

Annex D9

Curriculum Vitae's of Specialists

CV's of personnel who conducted the specialist studies.

Annex D 9.1

CV's - Capricorn Environmental



CapMarine

Capricorn Marine Environmental

CURRICULUM VITAE: DAVID WILLIAM JAPP

Date of Birth: 30 June 1956

Nationality: South African

Residence:

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Academic Record:

1975 – 1980 Merchant Navy Academy General Botha, Cape Town

1980 – 1983 Chief Navigating Officer (Foreign)

1983 – 1985 University of Cape Town; BSc (Zoology, Marine Biology and Oceanography)

1986 – 1986 Rhodes University; BSc Honours (Ichthyology and Fisheries Science; Cum Laude)

1987 – 1989 Rhodes University and Sea Fisheries Research Institute; MSc (Ichthyology and Fisheries Science; Cum Laude)

Languages: English (First language); Afrikaans (Basic written and spoken)

Membership of Professional Bodies: SA Council for Natural Scientific Professions (SACNASP) Reg. No. 400208/12

Key Experience:

- Masters Degree in Fisheries Science
- Management of Company and Corporate Structures (founded companies in 1996 – FOSS cc, CapFish cc, CapMarine (Pty) Ltd)
- Project Management and Appraisal
- Environmental Impact Assessments
- Marine Stewardship Council Assessor
- International and Regional Consultant and Director of CapFish cc

Professional Experience (selected):

- South Africa : Head of Offshore Research - **Sea Fisheries Research Institute** (SFRI / DAFF) undertook 8 years of direct research and training of sea staff on biomass surveys as Chief Scientist;
- Consultant has worked extensively in the region including South Africa, Mozambique, Angola, Mozambique, Uganda, Namibia, Kenya, Tanzania and West Indian Ocean Fisheries Sectors since 1990;
- Benguela System : Benguela Current Commission (BCC) Strategic Impact Assessment (SEA)
- World Bank fisheries consultant – development and implementation of fisheries and aquaculture components : 1) MACEMP (Tanzania); 2) KCDP (Kenya) 3) SWIOFP (West Indian Ocean) 4) SWIOFish 1 (Current – WIO countries focus is Tanzania 5) LVEMP 2 (Lake Victoria)
- Environmental Impact Assessment of the Aquaculture Development Zone in Mossel Bay (South Africa)
- Scoping assessment and EIA of the potential for and Aquaculture Development Zone in Saldanha Bay, South Africa (pending)
- Lake Victoria – field trip and overview of the “Source of the Nile” tilapia cage culture including provision of juvenile grow out and adult cage culture (conducted through LVEMP2 and the World Bank with the Lake Victoria Fisheries Organization and NAFIRI)

Aquaculture-Specific

- Post graduate degrees in Fisheries science included bot fresh water and marine aquaculture
- East African project undertaken with the World Bank include major fisheries components which incorporate development of aquaculture (fresh and marine)
- Scoping studies and Impact assessments of Aquaculture Development Zones in Mossel Bay (South Africa)
- Scoping studies and EIA of ADZ in Saldanha Bay (this project is not yet activated and is pending subject to tender and financing)
- World Bank Project (LVEMP2) – consultant has been providing specialist fisheries advice to the LVFO including aquaculture field work in the Jinga / Lake Victoria including the use of Mukene as both feed and for human consumption
- Assessment of the Saldanha Bay Aquaculture Development Zone (ADZ)

Regional and International Experience:

Date	Location	Company & reference person	Position	Description
1987 – 1996	South Africa	Sea Fisheries Research Institute and Marine and Coastal Management (Ref. Dr Augustyn)	Head of Offshore Research	Fisheries Research head – Management of Offshore resources including Demersal, Large Pelagic and Small Pelagic resources. Ref. Is Dr J. Augustyn (Depr Agriculture, Forestry and Fisheries, Cape Town. (johann@sadstia.co.za)
1996 – 2016	South Africa	Capricorn Fisheries Monitoring and Fisheries & Oceanographic Support Services	Consultant and Director	Many consulting projects with the FAO, World Bank, Benguela Current LME. Also developed the Regional Observers Programme. Specialization : Fisheries Management and Research ref. Xavier Vincent : xv Vincent@worldbank.org

Date	Location	Company & reference person	Position	Description
2008 – 2009	Namibia	Benguela Current Commission	Consultant	State of Stock review – Benguela Current Commission. Hashali Hamukuaya (hashali@benguelacc.org)
2009 – 2017	Mombasa, Kenya	Development of the Kenya Coastal Development Project (KCDP) – World Bank and FAO	Fisheries Expert	Ongoing consultancy developing the KCDP with the World Bank Team – project participation was on near continuous basis until project effectiveness in June 2011. Portfolio : Fisheries Management, Research and Development : Ref is AG. Glauber – World Bank Office, Dar Es Salaam aglauber@worldbank.org
2007 – 2012	Tanzania & Zanzibar	Appraisal of the Tanzania <i>Marine and Coastal Environment Project</i> (MACEMP) – World Bank / FAO	Fisheries Expert	Ongoing consultancy every six months to Tanzania – Project appraisal and Mid-Term review. Presently project is winding down and new MACEMP two phase being developed. Portfolio : Fisheries Management, Research and Development : Ref is AG. Glauber – World Bank Office, Dar Es Salaam aglauber@worldbank.org
2005 – 2016	Kenya, Tanzania, Mozambique and IOC countries	World Bank and FAO – Fisheries Expert Project development and implementation (South West Indian Ocean Fisheries Shared Growth and Governance Project (SWIOFish 1))	Fisheries Expert	Consultancy up to 2015 – fisheries components – development and implementation. Specialization : Fisheries Management and Development. Ref ; AJ Glauber aglauber@worldbank.org
2004 – 2007	IOTC	IOTC	Fisheries Experts	Provision of trained tuna tagging technicians and Cruise leaders for the IOTC Tuna Tagging programme (Note: this was done through CapFish under contract to MEP). Ref : Gerard Dominique (IOTC) . gerard.domingue@iotc.org
2009 - 2017	IOTC	IOTC	Fisheries Observers	Provision of Observers for Transhipment vessels (ongoing). Gerard Dominique (IOTC) gerard.domingue
2004 – 2014	FAO	FAO – Jessica Sanders / Ross Shotton	Fisheries Expert	Consultancy undertaken for technical works relating to 1. South West Indian Ocean Fisheries 2. Regional (Indian Ocean) fisheries reporting (catches) 3. Observer training (Madagascar) 4. Development of High Sea Guidelines (FAO)
2009 – 2017	FAO and WWF	FAO - and WWF USA	Fisheries Expert	Fishery Improvement Process – fishery pre-assessments for MSC and follow-up. Contract is current. Portfolio : Fisheries Management and

Date	Location	Company & reference person	Position	Description
				Development. Domingos Gove (dgove@wwfesarpo.org)
2013	Angola Namibia (BCC)	ACP Fish 2	Fisheries Expert	Development of horse mackerel national plans and transboundary management (BCC)
2004 – 2017	International	MSC Assessments – RSA Hake, Tristan da Cunha lobster, Russian Pollock and numerous pre-assessments and peer rev.	Fisheries expert : P2 and P3	Full assessments through CABs (Moody, Intertek, MRAG, Tavel, FCI, BV, Acroua)

Major Projects - Summary

- Resource Assessment:
- Submission of management advice on hake (TAC assessments from 1989 to 1997);
- Biological assessment of hake species in South African waters and determination of ageing and stock structure;
- Design of hake-directed biomass surveys and cruise leader on up to four demersal surveys a year from 1989 to 1997;
- Demersal Working Group co-ordinator from 1991 to 1997 responsible for the management advice on hake and other demersal species;
- Project management (Scientist responsible) of hake-directed longline experiment in SA from 1992-1996

Fishery Economics and Governance :

- Preparation of sector economic reports for RSA fisheries to assist with rights allocation procedures: Hake Longline, Inshore Trawl (Hake and Sole), Shark longline, South Coast Rock Lobster, Patagonian Toothfish, Deepwater Fishery, Midwater Trawl & Hake Handline
- Economic Assessment of the Wetfish and Freezer Trawl apportionment of Hake in Namibia
- BCLME – Ecosystem Approach to Fisheries – Cost Benefit Analysis (March 2006)
- Review of the West Indian Ocean Tuna Fishery and Potential Opportunities and Options for the Development of the Port of Victoria (Seychelles) – Completed March 2008
- Assessment of economic loss due to hydrocarbon development – numerous ongoing projects, PetroSA, Forrest Oil west coast gas, CNR well drilling and many others.
- Value-Adding of Anchovy *Engraulis encrasicolus* in South Africa and potential for poverty relief.
- Governance of Kenya Fisheries – Consultancy and report prepared for IOC Smartfish programme (2011)

Other Projects Completed :

- Comparative assessment (socio-economic) of trawl and Longline fisheries in Benguela Region (BCLME).
- Evaluation of deepwater groundfish fishery in South West Indian Ocean 2004/2005 – FAO.
- Review of Ecosystem Approach to Fisheries Management for South African Fisheries (BCLME – MCM project).
- Review of South Africa's Indian Ocean fisheries – management and policy.
- Development of the South West Indian Ocean Fisheries Programme Implementation Plan – World Bank / FAO – Completed March 2007 (preparation of Project Documents for World Bank and GEF).
- Ecosystem Approach to Fisheries – BCLME project LMR/EAF/03/01 – Contracted consultant including Risk Assessments and Benefit Cost estimators for EAF – Ongoing as of 5 November 2006.
- Indian Ocean Tuna Tagging Programme – 2004-2007 collaborative programme with McAllister Elliot and Partners (UK) and Capricorn Fisheries Monitoring cc (RSA)
- Indian Ocean Tuna Commission – 2009 Collaborative programme between MRAG (UK) and Capricorn Fisheries Monitoring cc for the provision of Observers and monitors on Indian Ocean tuna transshipment vessels.

- International Commission for the Conservation of Atlantic Tunas – 2007 Collaborative programme between MRAG (UK) and Capricorn Fisheries Monitoring cc for the provision of Observers and monitors on Atlantic tuna transshipment vessels.
- Domestic contract awarded (Sept. 2007) for the monitoring of national and high seas tuna longline fisheries, all trawl and small pelagic sectors and deep water rock lobster trap fisheries
- FAO / World Bank – review of Tanzania MACEMP programme with WB surveillance team (2008, 2009, 2010, 2011, 2012)
- FAO / World Bank – initiation of the South West Indian Ocean Fisheries Project – development of Project Implementation Manual and Observer programme (Mombasa – 2007- 2009)
- FAO / World Bank – Project development – Kenya Coastal Development Project (KCDP) – Ongoing 2010-2015
- FAO – EAF-Nansen Programme – Mozambique Sofala Bank Shrimp fishery management plan – development of effort management recommendations.
- FAO World Bank – Lake Victoria LVEMP project. Project management and support to Lake Victoria Fisheries Organisation.
- FAO World Bank – South West Indian Ocean Fisheries Shared Growth and Governance Project (Tanzania effective from June 2015)
- ICCAT Tuna Transshipment Programme Observers – CapFish project executant (2009 to 2012) – ongoing
- IOTC Tuna Transshipment Programme Observers – CapFish project executant (2010-2012) – ongoing
- Tuna Longline – RSA Observer deployments – 100% coverage on Deep Water Fishing Nations (RSA) – Project executant (2007-2012) – on-going
- IOTC Tuna – review of economic reports undertaken by WWF (10 country reports and summaries) – May 2012

Marine Stewardship Council :

- Numerous fisheries assessed including Russian Pollock, Tristan da Cunha Lobster, RSA Hake and many others including many pre-assessments
- Fishery Improvement projects ongoing : Kenya Lobster, Mozambique shallow and deepwater shrimp and Namibian Hake assessment
- Assessment of the PNA Western Pacific tuna Fishery (current September 2016)
- Review of the Mozambique linefish fishery (MSC preassessment) and SASSI assessment (WWF – South Africa) (Current September 2016)

Lecturing and Document Preparation:

- Extensive lecturing and seminar presentations (30 years) as well as detailed project and document preparation experience.
- Presentation of 5 x International courses in Namibia on International Agreements, UNCLOS, RFO's etc to Inspectors, Observers and Fisheries Managers.

Courses:

- Conflict resolution course completed in 1996
- Introductory course in resource economics completed in 2006 (Rhodes University MBA)

List of Recent Specialist Fisheries Assessments for Hydrocarbon and Phosphate Mining EIAs:

Shell Namibia Upstream B.V.: Proposed deep water exploration well drilling in petroleum exploration licence 39 off the coast of southern Namibia (October 2018) Client: SLR Environmental Consulting (Namibia) (Pty) Ltd.

Spectrum Geo Ltd: Proposed 3D Seismic Survey offshore northern Namibia: Baseline Study and Environmental Impact Assessment (June 2017) Client: SLR Environmental Consulting (Namibia) (Pty) Ltd.

GALP: Environmental Impact Assessment for Namibia 3D Seismic Survey for PEL 82 (May 2017) Client: ERM Iberia, S.A.

GALP: Environmental Impact Assessment for Namibia 3D Seismic Survey for PEL 83 (May 2017) Client: ERM Iberia, S.A.

Sungu Sungu Oil (Pty) Ltd: Environmental Impact Assessment for a proposed 3D seismic survey in the Pletmos Basin, southern Cape (February 2017) Client SRK Consulting (Pty) Ltd.

Spectrum ASA: Proposed 3D seismic survey, Walvis Basin, northern Namibia (January 2017) Client SLR Environmental Consulting (Pty) Ltd.

Spectrum ASA: Proposed 2D seismic survey, Orange Basin, southern Namibia (October 2016). Client SLR Environmental Consulting (Pty) Ltd.

LK Mining (Pty) Ltd: Proposed Prospecting Licence within EPL 5965, Hottentots Bay, Namibia – Baseline Study and Environmental Impact Assessment on Fisheries (April 2016) Client: SLR Environmental Consulting (Pty) Ltd

PetroSA (Pty) Ltd: Proposed Development of the E-BK Area in Offshore Licence Block 9, South Coast, South Africa. Client SRK Consulting (Pty) Ltd

Spectrum ASA: Western Approaches 2D Speculative Seismic Survey, South Africa. Client SLR Environmental Consulting (Pty) Ltd

Schlumberger: Proposed 3D Seismic Survey off the East Coast of South Africa (November 2015). Client: Environmental Resources Monitoring (ERM).

Rhino Oil & Gas Exploration South Africa (Pty) Ltd: Proposed Exploration Activities in Offshore Licence Blocks 3617 and 3717 off the South-West Coast of South Africa (November 2015) Client: CCA Environmental (Pty) Ltd

Xaris Energy Namibia (Pty) Ltd: Proposed Construction and Operation of a LNG Facility in Walvis Bay, Namibia (July 2015) Client: Enviro Dynamics Namibia (Pty) Ltd

Murphy Ludertiz Oil Co. Ltd: Proposed Exploration Well Drilling in Licence Blocks 2613A and 2613B off the coast of Namibia (July 2015) Client: SLR Environmental Consulting Namibia (Pty) Ltd

Shell Namibia Upstream B.V.: Environmental Impact Assessment for a 3D seismic survey within Namibian blocks 2913A & 2914B (PEL 39) (July 2014) Client: ERM South Africa (Pty) Ltd.

Shell South Africa Upstream B.V.: Proposed Exploration Drilling in the Orange Basin Deep Water Licence Area off the West Coast of South Africa (July 2014) Client: CCA Environmental (Pty) Ltd

Publications:

COCHRANE, K, D.W. JAPP *et al.* 2007 : Results and conclusions of the project “*Ecosystem approach to fisheries management in the Benguela Current Large Marine Ecosystem*” . FAO Fisheries Circular No. 1026.

COCHRANE, K, C.J. AUGUSTYN, T. FAIRWEATHER, D.W. JAPP, K. KILONGO, J. IITEMBU, N. MOROFF, J.P. ROUX, L.SHANNON, B. VAN ZYL and F. VAZ VELHO. 2009. Benguela Current Large Marine Ecosystem – Governance and management for an Ecosystem Approach to Fisheries in the region. *Coastal management*, 37:235-254.

COCHRANE, K, and D.W. JAPP. 2012. Retrospective analysis on pelagic fishes in the South West Indian Ocean for the South West Indian Ocean Fisheries Project. Component 4 (23 November 2012)

COCHRANE, K and D.W. JAPP, 2015. Offshore fisheries of the Southwest Indian Ocean. (5). Pelagic Fisheries. *Oceanographic Research Institute Special Publication No. 10* (eds. Van der Elst and Everett).

- JAPP, D.W. 1988 - The status of the South African experimental longline fishery for kingklip *Genypterus capensis* in Divisions 1.6, 2.1 and 2.2. *Colln. Scient. Pap. int. Comm. SE Atl. Fish.* **15(2)**, 35-39
- JAPP, D.W. 1989 - An assessment of the South African longline fishery with emphasis on stock integrity of kingklip *Genypterus capensis* (Pisces: Ophidiidae). **M.Sc. Thesis**, Rhodes University: [iii] + 138pp
- JAPP, D.W. and A.E. PUNT 1989 - A preliminary assessment of the status of kingklip *Genypterus capensis* stocks in **ICSEAF** Division 1.6 and Subarea 2. *ICSEAF Document SAC/89/S.P.*: 15 pp (mimeo).
- JAPP, D.W. 1990 - ICSEAF otolith interpretation guide No.3 - kingklip (publication completed but not published due to dissolving of ICSEAF).
- JAPP, D.W. 1990 - A new study on the age and growth of kingklip *Genypterus capensis* off the south and west coasts of South Africa, with comments on its use for stock identification. *S. Afr. J. mar. Sci.* **9**: 223-237.
- JAPP, D.W. 1993 - Longlining in South Africa. In: *Fish fishers and fisheries* L.E. Beckley and R.P. van der Elst (Eds). *Proceedings of the second South African linefish symposium, Durban, 23-24 October 1992*. Special Publication No 2: 134-139.
- JAPP, D.W. 1995 - The hake-directed pilot study conducted from 23 May 1994 to 31 May 1995. *Mimeo* 110 pp
- JAPP, D.W. 1997 - Discarding practices and bycatches for fisheries in the Southeast Atlantic Region (Area 47). In I.J. Clucas & D.G. James, eds. 1997. *Papers presented at the Technical Consultation on Reduction of Wastage in Fisheries*. Tokyo. FAO Fisheries Report No. 547 (Suppl.). Rome, FAO.
- JAPP, D.W. 1999 - Management of elasmobranch fisheries in South Africa. In: *Case studies of the management of elasmobranch fisheries* Edited by R. Shotton. *FAO Fisheries Technical Paper 378/1* : 199-217.
- JAPP, D.W. 1999 - Allocation of fishing rights in the South African hake fishery. In: *Case studies of Rights allocations*. *FAO Fisheries Technical Paper 411*.
- JAPP, D.W. 2006 - Country Review : South Africa (Indian Ocean). *Review of the state of world marine capture fisheries management : Indian Ocean*. *FAO Fisheries Technical Paper 488*.
- JAPP, D.W. 2008. Scientific rationale and alternatives for the introduction of Fishery Management Areas for hake. Unpub report. *South African Deep Sea Trawling Industry Association*.
- JAPP, D.W. P. SIMS and M.J. SMALE 1994 - A Review of the fish resources of the Agulhas Bank. *S. Afr. J. Sci.* **70**: 123-134.
- JAPP, D.W. 2010. Discussion Paper Prepared for Workshop on the Implementation of the FAO Guidelines for the Management of Deep-sea Fisheries in the High Seas. Pusan, South Korea (May 2009).
- JAPP, D.W. 2010. Pre Assessment Report for the South African Longline Fishery for Hake Client: WWF (RSA) and Ocean Fresh. Capricorn Fisheries Monitoring cc. 3 February 2010 (final)
- JAPP, D.W. 2012. Rapid Fishery Pre-Assessment for Marine Stewardship Council (MSC) Namibian Hake : *Merluccius paradoxus* and *M. capensis* undertaken for MRAG Americas
- JAPP, D.W. 2012 . South African large pelagic (tuna) assessment. MRAG Americas: WWF ABNJ Tuna Project Baseline Analysis
- JAPP, D.W. 2014. Development of a Training and Capacity Building Programme for Developing Country Fisheries Pursuing MSC certification: Principle 2 - Ecosystems Working towards Marine Stewardship Council Certification in a Developing Country – Identifying the gaps, needs and means to achieving certification

- JAPP, D.W and A. JAMES 2005 - Potential exploitable deepwater resources and exploratory fishing off the South African coast and the development of the deepwater fishery on the south Madagascar Ridge. *FAO Fisheries Proceedings 3/2*. Deep Sea 2003 : Conference on the Governance and Management of Deep-sea Fisheries. R. Shotton ed.
- JAPP, D.W., M. PURVES and S. WILKINSON. 2007. Benguela Current Large Marine Ecosystem State of Stocks Review 2007. Report No. 1 (2007) BCLME.
- JAPP, D.W., M. PURVES and D. NEL. 2008. Draft management plan for the Prince Edward Islands Marine Protected Area : in Nel, D & Omardien, A. (eds): *Towards the development of a Marine Protected Area at the Prince Edward Islands*. WWF South Africa Report Series – 2008/Marine/001.
- JAPP, D.W. and H. CURRIE-POTGIETER. 2009. FAO case studies : Marine Protected Areas. *The development and status of Marine Protected Areas in South Africa and Namibia*. (In press, FAO)
- JAPP, D.W. AND M. SMITH 2012. Fisheries, Mammals and Seabirds specialist study Environmental Impact Assessment. Namibian Marine Phosphate (Pty) Ltd.: Dredging of marine phosphates from ML 170 Report (Revised 8 March 2012)
- JAPP, D.W., KELLEHER, K, D. BOYER. 2013. Preparation of the Horse Mackerel (*Trachurus trecae*) Management Plan for Angola. ACP - Support for the devising of the management plan for the Horse Mackerel fishery Angola and Namibia Project ref. N° SA-1.2-B5 REL Region: Southern Africa Country: Namibia, Angola 27 October 2013
- JAPP, D.W. AND A. HERVAS. 2013. Pre-Assessment Report – Uruguayan Hake fishery. Food Certification International Ltd Client : FRIPUR & Oceanfresh
- OSBORNE, R.F. , MELO, Y.C. , HOFMEYER, M.D. AND D.W. JAPP – Serial spawning and batch fecundity of *Merluccius capensis* and *M. paradoxus*. *S. Afr. J. mar. Sci.* **21**: 211 - 216.
- PUNT, A.E. and D.W. JAPP 1994 - Stock assessment of the kingklip *Genypterus capensis* off South Africa. *S. Afr. J. mar. Sci.* **14**: 133-149.
- PAYNE, A.I.L. , BADENHORST, A. AND D.W. JAPP 1996 - Managing fisheries following political transition in South Africa, faced with multiple objectives and aspirations. **ICES C.M. 1996/P.5**
- SHANNON, L.V., CRAWFORD, R.J.M., POLLOCK, D.E., HUTCHINGS, L., BOYD, A.J., TAUNTON-CLARK, J., BADENHORST, A., MELVILLE-SMITH, R., AUGUSTYN, C.J., COCHRANE, K.L., HAMPTON, I., NELSON, G., JAPP, D.W. AND R.J. TARR. 1992 - The 1980s - a decade of change in the Benguela ecosystem. In: *Benguela Trophic Functioning*. Payne, A.I.L., Brink, K.H., Mann, K.H., and R. Hilborn (Eds). *S. Afr. J. mar. Sci.* **12**: 271-296.
- SMITH, M, COCHRANE, K AND D.W. JAPP. 2012. Review of Significant Bycatch species in the South African Hake-Directed Trawl Fishery. Prepared for the South African Deep Sea Trawling Industry Association in fulfilment of the Marine Stewardship Council (MSC) certification of the South African Hake-Directed Trawl Fishery: Condition 3
- WICKENS, P.A., JAPP, D.W., SHELTON, P.A., KRIEL, F., GOOSEN, P.C., ROSE, B., AUGUSTYN, C.J., BROSS, C.A.R., PENNEY, A.J. AND R.G. KROHN 1992 - Seals and fisheries in South Africa - competition and conflict. In: *Benguela Trophic Functioning*. Payne, A.I.L., Brink, K.H., Mann, K.H. and R. Hilborn (Eds). *S. Afr. J. mar. Sci.* **12**: 773-789.



CapMarine

Capricorn Marine Environmental

CURRICULUM VITAE: SARAH WILKINSON

Date of Birth: 20 June 1979

Nationality: Dual nationality South African and British

Academic Record:

2001 University of Cape Town, South Africa; BSc Honours
1998 – 2000 University of Cape Town; BSc (Oceanography and Botany)

Employment Record:

2003 – current Capricorn Marine Environmental (Pty) Ltd (Previously CapFish SA (Pty) Ltd)
2002 Institute of Plant Conservation, University of Cape Town

Languages: English (First language); Afrikaans & French (Basic written & spoken)

Membership of Professional Bodies: SACNASP-Registered Professional Natural Scientist
Membership number 115666

Key Experience:

1. Specialist assessments on the impact of offshore hydrocarbon exploration and installation activities on fisheries in South Africa, Namibia, Mozambique and Angola (in accordance with scoping and EIA requirements).
2. Management of Marine Mammal Observer (MMO), Passive Acoustic Monitoring (PAM) and Fisheries Liaison Services for seismic survey vessels in the offshore sub-Saharan region as well as the development of an in-house MMO training programme;
3. Management of the industry-funded ship-based scientific observer programme for the South African Pelagic Fishing Industry Association (SAPFIA).
4. Coordination of fisheries observer deployments for the South African Offshore Resources Observer Programme (OROP), Indian Ocean Tuna Commission and International Commission for the Conservation of Atlantic Tunas (IOTC/ICCAT) Regional Observer Programmes.
5. Analysis of data collected by fisheries observers and report preparation. Recent projects include a review on the effects of trawling on benthic habitat in part fulfilment of the Marine Stewardship Council certification of the South African hake trawl fishery (Client: South African Deepsea Trawling Industry Association (SADSTIA)).
6. GIS support and analysis of the South African fishery catch and effort for use in the Offshore Marine Protected Area Project - contracted by the South African National Biodiversity Institute (SANBI).
7. Spatial mapping of the proposed expanded Saldanha Bay Aquaculture Development Zone (ADZ) in line with the goals of operation Phakisa.

Fisheries Assessments : Selected Project List for last 5 years			
Client	Country	Area	Date
Telecommunications Cables			
IOX	South Africa	South Coast	June 2018
ACE Cable / MTN (Pty) Ltd	South Africa	West Coast	September 2016
WACS	South Africa	West Coast	2012
Sonangol Offshore Optical Cable (SOOC) system	Angola	Luanda	2012
Marine Mining			
Belton Park Trading 127 (Pty) Ltd	South Africa	2C & 3C	September 2018
De Beers	South Africa	6C	June 2018
Alexkor	South Africa	1A-C, 2A, 3A, 4A-B	September 2017
West Coast Resources (Pty) Ltd	South Africa	6A-8A	July 2016
LK Mining	Namibia	EPL5965	May 2016
Belton Park Trading 127 (Pty) Ltd	South Africa	2C	May 2016
Belton Park Trading 127 (Pty) Ltd	South Africa	2C-5C	January 2015
Hydrocarbon			
Seismic Surveys			
Petroleum Geo-Services	South Africa	West & Southwest Coasts	October 2018
Kosmos	Sao Tome & Principe	Blocks 10 & 13	July 2018
Shell Namibia B.V.	Namibia	PEL39	May 2018
Petroleum Geo-Services	South Africa	East & South Coasts	January 2018
Impact Africa Ltd	South Africa	Orange Basin	July 2017
Spectrum Geo Ltd	Namibia	Northern	June 2017
GALP	Namibia	PEL82 & 83	May 2017
Sungu Sungu Oil (Pty) Ltd	South Africa	Pletmos Basin	March 2017
Spectrum Geo Ltd	Namibia	Southern	October 2016
Spectrum ASA	South Africa	West Coast	January 2016
Schlumberger	South Africa	East Coast	November 2015
Rhino Oil & Gas Exploration	South Africa	Blocks 3617 & 3717	November 2015
Nabirm Energy Services (Pty) Ltd	Namibia	2113A	January 2015
Exploration well-drilling			
ENI	South Africa	East Coast	June 2018
GALP	Sao Tome & Principe	Block 5, 6, 11, 12	June 2018
Shell Namibia B.V.	Namibia	PEL39	October 2017
Murphy Lüderitz Oil Co. Ltd	Namibia	2613A and 2613B	July 2015
Thombo Petroleum Ltd	South Africa	Block 2B	December 2014
Cairn South Africa Ltd	South Africa	Block 1	November 2014
Subsea pipelines			
PetroSA (Pty) Ltd	South Africa	E-BK Area, Block 9	February 2017
Xaris Energy Namibia	Namibia	Walvis Bay	July 2015
Sunbird Energy (Pty) Ltd	South Africa	2A	December 2014
Other			
Aquaculture development zone	Identification of suitable areas for expansion of aquaculture within Saldanha Bay		
South African National Biodiversity Institute	Offshore Marine Protected Areas Project: spatial distribution/ mapping of South Africa's commercial fisheries		
WWF South Africa	Hake longline sector footprint: Spatial distribution of fishing effort and overlap with benthic habitats of the South African Exclusive Economic Zone (2002 – 2012)		
South African Deepsea Trawling Industry Association	Ringfencing the trawl footprint		

Courses and Symposia :

- 7th and 5th International Symposia on GIS/Spatial Analyses in Fishery and Aquatic Sciences, Hakodate, Japan & Wellington, New Zealand. International Fishery GIS Society
- Joint Nature Conservation Committee-certified Marine Mammal Observer Training (Intelligent Ocean Training Services)

- Passive Acoustic Monitoring Training (Intelligent Ocean Training and Consultancy Services and Seiche Measurements Ltd)
- Bureau of Ocean Energy Management, Regulation and Enforcement Gulf of Mexico: Protected Species Observer Training
- ArcGIS I, II and Spatial Analyst (GIMS: ESRI South Africa)
- Maxsea Navigational Software (TimeZero)
- Marine Stewardship Council Chain of Custody Training Course (Moody Marine Ltd)
- SAQA-approved learning facilitator

Publications:

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- Sink KJ, Wilkinson S, Atkinson LJ, Leslie RW, Attwood CG and McQuaid KA 2013. Spatial management of benthic ecosystems in the South African demersal trawl fishery. South African National Biodiversity Institute, Pretoria. 22 pages.
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- Spectrum Geo Ltd: Proposed 3D Seismic Survey offshore northern Namibia: Baseline Study and Environmental Impact Assessment (June 2017) Client: SLR Environmental Consulting (Namibia) (Pty) Ltd.
- GALP: Environmental Impact Assessment for Namibia 3D Seismic Survey for PEL 82 (May 2017) Client: ERM Iberia, S.A.
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- Sungu Sungu Oil (Pty) Ltd: Environmental Impact Assessment for a 3D Seismic Survey in the Pletmos Basin, southern Cape (March 2017) Client: SRK Consulting South Africa (Pty) Ltd.
- PetroSA (Pty) Ltd: Proposed Development of the E-BK Area in Offshore Licence Block 9, South Coast, South Africa (Feb 2017) Client SRK Consulting (Pty) Ltd.

Spectrum Geo Ltd: Proposed 2D Seismic Survey offshore southern Namibia: Baseline Study and Environmental Impact Assessment (October 2016) Client SLR Environmental Consulting (Namibia) (Pty) Ltd.

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Thombo Petroleum Ltd: Proposed Exploration Well Drilling within Licence Block 2B off the West Coast of South Africa (December 2014) Client: CCA Environmental Pty Ltd

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PetroSA Pty Ltd: Proposed Exploration Right to Undertake Hydrocarbon Exploration Surveys in Licence Block 3A/4A off the West Coast of South Africa (July 2014) Client: Jeffares & Green Engineering and Environmental Consulting

OK Energy Ltd: Proposed Exploration Activities in the Northern Cape Ultra-deep Licence Area in the Orange Basin, West Coast of South Africa (January 2014) Client: CCA Environmental (Pty) Ltd

Tullow Oil: Proposed 3D and 2D Seismic Surveys in Licence Blocks 2012B, 2112A and 2113B, Walvis Basin, off the coast of Namibia (October 2013) Client: CCA Environmental Pty Ltd.

Spectrum ASA: Proposed Speculative 2D Seismic Survey within the Orange Basin, West Coast, South Africa (October 2013) Client: CCA Environmental Pty Ltd.

Enigma Oil & Gas Exploration: Proposed 2D Seismic Survey within Licence Block 2714B, Namibia (September 2013) Client: CCA Environmental Pty Ltd.

Impact Africa Ltd: Proposed Oil and Gas Exploration Activities in the West Bredasdorp Area, off the South Coast of South Africa (January 2013) Client: CCA Environmental Pty Ltd

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The Petroleum Oil and Gas Corporation of South Africa (Pty) Ltd: Proposed 3D Seismic Surveys within Block 9, South Coast, South Africa (February 2011)

HRT Oil & Gas, UNX Energy Corp: Namibian Offshore 3D Seismic Acquisition: Specialist Report on Fisheries and Potential Interactions (January 2011)

Bayfield Energy Limited: Proposed 2D Seismic Survey In The Pletmos Inshore Area, South Coast, South Africa (2010)

Silver Wave Energy: Proposed 2D Seismic Survey within Blocks 2931C, 2931D, 2932A and 2932C, East Coast, South Africa (April 2010)

CNR International Limited: Proposed Exploration Well Drilling Programme within Block 11B/12B, South Coast, South Africa (March 2010)

The Petroleum Oil and Gas Corporation of South Africa (Pty) Ltd: Proposed Development of The F-O Gas Field in Petroleum Licence Block 9 (May 2008 (updated February 2009 and October 2010))

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Fish and Fisheries Distribution in Offshore Hydrocarbon Concession Areas off Southern Angola (September 2012) Client: Lwandle Technologies

Sungu Sungu Petroleum (Pty) Ltd: Mid-Orange Basin, West Coast South African Offshore 2D Seismic Survey (June 2011) Client: Nzumbululo Heritage Solutions South Africa

Offshore Angolan Seismic Program: Fish, Fisheries and Interactions with Oil And Gas in Northern Angola (2007) Client: Ulwandle Consulting

Environmental Monitoring Close-Out Reports for various Seismic Surveys: Client list available on request.

Annex D 9.2

CV - ACO Associates

Specialist's CV: John Gribble

Name: John Gribble
Profession: Archaeologist
Date of Birth: 15 November 1965
Parent Firm: ACO Associates cc
Position in Firm: Senior Archaeologist
Years with Firm: <1
Years of experience: 27
Nationality: South African
HDI Status: n/a

Education:

1979-1983 Wynberg Boys' High School (1979-1983)
1986 BA (Archaeology), University of Cape Town
1987 BA (Hons) (Archaeology), University of Cape Town
1990 Master of Arts, (Archaeology) University of Cape Town

Employment:

- ACO Associates, Senior Archaeologist and Consultant, September 2017 – present
- South African Heritage Resources Agency, Manager: Maritime and Underwater Cultural Heritage Unit, 2014 – 2017 / Acting Manager: Archaeology, Palaeontology and Meteorites Unit, 2016-2017
- Sea Change Heritage Consultants Limited, Director, 2012 – present
- TUV SUD PMSS (Romsey, United Kingdom), Principal Consultant: Maritime Archaeology, 2011-2012
- EMU Limited (Southampton, United Kingdom), Principal Consultant: Maritime Archaeology, 2009-2011
- Wessex Archaeology (Salisbury, United Kingdom), Project Manager: Coastal and Marine, 2005-2009
- National Monuments Council / South African Heritage Resources Agency, Maritime Archaeologist, 1996-2005

- National Monuments Council, Professional Officer: Boland and West Coast, Western Cape Office, 1994-1996

Professional Qualifications and Accreditation:

- Member: Association of Southern African Professional Archaeologists (No. 043)
- Principal Investigator: Maritime and Colonial Archaeology, ASAPA CRM Section
- Field Director: Stone Age Archaeology, ASAPA CRM Section
- Member: Chartered Institute for Archaeologists (CIfA), United Kingdom
- Class III Diver (Surface Supply), Department of Labour (South Africa) / UK (HSE III)

Experience:

I have nearly 30 years of combined archaeological and heritage management experience. After completing my postgraduate studies, which were focussed on the vernacular architecture of the West Coast, and a period of freelance archaeological work in South Africa and abroad, I joined the National Monuments Council (NMC) (now the South African Heritage Resources Agency (SAHRA)) in 1994. As the Heritage Officer: the Boland I was involved in day to day historical building control and heritage resources management across the region. In 1996 I become the NMC's first full-time maritime archaeologist in which role was responsible for the management and protection of underwater cultural heritage in South Africa under the National Monuments Act, and subsequently under the National Heritage Resources Act.

In 2005 I moved to the UK to join Wessex Archaeology, one of the UK's biggest archaeological consultancies, as a project manager in its Coastal and Marine Section. In 2009 I joined Fugro EMU Limited, a marine geosurvey company based in Southampton to set up their maritime archaeological section. I then spent a year at TUV SUD PMSS, an international renewable energy consultancy based in Romsey, where I again provided maritime archaeological consultancy services to principally the offshore renewable and marine aggregate industries.

In August 2012 I set up Sea Change Heritage Consultants Limited, a maritime archaeological consultancy. Sea Change provides archaeological services to a range of UK maritime sectors, including marine aggregates and offshore renewable energy. It also actively pursues opportunities to raise public awareness and understanding of underwater cultural heritage through educational and research projects and programmes, including some projects being developed in South Africa.

Projects include specialist archaeological consultancy for more than 15 offshore renewable energy projects and more than a dozen offshore aggregate extraction licence areas.

In addition to managing numerous UK development-driven archaeological projects, I have also been involved in important strategic work which developed guidance and best practice for the offshore industry with respect to the marine historic environment. This has included the principal authorship of two historic environment guidance documents for COWRIE and

the UK renewable energy sector, and the development of the archaeological elements of the first Regional Environmental Assessments for the UK marine aggregates industry. In 2013-14 I was lead author and project co-ordinator on the Impact Review for the United Kingdom of the 2001 UNESCO Convention on the Protection of the Underwater Cultural Heritage. In 2016 I was co-author of a Historic England / Crown Estate / British Marine Aggregate Producers Association funded review of marine historic environment best practice guidance for the UK offshore aggregate industry (.

I returned to South African in mid-2014 where I was re-appointed to my earlier post at SAHRA: Manager of the Maritime and Underwater Cultural Heritage Unit. In July 2016 I was also appointed Acting Manager of SAHRA's Archaeology, Palaeontology and Meteorites Unit.

I left SAHRA in September 2017 to join ACO Associates as Senior Archaeologist and Consultant.

I have been a member of the ICOMOS International Committee for Underwater Cultural Heritage since 2000 and have served as a member of its Bureau since 2009. I am currently the secretary of the Committee.

I have been a member of the Association of Southern African Professional Archaeologists for more than twenty years and am accredited by ASAPA's CRM section. I have been a member of the UK's Chartered Institute for Archaeologists (CIfA) since 2005, and served on the committee of its Maritime Affairs Group between 2008 and 2010. Since 2010 I have been a member of the UK's Joint Nautical Archaeology Policy Committee.

I am currently a member of the Advisory Board of the George Washington University / Iziko Museums of South Africa / South African Heritage Resources Agency / Smithsonian Institution 'Southern African Slave Wrecks Project' and serve on the Heritage Western Cape Archaeology, Palaeontology and Meteorites Committee.

Books and Publications:

Gribble, J. and Scott, G., 2017, *We Die Like Brothers: The sinking of the SS Mendi*, Historic England, Swindon

Lloyd Jones, D., Langman, R., Reach, I., Gribble, J., and Griffiths, N., 2016, Using Multibeam and Sidescan Sonar to Monitor Aggregate Dredging, in C.W. Finkl and C. Makowski (eds) *Seafloor Mapping along Continental Shelves: Research and Techniques for Visualizing Benthic Environments*, Coastal Research Library 13, Springer International Publishing, Switzerland, pp 245-259.

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- Gribble, J., Parham, D. and Scott-Ireton, D., 2009, Historic Wrecks: Risks or Resources? In *Conservation and Management of Archaeological Sites*, Vol. 11 No. 1, March, 2009, 16–28.
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- Gribble, J., 2007, The Protection of the Underwater Cultural Heritage: National Perspectives in light of the UNESCO Convention 2001 by Sarah Dromgoole, in *The International Journal of Nautical Archaeology*, 36, 1, pp 195-6.
- Gribble, J., 2006, The Sad Case of the ss Maori, in Grenier, R., D. Nutley and I. Cochran (eds) *Underwater Cultural Heritage at Risk: Managing Natural and Human Impacts*, pp 41-43, ICOMOS, Paris
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