA (12), DIASPORE TYPE (1), DISPERSAL (2), DISTURBANCE (9), DORMANCY (7), ECOLOGY (1375), ECONOMICS (50), ECOPHYSIOLOGY (42), EDUCATION (1), FIELD-GUIDE (15), FIRE (41), FIRE-INTENSITY (3), FRUIT-PRODUCTION (1), GENETIC-MODIFICATION (1), GENETICS (8), GERMINATION (25), GIS (13), GLOBAL-CHANGE (27), GROWTH (49), HARD-SEEDEDNESS (1), HISTORY (294), IDENTIFICATION (334), INTER-BASIN TRANSFER (13), INTRODUCTION (515), INTRODUCTION-RATE (6), INVADABILITY (23), INVASION (1355), INVASIVENESS (39), LAND-USE (7), LETHAL-TEMPERATURE (1), LIFE-HISTORY-STYLE (1), LONGEVITY (1), MAPPING-PROJECT (10), MODELLING (38), MONITORING (6), MORPHOLOGY (14), MORTALITY (1), MYCORRHIZA (4), NITROGEN (2), NITROGEN-FIXATION (4), NUTRIENT (22), ORIGIN (10), PHENOLOGY (6), PHOTOSYNTHESIS (4), PHYSIOLOGY (71), POPULATION SIZE (1), RECRUITMENT (5), REGENERATION (33), REPRODUCTION (6), RESEARCH (25), ROADSIDE-SURVEY (10), SEDIMENTATION (1), SEED-BANK (41), SEED-BURIAL (2), SEED-DECAY (4), SEED-DISPERSAL (17), SEED-MORTALITY (1), SEED-PRODUCTION (4), SEED-SET (1), SEED-SIZE (2), SEEDLING-RECRUITMENT (9), SOCIAL (10), SOIL (9), SOIL-TEMPERATURE (4), SPECIES-MODELLING (8), SPREAD (1080), SURVEY (13), SURVEY-METHOD (1), TAXONOMY (36), TECHNIQUE (21), TEMPORAL CHANGE (1), UTILISATION (329), WATER-QUALITY (8)

Topics relating to the impacts of the invasion and category of organism impacted

IMPACT (662), [A-MAMMAL (4)], N-AQUATIC PLANT (4), N-BIODIVERSITY (54), N-BIRD (64), N-FROG (5), N-FISH (76), N-INVERTEBRATE (75), N-PLANT (89), N-PLANT-PATHOGEN (2), N-MAMMAL (6), N-MOLLUSC (1), N-RODENT (3), N-UNGULATE (1), AGRICULTURE (6), ALLELOPATHY (5), APICULTURE (3), DISEASE (4), DISEASE-VECTOR (3), GLEANING (5), GRAZING (4), HABITAT-DEGRADATION (10), HYBRIDIZATION (13), HYDROLOGY (32), LITTER (5), MUTUALISM (7), MYRMECOCHORY (11), PARASITISM (22), POLLINATION (7), PREDATION (11), NESTING (31), ROOSTING (3), [SEED-DISPERSAL], SOIL-DAMAGE (2), SOIL-EROSION (7), TOXICITY (2)

Categories of utilisation for which the invading organisms were introduced or are now being used

AGROFORESTRY (2), ANGLING (108), AQUACULTURE (114), AQUARIUM-TRADE (4), HORTICULTURE (19), FUELWOOD (9), [GRAZING (1)], MEDICINAL (2), SOIL-EROSION-CONTROL (3), SYLVICULTURE (28)

Categories of management actions or aspects of management

MANAGEMENT (1142), BIOCONTROL (516), AGENT-INTERFERENCE (17), AGENT-SELECTION (17), BALLAST-WATER (7), CHEMICAL (60), CLASSIFICATION (1), CLIMATE-MATCHING (2), CO-OPERATION (20), CO-ORDINATION (2) , CONFLICT-OF-INTERESTS (39), EARLY-WARNING (4), EVALUATION (53), EXPERTISE (6), INTEGRATED-CONTROL (48), LEGISLATION (36), N-ALTERNATIVE (2), PLANT-PATHOGEN (8), PREVENTION (22), PRIORITY (25), QUARANTINE (4), RE-INTRODUCTION (3), RESTORATION (47), RISK-ASSESSMENT (31), SEED-FEEDER (8), STRATEGIC (47), VOLUNTEERS (7)

Appendix 3.—Keywords to taxonomic groups applied in the bibliography with numbers of related articles relating to each presented in parenthesis (A = alien species; T = translocated species).

A-Fungi—mostly plant pathogens

AMYLOSTEREUM (1), ARMILLARIA (2), PHYTOPHTHORA (5), SPHAEROPSIS (1)

A/T-Fungi—biocontrol agents or pathogens on alien plants

CERATOCYSTIS (1), CERCOSPORA (1), COLLETOTRICHUM (4), CRYPHONECTRIA (2), MYCOVELLOSIELLA (1), PHAEORAMULARIA (1), PUCCINIA (1), PYTHIUM (1), UROMYCLADIUM (4)

A/T-Phytoplankton

CLADOPHORA (2), GYMNODINIUM (1)

A-Grass

AGROSTIS (3), CORTADERIA (1), PENNISETUM (1), STIPA (30)

A-Herbaceous Plant

AGERATINA (5), AMARANTHUS (3), ARGEMONE (1), BRYOPHYLLUM (2), CAMPULOCLINUM (2), CANNA (1), CARDUUS (1), CIRSIUM (9), CONVULVULUS (1), DATURA (2), HEDYCHIUM (1), MEDICAGO (1), PARTHENIUM (3), XANTHIUM (8)

A-Woody Plant

ACACIA (232), ARAUJIA (1), ATRIPLEX (3), BANKSIA (3), CAESALPINIA (4), CARDIOSPERMUM (1), CASSIA (1), CESTRUM (1), CHROMOLAENA (69), EUCALYPTUS (33), GMELINA (1), HAKEA (114), HYPERICUM (21), JACARANDA (2), LANTANA (76), LEPTOSPERMUM (30), MACFADYENA (4), MELIA (3), METROSIDEROS (2), MYOPORUM (1), NERIUM (7), NICOTIANA (5), PARASERIANTHES (37), PASSIFLORA (2), PINUS (89), PITTOSPORUM (4), POPULUS (6), PROSOPIS (35), PSIDIUM (2), PYRACANTHA (1), RICINUS (1), ROBINIA (1), RUBUS (29), SALIX (5), SESBANIA (50), SOLANUM (88), TETRACLINIS (1)

A-Succulent Plant

CEREUS (3), HARRISIA (6), OPUNTIA (228), PERESKIA (7)

A- Aquatic Macrophyte

ARUNDO (1), AZOLLA (30), EICHHORNIA (90), MYRIOPHYLLUM (28), PISTIA (16), SALVINIA (25)

A-Ostracod

CANDONOCYPRIS (1), CYPRIS (1), HEMICYPRIS (1), STENOCYPRIS (1)

A-Anenome

METRIDIUM (1)

A-Jellyfish

CRASPEDACUSTA (2)

A-Fish Parasite

ACHTHERES (3), APIOSOMA (1), ARGULUS (6), BOTHRIOCEPHALUS (5), CHILODONELIA (1), CLINOSTOMUM (3), DACTYLOGYRUS (1), EUCLINOSTOMUM (2), ICHTHYOBODO (1), ICHTHYOPHTHIRIUS (3), LERNAEA (4), MYXOSOMA (4), PSEUDACOLPENTERON (1), TRICHODINA (4), TRICHODINELLA (1)

A-Crustacean

ARTEMIA (2), CARCINUS (2), CHERAX (8), DAPHNIA (11), MACROBRACHIUM (5), PACIFASTACUS (2), PORCELLIO (1), PROCAMBARUS (5)

A-Molluscs

BEDEVA (1), BIOMPHALARIA (2), HELISOMA (6), LYMNAEA (20), MYTILUS (9), PHYSA (9), PILA (2), THAIS (2), UROSALPINX (1)

A-Insect

ANOPILOLEPIS (1), CAMPONOTUS (1), CARDIOCONDYLA (2), LEPISIOTA (1), LIMNOPHYES (1), LINEPITHEMA (25), MONOMORIUM (1), PARATRECHINA (2), PIERIS (1), PLAGIOLEPIS (1), PLUTELLA (3), SIREX (1), SOLENOPSIS (1), TECHNOMYRMEX (2), VESPUA (1)

A-Biocontrol agents mites, insects, etc.

ACALLEPITRIX (1), ACERIA (1), ALCIDION (1), ALCIDODES (2), ALGAROBIUS (5), ANTHONOMUS (2), APHIS (1), ARVELIUS (1), BELLURA (2), BRUCHOPHAGUS (1), CACTOBLASTIS (16), CACTOPHAGUS (1), CALCOMYZA (2), CARPOSINA (4), CHARIDOTIS (3), CONCHYLOCTENIA (1), CORNOPS (2), CYDMAEA (1), DACTYLOPIUS (25), DICOMADA (1), ECCRITOTARSUS (8), ERYTENNA (4), EXOCHOMUS (3), FALCONIA (2), GARGAPHIA (6), GRATIANA (4), HYPOGEOCOCCUS (1), LEPTINOTARSA (5), LIXUS (1), LONGITARSUS (1), MELANTERIUS (9), METRIONA (1), MIMORISTA (4), NANAIA (1), NEOCHETINA (2), NELTUMIUS (3), NEODIPLOGRAMMUS (1), NEOHYDRONOMUS (2), NIPHOGRAPTA (1), OPHIOMYIA (3), ORTHOGALUMNA (1), PACHYCENTRINUS (1), PAULINIA (1), PAREUCHAETES (3), PHENRICA (1), PISSODES (1), PLATYPHORA (2), PSEUDOLAMPSIS (1), RHYSSOMATUS (5), STENOPELMUS (3), TELEONEMIA (1), TRICHAPION (8), TRICHILOGASTER (16), TUCUMANIA (8)

A-Amphibian

CRYPTOBRANCHUS (2)

T-Amphibian

PHRYNOMERUS (1), XENOPUS (12)

A-Fish

ARISTICHTHYS (14), CARASSIUS (26), CTENOPHARYNGODON (27), CYPRINUS (156), ESOX (4), EUTROPIUS (2), GAMBUSIA (26), HYPOPHTHALMICHTHYS (26), ICTALURUS (3), IDUS (3), LEPOMIS (88), LEUCISCUS (2), MICROPTERUS (157), MORONE (5), MYLOPHARYNGODON (8), ONCORHYNCHUS (4), PERCA (40), POECILIA (4), RUTILUS (3), SALMO (249), SALVELINUS (27), SAROTHERODON (2), SCARDINIUS (3), SCOPHTHALMUS (3), SOLEA (2), TINCA (43), XIPHOPHORUS (4)

T-Fish

ALESTES (1), ANGUILLA (1), ASTATOTILAPIA (2), AUSTRORGLANIS (3), BARBUS (48), CLARIAS (25), HYDROCYNUS (3), KNERIA (3), LABEO (20), MUGIL (11), MYXUS (5), NOTHOBRANCHIUS (1), OREOCHROMIS (75), PSEUDOCRENILABRUS (1), SANDELIA (2), SERRANOCHROMIS (14), TILAPIA (61)

A-Reptile

CHRYSEMYS (2), RAMPHOTYPHLOPS (2)

T-Reptile

CORDYLUS (1), CROCODYLUS (3), HOMOROSELAPS (1)

A-Terrestrial Bird

ACRIDOTHERES (175), AGAPORNIS (10), ALECTORIS (11), AMANDAVA (1), ARATINGA (1), CACATUA (1), CARDUELIS (9), COLINUS (3), COLUMBA (33), CORVUS (27), CHRYSOLOPHUS (1), DROMAIUS (1), FALCO (1), FORPUS (2), FRINGILLA (67), GALLUS (2), GEOPELIA (1), LOPHORTYX (1), LOPHURA (1), LUSCINIA (5), MELOPSITTACUS (12), NANDAYUS (1), NYMPHICUS (4), PADDA (2), PAROARIA (12), PARUS (2), PASSER (335), PAVO (1), PHASIANUS (5), PSITTACULA (25), STURNUS (209), TURDUS (20)

A-Aquatic Bird

AIX (5), ANAS (29), ANSER (1), AYTHYA (8), CAIRINA (2), CYGNUS (40), FULICA (3), GALLINULA (7), TADORNA (9)

T-Bird

EUPLECTES (2), FRANCOLINUS (2), LAGONOSTICTA (2), NETTAPUS (2), NUMIDA (10), PLOCEUS (2), POICEPHALUS (9), STREPTOPELIA (10), STRUTHIO (7)

A-Mammal

CERVUS (1), FELIS (6), HEMITRAGUS (5), MUS (12), MYOCASTOR (1), PORCUS (1), RATTUS (7), SCIURUS (3)

T-Mammal

ANTIDORCAS (1), HIPPOPOTAMUS (1), HIPPOTRAGUS (4), TRAGELAPHUS (1)