



DST-NRF Centre of Excellence
“Birds as Keys to Biodiversity Conservation”
Percy FitzPatrick Institute, UCT

ANNUAL REPORT 2009

Reporting Period
1 January - 31 December 2009

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CoE Identification

Name of Director	:	Prof. Philip A. R. Hockey
Name of CoE	:	DST-NRF Centre of Excellence at the Percy FitzPatrick Institute of African Ornithology
Abbreviated CoE Name	:	PFIAO CoE
Host Institution	:	University of Cape Town
Date completed	:	15 March 2010

EXECUTIVE SUMMARY

1. Financial Information (Funding of the CoE, excluding funding of the Percy FitzPatrick Institute as a whole)

Total NRF CoE funding for 2009	:	R 2,966,920*
Carry forward from 2008	:	R 653,428
Interest earned during 2008	:	R 80,932
UCT support for Chair in Conservation Biology in 2009	:	R 240,000**
Funding from other sources for the CoE in 2009	:	R 5,318,200***
Total funding	:	R 9,259,480

* includes 'normal' NRF CoE grant plus additional grants of R480 000 for 3 post doctoral fellows & R15 000 for a visiting scientist

** includes contribution to the Chair in Conservation Biology (R240 000) not reported on in the audited CoE financial statements

*** includes funding from sources other than the NRF for projects conducted by the CoE (see Finances Section pages 16 - 19). Does not include funding provided by collaborating institutions to CoE members at those institutions.

2. Summary of progress against Five Key Performance Areas

(i) Research

A total of 61 papers were published in SCI-rated peer-reviewed journals in 2009, 35 in journals with a rating ≥ 1.5 , 14 in journals with a rating ≥ 3.5 , and unfortunately none in a journal with a rating ≥ 10 during 2009. The proportion of peer-reviewed papers published according to the focal research areas is; characterizing biodiversity = 6, evolutionary ecology = 21 & maintaining biodiversity = 34.

(ii) Education and Training

Forty-five post-graduate students (15 PhD, 28 MSc and two BSc Honours) registered at South African institutions (40% black and 50% women) were supported directly or indirectly by the CoE during 2009. Eleven MSc Conservation Biology and 2 BSc Honours students graduated during 2009. Twelve Post-doctoral Fellows were supported directly or indirectly by the CoE during 2009.

(iii) Information Brokerage

Fifty-four semi-popular articles and eight contributions to semi-technical books were published during 2009. CoE members attended twelve international and three local conferences. CoE members also presented seminars and illustrated talks at numerous universities, bird clubs, and membership-based societies.

(iv) Networking

A broad range of close collaborative working relationships with scientific peers and a variety of conservation NGOs and governmental organisations exists both nationally and internationally. The CoE continued to be involved with student training initiatives.

The CoE continues to build much-needed African capacity in the broad arena of biodiversity conservation.

(v) Service rendering

The CoE has been active in advising conservation organizations, government departments and industry on a variety of research projects. CoE members served on six journal editorial boards and reviewed at least 47 papers for peer-review journals. Three conservation management commissioned activities were engaged with.

3. Gender impacts of research

A proactive policy on recruiting women maintained a 50% representation of women in the postgraduate student body for 2009. This meets the objective of an equal representation of men and women within the CoE. A representative group of female students prepared a discussion document on the “Gender relevance of research at the PFIAO” for the CoE Board meeting of 16 November 2009.

4. Red Flags / concerns for the future of the CoE

The challenge of attracting black South African students continues to be addressed through approaches that include a week-long Academy in Biodiversity Conservation and competitive CoE bursaries to top-quality students. The consequence of not replacing the Senior Lecturer post for the whole year has meant that the scientific output has been suppressed. This has now been compounded by Dr Yohannes’s last-minute withdrawal from her appointment to this position. The appointment process for this post will now be revisited. Beyond the impact on scientific output, there will also be a reluctance to take on new students (apart from the MSc CB class) during 2010.

5. General Comments

The CoE continues to achieve its targets in the quality of its research publications, as measured by their impact factors, and as reflected in the research output targets of Service Level Agreement 4 which was approved during 2009. A significant activity of 2009 was the 5-year external review of the CoE in February and the addressing of the review panel’s comments. The CoE has during 2009 made strategic advancements to increase its terrestrial ornithology work and its conservation work. We thank the Board members for their commitment and advice for the ongoing functioning of the Centre. Significant preparation and initiation activities took place during 2009 to celebrate the 50th Anniversary of the PFIAO in 2010. It is anticipated that marketing of the 50th Anniversary will enhance the profile and financial sustainability of the PFIAO/CoE.

Progress with 50th Anniversary activities can be followed on the revamped PFIAO website www.fitzpatrick.uct.ac.za. We have developed a special Alumni feature on the Institute’s website to act as a virtual reunion template and a point of access to the whereabouts of Institute Alumni. All Fitz Alumni will be invited to ensure that their paths since graduating are reflected on the site and it is intended that this will replace the student fate records.

PROGRESS REPORT

1. Scientific Research

Objective

The research strategy of the CoE has been aligned to a medium-term goal of producing world-class research outputs, measured as the number of papers published in international peer-reviewed journals with high SCI impact factor ratings. To meet this goal, the CoE SLA 4 has a target of publishing ≥ 40 peer-reviewed publications per year, with an average of ≥ 2 papers with an impact rating ≥ 10 and ≥ 10 papers with an impact rating ≥ 3.5 each year during 2009-2011 (Fig. 1).

Progress

Sixty-one papers carrying the CoE address were published in peer-reviewed SCI-rated journals during 2009 (Appendix 1), 35 of which were published in journals with an impact factor rating ≥ 1.5 . Fourteen of these papers were in journals with impact factors ≥ 3.5 , but unfortunately none in a journal with a rating ≥ 10 during 2009. The proportion of peer-reviewed papers published according to the focal research areas is; characterizing biodiversity = 6, evolutionary ecology = 21 & maintaining biodiversity = 34. Appendix 2 reflects individual CoE member publication outputs.

FitzPatrick Institute publications in SCI-rated journals, 2000-2009

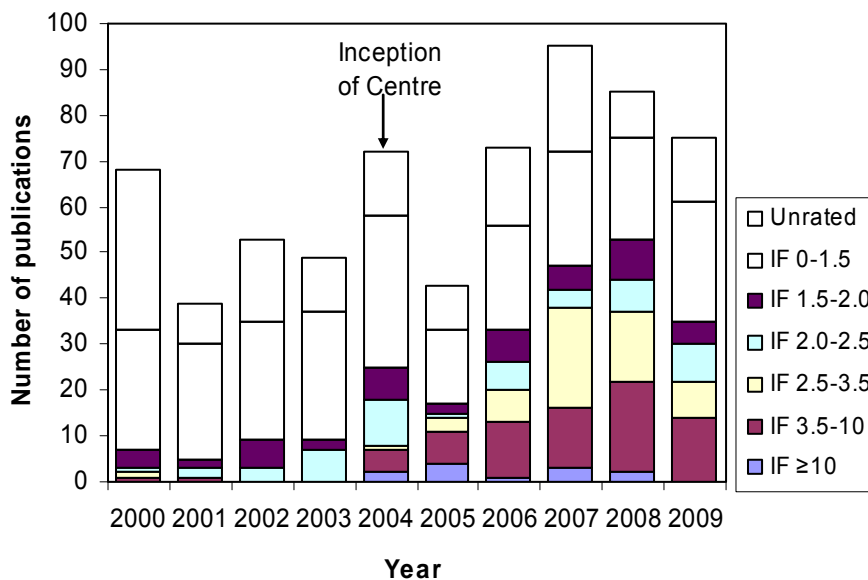


Fig. 1. Trend in the quality of CoE publications (measured by journal 'Impact Factors') before and since the establishment of the Centre of Excellence. IF = Impact Factor. To place the figure in perspective, only five life sciences journals (including Science and Nature) have impact factors > 10 .

2. Education and Training

Objective

The short-term objective, as outlined in the SLA 4, is for the CoE to support (at least partially) an average of ≥ 20 students and ≥ 5 postdoctoral fellows per annum during 2009-2011. A further target is for black students to comprise $\geq 30\%$ of the students supported by the CoE over this period. A medium- to long-term objective is to continue to build a vibrant research environment that instils a rigorous hypothetico-deductive approach to problem solving among the postgraduate student body.

Progress

Fifteen PhD, 28 MSc and two BSc Honours students (total = 45) registered at South African institutions were supported directly or indirectly by the CoE during 2009. Eighteen (40%) of these students were black, and 22 (50%) were women. Seventeen (38%) of the 45 students were South African, but there were only two black South African students. Four new Postdoctoral Fellows, one PhD and 12 MSc (11 CB Course) students started at the CoE during 2009. Eleven MSc Conservation Biology and 2 BSc Honours students graduated in 2009.

Timothy Cook, Douglas Loewenthal (both Post Docs) and Ian Little (PhD student) attended a Multivariate Statistical Modeling of Ecological Data Workshop at the University of Stellenbosch during December 2009. The workshop was presented by Michael Greenacre of the Department d'Economia i Empresa, Universitat Pompeu Fabra, Barcelona, Spain. Following this, the CoE students now hold a statistical thought-sharing session for an hour each Tuesday which is proving to fill a gap in statistical support and a valuable joint venture training initiative.

The 3rd Biodiversity Conservation Academy, a joint venture between the CoE for Invasion Biology (CIB) and the PFIAO CoE, was held at Potberg Environmental Education Centre in De Hoop Nature Reserve from 19 – 23 January 2009. The Academy was attended by 14 students selected from across South African universities, three of whom were interns from the South African National Biodiversity Institute. Ten students were from historically disadvantaged backgrounds and six were women. Eight academic and support staff from the two centres, and two volunteers, helped with the management and running of the Academy. Included in the staff were the Directors of the two Centres, Profs Steven Chown and Phil Hockey. The 5-day Academy programme immersed students in an intensive series of theoretical, practical and philosophical discussions and field-work sessions on biodiversity conservation. The main aim of these sessions was to enhance student appreciation for the complexity of biodiversity, sharpen their knowledge and skills required to assess it, and broaden their knowledge of the theory and practice of conservation in a South African context. The Academy report can be viewed on our website www.fitzpatrick.uct.ac.za. The Academy received high commendation from the CoE five-year review Panel.

The CoE secured additional DST/NRF funding for another three postdoctoral fellows from 2009: all three of who have been registered and are conducting research at the Institute. A generous donation of R84 000 was received from The Nature Conservation Corporation which has enabled the purchase of a complete new set of computers for the MSc Conservation Biology Course.

3. Information Brokerage

Objective

Medium-long term objectives are to: (1) develop the basis for making a sustained contribution to the semi-popular literature aimed at popularizing science in the fields of conservation biology in general, and ornithology in particular; (2) provide expert views on relevant matters for newspaper and magazine articles; and (3) contribute to books of a semi-technical nature. A further aim of the CoE is to organise at least one local conference during 2009-2011.

Progress

Fifty-four semi-popular articles were published during 2009 (see Appendix 1). CoE members also contributed to eight books.

The findings of the Ground-Hornbill Project in the Associated Private Nature Reserves (APNR) complex adjacent to the Kruger National Park have been produced as a DVD titled "Hornbill in Crisis", which has been well received by funders and potential supporters.

CoE members also continued to present regular public talks to partner organisations and interested parties, such as NGOs, Environmental Action Groups, Conservancies and various Bird Clubs and membership-based societies. Radio interviews have also been conducted on stations including Cape Talk Radio and Bush Radio.

CoE staff and students attended twelve international and three local conferences during 2009 (see Outputs section). Prof. Graeme Cumming was on the local organising committee for the international DIVERSITAS Open Science Conference 2, "Biodiversity and Society: Understanding connections, adapting to change" which was held in Cape Town during October 2009. Owen Davies was awarded top prize for a poster presented by a MSc student at the 50th Zoological Society of South Africa (ZSSA) symposium during July 2009.

4. Networking

Objective

Medium- to long-term objectives are to: (1) establish a wide range of key collaborative associations with scientific peers and peer research groups, both locally and abroad; (2) establish partnerships with conservation organisations and NGOs; and (3) establish strong relationships with business organisations with either direct or indirect interests in the field of conservation biology.

Progress

The CoE continued its involvement with joint-venture student training initiatives and other networking interactions between institutions directly or loosely collaborating with the CoE. Primary collaboration continued with the molecular laboratories of Prof. Paulette Bloomer at the University of Pretoria and of Assoc. Prof. Rauri Bowie at the

University of California, Berkeley and with Assoc. Prof. Andrew McKechnie at the University of Pretoria.

A diversity of close collaborative working relationships with scientific peers now exist both nationally and internationally (see list of collaborators below). Ten of the 12 Post-doctoral Fellows came from seven different foreign countries.

The Conservation Biology Course has continued to build much-needed capacity within and outside of South Africa in the broad area of biodiversity conservation, with the graduation of students from the USA (x2), UK (x2), Botswana, Germany, Kenya, Malawi and Zimbabwe and the enrolment of students from Kenya (x2), USA (x2), DRC, Rwanda and Zambia during 2009.

5. Service rendering

Objective

A medium- to long-term objective is to establish formal contact with a range of conservation agencies and other relevant government bodies, such as Dept Environmental Affairs, Dept Agriculture and Dept Water Affairs & Forestry, to ensure the expertise of the CoE can be used to address practical research and information needs. CoE members will continue to render their services to the broader scientific community and the general public.

Progress

Links continue to be serviced with a diversity of conservation agencies, NGO's, government departments, and industry players. These include Dept Environmental Affairs (including the Marine & Coastal Management Directorate), Dept Water Affairs & Forestry, Dept Agriculture, South African National Biodiversity Institute (SANBI), SANParks, IUCN, Conservation International, Fauna & Flora International, RSPB, BirdLife South Africa, CapeNature, Endangered Wildlife Trust, Namibian Ministry of the Environment, Wildlife Conservation Society, the Nature Conservation Corporation, South African Deep Sea Trawling Industry Association and I&J.

CoE members serve on the editorial boards of six scientific journals: *Biological Conservation*, *Diversity and Distributions*, *Bird Conservation International*, *Ostrich*, *African Journal of Marine Science*, and *Southern African Journal of Wildlife Research*. CoE members also reviewed at least 47 papers for peer-reviewed international and local journals during 2009.

Prof Phil Hockey serves on the BirdLife South Africa Rarities, List and Conservation Committees. Prof Tim Crowe serves on the International Ornithological Congress Committee and the Board of the South African Biodiversity Information Facility. Prof Paulette Bloomer is President of the Southern African Society for Systematic Biology. She is also a member of the IUCN Specialist Group on Afrotheria, the Yellowfish Working Group Scientific Panel and the steering committee of the South African Biosystematics Initiative. A/Prof. Peter Ryan is a member of the IMAF Working Group of CCAMLR and the South Atlantic Island Plant Specialist Group, which is part of the IUCN Species Survival Commission. He is a Tristan da Cunha Conservation Officer and a member of the Tristan Biodiversity Advisory Group. Prof. Graeme Cumming was a member of the local organising committee for the DIVERSITAS meeting held in Cape Town in October 2009.

Ian Little submitted an invited report to the Mpumalanga Parks Agency supporting a recommendation to reduce the number of indigenous mammal herbivores on the Ramsar Site, Verloren Vallei Nature Reserve. This brought about the reconsideration of indigenous mammal herbivore management on the reserve. He is also conducting an avian component of an environmental assessment for the Bongani Minerals proposed Riviera Tungsten Mine near Piketberg.

Andrew Jenkins conducted the avian component of an environmental assessment for a proposed high-voltage power line between Victoria West and Melkbosstrand.

6. Gender and equity impacts of research

Objective

A medium- to long-term objective is to ensure that gender issues are considered in all aspects of the CoE's work, with the goal of maintaining an equal representation of men and women within the CoE in the long term.

Progress

The CoE continues to be guided by a proactive recruitment policy to attract female postgraduates to ensure gender parity in the CoE student body. This policy has been successful: in 2009, 50% of postgraduate students supported by the CoE were women. Furthermore, 42% of the 12 postdoctoral fellows working with the CoE during 2009 were women. The academic and support staff profile of the CoE has improved and stands at 44% females.

A number of issues regarding the gender relevance of research at the Fitz CoE were discussed at a meeting of four female postgraduate students and two female post-doctoral fellows. The meeting explored ways in which research at the PFIAO affects or uplifts women in Africa. They also discussed the challenges facing female researchers in general and specific problems or concerns that have arisen while carrying out biological/conservation-related research at the PFIAO. A discussion document "Gender relevance of research at the PFIAO" was tabled at the CoE Board meeting of 16 November 2009.

One interesting point included in the discussion document was that some research at the PFIAO has broad relevance to women's health and food security. For example, in rural Africa, women are generally responsible for the preparation of food and looking after households. Research at the PFIAO into avian malaria and avian influenza, diseases which affect chickens and other poultry, may provide information that can be used to educate African women about the risks of handling poultry and causes of the spread of these diseases.

Furthermore, when working on community conservation projects, educational activities often target women to enhance buy-in and compliance from the community and, ultimately, ensure the success of the project. For example, with regards to deforestation of conservation areas in Africa, it is most often the responsibility of women and children to collect firewood for cooking and cleaning at home. To deter women from cutting down trees in conservation areas, conservation projects need to work with women (e.g. finding alternative sources of fuel) and educate women about why conservation areas are important.

The Board also resolved to look into aspects of safety and risks relating to female students in the field. It has been really unfortunate that Dr Elizabeth Yohannes has withdrawn from her appointment to the core staff team, which would have greatly helped with the gender leadership and role model issues.

HUMAN RESOURCES

The following people worked within the CoE during 2009 (or part thereof).

Table 1. Core Team Members for 2009

Title	Surname	Citizenship	Institution	Gender	Race	H-Rating ISI*	% time spent working in CoE
Ms	Mandiwana	South Africa	UCT – Botany	F	B	1	25
Dr	O’Ryan	South Africa	UCT - MCB	F	B	8	10
Prof.	Bloomer	South Africa	U. Pretoria	F	W	9	10
Dr	Turpie	South Africa	UCT	F	W	15	10
Dr	Bowie	South Africa	U. Cal., Berkley	M	W	14	50
Prof.	Crowe	South Africa	UCT	M	W	20	100
Prof.	Cumming	South Africa	UCT	M	W	17	100
Prof.	Hockey	UK (SA res)	UCT	M	W	23	100
A/Prof.	McKechnie	South Africa	U. Pretoria	M	W	10	30
A/Prof.	Ryan	South Africa	UCT	M	W	24	100

* ISI H-rating as on 5 March 2010

Dr Rob Little was appointed as the Manager of the CoE in April 2009. Dr Elizabeth Yohannes was appointed as Senior Lecturer and would have commenced in May 2010, but withdrew in February 2010.

Table 2. Research Associates & Honorary Professors for 2009

Title	Surname	Citizen	Institution	Gender	Race	% time spent working in CoE
Dr	Barnard	UK	SANBI	F	W	3
Dr	Covas	SA	UCT	F	W	10
Dr	Milton	SA	UCT	F	W	40
Dr	Spottiswoode	SA	U Cambridge, UK	F	W	30
Dr	Dean	SA	UCT	M	W	20
Prof	Cumming	Zimbabwe	U Zimbabwe	M	W	10
Dr	Milewski	Australia	Murdoch U., W. Aus.	M	W	20
Dr	Jenkins	SA	UCT	M	W	20
Dr	Kemp	SA	UCT	M	W	1
Dr	Simmons	UK	UCT	M	W	40

Table 3. Post Docs for 2009

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE	CoE funding support level		
							Bursary	Running	Indirect
Dr	Nchu *	Cameroon	UCT	M	B	100	Yes	Yes	Yes
Dr	Covas	Portugal	UCT	F	W	100	No	Yes	Yes
Dr	Pichegru	France	UCT	F	W	100	No	Yes	Yes
Dr	Ridley	UK	UCT	F	W	100	Yes	Yes	Yes
Dr	Rondon	USA	UCT	F	W	100	No	No	Yes
Dr	Techow	Germany	UCT	F	W	100	Yes	Yes	Yes
Dr	Bray	SA	U. Pretoria	M	W	100	Yes	Yes	Yes
Dr	Cook *	France	UCT	M	W	100	Yes	Yes	Yes
Dr	De Melo	Spain	UCT	M	W	100	No	Yes	Yes
Dr	Fuchs	France	Kerkeley, Cal.	M	W	100	Yes	Yes	Yes
Dr	Loewenthal	SA	UCT	M	W	100	Yes	Yes	Yes
Dr	Martin *	UK	UCT	M	W	100	Yes	Yes	Yes

* = Post Docs receiving the extra NRF grant of R480 000.

Table 4. List of students for 2009

Title	Surname	Citizenship	Institution	Gender	Race	Degree	1 st year	CoE funding support level		
								Bursary	Running	Indirect
Ms	Mandiwana	SA	UCT	F	B	PhD	2004	No	No	Yes
Ms	Okanga	Kenya	UCT	F	B	PhD	2009	No	No	Yes
Mr	Chaskda	Nigeria	UCT	M	B	PhD	2007	No	No	Yes
Mr	Kaliba	Malawi	UCT	M	B	PhD	2007	Yes	Yes	Yes
Mr	Lokugalappatti	Sri Lanka	Berkeley, US	M	B	PhD	2005	No	Yes	Yes
Mr	Ngoma	Malawi	UCT	M	B	PhD	2005	No	No	Yes
Ms	Costa	Brazil	UCT	F	W	PhD	2007	No	No	Yes
Ms	Jones	SA	UCT	F	W	PhD	2007	No	No	Yes
Ms	Nelson-Flower	Canada	UCT	F	W	PhD	2005	Yes	Yes	Yes
Ms	Nupen	SA	UCT	F	W	PhD	2008	Yes	Yes	Yes
Ms	Ponte Machado	Canary Islands	UCT	F	W	PhD	2003	No	No	Yes
Ms	Ribeiro	Portugal	UCT	F	W	PhD	2007	No	Yes	Yes

Mr	Cohen	SA	UCT	M	W	PhD	1999	No	No	Yes
Mr	Little	SA	UCT	M	W	PhD	2007	No	No	Yes
Mr	Oatley	SA	UCT	M	W	PhD	2005	No	Yes	Yes
Ms	Ditlhobolo	Botswana	UCT	F	B	MSc CB	2008	No	No	Yes
Ms	George	Zambia	UCT	F	B	MSc CB	2009	No	No	Yes
Ms	Githiora	Kenya	UCT	F	B	MSc CB	2009	No	No	Yes
Ms	Musvuugwa	Zimbabwe	UCT	F	B	MSc CB	2008	No	No	Yes
Ms	Mzumara	Malawi	UCT	F	B	MSc CB	2008	No	Yes	Yes
Mr	Bewana	SA	UCT	M	B	MSc CB	2008	Yes	Yes	Yes
Mr	Gichohi	Kenya	UCT	M	B	MSc CB	2009	No	No	Yes
Mr	Kissoon	Guyana	UCT	M	B	MSC CB	2009	No	No	Yes
Mr	Kujirakwinja	DRC	UCT	M	B	MSc CB	2009	No	No	Yes
Mr	Mutumi	Zimbabwe	UCT	M	B	MSc	2008	No	Yes	Yes
Mr	Ndlovu	Zimbabwe	UCT	M	B	MSc	2007	No	Yes	Yes
Mr	Tuyisingize	Rwanda	UCT	M	B	MSc CB	2009	No	No	Yes
Ms	Cordingley	Kenya	UCT	F	W	MSc CB	2008	No	Yes	Yes
Ms	Hamann	Germany	UCT	F	W	MSc CB	2008	Yes	Yes	Yes
Ms	Moseley	SA	UCT	F	W	MSc CB	2009	No	No	Yes
Ms	Quayle	UK	UCT	F	W	MSc CB	2008	No	No	Yes
Ms	Shaw	UK	UCT	F	W	MSc CB	2008	No	No	Yes
Ms	Skidmore	USA	UCT	F	W	MSc CB	2009	No	No	Yes
Ms	Van Rensburg	SA	Univ. Pta	F	W	MSc	2007	Yes	Yes	Yes
Ms	Wilson	SA	UCT	F	W	MSc CB	2009	No	No	Yes
Mr	Davies	SA	UCT	M	W	MSc	2008	Yes	Yes	Yes
Mr	Dures	SA	UCT	M	W	MSc CB	2008	No	No	Yes
Mr	Heermans	USA	UCT	M	W	MSc CB	2009	No	No	Yes
Mr	Marais	SA	UCT	M	W	MSc CB	2009	Yes	No	Yes
Mr	Meek	USA	UCT	M	W	MSc CB	2008	No	No	Yes
Mr	Menayas	USA	UCT	M	W	MSc CB	2008	No	No	Yes
Mr	Smit	SA	Univ. Pta.	M	W	MSc	2007	Yes	Yes	Yes
Mr	Thompson	SA	UCT	M	W	MSc	2009	Yes	Yes	Yes
Ms	De Abreu	SA	UCT	F	W	BSc Hon	2009	Yes	Yes	Yes
Mr	Mingo	SA	UCT	M	W	BSc Hon	2009	Yes	Yes	Yes

Table 5. Collaborators (Loosely involved with CoE) during 2009

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE
Dr	Abolnik	SA	Onderstepoort VI	F	W	2
Dr	Allen	SA	Durban Mus	M	W	1
Mr	Anderson	SA	N Cape N Cons	M	W	5
Dr	Aronson	France	CNRS	M	W	1
Prof	Balmford	UK	Cambridge	M	W	2
Dr	Barker	USA	U Minnesota	M	W	1
Dr	Barrowclough	USA	A Mus Nat Hist	M	W	1
Dr	Bates	USA	Chicago Mus.	M	W	1
Dr	Beresford	USA	Stockton Coll	F	W	1
Prof	Blignaut	SA	U Pretoria	M	W	1
Dr	Bodin	Sweden	Lund Univ.	M	W	2
Dr	Boucher	SA	U Stellenbosch	M	W	1
Dr	Caron	France	CIRAD	M	W	2
Mr	Chiweshe	France	CIRAD	M	B	2
Dr	Gaidet	France	CIRAD	M	W	2
Dr	Gous	SA	SANCOB	M	W	5
Prof	Gremillet	France	CNRS	M	W	5
Dr	Freckleton	UK	Oxford U	M	W	1
Dr	Hatchwell	UK	U Sheffield	M	W	5
Prof	Hedderson	SA	UCT	M	W	1
Dr	Hilton	UK	RSPB	M	W	1
Prof	Huntley	UK	U of Duham	M	W	1
Prof	Jansen	SA	Tswane U Tech	M	W	1
Dr	Jetz	USA	U Cal. San Diego	M	W	1
Dr	Kock	SA	WCS	M	W	2
Prof	Lovegrove	SA	U KZN	M	W	5
Mr	Magunje	Zimbabwe	BirdLife Zim	M	B	5
Dr	Mzilikazi	SA	MNMMU	M	B	5
Prof	Richardson	SA	U Stellenbosch	M	W	1
Dr	Ropert-Coudert	Japan	N I Polar Res	M	W	1
Prof	Swanson	USA	U South Dakota	M	W	1
Dr	Sorenson	USA	Boston U	M	W	1
Dr	Woodborne	SA	CSIR	M	W	5

Table 6. Administrative Staff for 2009

Title	Surname	Position	Based at	Gender	Race
Mrs	Buchanan	Administrator	UCT	F	W
Mrs	Jansen	Snr Secretary	UCT	F	B
Mrs	Koopman	Librarian	UCT	F	W
Dr	Little	CoE Manager	UCT	M	W
Mr	Mansfield	Research manager	UCT	M	B
Mr	Tobler	Snr technical officer	UCT	M	W

Mr Mansfield retired after 35 years service in December 2009. He was replaced in January 2010 by Ms Anthea Links.

Table 7: Summary table of CoE academic staff & students in 2009, with numbers expected for 2010. These figures include Project Leaders & CoE supported students at collaborating institutions.

Member category	Gender	Race	Number in 2009	Number in 2010
Project leader	F	B	2	2
	F	W	2	3
	M	W	6	6
	Total		10	11
Postdoc	M	B	1	1
	F	W	5	6
	M	W	6	7
	Total		12	14
PhD	F	B	2	1
	M	B	4	3
	F	W	6	4
	M	W	3	1
	Total		15	9
MSc	F	B	5	5
	M	B	7	7
	F	W	8	8
	M	W	8	6
	Total		28	26
BSc Honours	F	W	1	2
	M	W	1	-
	Total		2	2

OUTPUTS

Publications during 2009 (Refer to Appendix 1)

Articles in peer-reviewed journals:

61 papers were published in SCI-ranked journals.

Books / Chapters in books:

8 contributions to published books and book chapters.

Articles in unrated journals:

14 articles were published in unrated journals.

Semi-popular articles:

54 articles were published in the semi-popular literature.

Conferences attended during 2009: Name (month, place), people who attended

Society for Integrative and Comparative Biology Annual Meeting (January, Boston, Massachusetts, USA) Andrew McKechnie
SANBI - Biodiversity Forum (March, KZN) Jane Turpie
2nd International African Penguin Conference (April, Kleinbaai, South Africa) Timothy Cook, Lisa Nupen, Viviane Barquete, Lorien Pichegru
79th Cooper Ornithological Society Annual Meeting (April, Tucson, Arizona, USA) Andrew McKechnie
Workshop on Ecosystem Services (April, Nairobi, Kenya) Graeme Cumming
28th Willi Hennig International Society of Systematic Biology meeting (June, Singapore) Tim Crowe
Evolutions Meetings (June, Univ. of Idaho, Moscow, Idaho, USA) Rauri Bowie
50th Zoological Society of South Africa Conference (July, Illovo Beach, KZN) Phil Hockey (Keynote speaker), Rob Little, Rowan Martin, Owen Davies, Graeme Oatley, Ben Smit
10th Symposium of the Southern African Society for Systematic Biology (July, KZN) Phil Hockey, Tim Crowe, Tshifhiwe Mandiwana, Lisa Nupen, Owen Davies, Graeme Oatley
94th Ecological Society of America Annual Meeting (August, Albuquerque, New Mexico, USA) Andrew McKechnie
6th WIOMSA Scientific Symposium (August, St Denis, Reunion, France) Ross Wanless
7th Conference of the European Ornithologist's Union (August, Zurich, Switzerland) Jess Shaw
11th International Conference of the Academy of Science for the Developing World (October, Durban) Phil Hockey
DIVERSITAS OSC2 Biodiversity & Society Conference (October, Cape Town) Graeme Cumming, Felix Nchu, Sharon Okanga, Mduduzi Ndlovu, Greg Mtumi
Environment for Development Initiative - Resource Economics Symposium (November, Naivasha, Kenya) Jane Turpie

Conferences organised / hosted

Prof. Graeme Cumming was on the local organising committee for the DIVERSITAS OSC2 Conference held in Cape Town during October 2009.

FINANCES

Audited Income and expenditure

A copy of the 2009 Income and Expenditure Statement shown below on page 19 is attached to the *Ernst & Young* Audit Report.

Responses to the Audit Report explanations of non-compliance:

Both issues of non-compliance are of little significant and are rather of a technical nature.

1. It is agreed that interest on invested funds was appropriately earned and allocated.
2. Payments incurred for activities straddling the year-end are explainable and acceptable.

Annual carry-forward

Annual carry-forward by year, in relation to income and expenditure (extracted from annual cash flow reports):

Year	Income	Expenditure	Carry-forward
2004	R 2,025,067	R -158,533	R 1,866,534
2005	R 4,026,434	R -2,053,076	R 1,973,358
2006	R 4,153,458	R -2,507,744	R 1,645,714
2007	R 4,026,610	R -3,201,673	R 824,936
2008	R 3,463,943	R -2,842,616	R 621,327
2009	R 3,701,280	R -3,015,148	R 686,132

Expenditure in 2009 was within budget and still unfortunately reflects a significant carry-forward to 2010, considering that it is optimal to maximize the use of available funds. However, a small carry-forward is useful to carry the CoE through the first month of each year before the first CoE payment transfer for the year is made by the NRF.

Distribution of CoE & Other research funds

The distribution of the total CoE research funding (R7,343,250) for the projects funded by the CoE during 2009, according to the 2009 CoE approved budget was analysed to reflect the proportion of additional funds allocated to CoE activities from other sources (Table 7) and the overall distribution of funds across the three focal research areas (Table 8). Research conducted by the PFIAO which is not at least part-funded by the CoE is excluded from the analysis. Likewise, the UCT remuneration of PFIAO staff, and the NRF CoE Corporate Operating budget are also not included.

Table 7. 2009 distribution of research funds according to the source of funds.

	CoE		Fitz		Other*	
	bursary	running	bursary	running	bursary	running
	745,000	1,280,050	1,116,700	2,072,500	666,000	1,463,000
Sub total		2,025,050		3,189,200		2,129,000
Total	CoE	R2,025,050 28%			Fitz & Other	R5,318,200 72%

* Other refers to funds for a project from external sources that are not reflected in PFIAO/UCT accounts

Table 8. 2009 distribution of research funds according to fund sources and the focal research areas.

Fund source	Research area*	1	2	3	% within source
CoE	1	593,000	580,500	851,550	29%
	2				29%
	3				42%
Fitz	1	382,000	482,500	2,324,700	12%
	2				15%
	3				73%
Other	1	506,000	735,000	888,000	24%
	2				35%
	3				41%
Total		1,481,000	1,798,000	4,064,250	
% research area		20%	25%	55%	

*1 = Characterising biodiversity; 2 = evolutionary ecology; 3 = maintaining biodiversity

Comments on the distribution of CoE and other funds during 2009:

1. The research funds supplied by the CoE represent 28% (R2,025,050 of R7,343,250) of the total funds allocated to research within the Centre.
2. There is variation in the proportional distribution of research area funding across the different fund sources, but in all cases the bias is strongly towards conservation science (maintaining biodiversity).
3. The proportional distribution of research area funding from CoE funds is not significantly at variance with one-third funding per research area, with the overall variance in favour of conservation science.
4. The overall proportional distribution of research area funding across all sources of funding is strongly biased towards conservation science (55%).

Cash Flow analysis for 2009

DST-NRF CoE

Birds as Keys to Biodiversity Conservation at the Percy FitzPatrick Institute CASH FLOW ANALYSIS FOR THE 2009 FINANCIAL YEAR

DESCRIPTION	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	TOTAL	Annual Budget	VARIANCE
NRF	1,235,960					1,715,960			15,000				2,966,920	2,471,920	495,000
Interest	80,932												80,932	80,932	0
Other (c/f from 2008)	653,428												653,428	653,428	0
TOTAL INCOME	1,970,320					1,715,960			15,000				3,701,280	3,206,280	495,000
Salaries	-40,377	-12,008	-12,091	-38,137	-53,250	-47,713	-73,745	-47,831	-47,759	-47,945	-53,913	-45,589	-520,357	515,000	-5,357
Student costs	-197,750	-100,000	-145,000		-100,000	-37,500		-103,000	-113,000	-172,750	-50,000	-185,000	-1,204,000	1,040,000	-164,000
Conferences & related travel					-5,590	-700	-12,374		-6,517	-9,849		-36,121	-71,152	95,000	23,848
Equipment													0	0	0
Running	-79,915	-52,593	-43,119	-60,356	-178,688	-28,629	-67,939	-115,986	-58,649	-303,823	-194,823	-35,121	-1,219,639	1,489,200	269,561
TOTAL EXPENSES	-318,042	-164,601	-200,209	-98,493	-337,527	-114,542	-154,058	-266,817	-225,925	-534,367	-298,736	-301,831	-3,015,148	3,139,200	124,052
NET OUTCOME PROFIT/LOSS	1,652,277	1,487,677	1,287,467	1,188,974	851,447	2,452,865	2,298,808	2,031,991	1,821,066	1,286,699	987,963	686,132	686,132		

Notes – this cash flow report:

1. shows actual expenditure only (excluding commitments) for all months
2. reflects the entire costs of the CoE, including satellite campuses
3. regards income as positive cash flow and expenditure as negative cash flow

FitzPatrick Institute CoE Financial Statements January to December 2009

	Operating	Fund	Invested	Fund	All Funds
Brought forward from 2008		-1 006 896.00		353 468.10	-653 427.90
Income		-2 988 900.39		-99 927.58	-3 088 827.97
NRF income	-2 977 080.39				
Other income	-11 820.00				
Investment income			-99 927.58		
Net transfer value		400 000.00		-400 000.00	0
CR transfer	-800.000.00		-1 200 000.00		
DR transfer	1 200 000.00		800 000.00		
Expenditure		3 037 554.75			3 037 554.75
Salaries total	520 777.57				
Bursaries	1 204 000.00				
Conferences	71 157.77				
Other travel	630 411.36				
Equipment	82 663.37				
Computers	24 846.47				
Running costs	75 410.11				
Field & lab costs	414 696.22				
Minor works	13 591.88				
Carry forward to 2010		-558 241.64		-146 459.48	-704 701.12
Reconciliation:					
SAP balance @ 31/12/2009		-510 991.65			
Advances in hand		-47 249.99			
		-558 241.64			

Notes:

- 1) No motor vehicles were purchased in this period.
- 2) No non-specific transfers to other collaborators were made in 2009.

Appendix 1: Publications for 2009 (CoE members in bold type)

Articles in SCI-ranked journals (61)

IF score = Thomson Scientific Impact Factor score

Characterising biodiversity (6):

Fuchs, J., Pasquet, E., Couloux, A., Fjeldså, J. & Bowie, R.C.K. 2009. A new Indo-Malayan member of the Stenostiridae (Aves: Passeriformes) revealed by multilocus sequence data: Biogeographical implications for a morphologically diverse clade of flycatchers. *Molecular Phylogenetics and Evolution* 53:384–393.
IF 3.871

Kimball, R.T., Braun, E.L., Barker, F.K., **Bowie, R.C.K.**, Braun, M.J., Chojnowski, J.L., Hackett, S.J., Han, K.L., Harshman, J., Heimer-Torres, V., Holznagel, W., Huddleston, C.J., Marks, B.D., Miglia, K.J., Moore, W.S., Reddy, S., Sheldon, F.H., Smith, J.V., Witt, C.C. & Yuri, T. 2009 A well-tested set of primers to amplify regions spread across the avian genome. *Molecular Phylogenetics and Evolution* 50:654-660.
IF 3.871

Nguembock, B., Cibois, A., **Bowie, R.C.K.**, Cruaud, C. & Pasquet, E. 2009. Phylogeny and biogeography of the genus *Illadopsis* (Passeriformes: Timaliidae) reveal the complexity of diversification of some African taxa. *Journal of Avian Biology* 40:113-125.
IF 2.327

Ribeiro, A., Lloyd, P., Feldheim, K.A., & Bowie, R.C.K. 2009. Microsatellites in the Karoo scrub-robin, *Cercotrichas coryphaeus* (Passeriformes: Muscicapinae): isolation and characterization of 13 autosomal and two sex-linked loci. *Molecular Ecology Resources* 9:636-638.
IF 1.605

Techow, N.M.S.M., Ryan, P.G. & O’Ryan, C. 2009. Phylogeography and taxonomy of White-chinned and Spectacled Petrels. *Molecular Phylogenetics and Evolution* 52:25-33.
IF 3.871

Voelker, G., **Melo, M.** & Bowie, R.C.K. 2009. A Gulf of Guinea island endemic is a member of a Mediterranean-centred bird genus. *Ibis* 151:580-583.
IF 1.443

Evolutionary ecology (21):

Bell, M.B.V., Radford, A.N., Rose, R., Wade, H. M. & **Ridley, A. R.** 2009. The value of constant surveillance in a risky environment. *Proceedings of the Royal Society B-Biological Sciences* 276:2997-3005.
IF 4.248

Best, P.B., Glass, J.P., **Ryan, P.G.** & Dalebout, M.L. 2009. Cetacean records from Tristan da Cunha, South Atlantic. *Journal of the Marine Biological Association of the United Kingdom* 89:1023-1032.
IF 1.056

Bester, M.N., **Ryan, P.G.** and Visagie, J. 2009. Summer survey of fur seals at Prince Edward Island, southern Indian Ocean. *African Journal of Marine Science* 31: 451–455.
IF 1.312

Biard, C., Gil, D., Karadas, F., Saino, N., **Spottiswoode, C.N.**, Surai, P.F. & Møller, A.P. 2009. Maternal effects mediated by antioxidants and the evolution of carotenoid-based signals in birds. *American Naturalist* 174:696-708.
IF 4.67

Boyes, R.S. & Perrin, M.R. 2009. The feeding ecology of Meyer’s Parrot *Poicephalus meyeri* in the Okavango Delta, Botswana. *Ostrich* 80: 153–164.
IF 0.222

- Boyes, R.S. & Perrin, M.R. 2009. Flocking dynamics and roosting behaviour of Meyer's parrot (*Poicephalus meyeri*) in the Okavango Delta, Botswana. *African Zoology* 44:181-193.
IF 0.437
- Brischoux, F. & Cook, T.R. 2009. Juniors seek an end to the Impact Factor race. *Bioscience* 59:638-639.
IF 4.058
- Downs, C., Boix-Hinzen, C. & Brown, M. 2009. Development and functional significance of dorsal air bags in nestlings of Monteiro's Hornbill *Tockus monteiri*. *Ostrich* 80:53-58.
IF 0.222
- Eising, C.M., Robles, R., Lasthuizen, M. and Groothuis, T.G.G. 2009. Lesser double-collared sunbirds *Nectarinia chalybea* do not compensate for hatching asynchrony by adjusting egg mass or yolk androgens. *Journal of Avian Biology* 40: 635-639.
IF 2.327
- Fischhoff, I.R., Dushoff, J., Sundaresan, S.R., Cordingley, J.E. & Rubenstein, D.I. 2009. Reproductive status influences group size and persistence of bonds in male plains zebra (*Equus burchelli*). *Behavioral Ecology and Sociobiology* 63:1035-1043.
IF 2.917
- Fort, J., Porter, W.P. & Grémillet, D. 2009. Thermodynamic modelling predicts energetic bottleneck for seabirds wintering in the northwest Atlantic. *Journal of Experimental Biology* 212:2483-2490.
IF 2.981
- Green, R.E., Barnes, K.N. & Brooke, M.de L. 2009. How the longspur won its spurs: a study of claw and toe length in ground-dwelling passerine birds. *Journal of Zoology* 277:126-133.
IF 1.669
- Lloyd, P., Taylor, A., du Plessis, M.A. & Martin, T.E. 2009. Females increase reproductive investment in response to helper-mediated improvements in allo-feeding, nest survival, nestling provisioning and post-fledging survival in the Karoo scrub-robin *Cercotrichas coryphaeus*. *Journal of Avian Biology* 40:400-411.
IF 2.327
- Malan, G., Seoraj-Pillai, N. & du Plessis, M.A. 2009. Alarm calls of Bronze Mannikins communicate predator size to familiar conspecifics. *Ostrich* 80: 177-184.
IF 0.222
- Maphisa, D.H., Donald, P.F., Buchanan, G.M. & Ryan, P.G. 2009. Habitat use, distribution and breeding ecology of the globally threatened Rudd's Lark and Botha's Lark in eastern South Africa. *Ostrich* 80:19-28.
IF 0.222
- Ridley, A.R. & Child, M.F. 2009. Specific targeting of host individuals by a kleptoparasitic bird. *Behavioral Ecology and Sociobiology* 63:1119-1126.
IF 2.917
- Ropert-Coudert, Y., Daunt, F., Kato, A., Ryan, P.G., Lewis, S., Kobayashi, K., Mori, Y., Grémillet, D. & Wanless, S. 2009. Underwater wingbeats extend depth and duration of plunge dives in northern gannets *Morus bassanus*. *Journal of Avian Biology* 40:380-387.
IF 2.327
- Seymour, C.L. 2009. Protege *Ziziphus mucronata* (Rhamnaceae) show no negative effects of competition with the nurse tree *Acacia* (Leguminaceae), even as adults. *Journal of Vegetation Science* 20:926-934.
IF 2.037
- Spottiswoode, C.N. 2009 Fine-scale life-history variation in sociable weavers in relation to colony size. *Journal of Animal Ecology* 78:504-512.
IF 4.22

Whittington, P.A., Crawford, R.J.M., Dyer, B.M. & **Ryan, P.G.** 2009. Estimates of numbers of kelp gulls and Kerguelen and Antarctic terns breeding at the Prince Edward Islands, 1996/1997–2008/2009. *African Journal of Marine Science* 31:439–444.
IF 1.312

Wanless, R.M., Aguirre-Muñoz, A., Angel, A., Jacobsen, J.K., Keitt, B.S. & McCann, J. 2009. Birds of Clarion Island, Revillagigedo Archipelago, Mexico. *Wilson Journal of Ornithology* 121:745-751.
IF 0.47

Maintaining biodiversity (34):

Angel, A., **Wanless, R.M.** & Cooper, J. 2009. Review of impacts of the introduced house mouse on islands in the Southern Ocean: are mice equivalent to rats? *Biological Invasions* 11:1743-1754.
IF 2.788

Braby, J., Braby, R.J., Braby, N., **Simmons, R.E.** 2009. Protecting Damara Terns *Sterna balaenarum* from recreational disturbance in the Namib Desert increases breeding density and overall success. *Ostrich* 80:71-75.
IF 0.222

Child, M.F. 2009. The Thoreau Ideal as a unifying thread in the conservation movement. *Conservation Biology* 23:241-243.
IF 4.705

Child, M.F., **Cumming, G.S.** & Amano, T. 2009. Assessing the broad-scale impact of agriculturally transformed and protected area landscapes on avian taxonomic and functional richness. *Biological Conservation* 142:2593-2601.
IF 3.566

Colabuono, F.I., **Barquete, V.**, Domingues, B.S., Montone, R.C. 2009. Plastic ingestion by Procellariiformes in Southern Brazil. *Marine Pollution Bulletin* 58:93-96.
IF 2.562

Cooper, J., Bester, M.N., Chown, S.L., Crawford, R.J.M., Daly, R., Heyns, E., Lamont, T., **Ryan, P.G.** & Shaw, J.D. 2009. Biological survey of the Prince Edward Islands, December 2008. *South African Journal of Science* 105:317-320.
IF 0.604

Converse, S.J., Kendall, W.L., Doherty, P.F. Jr., & **Ryan, P.G.** 2009. Multistate Models for Estimation of Survival and Reproduction in the Grey-headed Albatross (*Thalassarche chrysostoma*). *The Auk* 126:77–88.
IF 2.303

Crawford, R.J.M., **Ryan, P.G.**, Dyer, B.M. and Upfold, L. 2009. Recent trends in numbers of Crozet shags breeding at the Prince Edward Islands. *African Journal of Marine Science* 31: 427–430.
IF 1.312

Crawford, R.J.M., Whittington, P.A., Upfold, L., **Ryan, P.G.**, Petersen, S.L., Dyer, B.M. & J Cooper, J. 2009. Recent trends in numbers of four species of penguins at the Prince Edward Islands. *African Journal of Marine Science* 31:419–426.
IF 1.312

Cumming, G.S. & **Child, M.F.** 2009. Contrasting spatial patterns of taxonomic and functional richness offer insights into potential loss of ecosystem services. *Philosophical Transactions of the Royal Society B-Biological Sciences* 364:1683-1692.
IF 5.556

Cumming, G.S. & George, A. 2009. Historical influences dominate the composition of regenerating plant communities in abandoned citrus groves in north-central Florida. *Landscape Ecology* 24:957-970.
IF 2.453

Cuthbert, R., Cooper, J., Burle, M.-H., Glass, C.J., Glass, J.P., Glass, S., Glass, T., Hilton, G.M., Sommer, E.S., Wanless, R.M. & Ryan, P.G. 2009. Population trends and conservation status of the Northern Rockhopper Penguin *Eudyptes moseleyi* at Tristan da Cunha and Gough Island. *Bird Conservation International* 19:109-120. IF 0.965

Dean, W.R.J., Barnard, P. & Anderson, M.D. 2009. When to stay, when to go: trade-offs for southern African arid-zone birds in times of drought. *South African Journal of Science* 105:24-28. IF 0.604

Geselbracht, L., Torres, R., Cumming, G.S., Dorfman, D., Beck, M. & Shaw, D. 2009. Identification of a spatially efficient portfolio of priority conservation sites in marine and estuarine areas of Florida. *Aquatic Conservation: Marine and Freshwater Ecosystems* 19:408-420. IF 1.619

Hampton, S.L., Ryan, P.G. & Underhill, L.G. 2009. The effect of flipper banding on the breeding success of African Penguins *Spheniscus demersus* at Boulders Beach, South Africa. *Ostrich* 80:77-80. IF 0.222

Hockey, P.A.R. & Curtis, O. 2009. Use of basic biological information for rapid prediction of the response of species to habitat loss. *Conservation Biology* 23:64-71. IF 4.705

Hockey, P.A.R. & Midgley, G.F. 2009. Avian range changes and climate change: a cautionary tale from the Cape Peninsula. *Ostrich* 80: 29-34. IF 0.222

Lannas, K.S.M. & Turpie, J.K. 2009. Valuing the provisioning services of wetlands: contrasting a rural wetland in Lesotho with a peri-urban wetland in South Africa. *Ecology and Society* 14:article 18. IF 2.855

Napier, V.R., Turpie, J.K. & Clark, B.M. 2009. Value and management of the subsistence fishery at Knysna Estuary, South Africa. *African Journal of Marine Science* 31:297-310. IF 1.312

Okes, N.C., Hockey, P.A.R., Pichegru, L., van der Lingen, C.D., Crawford, R.J.M. & Grémillet, D. 2009. Competition for shifting resources in the southern Benguela upwelling: seabirds versus purse-seine fisheries. *Biological Conservation* 142:2361-2368. IF 3.566

Petersen, S.L., Honig, M.B., Ryan, P.G. & Underhill, L.G. 2009. Seabird bycatch in the pelagic longline fishery off southern Africa. *African Journal of Marine Science*. 31:191-204. IF 1.312

Petersen, S.L., Honig, M.B., Nel, R., Ryan, P.G. & Underhill, L.G. 2009. Turtle bycatch in the pelagic longline fishery off southern Africa. *African Journal of Marine Science* 31:87-96. IF 1.312

Petersen, S.L., Honig, M.B., Ryan, P.G., Underhill, L.G. & Compagno, L.J.V. 2009. Pelagic shark bycatch in the tuna- and swordfish-directed longline fishery off southern Africa. *African Journal of Marine Science* 31:215-225. IF 1.312

Petersen, S.L., Honig, M.B., Ryan, P.G., Underhill, L.G. & Goren, M., 2009. Seabird bycatch in the demersal longline fishery off southern Africa. *African Journal of Marine Science* 31:205-214. IF 1.312

Pichegru, L., Ryan, P. G., Le Bohec, C., van der Lingen, C. D., Navarro, R., Petersen, S., Lewis, S., van der Westhuizen, J. & Grémillet, D. 2009. Overlap between vulnerable top predators and fisheries in the Benguela upwelling system: implications for marine protected areas. *Marine Ecology-Progress Series* 391:199-208. IF 2.631

Rahlao, S.J., Milton, S.J., Esler, K.J., van Wilgen, B.W. & Barnard, P. 2009. Effects of invasion of fire-free arid shrublands by a fire-promoting invasive alien grass (*Pennisetum setaceum*) in South Africa. *Austral Ecology* 34:920-928.

IF 1.826

Rondon, X.J., Gorchoy, D.L. & Noble, R.B. 2009. Projection of tree growth and timber volume following strip clear-cutting in the Peruvian Amazon. *Forest Ecology & Management* 257:588-599.

IF 2.110

Ryan, P.G., Jones, M.G.W., Dyer, B.M., Upfold, L. & Crawford, R.J.M. 2009. Recent population estimates and trends in numbers of albatrosses and giant petrels breeding at the sub-Antarctic Prince Edward Islands. *African Journal of Marine Science* 31:409-417.

IF 1.312

Ryan, P.G., Whittington, P.A. & Crawford, R.J.M. 2009. A tale of two islands: contrasting fortunes for Subantarctic skuas at the Prince Edward Islands. *African Journal of Marine Science* 31:431-437.

IF 1.312

Ryan, P.G., Moore, C.J., van Franeker, J.A. & Moloney, C.L. 2009. Monitoring the abundance of plastic debris in the marine environment. *Philosophical Transactions of the Royal Society B- Biological Sciences* 364:1999-2012.

IF 5.556

Simmons, R.E. & Legra, L.A.T. 2009. Is the Papuan Harrier a globally threatened species? Ecology, climate change threats and first population estimates from Papua New Guinea. *Bird Conservation International* 19:379-391.

IF 0.965

Sirami, C., Seymour, C., Midgley, G. & Barnard, P. 2009. The impact of shrub encroachment on savanna bird diversity from local to regional scale. *Diversity and Distributions* 15:948-957.

IF 3.446

Scovronick, N.C. & Turpie, J.K. 2009. Is enhanced tourism a reasonable expectation for transboundary conservation? An evaluation of the Kgalagadi Transfrontier Park. *Environmental Conservation* 36:149-156.

IF 1.875

Wanless, R.M., Ryan, P.G., Altwegg, R., Angel, A., Cooper, J., Cuthbert, R. & Hilton, G.M. 2009. From both sides: dire demographic consequences of carnivorous mice and longlining for the critical endangered Tristan albatrosses on Gough Island. *Biological Conservation* 142:1710-1718.

IF 3.566

Books and Chapters in Books (8)

Booth, V.R. & Cumming, D.H.M. 2009. The development of a recreational hunting industry and its relationship with conservation in southern Africa. In: *Recreational hunting, conservation and rural livelihoods: science and practice* edited by Barney Dickson, Jon Hutton & William M. Adams. London, Wiley-Blackwell, pp. 282-295.

Crowe T. 2009. Management of southern african gamebirds: opportunities and threats. In: *Gamebird 2006: Quail VI and Perdix XII*. 31 May - 4 June 2006, edited by Sandra b. Cederbaum, Brant C. Faircloth, Theron M. Terhune, Jeffrey J. Thompson & John P. Carroll. Athens, GA, USA, Warnell School of Forestry and Natural Resources, pp. 11-15.

Little, I.T., Wellendorf, S.D., Palmer, W.E. & Carroll, J.P. 2009. Effects of timber volume on northern bobwhite autumn abundance. In: *Gamebird 2006: Quail VI and Perdix XII*. 31 May - 4 June 2006, edited by Sandra b. Cederbaum, Brant C. Faircloth, Theron M. Terhune, Jeffrey J. Thompson & John P. Carroll. Athens, GA, USA, Warnell School of Forestry and Natural Resources, pp. 178-183.

McKechnie, A.E. 2009. Book Review: Handbook of the Birds of the World. Volume 13: Penduline-tits to Shrikes. *Condor* 111:580-581.

Melo, M. 2009. Listas de espécimes de Cabo Verde: Aves. In: *Darwin em Cabo Verde* edited by Filipa Vala. Universidade de Cabo Verde, pp. 70-85.

Ryan, P. 2009. *Marine Litter in the eastern Africa Region*: contributor to the report for South Africa. Nairobi: UNEP Regional Seas Programme, 2008. 60p.

Ryan, P.G. 2009. Tristan da Cunha and Gough Island. In: *Encyclopedia of Islands*, edited by R. Gillespie & D. Clague. Berkeley, University of California Press. Pp. 929-932.

Simmons, R. 2009. Foreword. In: Scott, D. *Harriers: journeys around the world*. Tiercel Publishing Herts, UK.

Papers in Unrated Journals and Book Reviews (14)

Cook, T.R. 2009. Book Review: Atlas des oiseaux nicheurs de la Grande Comore, de Mohéli et d'Anjouan by Michel Louette, Hachime Abdérémane, Ibrahim Yahaya and Danny Meirte. *Ostrich* 80: 205–207.

Crowe, T.M. 2009. Book Review: Reproductive biology and bird phylogeny. Miles to go before we sleep. *Cladistics* 25:105-106.

Dean, W.R.J. 2009. Gill Memorial Medal Address: What birds do and where they go in the Karoo. *Ostrich* 80:vii-ix.

Dean, W.R.J. 2009. Book Review: Lost land of the Dodo by Anthony Cheke and Julian Hume. T & AD Poyser, 2008. *Ostrich* 80:69-70.

Dean, W.R.J., Adams, M., Frahnert, S. & Milton, S.J. 2009. William John Ansorge's bird collections in Guinea-Bissau: an annotated list. *Malimbus* 31:75-108.

Koopman, M.M. 2009. Book Review: Rare birds yearbook 2009 edited by Erik Hirschfeld, MagDig Media, 2008. *Ostrich* 80:126.

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Appendix 2: Publication outputs since 2004 by individual members of the CoE
Publications are listed as: first-authored (1st) or co-authored (2nd) papers in SCI-rated journals; papers in unrated journals (unrated); and semi-popular (popular).

Name	Degree	1st year	Depart year	Gender	Race	Publications			
						1 st	2 nd	unrated	popular
Mandiwana	Staff/PhD	2004		F	B	1	1		
O’Ryan	Staff	2006		F	B		1		
Bloomer	Staff	2004		F	W		4		1
Milton	Staff	2004	2007	F	W	3	9	10	1
Turpie	Staff	2004		F	W	1	4	2	
Bowie	Staff	2004	2007	M	W	5	21		1
Crowe	Staff	2004		M	W	2	19	1	3
Cumming	Staff	2006		M	W	7	7	2	2
Dean	Staff	2004	2007	M	W	9	11	23	1
Du Plessis	Staff	2004	2007	M	W	2	16		14
Hockey	Staff	2004		M	W	3	13	3	28
Lloyd	Staff	2004	2009	M	W	9	8		2
McKechnie	Staff	2004		M	W	5	3	1	21
Ryan	Staff	2004		M	W	17	45	17	73
Simmons	Staff	2004		M	W	6	4	6	18
Covas	Postdoc	2004	2006	F	W	3	4		1
Eising	Postdoc	2005		F	W	2	1		
Pichegru	Postdoc	2008		F	W	2	3		2
Ridley	Postdoc	2005		F	W	9	9		3
Rondon	Postdoc	2008		F	W	1			
Roxburgh	Postdoc	2005	2007	F	W	2		1	2
Spottiswoode	Postdoc	2005		F	W	7	5	1	2
Techow	Postdoc	2008		F	W	1			
Boyes	Postdoc	2009		M	W	2			
Bruinzeel	Postdoc	2007		M	W		1		
Cook	Postdoc	2009		M	W	1	1		
Delpont	Postdoc	2005	2007	M	W	3	2		1
De Melo	Postdoc	2008		M	W	1	2	2	1
Fuchs	Postdoc	2007		M	W	4	2		1
Johannson	Postdoc	2005		M	W	2	3		
Radford	Postdoc	2004	2006	M	W	9	2		1
Taylor	Postdoc	2005	2007	M	W	2	1		
Chaskda	PhD	2007		M	B				
Kaliba	CB PhD	2007		M	B				
Lokugalapapatti	PhD	2005		M	B		2		
Baraquete	PhD	2007		F	W		1		
De Ponte	PhD	2003		F	W				
Galobek	PhD	2006		F	W				
Hermann	PhD	2004		F	W				
Jones	PhD	2007		F	W		1		1
Nelson-Flower	PhD	2005		F	W		2		
Nupen	CB PhD	2008		F	W				
Petersen	PhD	2004	2007	F	W	4	4	8	1
Raihani	PhD	2004		F	W	5	4		1
Seymour	PhD	1999	2006	F	W	3	1		
Techow	PhD	2002	2007	F	W		1		1
Barnes	PhD	1998	2007	M	W				
Cohen	PhD	1999		M	W		2	1	9
Jenkins	PhD			M	W	1	2	3	25
Little	CB PhD	2007		M	W	1		1	
Loewenthal	PhD	1998		M	W				1

Wanless	PhD	2004	2007	M	W	6	3	1	7
Ndlovu	MSc	2007		M	B				
Mtumi	MSc	2008		M	B				
Curtis	MSc	2003	2005	F	W	2	1	1	4
Parker	MSc	2003	2006	F	W				
Lannas	MSc	2007		F	W	1			
Hampton	MSc	2007		F	W				
Biggs	MSc	2004	2006	M	W				2
Davies	MSc	2008		M	W	1	1		
Vincent	MSc	2005	2008	M	W				
Smit	MSc	2007		M	W				2
Daniels	MSc CB	2006	2007	F	B				
Ditlhobolo	MSc CB	2008	2009	F	B				
Wistebaar	MSc CB	2007	2008	F	B				
Musvuugwa	MSc CB	2008	2009	F	B				
Mzumara	MSc CB	2008	2009	F	B				
Bewana	MSc CB	2008	2009	M	B				
Boundja	MSc CB	2006	2007	M	B				
Mao	MSc CB	2004	2005	M	B				1
Maswime	MSc CB	2005	2006	M	B				
Musangu	MSc CB	2006	2007	M	B				
Osano	MSc CB	2004	2005	M	B				
Owino	MSc CB	2004	2005	M	B	1			
Raharinjanahary	MSc CB	2006	2007	M	B				
Rahlao	MSc CB	2004	2005	M	B				
Soka	MSc CB	2004	2005	M	B				
Suinyuy	MSc CB	2005	2006	M	B		1		
Babiker	MSc CB	2007	2008	M	B				
Chaudhry	MSc CB	2007	2008	M	B				
Baudains	MSc CB	2005	2006	F	W	1			
Da Silva	MSc CB	2004	2005	F	W				
Cordingley	MSc CB	2008	2009	F	W		1		
Farmer	MSc CB	2004	2005	F	W	1			
Fox	MSc CB	2005	2006	F	W	1			
Gordon	MSc CB	2006	2007	F	W				
Hamann	MSc CB	2008	2009	F	W				
Hempson	MSc CB	2007	2008	F	W				
Hill	MSc CB	2006	2007	F	W				
Humphrey	MSc CB	2007	2008	F	W				
Jenkins	MSc CB	2006	2007	F	W			2	
La Grange	MSc CB	2007	2008	F	W				
Lauret-Stepler	MSc CB	2005	2006	F	W			1	
Lipsey	MSc CB	2007	2008	F	W	1			
MacGregor	MSc CB	2006	2007	F	W				
McDonell	MSc CB	2005	2006	F	W		1		
Napier	MSc CB	2004	2005	F	W	1			
Nupen	MSc CB	2006	2007	F	W				
Okes	MSc CB	2007	2008	F	W	2			
Owen	MSc CB	2004	2005	F	W				
Quayle	MSc CB	2008	2009	F	W				
Schultz	MSc CB	2006	2007	F	W				
Shaw	MSc CB	2008	2009	F	W				
Shine	MSc CB	2005	2006	F	W				
Spear	MSc CB	2004	2005	F	W				
Stephen	MSc CB	2005	2006	F	W	1			
Thomas	MSc CB	2006	2007	F	W	1			
Vickers	MSc CB	2005	2006	F	W				

Bird	MSc CB	2006	2007	M	W		
Burnside	MSc CB	2006	2007	M	W		
Child	MSc CB	2007	2008	M	W	2	4
Dures	MSc CB	2008	2009	M	W		
Joseph	MSc CB	2007	2008	M	W		
Lowe	MSc CB	2004	2005	M	W		
Mader	MSc CB	2004	2005	M	W		
Mann	MSc CB	2007	2008	M	W		
Meek	MSc CB	2008	2009	M	W		
Menayas	MSc CB	2008	2009	M	W		
Puttick	MSc CB	2007	2008	M	W		
Scovronick	MSc CB	2005	2006	M	W		
Shelton	MSc CB	2006	2007	M	W		
Earlier students						23	14 3 5

Name	Degree	1st year	Depart year	Gender	Race	Publications			
						1 st	2 nd	unrated	popular

Appendix 3: Complete list of students since CoE inception

Title	Surname	Citizenship	Institution	Gender	Race	Degree	1 st year	Throughput (years)	Status	CoE funding support level		
										Bursary	Running	Indirect
Ms	Mandiwana	SA	UCT	F	B	PhD	2004		Incomplete	No	Yes	Yes
Ms	Okanga	Kenya	UCT	F	B	PhD	2009		Incomplete	No	No	Yes
Mr	Chaskda	Nigeria	UCT	M	B	PhD	2007		Incomplete	No	Yes	Yes
Mr	Kaliba	Malawi	UCT	M	B	PhD	2007		Incomplete	Yes	Yes	Yes
Mr	Lokugalappatti	Sri Lanka	US	M	B	PhD	Aug 2005		Incomplete	No	Yes	Yes
Ms	Barquete	France	UCT	F	W	PhD	2007		Incomplete	No	Yes	Yes
Ms	De Ponte	Portugal	UCT	F	W	PhD	2003		Incomplete	No	No	Yes
Ms	Golabek	UK	Bristol, UK	F	W	PhD	2006		Incomplete	No	No	Yes
Ms	Hermann	SA	UP	F	W	PhD	2004		Incomplete	No	Yes	Yes
Ms	Jones	SA	UCT	F	W	PhD	2007		Incomplete	Yes	Yes	Yes
Ms	Nelson-Flower	USA	UCT	F	W	PhD	2006		Incomplete	Yes	Yes	Yes
Ms	Nupen	SA	UCT	F	W	PhD	Oct 2008		Incomplete	Yes	Yes	Yes
Dr	Petersen	SA	UCT	F	W	PhD	2004	3	Graduated	No	Yes	Yes
Dr	Pichegru	France	U Louis Pasteur	F	W	PhD	Oct 2004	4	Graduated	No	No	Yes
Dr	Raihani	UK	Cambridge, UK	F	W	PhD	2004	4	Graduated	No	No	Yes
Ms	Ribeiro	Portugal	UCT	F	W	PhD	Apr 2007		Incomplete	No	Yes	Yes
Dr	Techow	SA	UCT	F	W	PhD	2002	5.5	Graduated	No	Yes	Yes
Dr	Barnes	SA	UCT	M	W	PhD	1998	9.5	Graduated	No	No	Yes
Mr	Cohen	SA	UCT	M	W	PhD	1999		Incomplete	No	No	Yes
Mr	Flower	UK	UCT	M	W	PhD	2007		Incomplete	No	Yes	Yes
Mr	Little	SA	UCT	M	W	PhD	2007		Incomplete	No	No	Yes
Dr	Loewenthal	SA	UCT	M	W	PhD	1998	10	Graduated	Yes	No	Yes
Mr	Mills	SA	UCT	M	W	PhD	2007	-	Withdrew	Yes	Yes	Yes
Mr	Oatley	SA	UCT	M	W	PhD	2005		Incomplete	No	Yes	Yes
Dr	Wanless	SA	UCT	M	W	PhD	Jul 2004	3.5	Graduated	Yes	No	Yes
Ms	Daniels	SA	UCT	F	B	MSc CB	2006	1.5	Graduated	No	No	Yes
Ms	Ditlhobolo	Botswana	UCT	F	B	MSc CB	2008	1.5	Graduated	No	No	Yes
Ms	George	Zambia	UCT	F	B	MSc CB	2009		Incomplete	No	No	Yes
Ms	Githiora	Kenya	UCT	F	B	MSc CB	2009		Incomplete	No	No	Yes
Ms	Musvuugwa	Zimbabwe	UCT	F	B	MSc CB	2008	1.5	Graduated	No	No	Yes
Ms	Mzumara	Malawi	UCT	F	B	MSc CB	2008	1.5	Graduated	No	Yes	Yes
Ms	Wistebaar	SA	UCT	F	B	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Babiker	Sudan	UCT	M	B	MSc CB	2007	1.5	Graduated	Yes	No	Yes

Mr	Bewana	SA	UCT	M	B	MSc CB	2008	1.5	Graduated	Yes	Yes	Yes
Mr	Boundja	Rep Congo	UCT	M	B	MSc CB	2006	1.5	Graduated	No	No	Yes
Mr	Chaudhry	Pakistan	UCT	M	B	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Gichohi	Kenya	UCT	M	B	MSc CB	2009		Incomplete	No	No	Yes
Mr	Kaliba	Malawi	UCT	M	B	MSc CB	2005	1.5	Graduated	No	No	Yes
Mr	Kissoon	Guyana	UCT	M	B	MSc CB	2009		Incomplete	No	No	Yes
Mr	Kujirakwinja	DRC	UCT	M	B	MSc CB	2009		Incomplete	No	No	Yes
Mr	Mao	Uganda	UCT	M	B	MSc CB	2004	1.5	Graduated	No	No	Yes
Mr	Maswime	SA	UCT	M	B	MSc CB	2005	1.5	Graduated	No	No	Yes
Mr	Musangu	Kenya	UCT	M	B	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Mr	Mutumi	Zimbabwe	UCT	M	B	MSc	2008		Incomplete	No	No	Yes
Mr	Ndlovu	Zimbabwe	UCT	M	B	MSc	2007		Incomplete	Yes	Yes	Yes
Mr	Osano	Kenya	UCT	M	B	MSc CB	2004	1.5	Graduated	No	No	Yes
Mr	Owino	Kenya	UCT	M	B	MSc CB	2004	1.5	Graduated	No	No	Yes
Mr	Raharinjanahary	Madagascar	UCT	M	B	MSc CB	2006	1.5	Graduated	No	No	Yes
Mr	Rahlao	Lesotho	UCT	M	B	MSc CB	2004	1.5	Graduated	No	No	Yes
Mr	Soka	Tanzania	UCT	M	B	MSc CB	2004	1.5	Graduated	No	No	Yes
Mr	Suinyuy	Cameroon	UCT	M	B	MSc CB	2005	1.5	Graduated	No	No	Yes
Mr	Tuyisingize	Rwanda	UCT	M	B	MSc CB	2009		Incomplete	No	No	Yes
Ms	Baudains	SA	UCT	F	W	MSc CB	2005	1.5	Graduated	No	No	Yes
Ms	Cordingley	Kenya	UCT	F	W	MSc CB	2008	1.5	Graduated	No	No	Yes
Ms	Da Silva	Canada	UCT	F	W	MSc CB	2004	1.5	Graduated	No	No	No
Ms	Farmer	UK	UCT	F	W	MSc CB	2004	1.5	Graduated	No	No	No
Ms	Fox	SA	UCT	F	W	MSc CB	2005	1.5	Graduated	No	No	Yes
Ms	Gordon	SA	UCT	F	W	MSc CB	2006	1.5	Graduated	No	No	Yes
Ms	Hamman	Germany	UCT	F	W	MSc CB	2008	1.5	Graduated	Yes	Yes	Yes
Ms	Hampton	SA	UCT - ADU	F	W	MSc	2005	3	Graduated	Yes	No	Yes
Ms	Hempson	SA	UCT	F	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Ms	Hill	SA	UCT	F	W	MSc CB	2006	1.5	Graduated	No	No	Yes
Ms	Humphrey	SA	UCT	F	W	MSc CB	2007	1.5	Graduated	Yes	No	Yes
Ms	Jenkins	New Zealand	UCT	F	W	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Ms	La Grange	SA	UCT	F	W	MSc CB	2007	1.5	Graduated	Yes	Yes	Yes
Ms	Lannas	Zimbabwe	UCT	F	W	MSc	2007	2	Graduated	No	No	Yes
Ms	Lauret-Stepler	Reunion	UCT	F	W	MSc CB	2005	1.5	Graduated	No	No	Yes
Ms	Lipsey	USA	UCT	F	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Ms	MacGregor	SA	UCT	F	W	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Ms	McDonell	Canada	UCT	F	W	MSc CB	2005	1.5	Graduated	No	No	Yes

Ms	Moseley	SA	UCT	F	W	MSc CB	2009		Incomplete	No	No	Yes
Ms	Napier	SA	UCT	F	W	MSc CB	2004	1.5	Graduated	No	No	No
Ms	Nupen	SA	UCT	F	W	MSc CB	2006	1.5	Graduated	Yes	Yes	Yes
Ms	Okes	SA	UCT	F	W	MSc CB	2007	1.5	Graduated	Yes	Yes	Yes
Ms	Owen	UK	UCT	F	W	MSc CB	2004	1.5	Graduated	No	No	No
Ms	Quayle	SA	UCT	F	W	MSc CB	2008	1.5	Graduated	No	No	Yes
Ms	Schultz	Australia	UCT	F	W	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Ms	Shaw	UK	UCT	F	W	MSc CB	2008	1.5	Graduated	No	No	Yes
Ms	Shine	Ireland	UCT	F	W	MSc CB	2005	1.5	Graduated	No	No	Yes
Ms	Skidmore	USA	UCT	F	W	MSc CB	2009		Incomplete	No	No	Yes
Ms	Spear	SA	UCT	F	W	MSc CB	2004	1.5	Graduated	No	No	No
Ms	Stephen	SA	UCT	F	W	MSc CB	2005	1.5	Graduated	No	No	Yes
Ms	Thomas	UK	UCT	F	W	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Ms	Vickers	Canada	UCT	F	W	MSc CB	2005	1.5	Graduated	No	No	Yes
Ms	Wilson	SA	UCT	F	W	MSc CB	2009		Incomplete	No	No	Yes
Mr	Bird	SA	UCT	M	W	MSc CB	2006	1.5	Graduated	No	No	Yes
Mr	Burnside	UK	UCT	M	W	MSc CB	2006	1.5	Graduated	No	No	Yes
Mr	Child	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	Yes	Yes	Yes
Mr	Davies	SA	UCT	M	W	MSc	2008	1.5	Graduated	Yes	Yes	Yes
Mr	Dures	SA	UCT	M	W	MSc CB	2008	1.5	Graduated	No	No	Yes
Mr	Heermans	USA	UCT	M	W	MSc CB	2009		Incomplete			
Mr	Joseph	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	Yes	No	Yes
Mr	Little	SA	UCT	M	W	MSc CB	2004	1.5	Graduated	No	No	No
Mr	Lowe	UK	UCT	M	W	MSc CB	2004	1.5	Graduated	No	No	No
Mr	Mader	SA	UCT	M	W	MSc CB	2004	1.5	Graduated	No	No	No
Mr	Mann	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Marais	SA	UCT	M	W	MSc CB	2009		Incomplete	Yes	No	Yes
Mr	Meek	USA	UCT	M	W	MSc CB	2008	1.5	Graduated	No	No	Yes
Mr	Menayas	USA	UCT	M	W	MSc CB	2008	1.5	Graduated	No	No	Yes
Mr	Puttick	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Scovronick	USA	UCT	M	W	MSc CB	2005	1.5	Graduated	No	No	Yes
Mr	Shelton	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Smit	SA	Wits	M	W	MSc	2007	2	Incomplete	Yes	Yes	Yes
Mr	Vincent	SA	UCT	M	W	MSc	2005	3	Graduated	Yes	Yes	Yes
Mr	Bewana	SA	UCT	M	B	BSc Hons	2006	2	Graduated	Yes	Yes	Yes
Ms	Braae	SA	UCT	F	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Ms	Brown	SA	UCT	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes

Ms	Inglethorpe	SA	Wits	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes
Ms	Laird	SA	UCT	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes
Ms	Lyons	SA	UCT	F	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Ms	Okes	SA	UCT	F	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Ms	Smith	SA	UCT	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes
Ms	Stephenson	SA	UCT	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes
Ms	De Abrue	SA	UCT	F	W	BSc Hons	2009	1	Incomplete	Yes	Yes	Yes
Mr	Ashdown	SA	Wits	M	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Mr	Child	SA	UCT	M	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Mr	Fyfe	SA	UCT	M	W	BSc Hons	2008	1	Graduated	Yes	Yes	Yes
Mr	Lubbe	SA	Wits	M	W	BSc Hons	2008	1	Graduated	Yes	Yes	Yes
Mr	Mingo	SA	UCT	M	W	BSc Hons	2009	1	Incomplete	Yes	Yes	Yes

Appendix 4: Student fate report – for all CoE-registered students graduating after 2004. The last column has been left blank for individuals for whom no response has yet been received.

Title	Surname	Citizenship	Gender	Race	Degree	Year 1 st reg.	Year grad.	Months to 1 st job	First position // current position if different
Dr	S. Petersen	SA	F	W	PhD	2004	2008	0	BirdLife/WWF Responsible Fisheries Programme
Dr	L. Pichegru	France	F	W	PhD	2004	2008	0	Postdoctoral fellow, Fitz UCT
Dr	N. Raihani	UK	F	W	PhD	2004	2008		Postdoc Fellow - Scientist, Zoological Society of London
Dr	M. Techow	German	F	W	PhD	2004	2007	0	Postdoctoral fellow, Fitz UCT
Dr	K. Barnes	SA	M	W	PhD	1998	2007	0	Self-employed in bird-watching tourism industry
Dr	D. Loewenthal	SA	M	W	PhD	1998	2007	0	Postdoctoral fellow, Fitz UCT
Dr	R. Wanless	SA	M	W	PhD	2004	2007	6	Seabird Conservation Officer, BirdLife SA
Ms	F. Daniels	SA	F	B	MSc CB	2006	2007	7	Threatened Species Research Scientist at SANBI
Ms	T. Ditlhobolo	Botswana	F	B	MSc CB	2008	2009		Wildlife Officer, Dept Wildlife and National Parks, Mochudi, Botswana
Ms	T. Musvuugwa	Zimbabwe	F	B	MSc CB	2008	2009		PhD student, CIB, U. Stellenbosch
Ms	T. Mzumara	Malawi	F	B	MSc CB	2008	2009		Environmental Education leader, Dunblane - Likhubula Partnership, Malawi / PhD student U. Stellenbosch
Ms	T. Wistebaar	SA	F	B	MSc CB	2007	2008		Conservation Planner, SANBI, Pretoria
Mr	H. Babiker	Sudan	M	B	MSc CB	2007	2008		PhD student, Zoology Dept, UCT
Mr	A. Bewana	SA	M	B	MSc CB	2008	2009		Marine Intern, SANParks, Port Elizabeth
Mr	R.P. Boundja	D Rep Congo	M	B	MSc CB	2006	2007	11	Technical Assistant for Wildlife Conservation Society Congo Program (DRC)
Mr	M.J. Chaudry	Pakistan	M	B	MSc CB	2007	2008		Wetlands Conservation Officer, WWF Pakistan
Mr	P. Kaliba	Malawi	M	B	MSc CB	2005	2006	0	Senior Ornithologist & Acting Director, Museums of Malawi, PhD student, PFIAO, UCT
Mr	A. Mao	Uganda	M	B	MSc CB	2004	2005		
Mr	T. Maswime	SA	M	B	MSc CB	2005	2006	2	SANBI GIS Technician // Principal Environmental Officer, DEAT
Mr	M. Musangu	Kenya	M	B	MSc CB	2006	2007		National Museums of Kenya
Mr	P. Osano	Kenya	M	B	MSc CB	2004	2005	1	Programme Manager, Improving Livelihoods Project Co-ordinator // PhD McGill Univ.
Mr	A. Owino	Kenya	M	B	MSc CB	2004	2005	0	Research Scientist, National Museums of Kenya // Research Scientist, Kenya Wildlife Service
Mr	D. Raharinhanahary	Madagascar	M	B	MSc CB	2006	2007		PhD Student, Univ. of Antanarivo, Madagascar
Mr	S. Rahlao	Lesotho	M	B	MSc CB	2004	2005		PostDoctoral Fellow, Energy, Environment and Climate

									Change Programme, UCT
Mr	G. Soka	Tanzania	M	B	MSc CB	2004	2005	3	Associate Expert, Diversity for Livelihoods Programme - Biodiversity International
Mr	T. Suinyuy	Cameroon	M	B	MSc CB	2005	2006	2	Research assistant, UCT // PhD student, SANBI
Ms	T. Baudains	SA	F	W	MSc CB	2005	2006	0	Teaching assistant, UCT // Environmental Officer, Dept Environmental Affairs & Development Planning, CT
Ms	J. Cordingley	Kenya	F	W	MSc CB	2008	2009		PhD student, U. Bournemouth, UK
Ms	J. Da Silva	Canada	F	W	MSc CB	2004	2005	8	PhD student Univ. Stellenbosch
Ms	H. Farmer	UK	F	W	MSc CB	2004	2005		PhD student, Wits
Ms	S. Fox	SA	F	W	MSc CB	2005	2006		Contract SANParks//C4 Eco Solutions - partner
Ms	H. Gordon	SA	F	W	MSc CB	2006	2007	6	Intern contract position with WWF-SA
Ms	M. Hamann	Germany	F	W	MSc CB	2008	2009		Intern, Environmental Affairs, City of Cape Town
Ms	S. Hampton	SA	F	W	MSc	2005	2008		PhD student, Zoology, UCT
Ms	T. Hempson	SA	F	W	MSc CB	2007	2008		Conservation Manager, Sustainable Seas Trust
Ms	H. Hill	SA	F	W	MSc CB	2006	2007		
Ms	G. Humphrey	SA	F	W	MSc CB	2007	2008		
Ms	J. Jenkins	NZ	F	W	MSc CB	2006	2007		
Ms	R. La Grange/Potts	SA	F	W	MSc CB	2007	2008		Coordinator: EWT Riparian Habitat Rehabilitation project
Ms	K. Lannas	Zimbabwe	F	W	MSc	2007	2008		PhD student, Ecole Polytechnique Federale de Lausanne, Switzerland
Ms	M. Lauret-Stepler	Reunion	F	W	MSc CB	2005	2006		
Ms	M. Lipsey	USA	F	W	MSc CB	2007	2008		Internship, Bureau of Land Management, Montana, USA
Ms	L. MacGregor	SA	F	W	MSc CB	2006	2007	8	Vet & Research Officer, Island Cons Soc, Seychelles
Ms	Z. McDonell	Canada	F	W	MSc CB	2005	2006		Fundraiser, Peace Parks Foundation
Ms	V. Napier	SA	F	W	MSc CB	2004	2005		Environmental Manager, Strategic Environmental Focus
Ms	L. Nupen	SA	F	W	MSc CB	2006	2007	0	PhD student, PFIAO, UCT
Ms	N. Okes	SA	F	W	MSc CB	2007	2008		BirdLife/WWF Responsible Fisheries Programme
Ms	S.R. Parker	SA	F	W	MSc	2003	2006	-	Not formally employed – a mother
Ms	C.S. Owen	UK	F	W	MSc CB	2004	2005	0	Global Media Journalist, Save Our Seas
Ms	T. Quayle	UK	F	W	MSc CB	2008	2009		
Ms	P. Schultz	Australia	F	W	MSc CB	2006	2007		Maternity leave
Ms	J. Shaw	UK	F	W	MSc CB	2008	2009	0	PhD student, PFIAO
Ms	K. Shine	Ireland	F	W	MSc CB	2005	2006	0	Co-ordinating Scientist, BCLME/BENEFIT
Ms	D. Spear	Zimbabwe	F	W	MSc CB	2004	2005		PhD, U Stellenbosch // PostDoctoral Fellow, U.S
Ms	V. Stephen	SA	F	W	MSc CB	2005	2006	0	Ecologist, Earth-Touch
Ms	H. Thomas	UK	F	W	MSc CB	2006	2007		Principal Technical Advisor, WCS Programme, Congo

Ms	K. Vickers	Canada	F	W	MSc CB	2005	2006		Lecturer, Organisation for Tropical Studies study abroad program, Kruger National Park
Mr	D. Biggs	SA	M	W	MSc	2004	2006	2	Research Officer, CSIRO Sustainable Ecosystem Division, Australia
Mr	M. Bird	SA	M	W	MSc CB	2006	2007		PhD student, Zoology, UCT
Mr	R.J. Burnside	UK	M	W	MSc CB	2006	2007		PhD student, Bath Univ (UK)
Mr	M. Child	SA	M	W	MSc CB	2007	2008		PhD student, U. Cambridge
Mr	S. Dures	SA	M	W	MSc CB	2008	2009		Environmental Officer, Wilderness Safaris, Botswana
Mr	G. Joseph	SA	M	W	MSc CB	2007	2008		PhD student, PFIAO, UCT
Mr	I.T. Little	SA	M	W	MSc CB	2004	2005	1	PhD student, PFIAO, UCT
Mr	S. Lowe	UK	M	W	MSc CB	2004	2005		
Mr	A. Mader	SA	M	W	MSc CB	2004	2005	0	Cap build for local govt / Coord Local Action for Biodiv (LAB), ICLEI-Local Govt for Sustainability initiative.
Mr	G. Mann	SA	M	W	MSc CB	2007	2008		Environmental consultant, BolandEnviro
Mr	C. Meek	USA	M	W	MSc CB	2008	2009		
Mr	A. Menayas	USA	M	W	MSc CB	2008	2009		
Mr	J. Puttick	SA	M	W	MSc CB	2007	2008		
Mr	N. Scovronick	USA	M	W	MSc CB	2005	2006		MSc Public Health student, U. London
Mr	J. Shelton	SA	M	W	MSc CB	2006	2007	8	Temping as Environmental Control Officer
Mr	Z. Vincent	SA	M	W	MSc	2005	2008		
Mr	A. Bewana	SA	M	B	BSc Hons	2006	2007	2	CB MSc student, UCT
Ms	Braae	SA	F	W	BSc Hons	2006	2006		
Ms	Brown	SA	F	W	BSc Hons	2007	2007		
Ms	P. De Abreu	SA	F	W	BSc Hons	2009	2009	2	CB MSc student 2010-2011, Fitz UCT
Ms	Inglethorpe	SA	F	W	BSc Hons	2007	2007	2	MSc student, UP
Ms	Laird	SA	F	W	BSc Hons	2007	2007	2	MSc student, Zoology Dept, UCT
Ms	Lyons	SA	F	W	BSc Hons	2006	2006	2	MSc, Zoology Dept, UCT, PhD student, U. Stellenbosch
Ms	N. Okes	SA	F	W	BSc Hons	2006	2006	2	MSc student, UCT
Ms	Smith	SA	F	W	BSc Hons	2007	2007		
Ms	Stephenson	SA	F	W	BSc Hons	2007	2007		
Ms	Swanepoel	SA	F	W	BSc Hons	2006	2006		
Mr	Ashdown	SA	M	W	BSc Hons	2006	2006		Price Waterhouse Coopers (biofuels, carbon trading)
Mr	M. Child	SA	M	W	BSc Hons	2006	2006	2	MSc CB 2007-2008 / PhD student, U. Cambridge
Mr	Lubbe	SA	M	W	BSc Hons	2006	2006		Environmental consultant, Ecopartners
Mr	Fyfe	SA	M	W	BSc Hons	2008	2008		MSc student, Zoology, UCT
Mr	Mingo	SA	M	W	BSc Hons	2009	2009		MSc student, CIB, U. Stellenbosch