

JOHN L. LARGIER

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SUMMARY OF EXPERTISE

Coastal oceanography:

- **Research** on water motion in the context of oceanographic, ecological, environmental & engineering problems in coastal and estuarine waters.
- **Teaching** on the physical aspects of water-influenced environments (e.g., coasts, rivers, lakes, oceans, estuaries) and the role of transport in aquatic environmental systems – undergraduate, postgraduate & professional.
- **Advice** on coastal environmental issues, including resources, pollution, restoration, ecosystem function, and public utilities.

EDUCATION

- Ph.D. (Oceanography), University of Cape Town, 1987.
- B.Sc. Hons. (Applied Mathematics) University of Cape Town, 1983. 1st Class.
- B.Sc. (Applied Mathematics, Physics) University of Cape Town, 1981.
Sub-majors in Chemistry, Mathematics, Chemical Engineering.

PROFESSIONAL APPOINTMENTS

- **University of California (Davis) (USA).**
Bodega Marine Laboratory.
Professor. 7/06 ongoing
Associate Professor. 7/04 to 6/06
- **University of California (San Diego) (USA).**
Scripps Institution of Oceanography.
Assistant Research Oceanographer 7/88 to 6/95. Associate Research
Oceanographer. 7/96 to 6/04
(promoted to Research Oceanographer effective 7/04).
Research Associate. 2004-2007.
- **University of Cape Town (SA).**
Dept of Oceanography, Dept of Environmental & Geographical Science.
Senior Lecturer. 1/95 to 4/99.
International Research Associate. 1999-ongoing.
- **Council for Scientific & Industrial Research (SA).**
National Research Institute for Oceanology.
Researcher. 7/84 to 12/88.
- **Institute of Maritime Technology, SA.**
Research Assistant. 12/82 to 6/84

AWARDS

- Fellow 2001, Aldo Leopold Leadership Program.
- University of Cape Town, 1983. Southern Life Book Prize for B.Sc. Hons.
- CSIR, 1982-83. Graduate scholarship (B.Sc. Hons.).
- University of Cape Town, 1980. Class medal for Physical Oceanography.
- CSIR, 1979-80. Undergraduate scholarship (B.Sc.).

TEACHING EXPERIENCE

Undergraduate Courses Taught:

- ESP152: Coastal Oceanography, 2005-2007 (BML/UCD).
 ESP110: Principles of Environment, 2007 (UCD).
 FRS001B: Freshman seminar – coastal oceanography, 2005 (UCD).
 SEA200F: Oceanography, 1999 (UCT).
 ZOO303S: Physical aspects of inland water ecosystems, 1996 (UCT).
 EGS100W: Geomorphology and hydrology, 1995-97 (UCT).
 EGS208S: Water and water environments, 1995-98 (UCT).
 EGS310H/311W: Multivariate data analysis, 1995 (UCT).
 Student research projects, 1995-98 (UCT).
 Week-long field trip, 1995/97 (UCT).

Postgraduate Courses Taught:

- ESP298: Coastal Oceanography, 2005 (BML/UCD).
 ECI264B: Mixing and Transport in Estuaries and Wetlands, 2005 (UCD).
 SIO295: Introduction to Marine Biodiversity and Conservation – module on
 oceanography and the ocean environment, 2004 (UCSD).
 EGS400W/SEA400W: Coastal and estuarine environments, 1996/98 (UCT).
 EGS501W (professional Masters program): Hydrology, water resources, coastal
 processes and aquatic ecology, 1995-98 (UCT).

Course Administration:

- Coordinator/Director of Masters in Environmental Science program, 1996-97 (UCT).

Innovations in Teaching:

- Coordinated development of summer curriculum, Bodega Marine Lab, 2005 (UCD).
 Development of coastal oceanography course for UCD students, 2005 (UCD).
 Core participant in development of IGERT program for “Conservation of Marine
 Biodiversity” at Scripps/UCSD, 2002-2004 (UCSD).
 Coordinated development of draft “Environmental Programme” for undergraduate
 study at UCT. Directed series of working groups, 1997 (UCT).
 Coordinated proposal/planning of new M.Sc. degree programme in Applied Marine
 Science, 1998 (UCT).

Supervision of Student and Postdoc Research:

Post-doctoral collaborators:

- David Kaplan (UCD, '03-05), Surface current mapping with HF-radar.
 Linda Rasmussen (UCSD, '03-05), Southern California circulation and transport.
 Moninya Roughan (UCSD, '02-05), Coastal circulation.

Linden Clarke (UCSD, '02-'04), Nearshore circulation observations & modeling.
Laura Carrillo (UCSD, '02-'03), Huntington Beach nearshore oceanography.
Cynthia Cudaback (UCSD, '98-99), Inner shelf oceanography, Duck (NC).
Jan Schrijvers (UCT/Gent, '97-99), Environmental management, Saldanha Bay.
Steve Wing (UCD, '94-96), Upwelling at Pt Reyes.
Ron George (UCSD, '93-95), GPS Drifters.

Ph.D. students:

Matt Robart (UCD, '07-), TBD.
Stephen Lightfoote (UCD, '07-), Marine atmospheric boundary layer.
Rachel Fontana (UCD, '06-), Krill oceanography.
Marisol Garcia-Reyes (UCD, '06-), Climate change and coastal upwelling.
Lauren Garske (UCD, '06-), Land runoff plumes and contamination of nearshore.
Kerry Nickols (UCD, '05-), Coastal boundary layers and larval dispersal.
Karen Shapiro (UCD, '05-), Oocyst transport (*Toxoplasma gondii*).
Andrea Vander Woude (UCSC, '04-'06), Satellite observations of upwelling.
Andrew Lucas (UCSD, '02-), Internal waves and nearshore ecology.
Jenny Harcourt-Baldwin (UCT, '99-'03), Water movement/retention, Tomales Bay.
Pierrick Penven (Brest, '98-00), Modeling upwelling at Cape Columbine.
Sarah Rennie (VIMS, '94-98), Chesapeake Bay plume.
Bart Chadwick (UCSD, '92-97), Tidal exchange in San Diego Bay.
Monty Graham (UCSC, '92-94), Upwelling shadow in Monterey Bay.

M.Sc. students:

Dane Behrens (UCD, '06-), Stability of mouth opening on Russian River.
Carolyn Scarce (UCSD, '01-'04), Bacterial contamination, Imperial Beach.
Craig Attwood (UCT, '98-99), Knysna hydrodynamics.
Sven Coles (UCT, '96-), Dredging & turbidity in Saldanha Bay.
Marjolaine Krug (UCT, '96-98), Exchange between Langebaan and Saldanha.

M.Phil. students:

Peter Hartley (UCT, '97), Sand dams in Namibia.
Stuart Heather-Clarke (UCT, '96), Walvis Bay harbor use.

Honours students:

Brendan Ford (UCT, '98), Sandvlei salinity intrusion.
Anne Mulock-Houwer (UCT, '98), Upwelling at Cape Columbine.
Sean Bradshaw (UCT, '98), Morphodynamics of Silvermine estuary.
Genevieve Forder (UCT, '97), Cape Point marine reserve.
Yachika Reddy (UCT, '97), Langebaan salt marshes.
Sharon Jones (UCT, '97), Geomorphology of Langebaan spit.
Dean Ollis (UCT, '97), Wastewater dispersion at Strandfontein.
Karen Shippey (UCT, '96/97), Oil on beaches.
Joscelyne Shaw (UCT, '96/97), Saldanha Bay uses.
Charles Ratcliffe (UCT, '96), Disa River environmental change.
Ralph Hamann (UCT, '96), Saldanha Bay GIS.
Jenny Harcourt-Baldwin (UCT, '96), Knysna Estuary hydrography.
Gayle Johnson (UCT, '95), Caledon land-use.
Jean-Pierre Arabonis (UCT, '95), Langebaan thermohaline structure.

Undergraduate Interns:

Adrien Debouraix (Paris, '07), Tomales Bay plankton ecosystem model
Andy Ho (Stanford, '06 REU), stratification in Salmon Creek.

Nicolas Pierre-Louis (University Florida, '02 STARS), dye dispersion methodology
Karen Stocker (Padua, '01-02), Huntington Beach internal waves.
Albert Fischer (MIT, '93 and 94), Mission Bay.
Jeremy Foster (OSU, '93), Mission Bay.

Short Courses:

Marine Pollution (CMS), November 1997.

Lead instructor and co-organiser.

Coastal Zone Management (EEU), January 1996 & September 1998.

Key instructor (physical environment; integrated pollution management).

RESEARCH EXPERIENCE

Overview of topics:

Shelf Circulation. Northern California, Southern California, North Carolina, Southern Africa west coast, Agulhas Bank (south coast of SA), central Chile.

Estuary & Bay Hydrodynamics. Russian River, Salmon Creek, Bodega Bay, Bodega Harbor, Antofogasta Bay, San Francisco Bay, San Diego Bay, Mission Bay, Knysna Estuary, Tomales Bay, Langebaan Lagoon, Saldanha Bay, Cape Town Harbor, Palmiet Estuary, Mad Estuary, Groot Brak Estuary, Keurbooms Estuary.

Nearshore Circulation. Rip currents, Internal wave swash, Wastewater outfall plumes, Desalination brine dispersion, River & creek outflow, Power plant entrainment, Kelp forest flows.

Marine Ecology. Larval dispersal & population dynamics, Estuarine biogeochemistry, Primary & secondary productivity in shelf systems.

Research Grants:

- NOAA/CIMT, 2006-2008. From Wind to Whales: Using an Integrated Ocean Observation system to Understand California's Upwelling Ecosystem.
- University of California, 2007-2009. Community Genetics and Marine Protected Areas of the California and Baja California mainland and Island Array.
- National Marine Sanctuaries, 2006-2007. Network of Nearshore Sea Temperature Monitoring Arrays for the Gulf of the Farallones National Marine Sanctuary.
- NOAA, 2007-2008. A Regional System for Observations and Decision Support in Central and Northern California Bays and Coastal Waters: CenCOOS Bays
- California Energy Commission through WISER, 2006-2008. Improving Assessment of Entrainment Impacts through Models of Coastal and Estuarine Withdrawal Zones.
- California Sea Grant, 2006-2008. Krill and Krill Predators: Ecosystem-Based Management in the Gulf of the Farallones-Cordell Bank Krill Production Domain.
- National Parks Service, 2006-2007. Water Quality Baseline Studies for Coastal Waters of Point Reyes National Seashore and Golden Gate National Recreation Area.
- National Science Foundation, 2005-2008. Identifying the flow and control of pathogens from the land to the sea: tracking *Toxoplasma* from cats to sea otters.

- National Parks Service, 2005-2006. Water Resource Assessment of Cabrillo National Monument.
- State Coastal Conservancy, 2005-2009. Coastal Ocean Currents Monitoring Program (COCMP).
- NOAA, Cordell Bank National Marine Sanctuary, 2005-2006. Cordell Bank Mooring.
- National Science Foundation, 2003-2006. Connectivity of Bivalve Populations: Assessing Sources of Larval Recruits.
- National Science Foundation, 2003-2006. Testing an Application of CADRE.
- University of California, 2003-2004. Network for Environmental Observations of the Coastal Ocean (NEOCO).
- US EPA, 2003-2004. Evaluation of the South Bay International Wastewater Treatment Plant Receiving Water Quality Monitoring Program to Determine its Ability to identify Sources(s) of Recorded Bacterial Exceedances.
- Sonoma County, 2003-2004. Campbell Cove tidal circulation study.
- Quest for Truth Foundation, 2002-2004. Susceptibility of San Diego beaches to pollution.
- County of San Diego, 2002-2004. South Bay Coastal Ocean Observing System.
- City of Imperial Beach (California Clean Beach Initiative), 2002-2004. South Bay Coastal Ocean Observing System.
- City of San Diego, 2002-2003. Mission Bay contaminant dispersion study.
- University of California, 2001-2003. The University of California Marine Laboratories Coastal Environment Observation Network.
- Orange County Sanitation District, 2001-2003. Shoreward transport of wastewater plume off Huntington Beach.
- National Science Foundation (GLOBEC), 2000-2004. Physical Effects on California Current Salmon.
- National Science Foundation (CoOP), 2000-2004. The role of wind-driven transport in shelf productivity.
- California Department of Boating and Waterways, 2000. A turbidity monitoring station.
- CalCOFI & Scripps Institution of Oceanography, 2000-2001. US west coast shore station program.
- Office of Naval Research, 2000-2001. Application of Elemental Fingerprinting to Evaluate the Dynamics of Larval Exchange.
- California Sea Grant, 2000-2003. Alongshore Coherence of Nearshore Temperature Variability.
- National Oceanic and Atmospheric Administration, 1999-2000. Synthesis of El Nino Observations Along the West Coast of the U.S.: Physical Structure and Ocean Productivity
- Benguela Environment, Fisheries and Training (BENEFIT), 1999-2000. Continuity and mesoscale patterns of circulation in the Benguela upwelling system.
- Minister of Education (France) - Research and Development, 1998-99. Numerical modeling of the 3D circulation in an upwelling area: application to the west coast of South Africa. External supervisor of French Ph.D. student.
- National Science Foundation (GLOBEC), 1997-2000. Structure of Mesoscale Circulation in the Vicinity of Pt. Reyes in the California Current Region.

- Sea Fisheries Research Institute, 1997-98. Mariculture, and the exchange of water between Saldanha Bay and the coastal ocean.
- Coastal Management Policy Programme, 1997-98. Strategic assessment of the coastal environments of South Africa (input to DEA&T process of developing a coastal management policy for South Africa).
- California Sea Grant, 1997-98. El Nino effects on nutrient supply to kelp forests: coupling the thermal structure of nearshore and offshore zones.
- Foundation for Research Development, 1996-98. Carrying capacity and competition for coastal ocean space in the waters of Saldanha Bay and Langebaan Lagoon.
- National Science Foundation (CoOP), 1996-98. Distribution and transport of larvae of inner-shelf benthic invertebrates.
- UCT University Research Committee, 1995-97. Hydrodynamics and physical ecology of coastal waters.
- California Sea Grant, 1994-96. Transport and settlement of crab and urchin larvae in the northern California coastal ocean.
- California Sea Grant, 1993-97. Interaction of wave-driven nearshore flows with cross-shore barriers and tidal jets.
- California Department of Boating and Waterways, 1993-98. Strong currents at the mouths of small boat harbors.
- National Science Foundation (CoOP), 1993-95. Suspension, cross-shelf transport and deposition of planktonic larvae of inner-shelf benthic invertebrates.
- US Navy, 1993-94. Drifter studies in San Diego Bay.
- Regional Water Quality Control Board, 1992-94. San Diego Bay circulation.
- University of California (San Diego), Senate, 1992. Nearshore circulation studies.
- California Department of Boating and Waterways, 1991-95. Hydrodynamic flushing of small-boat harbors.
- National Science Foundation (LMER), 1991-94. Tomales Bay: Biogeochemical reactions in estuaries.
- National Science Foundation (GLOBEC), 1991-93. Physical forcing of spatially distributed, meroplanktonic populations.
- California Department of Water Resources, 1991-93. Hydrodynamics of the exchange between San Francisco Bay and the coastal ocean.
- California Department of Boating and Waterways, 1990. Winds off northern California.
- Water Research Commission, 1988-89. Review of the potential of icebergs as a source of freshwater for southern Africa.
- Foundation for Research Development, 1988-89. Circulation in estuaries: Palmiet and Kromme.
- CSIR, 1987-89. Agulhas Bank Studies (ABS).
- Institute of Maritime Technology, 1987-88. Review of near-coastal thermal structure.
- CSIR, 1986-87. Western Agulhas Shelf Processes (WASP).
- CSIR, 1985-86. Agulhas Bank Circulation Dynamics Experiment (ABCDE).

Publications:

Please request lists of scientific papers (83) and articles & reports (65).

PROFESSIONAL ACTIVITY & SERVICE

Professional Societies and Associations:

- American Geophysical Union (AGU)
- American Society of Limnology and Oceanography (ASLO)
- Estuarine and Coastal Sciences Association (ECSA)
- Estuarine Research Federation (ERF)
- California Estuarine Research Society (CAERS)
- The Oceanography Society (TOS)

Professional Review & Editorial Activities:

- Review or advisory board for research programs ...
 - CICORE – CalState coastal ocean observing program
 - SBC-LTER – program review for NSF
 - PISCO – Packard-funded consortium on nearshore ecology (USA)
 - FRD Marine and Coastal Resources Programme (SA)
 - Chair of thrust in “Ocean dynamics & coastal geomorphology”.
 - Chair of thrust in “The coast as a resource”.
 - University of California Sea Grant (USA)
 - FONDAP Humboldt Current Studies (Chile)
 - Benguela Ecology Programme (SA)
- Review personnel for ...
 - Foundation for Research Development (SA)
 - University of California at San Diego (USA)
 - University of California at Davis (USA)
 - State University of New York (USA).
 - Woods Hole Oceanographic Institute (USA).
 - University of New Hampshire (USA).
- Reviewed project proposals for ...
 - National Science Foundation (USA)
 - University of California Sea Grant (USA)
 - FONDECYT (Chile)
 - GLOBEC (NW Atlantic) - NSF/NOAA (USA)
 - NOAA (Climate and Global Change, USA)
 - San Francisco Bay Estuary Project (USA)
 - Washington Sea Grant (USA)
 - Maryland Sea Grant
 - USC Sea Grant (USA)
 - Foundation for Research Development (SA)
 - Ad hoc funding competitions.
- Reviewed manuscripts for ...
 - CalCOFI Reports (USA)
 - Coastal and Estuarine Studies, AGU (USA)
 - Continental Shelf Research (UK)
 - Deep Sea Research (UK)
 - Estuaries (USA)
 - Estuarine, Coastal and Shelf Science (UK)
 - Hydrobiologica (UK)

Journal of Atmospheric and Oceanic Technology (USA)
Journal of Geophysical Research (USA)
Journal of Physical Oceanography (USA)
Journal of Shellfish Research (UK)
Limnology and Oceanography (USA)
Proceedings National Academy of Sciences (USA).
South African Journal of Marine Science (SA)
South African Journal of Science (SA)
Transactions of the Royal Society of South Africa (SA)
Proceedings of various conferences.

- Editor roles ...
 - Co-editor, *Journal of Marine Systems*, Elsevier, 2005-2007.
 - Guest editor for special issue of Deep Sea Research II, 2006: CoOP/WEST.
 - Co-editor, 2002. *The Oceanography and Ecology of the Nearshore and Bays in Chile*, Ediciones Universidad Católica de Chile, Santiago. 243pp.
 - Associate Editor, *Estuaries*, Estuarine Research Federation (USA), 1994-97.
 - Guest editor for special issue of *Estuaries*, 16(1), 1993: Estuarine Fronts.
- Examined student theses for ...
 - VIMS, College of William & Mary
 - University of Cape Town
 - University of Port Elizabeth
 - University of California (Santa Cruz)
 - University of California (San Diego)
 - University of New South Wales
 - University of Natal (Pietermaritzburg).
 - University of Vigo

Committees & Working Groups:

- Sanctuary Advisory Committee (Gulf of Farallones), 2007-.
- Science Advisory Team, Marine Life Protection Act, 2007-.
- Central & Northern California Ocean Observing System (CeNCOOS) Governing Council, 2005-.
- Committee on Public Service, UCD, 2005-.
- Bodega Marine Lab, Executive Committee, 2004-.
- California Estuarine Research Society (CAERS), Committee (Pres-elect) 2003-.
- State of California, Clean Beach Task Force, 2002-2006.
- California Ocean Currents Monitoring Program (COCMP), Executive Committee, 2003-2005.
- Center for Marine Biodiversity and Conservation (CMBC), Steering Committee, 2003-2004.
- IGERT Program at UCSD, Steering Committee, 2003-2004.
- Advisory Board, Birch Aquarium, Scripps Institution of Oceanography, 2003-2004.
- Network for Environmental Observations of the Coastal Ocean (NEOCO), Steering Committee Chair, 2001-2004.
- City of San Diego, Clean Water Task Force, 2001-2004.
- Steering Committee, Center for the Coastal Environment, Scripps Institution of Oceanography, 2000-2002.

- Scripps Institution of Oceanography representative on National Association of Marine Laboratories, 1999-2002.
- National Center for Ecological Analysis and Synthesis (NCEAS) working group on Developing the Theory of Marine Reserves, 1997-2000.
- Chair, FRD Committee, Ocean Dynamics & Coastal Geomorphology, 1996-99.
- Chair, FRD Committee, The Coast as a Resource, 1996-99.
- Programme Advisory Committee, FRD Marine and Coastal Resources Programme, 1996-99.
- Steering committee to develop new Centre for the Environment (UCT), 1996-99.
- Advisory Board & Steering committee, Centre for Marine Studies (UCT), 1997-99.
- Chair, South African LOICZ committee (Land-Ocean Interactions in the Coastal Zone, IGBP), 1997-99.
- Chair, Steering Committee, Strategic Assessment task, Coastal Management Policy Programme, 1997-98.
- Chair, working group to develop Environmental Studies Programme for undergraduate teaching at UCT, 1997.
- Ad hoc committee (review & “stocktaking”), Faculty of Science (UCT), 1995.
- California Sea Grant Committee - program management and proposal review (USA), 1994-99.
- Scripps Institution of Oceanography committees: Marine Operations Committee, 1992-94; Directors Space Advisory Committee, 1992-93.
- International Hydrological Programme (UNESCO), Committee on "Strategies for hydrological and related environmental investigations of water resources in large flatlands", 1991-92.
- Advisory committee to Regional Water Quality Control Board on San Diego Bay, 1990-94.
- Benguela Ecology Programme, Scientific Committee, 1987-89.
- Elected representative on university and student councils (e.g., Student Representative Council, University Senate, Science Students Council), 1979-81.
- Director of student agencies (e.g., Students Health and Welfare Centres Organization, UCT Rag, Education Commission), 1979-81.

Conference Activity:

- Special session (bar-built estuaries), American Fisheries Society, August 2007.
- Organizer, CAERS Annual Meeting, Bodega Bay, March 2007.
- Invited plenary paper, Western Society of Naturalists, 2006.
- Co-organizer, Enclosed Beach Workshop (State Water Board), Dana Beach, August 2006.
- Co-organizer, CAERS Annual Meeting, Santa Barbara, March 2005.
- Special session (Mission Bay), CAERS Annual Meeting, San Diego, April 2003.
- Special session, AGU/ASLO Ocean Sciences Meeting, February 2002.
- Keynote address at Chilean symposium on “Links & Dynamics of Nearshore Environments: Bays & Open Coasts”, 2000.
- Present workshop on drifters for studying the Benguela environment and fisheries (BENEFIT), Namibia, 2000.
- Chair and co-organizer of specialist workshop for environmental management: The Saldanha-Langebaan Water Body as a Biophysical System, 1999.

- Session Chair (& organizer), Oceanography of Chesapeake-Hatteras Shelf, AGU/ASLO Ocean Sciences meeting, 1998.
- Intergovernmental Oceanographic Commission for the North and Central Western Indian Ocean (IOCNCWIO): Ocean Science in relation to Living Resources (OSLR) program, Group of Experts. FAO representative, 1994.
- Session Chair, Tidal Mixing and Shelf Dynamics, 7th international Conference on the Physics of Estuaries and Coastal Seas, 1994.
- Chair (& organiser) of special International Symposium on estuarine fronts at Estuarine Research Federation meeting, 1991.
- Session Chair at Coastal Zone '91 conference.
- Session Chair at 1991 Eastern Pacific Oceanography Conference.
- Chair inner shelf session at MMS Southern California Bight Workshop, 1990.
- Chair workshop on vertical exchange in stably stratified systems at 1987 National Oceanography Symposium (SA).
- Organize and chair weekly seminar series at National Research Institute for Oceanology (SA), 1985-86.
- Co-organize 1983 workshop: coastal low pressure systems off SA.

PROFESSIONAL ADVISORY SERVICES

- Elkhorn Slough, 2006-. Advisory group on restoration.
- Ballona Wetlands, 2005-. Advisory group on restoration.
- Bolinas Lagoon, 2003-. Advisory group on restoration.
- Tijuana Estuary wetlands, 2002-04. Advisory group on restoration.
- California Energy Commission, 2001. Larval entrainment via cooling water for power plant in Morro Bay.
- Tenera, 2003. Larval entrainment estimates for power plant in San Diego Bay.
- California Energy Commission, 2004. Cumulative impact of larval entrainment by power plants.
- California Energy Commission, 2002-3. Advisory group on role of Huntington Beach power plant on nearshore fecal contamination.
- Regional Water Quality Control Board, 2002. Water quality issues in the Tijuana Estuary.
- SOEKOR oil & gas exploration, 1999. Review of specialist report on South Africa's coastal ocean environments.
- Cape Municipal Council, 1998. Review of coastal environments in the context of wastewater discharge from city.
- Coastal Management Policy Programme, 1998. Developing a new CZM policy for South Africa. Specialist input on the nature and function of the coastal environments of South Africa.
- Robben Island, 1998. Assessment and advice on wastewater outfalls.
- Coega Harbour, 1997. Review of specialist report on water run-off and circulation and water quality in Algoa Bay.
- Shelley Point, 1997. Assessment of impacts on marine environment of proposed small-boat harbour.
- Botriver Estuary, 1996. Assessment of impacts on estuary of proposed housing development.

- Arena Mining, 1996. Review specialist reports and draft summary memo on the potential impacts of proposed offshore diamond mining.
- De Beers Marine, 1995. Review specialist and summary reports and write synthesis report on the impacts of ongoing offshore diamond mining.
- PPC Cement, 1995. Assessment of impacts on marine environment of sand mining.
- Mariculture Association of South Africa, 1995. Review mariculture-relevant testimony submitted to Steyn Board of Inquiry on proposed construction of steel mill at Saldanha Bay.
- Electricity Power Research Institute, 1994. Environmental impacts of brine discharge from coastal desalination plants. Collaboration with General Atomics and Princeton.
- Pacific Gas & Electric (Morro Bay), 1993. Review of plans for discharging desalination effluent into ocean.
- National City Marina, 1993. Flushing and water residence times in planned marina basin.
- Mamala Bay Commission, 1992. Review of proposals for major environmental studies required prior to new sewage discharge plant for Honolulu.
- Malibu Township Council, 1990. Review of County plan for sewage discharge into lagoon and subsequent nearshore dispersion.