

Juliet Hermes, Ph.D. Y-rated scientist

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Absent from work (maternity leave) July-October 2012

Education

2001-2005; Ph.D. Oceanography, University of Cape Town: Ocean model diagnosis of variability in the South Indian Ocean.

1999-2000; M.Sc. Physical oceanography, University of Wales, Bangor, U.K and IFREMER, Brest, France.

1994-1998; B.Sc. (Hons) Biology and European studies (French), University of Sussex, U.K. and the University of Grenoble, France.

Work experience

2007-current: Manager and principle oceanographer, Egagasini, SAEON node for marine offshore systems. Responsibilities include developing and maintaining the science plan and observation and modeling programs, writing project proposals, managing budget, performing research, supervising students and interns, providing leadership (both scientific and business) to 5 permanent staff and contract positions, managing data, networking, sitting on various advisory boards, education outreach, capacity building, maintaining finances, reporting to the SA National Research Foundation, as well as researching climate variability using long term observations and models.

2012-current: Honorary Research Associate at UCT

2008-current: Agulhas Somali Current Large Marine Ecosystem – South African Data and Information Coordinator.

2007: Claude Leon fellowship, University of Cape Town

2005-2007: Indian Ocean research fellow, University of Cape Town: Using a Regional Ocean Model, ROMS to investigate the Indian Ocean thermocline ridge.

2004-current: Courses and *ad hoc* lectures in climate variability and ocean circulation (Masters, honours, undergraduates). Included writing lectures and exams, as well as scientific advisor/mentor to PhD and masters students including aiding students with Matlab, modelling and thesis writing.

2001-2002: DEIMEC (Dynamics of eddies impact on Marion Islands ecosystem) cruise, S.A. Agulhas V104; St Helena Bay monitoring Line (SHBML) and SARP line **2000:** Environment Agency, U.K. Water Quality Consenting Technical Assistant.

2000: Research assistant, Institute Française de Recherche et Etudes de la MER

Skills

- Experience with different ocean models, including ROMS (running), AGAPE (running), ORCA (research) and OFES (research). Excellent knowledge of Matlab programming and Linux environment, basic fortran.
- Knowledge of *in situ* observational, satellite and reanalysis data, as well as considerable research using climate data and analysis, statistical methods and interpretation skills using, amongst others, Ocean Data View, EOF and wavelet analysis.
- Experienced proposal writing, project and fund management, reporting finances, budgets and business plans, human resources, staff management.
- Extensive international collaborations and workshop experience.
- 45 days scientific cruise ship time. Handling a variety of oceanographic equipment
- (CTD, XBT, DOC, SPMR, Chlorophyll, nutrients etc) whilst at sea.
- Experience in presenting, lecturing, public speaking, supervising undergraduate and postgraduate students and interns and working with learners and educators.
- Experience in working in a multi-disciplinary environment covering marine offshore and coastal oceanography, physical, biological and benthic
- Experience with different databases
- Fluent in French (spoken, written, reading).

Publications - International and national

- Butler, J., J. Veitch, J. Hermes and M. Roberts, *in prep*. Near surface hydrography of the Good Hope Jet
- Collins, C., Hermes, J., Reason, C.J.C. and Roman, R. submitted, An observational study of the Comoros Gyre, Deep Sea Research
- Collins, C., Hermes, J., Reason, C.J.C., Meso-scale activity in the Comoros Basin from satellite altimetry and a high resolution ocean circulation model
- Collins, C., Reason, C. J. C. and Hermes, J, **2012** J. Geophys. Res., 117, C03045, doi:10.1029/2011JC007531. Scatterometer and re-analysis wind products over the western tropical Indian Ocean
- Beal, L., W. P. M. De Ruijter, A. Biastoch, R. Zahn, M. Cronin, **J. Hermes**, J. Lutjeharms, G. Quartly, T. Tozuka, S. Baker-Yeboah, T. Bornman, P. Ciopollini, H. Dijkstra, I. Hall, W. Park, F. Peeters, P. Penven, H. Ridderinkhof, J. Zinke, **2011** *Nature*, Vol 472, p. 429-436. On the role of the Agulhas system in ocean circulation and climate.
- Billaney, W. T. B, S. Swart, J. C. Hermes, C. J. C. Reason, **2010** *Journal of Marine Systems*, Vol 82 issue 4, pg 304-310. Variability of the Southern Ocean Fronts at the

Greenwich Meridian.

- Hermes J. C. and C. J. C. Reason, **2009**: The sensitivity of the Seychelles-Chagos Thermocline Ridge to large scale wind anomalies, *Journal of Marine Sciences*, doi: 10.1093/icesjms/fsp074, pp1-12.
- Hermes J. C. and C. J. C. Reason, **2008**: Variability in sea surface temperature and winds in the tropical southeast Atlantic Ocean and regional rainfall relationships. *Int. J. Clim.*, **29**, 11-21
- Hermes J. C. and C. J. C. Reason, **2008**: Annual cycle of the Tropical Indian Ocean (Seychelles-Chagos) thermocline ridge in a regional ocean model. *J. Geophys. Res.*, doi: 10.1029/2007JC004363.
- Hermes J. C., C.J.C. Reason and J.R.E. Lutjeharms, **2007**: Modelling the variability of the source regions of the Agulhas Current System. *J. Clim.* **20**, 3131-3146.
- Hermes J.C. and C.J.C. Reason, **2005**: Ocean model diagnosis of interannual co-evolving SST variability in the South Indian and Atlantic Oceans. *J. Clim.* **18**(15), 2864–2882.
- Reason, C.J.C., J.R.E. Lutjeharms, J. Hermes, A. Biastoch, R.E. Roman, **2003**: Inter-ocean fluxes south of Africa in an eddy-permitting model. *Deep-Sea Res. II* **50**, 281-298.
- Froneman P.W., I.J. Ansorge, L. Vumazonke, K. Gulekana, A.M. Webb, W. Leukes, C.M. Risien, S. Thomalla, K. Bernard, J. Hermes, M. Knott, D. Anderson D, N. Hargey, M. Jennings, J. Veitch, J.R.E. Lutjeharms, C.D. McQuaid, **2002**: Physical and biological variability in the Antarctic Polar Frontal Zone: Report on the research cruise 104 of the *M.V. S.A. Agulhas. S. A. J Science*, **98**, 534-535.

Publications - book chapters/reports

- DEA (Department of Environmental Affairs). 2013. Long-Term Adaptation Scenarios Flagship Research Programme (LTAS) for South Africa. Climate Change Implications for Marine Fisheries in South Africa. Pretoria, South Africa. Editor and scientific contributor
- Insights into impacts of climate change on the South African marine and coastal environment, James, N and Hermes, J (2011), SAEON, SAIAB and SANBI South African marine contribution to the IPCC –co- editor and co-author
- Reason, C. J. C. and J. Hermes (2011). Climate Change and Variability in Southern Africa and Regional Ocean Influences; Observations on Environmental change in South Africa, Zeitsman L. (ed.) Sun Press, Stellenbosch
- Hermes, J and Reason, C. J. C. (2011). Climate change impacts on South Africa, in Insights into impacts of climate change on the South African marine and coastal

environment, (eds., N. James and J. Hermes), Pretoria, South African Environmental Observation Network (SAEON): pp. 85-100.

- Bernard, K. S., W. S. Goschen and J. C. Hermes (2011). Climate change and coastal upwelling: Potential implications for South African marine resources. Section 4: States and trends in the aquatic environment. In: *Observations on Environmental Change in South Africa*. Zietsman, L. (ed.) Sun Press, Stellenbosch. pp. 233-237.
- Reason, C. J. C., J. Hermes, A. Singleton, J.R.E. Lutjeharms, 2003: Modelling Variability in the South West Indian Ocean and its influence on South Africa's Climate. Water Research Commission Report number 868/1/03.

Publications – other

- M. Roberts, A. Share, A. Johnson, G. Brundrit, J. Hermes, T. Bornman, I. Ansorge, J. Stander, D. Vousden, H. Valentine and M. Roussouw, 2011. The Grand Challenge of Developing *in situ* observational Oceanography in South Africa *Proceedings of the Joint Nansen-Tutu Scientific Opening Symposium & OceansAfrica Meeting*, Nansen-Tutu Centre for Marine Environmental Research, Cape Town, South Africa, July 2011.
- Masumoto, Y., W. Yu, G. Meyers, N. D'Adamo, L. Beal, W.P.M. de Ruijter, M. Dyoulgerov, J. **Hermes**, T. Lee, J.R.E. Lutjeharms, J.P. McCreary, Jr., M.J. McPhaden, V.S.N. Murty, D. Obura, C.B. Pattiaratchi, M. Ravichandran, C. Reason, F. Syamsudin, G. Vecchi, J. Vialard, and L. Yu (2010): Observing systems in the Indian Ocean. In *Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society" Conference (Vol. 2)*, Venice, Italy, 21–25 September 2009, Hall, J., D.E. Harrison, and D. Stammer, Eds., ESA Publication WPP-306.
- Hermes, J., C. J. C. Reason, J. R. E. Lutjeharms, **2006**: Modelling the variability of the Greater Agulhas Current System. *CLIVAR Exchanges* **39(11)**, 4.
- Hermes, J., C. J. C. Reason, **2006**: Modelling the variability of the Greater Agulhas Current System. Extended abstract, ICSHMO.
- Hermes, J., **2005**: Ocean model diagnosis of variability in the South Indian Ocean. Ph.D. Thesis.
- Hermes, J., C.J.C. Reason, J.R.E. Lutjeharms, **2002**: Inter-ocean fluxes south of Africa in an eddy-permitting model. *CLIVAR Exchanges* **25(7)** 3/4.
- Hermes, J. **2000**: Small-scale variability of the wind, in the lee of strong topographic features and its effect on ocean circulation. M.Sc. Thesis.
- Chavanne, C., J. Hermes, P. Flament, **2000**: Small-scale variability of the wind, in the lee of strong topographic features and its effect on ocean circulation. *CERSAT News*.
- Hermes, J. **1998**: The alternative oxidase pathway in the Tobacco plant. B.Sc. Thesis.

- Hermes, J. **1997**: Un régime de reproduction andromonoïque des plantes chez *Lloydia serotina*. B.Sc. Year abroad project.

Conferences and workshops Organised

2014: False Bay Symposium

2014: Agulhas System Climate Array workshop

2012: American Geophysical Union Chapman Conference: the Agulhas System and Its Role in Changing Ocean Circulation, Climate, and Marine Ecosystems, local organiser, co-chair, invited introductory talk, co-author on 2 posters.

2011: SCOR capacity building workshop in Mauritius and DBCP Model Development Team coordinator and lecturer: coordinated activities with the DBCP, obtained funding for attendance of regional scientists, coordinated modelling and observational group workshops and SCOR workshop, wrote final reports and recommendations

2010: WIO Scientific Committee to work with SCOR working group: set up this committee to work with the SCOR group and to facilitate the workshop and meeting in East Africa in 2011

2011: Agulhas Somali Current Large Marine Ecosystem Marine Ecosystem Diagnostic Analysis workshop around the Transboundary Diagnostic Analysis

2010-2012: Southern Hemisphere Conference on Meteorology and Oceanography part of the Program organising committee for the 2012 meeting

2010: WIO-DBCP capacity building workshop assisted with the modeling component.

2009: A week long ocean modelling and Indian Ocean climate variability workshop as part of the project: Assessment of Climate Variability Impacts on Coastal Communities of East Africa (P.I.). Attended by 7 SE African scientists and a further 10 students from UCT.

2008: Young African Scientist session at the IGBP (joint organiser), Cape Town. Co-convenor of the session, included logistics, inviting and selecting abstracts and ensuring the smooth running of the session.

2008: SAMSS, Cape Town: Scientific steering committee.

Memberships and Reviews

- **South African SCOR** committee
- **DBCP capacity building technical task group**
- **GCOS** (Global Climate Observing System) steering Committee , **OOPC** (Ocean observing Panel for Climate) Spin-up Task team

- **SCOR working group 136:** The Climatic importance of the Greater Agulhas Current.
- **Professional Natural Scientist**, SA Council for Natural Scientific Professions.
- **Southern African Data Centre for Oceanography**, Chair and Steering Committee member
- **OceanSAfrica technical task group** member
- **Nansen-Tutu Operational Oceanography Centre Board** member
- **Honorary Research Associate**, University of Cape Town
- **External examiner, University of Cape Town, 2012**
- Reviewer for the Journal of Climate, Journal of Geophysical Research, Deep Sea Research, Climate Dynamics and African Journal of Marine Sciences.
- Reviewer for the National Science Foundation (NSF, USA)
- Thesis examiner
- Public outreach through articles and radio interviews
- **MCEN** (Marine and Coastal Educators Network)
- **WIOMSA** (Western Indian Ocean Marine Science Association)
- **SASAS** (South African Society for Atmospheric Sciences)
- **IMBER** Member of the Capacity Building task team
- **SANBI** South African National Biodiversity Institute, steering committee member for monitoring and biodiversity
- **SANCOR** South African Network for Coastal and Ocean Research steering committee
- **MA-RE Marine Research Institute** steering committee member
- **South African representative for Argo, 2010-2012**
- **PIRATA** *Prediction and Research Moored Array in the Tropical Atlantic* SE Atlantic Extension steering committee.
- Various roles and advisory positions within capacity building, in particular regarding modelling in the SW Indian Ocean

Grants and awards

2013: Professional Development Program PhD Grant

NRF Incentive funding for MSc research

ONR grant for investigating global operational models ability to represent salient ocean features around South Africa

KIC grant for international ASCA workshop

2012: SA/Angola bilateral grant: PI, Where two currents meet : Oceanographic processes within the Angola-Benguela Frontal Zone, using models and *in situ* data.

2012: US Office of Naval Research Grant Supporting regional science at the Chapman

Conference

2012: Rated Researcher funding

2012: Professional Development Program Offshore benthic long-term monitoring and research of the Algoa Bay sentinel site, co PI

2012: ACEPIII Collaborator on modelling component of proposal investigating Mozambique Channel

2011: US Office of Naval Research Grant supporting regional science at the DBCP and SCOR working group meeting.

2011: Strategic Research Infrastructure Grant for oceanographic equipment for Algoa Bay Sentinel Site and an offshore benthic camera

2010: SATREPS: Co-investigator on “**Prediction of Climate Variations and its Application in the Southern African Region**”. **2009:** BCC Data and information grant with CSIR

2009: Nairobi Convention Clearing House Mechanism grant to implement and maintain SA's Clearing House

2008: WIOMSA/MAMSA grant – ‘Is there a western Indian Ocean coral triangle? Co-investigator. PI – David Obura of CORDIO, Kenya.

2008: POGO/SCOR visiting fellowship – spent 1 month at the Bermuda Institute of Ocean Sciences, during this time I interacted with scientists from different oceanographic disciplines and forged relationships with scientists from various countries. I gave lectures as part of the POGO course and spent time at sea, learning about observing all aspects of the ocean (physical, chemical and biological) as well as supervising the students at sea.

2008: Co-P.I. ACEP (African Coelacanth Ecosystem Programme) – An integrated, web-based data and metadata system, using Geographic Information Systems (GIS) to understand biophysical processes.

2007: Co-investigator, SANAP SNA200631500002 – Antarctic impacts on South African climate.

2007: START/PACOM award - Assessment of Climate Variability Impacts on Coastal Communities of East Africa.

2007: Claude Leon Foundation fellowship

2005-2006: India-South Africa bilateral funding. P.I. Prof. Chris Reason

2001-2005: Water Research Commission. P.I. Prof. Chris Reason

Students and interns

2014 – 1 PDP PhD, 1MSc, 1 MSc coursework

2013 – 1 PDP PhD, 1 MSc, 3 MSc coursework (graduated 2014) and 2 honours

(graduated 2013)

2 DST/NRF interns

2012 – 1 Honours, (graduated 2012)

2011 – 3 DST/NRF interns

2011 – 1 PhD student, Tiago Queiroz (ongoing)

2009 - 1 PhD student, Charine Collins (graduated 2013)

2009 - 2010: 1 DST/NRF intern

2008-2009: 2MSc students (graduated 2009)

Conferences and workshops

2013: **DST NASA planning workshop**, Pretoria, South Africa

Indian Ocean Rim Countries Academic Group, Perth, Australia.

Indian Ocean Rim Association for Regional Cooperation – Meeting of Ocean Forecasting Officials to build capacity to progress, validate and apply Indian Ocean Forecasting systems, Perth, Australia (AusAid, IOR-ARC funding)

GCOS Steering committee meeting, Germany

GFCS workshop, Pretoria, South Africa

POGO 14 Annual meeting Nansen-Tutu Centre for operational oceanography meeting

2012: **Due to pregnancy I was unable to attend the following meetings, however I participated by written input:** Southern Hemisphere Conference on Meteorology and Oceanography, co-chair of 2 sessions; IMBER workshop Needs assessment for capacity development for integrated marine biogeochemistry and ecosystem research in the Asia-Pacific region; Data Buoy Cooperation Panel Capacity building workshop; **Modelling for ocean forecasting and process studies and Indo-Pacific Oceanography Reference group**; IBSA 3rd ocean workshop

2011: **Global Climate Observing System Steering Committee meeting**, UK

2011: **Argo Steering Team meeting** Argentina, presentation on education program using Argo

2011: **ACCESS early career scientist workshop:** presentation on current and future marine activities in South Africa

2011: **SCOR working group meeting**, Mauritius

2011: 2nd **Data Buoy Cooperation Panel workshop** on capacity building in the Indian Ocean, Mauritius

2010: **SATREPS project** - Tokyo, Japan. 1 week as visiting research scientist at

JAMSTEC. International Symposium “Roles of the Indo-Pacific Oceans in Climate Change and Variability in Commemoration of the 50th Anniversary of the IOC/UNESCO” Presentation: Climate variability in the southern Indian Ocean motivation, observation and modeling.

2010: Financial management Cape Town.

2010: Regional ASCLME technical coordination meeting, Kenya.

2010: Capacity Building for Ocean Science, Germany. SCOR international meeting to form a cohesive approach to ocean science capacity building

2010: Trilateral Sub Global Assessment workshop, Pretoria

2010: Scor working group meeting and Ocean Sciences, Portland, Oregon. Part of the Scor working group on the Climatic importance of the Greater Agulhas Current, first working group meeting.

2010: Data Buoy Cooperation Panel workshop on capacity building for the SW Indian Ocean, South Africa

2010: POGO11 (Partnership of Observations of Global Oceans), Moscow, Japan. Representing the SA marine Community on behalf of SAEON, MA-RE and ACCESS.

2009: Climate change workshop and Japan/South Africa project development, Tokyo, Japan. Presentation: Variability in the Oceans around southern Africa, a South African perspective.

2009: Norway/South Africa climate change workshop, Cape Town. Presentation on SAEON

2009: WIOMSA MASMA Grant holders meeting, Tanzania. Progress report on WIOMSA project.

2009: OceanObs'09, Venice: Monitoring and researching Oceans around Southern Africa, poster, as well as input into white papers. Full sponsorship from WMO.

2009: ASCLME and WIOMSA, Reunion attended the country working group meeting for the ASCLME and the WIOMSA symposium

2009: IBSA Antarctica I, Brazil report on the South African Southern Ocean activities

2009: ACCESS Operational oceanography workshop: Session chair for ocean modeling.

2009: India/Brazil/South Africa IBSA – Oceans workshop, Goa, India; represented the South African physical oceanography component.

2009: Monitoring Climate change impacts, a Southern Ocean Sentinel Program, Hobart, Tasmania.

2009: Workshop of the SW Indian Ocean, Kiel, Germany. Scor working group proposal

put together, member of the potential working group.

- 2008: The ASCLME Regional Meeting of Technical Coordination Groups and the ASCLME Regional Project Coordination Forum, Mauritius**
- 2008: Marine and Coastal Educators Network** Invited speaker
- 2008: The Southern African Marine Science Symposium (SAMSS),** Cape Town, South Africa. Monitoring the coastal and offshore waters around southern Africa, plenary talk. Chair: studies off the west coast of southern Africa.
- 2008: Effects of climate change on the world's oceans, international symposium,** Gijon, Spain. Full support from WCRP. Oral presentation on, 'The Seychelles-Chagos thermocline ridge' and poster presentation, 'the marine nodes of SAEON'.
- 2008: IGBP, represented the International Union of Geodesy and Geophysics,** Cape Town. Full support from Start. Invited presentation 'The Seychelles-Chagos thermocline ridge'.
- 2008: CLIMECO workshop – interaction between the physics and biogeochemistry of the oceans,** Brest, France. Full support from IMBER. Poster presentation on, 'The Seychelles-Chagos thermocline ridge'.
- 2008: 1st Southern African SOLAS/IMBER International Science Meeting,** Cape Town. Presentation on SAEON
- 2008: Workshop to assess the impacts of climate change on Madagascar's biodiversity and livelihoods,** Anatanarivo, Madagascar. **Invited plenary** presentation (WWF): Oceanography and climate change for Madagascar.
- 2007: GEO ministerial Summit** Launch of the Egagasini node
- 2007: WIOMSA** (Western Indian Ocean Marine Science Association), Durban. Introduction to SAEON, poster.
- 2007: A roundtable discussion with Sir David King on climate change in South Africa**
- 2007: SANBI** (South African National Biodiversity Institute) workshop on marine biodiversity.
- 2007: SANAP workshop,** Stellenbosch
- 2007: SAGRADEX workshop** (South African Gradients Experiment).
- 2007: Africa climate research networking workshop for young scientists,** in conjunction with the 28th session of the Joint Scientific Committee for the World Climate Research Programme, Zanzibar. Invited poster presentation.
- 2006: Coastal ocean modeling** summer school, Toulon, France.
- 2006: LOW oxygen variability** and its consequences in the Southeast Atlantic- Benguela Ecosystem, workshop, Cape Town.
- 2006: 8th ICSHMO** (International Conference of Southern Hemisphere Meteorology and

Oceanography), Brazil. Modelling the variability of the Greater Agulhas Current System (oral presentation). Full support from AMS.

2005: XBT workshop, invitee, Goa, India.

2005: WIOMSA (Western Indian Ocean Marine Science Association), Mauritius. Ocean model diagnosis of variability in the South Indian Ocean (oral presentation). Full support from WIOMSA.

2005: Dynamic Planet, Australia. Ocean model diagnosis of variability in the South Indian Ocean (oral presentation). Full support from IAG/IAPSO/IABO

2005: SAMSS (South African Marine Science Symposium), South Africa. Inter-ocean exchange and variability in the South Indian Ocean (oral presentation)

2005: Physical oceanography dissertation symposium (PODSIII), invitation, Hawai'i. Ocean model diagnosis of variability south of Africa (40 min oral presentation); chair of session; multi-disciplinary research, problems and solutions (oral presentation and workshop). Full support from NSF/NASA/ONR/NOAA.

2005: European Geophysical Union (EGU), Austria. Inter-ocean fluxes south of Africa in an eddy-permitting model (poster presentation). Full support from NWO/NFR.

2004: CLIVAR 2004, USA. Interannual variability in the South Indian and South Atlantic Oceans (poster presentation). Full support from UCAR, unable to attend due to accident.

2004: SASAS (South African Society for Atmospheric Sciences), South Africa. Interannual variability in the South Indian and South Atlantic Oceans (poster presentation).

2003: SASAS, South Africa. Variability in the South Indian Ocean (oral presentation).

2005: International Union of Geodesy and Geophysics (IUGG), Japan. Variability in the South Indian Ocean (oral presentation). Full support from IUGG.

2002: Workshop on South African and German activities in the Southern Ocean, Alumni House, UCT, South Africa.

2002: SASAS, World Summit, South Africa. Interocean fluxes south of Africa (oral presentation).

2002: SAMSS (South African Marine Science Symposium), Namibia (poster).

2001: SASAS, South Africa. Mechanisms causing sea surface temperature variability in the South Indian Ocean. Most outstanding poster award.

2001: SANCOR (South African Network for Coastal and Oceanic Research), South Africa. Workshop.

[Referees](#)

Current Employer

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Personal

As well as carrying out my research, I really enjoy lecturing and supervising students and have received excellent feedback from my lectures. I feel this is mostly because my enthusiasm and passion for oceanography is evident when I lecture and I enjoy explaining theories in a way that can be applied and understood. At SAEON I provide leadership to a team of scientists and enjoy using my knowledge, networks and experience to help them achieve their goals. My position at SAEON also allows me to interact with learners and teachers through education outreach and awareness, I find this extremely rewarding.

By lecturing undergraduates and attending a variety of workshops and conferences I have become more fluent in expressing scientific concepts to people with different backgrounds. I have also had experience in working with many different types of people, and learnt how to see and bring out the best in them, often acting as a mediator between groups.

My interest and love of the ocean is not purely work driven, I spend as much free time as possible in the water, surfing, swimming, snorkelling or diving (open water one).