

Jennifer Veitch

[www.daretobereal.com/jennyveitch](http://www.daretobereal.com/jennyveitch)



## Education

University of Cape Town, South Africa

- **Master of Science by dissertation.** **2003-2004**
  - *Numerical model investigation of the circulation in the Angola Basin.*
  
- **Bachelor of Science (Honours) with distinction.** **2002**
  - Thesis: *Surface thermal characteristics of the Angola-Benguela Frontal Zone (ABFZ) from 18 years of satellite imagery.*
  - Remote Sensing Portfolio: Used Bilko and ENVI (Environment for Visualising Images) software programs to enhance and interpret land, ocean and atmospheric satellite images.
  
- **Bachelor of Science (oceanography and geology majors).** **1996-1998**
  - Geological mapping projects:
    - Sedimentological and structural mapping. September 1997  
Laingsburg, Western Cape, South Africa.
    - Igneous and metamorphic mapping. May 1998  
Richtersveld, Northern Cape.

## Fieldwork

- **Hydrographer in the Alexander von Humboldt Angola Benguela Expedition (AHAB), legs 7 and 8.** **May 2004**
  - Operation of the Current-Temperature-Depth (CTD) sensor.
  - Water- sampling using the rosette- sampler.
  - Tracking oceanographic features using up to date sea surface temperature satellite imagery.
  - Onboard processing and analysis of raw CTD data.
  
- **Physical oceanographer aboard the R.V. Meteor cruise 57/1 in the southern Benguela.** **January/  
February 2003**
  - Main scientific objective: decipher the Late Quaternary climate history of the southern Benguela and to investigate the influence of warm Agulhas Current water entrainment into the south east Atlantic.
  - Launching of Expendi-Bathythermographs (XBTs).
  - Onboard processing and analysis of raw XBT and CTD data.
  - Weekly presentations, outlining oceanographic features resolved by the XBT and CTD data.
  - Onboard write- up of cruise report.

- **LOICZ (Land Ocean Interaction in the Coastal Zone) budget study of river and estuary.** **June 2002**
  - Water sampling at several stations along a 14km transect upstream of the mouth of the Duiwenhoks River.
  - Onboard temperature and salinity measurements.
  - Laboratory analysis of phosphates and nitrates.
  - Compilation of a nutrient budget report of the Duiwenhoks estuary following the LOICZ method.
  
- **Participant in the DEIMEC (Dynamic Eddy Impact on Marion's Ecosystem) project aboard the S.A. Agulhas.** **April 2002**
  - Launching of Expendi-Bathythermographs (XBTs).
  - Onboard processing and analysis of raw XBT and CTD data.
  - Water sampling and onboard laboratory analysis of phosphates, silicates and oxygen.

### Computer Software

---

Proficient in:

- Matlab®
- Ocean Data View
- Bilko (software designed to enhance satellite images, particularly aimed at marine remote sensing).
- ENVI (software for the visualization, analysis, and presentation of digital imagery).
- Microsoft Office (particularly Excel, Word and Powerpoint)

### Presentation Skills

---

- **Presentation** at the 'International Workshop on Forecasting and Data Assimilation in the Benguela and Comparable Systems' to be held in Cape Town, 8-11 November 2004\*. **November 2004**
  
- **Prepared and presented a lecture** on the use of Ocean Data View software at the Institute of Maritime Technology (IMT), Simonstown, Cape Town. **May 2003**
  
- **Tutoring (first year geology students).** **March- May 2003**
  
- **Departmental seminar,** Oceanography department, UCT, Cape Town. **November 2002**
  
- **Public feedback meeting,** Vermaaklikheid, South Africa. **September 2002**
  
- **Poster presentation** at the South African Marine Science Symposium (SAMSS), Swakopmund, Namibia. **July 2002**

---

\* [www.bclme.org/forecast/](http://www.bclme.org/forecast/)

## Publications and Reports

---

- Froneman P.W., Ansorge I.J....Veitch J., Lutjeharms J.R.E. and McQuaid C.D. (2002): Physical and biological variability in the Antarctic Polar Frontal Zone: report on the research cruise 103 of the mv SA Agulhas. *S Afr J Sci* 98:534-536
- Veitch, J. (2003): Physical Oceanography of the southwest African shelf, *RV. Meteor cruise report, # 57/1*.
- Veitch, J., Florenchie, P. and Shillington, F. (2003): Seasonal and interannual fluctuations of the Angola Benguela Frontal Zone (ABFZ) using high resolution satellite imagery from 1982 to 1999. Submitted to the International Journal of Remote Sensing.
- John H-C., Veitch J., Weinreb S., Hoffmann S., Chicunga A. and Domingos W. (2004): The Angola- Benguela Frontal Zone (ABFZ) Survey. *RV. A. v. Humboldt cruise report, AHAB (A.v. Humboldt Angola Benguela Expedition) leg 8*.

## Scholarships and Funding Awarded

---

- |  |            |
|--|------------|
| • National Research Foundation (South Africa)                | 2003, 2004 |
| • University Council Scholarship (UCT)                       | 2003, 2004 |
| • Benguela Current Large Marine Ecosystem (BCLME) Programme. | 2003, 2004 |
| • Coastal Bursary (Department of Oceanography)               | 2002       |

## Interests

---

- Surfing, outdoors: camping and hiking, photography, travel

## References

---

- Available on request. Please see attached list overleaf.

## References for Jennifer Veitch

---

- **Professor Frank Shillington**  
Head of Department  
Department of Oceanography,  
University of Cape Town, Rondebosch, 7701  
South Africa  
  
Phone: +27 21 650 3277  
Fax: +27 21 650 3979  
e-mail: [shill@ocean.uct.ac.za](mailto:shill@ocean.uct.ac.za)
- **Professor Johann Lutjeharms**  
Department of Oceanography,  
University of Cape Town, Rondebosch, 7701  
South Africa  
  
Phone: +27 21 650 3277  
Fax: +27 21 650 3979  
e-mail: [johann@ocean.uct.ac.za](mailto:johann@ocean.uct.ac.za)  
[jre@mweb.co.za](mailto:jre@mweb.co.za)
- **Dr. Hans- Christian John**  
Deutsches Zentrum fuer Marine Biodiversitat  
c/o Zoologisches Institut und Museum  
Martin Luther King Platz 3  
20146 Hamburg  
Germany  
  
Phone: +49 40 42838 5642  
Fax: +49 40 42838 3937  
e-mail: [HCJOHN@zoologie.uni-hamburg.de](mailto:HCJOHN@zoologie.uni-hamburg.de)