

UCSB Classes

Courses Taught Since 1996

Qtr.	Course no., Title	Class Type	Units	Hrs/Wk	Enroll- ment	Eval.
W96	Geog 264 – Sem. in Oceanogr.	Sem	4.0	2.5	8	no
S96	Geog 249 – Ocean-Atmos.	Lec	4.0	2.5	8	no
F96	Geog 264 – Sem. in Oceanogr.	Sem	4.0	2.5	9	yes
W97	Geog 262 – Upper Ocean Phys.	Lec	4.0	3.0	8	yes
W97	Geog 160 – Reg. Ocean of World	Lec	4.0	3.0	25	yes
S97	Geog 249 – Ocean-Atmos.	Lec	4.0	2.5	6	yes

Qtr.	Course no., Title	Class Type	Units	Hrs/Wk	Enroll- ment	Eval.
F97	Geog 264 – Sem. in Oceanogr.	Sem	4.0	2.5	9	yes
W98	Geog 3a – Physical Geog.	Lec	4.0	3.0	208	yes
W98	Geog 262 – Upper Ocean Phys.	Lec	4.0	3.0	3	yes
S98	Geog 249 – Ocean-Atmos Dyn.	Lec	4.0	2.5	5	yes
F98	Geog 263 – Intro to Phys Oceanogr.	Lec	4.0	2.5	9	yes
F98	Geog 264 – Sem. in Oceanogr.	Sem	4.0	2.5	3	no
W99	Geog 3a – Physical Geog.	Lec	4.0	3.0	199	yes
W99	Geog 261 – Ocean Optics	Lec	4.0	3.0	2	yes
F99	Geog 264 – Sem. in	Sem	4.0	2.5	3	no

	Oceanogr.					
F99	Geog 263 – Intro to Phys Oceanogr	Lec	4.0	2.5	9	yes
W00	Geog 3a – Physical Geography	Lec	4.0	3.0	199	yes
W00	Geog 262 – Upper Ocean Phys.	Lec	4.0	3.0	2	yes
S00	Geog 256 – Photosyn.	4.0	3.0	3.0	2	yes

Qtr.	Course no., Title	Class Type	Units	Hrs/Wk	Enroll- ment	Eval.
W00	Geog 3a – Physical Geography	Lec	4.0	3.0	241	yes
W00	Geog 262 – Upper Ocean Phys.	Lec	4.0	3.0	2	yes
S00	Geog 256 – Photosyn.	4.0	3.0	3.0	3	yes
F00	Geog 264 – Sem. in Oceanogr.	Sem	4.0	2.5	35	no
F00	Geog 263 – Intro to Phys Oceanogr	Lec	4.0	2.5	11	yes
W01	Geog 3a – Physical Geography	Lec	4.0	3.0	273	yes
F01	Geog 264 – Sem. in Oceanogr.	Sem	4.0	2.5	16	no
F01	Geog 263 – Intro to Phys Oceanogr	Lec	4.0	3.0	16	yes
W02	Geog 595 – Global Ocean Observing Systems	Lec	4.0	3.0	6	yes
W02	Geog 3a – Physical Geography	Lec	4.0	3.0	161	yes
F02	Geog 263 – Intro to Phys Oceanogr	Lec	4.0	3.0	14	yes
F02	Geog 264 – Sem. in Oceanogr.	Sem	4.0	2.5	35	no

W03	Sabbatical	N/A	N/A	N/A	N/A	N/A
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I have taught over 10,000 students during my teaching career (U.S. Coast Guard plus college level).

Graduate Degree Committees (19 graduate degrees have been granted under Professor Dickey's supervision during his career; he has served on over 100 thesis committees; 11 Advanced Research Scientists have worked in the laboratory):

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- Michele Fortin (M.S. 1981) A numerical model of dispersion in the marine environment. She is a research scientist at Shell Oil Research Division.
- Blayne Hartman (Ph.D. 1983) [Co-advised with Professor Doug Hammond] Laboratory and field investigations of the processes controlling gas exchange across the air-water interface. He received a Sea Grant Traineeship while at USC and is now President of TEG (an environmental corporation).
- Stephen Isenogle (M.S. 1985) A laboratory study of gas transfer across an air-water interface. He received a Sea Grant Traineeship while at USC and is now with the Defense Mapping Agency.
- Alex Steele (M.S. 1986) [Co-advised with Dr. Alan Bratkovich] Variability in temperature in coastal waters near the Palos Verdes Peninsula between January and May 1985. He received a Sea Grant Traineeship while at USC and is now a scientist at the Orange County Sanitation District.
- Benjamin Holt (M.S. 1988) Observations of surface waves from Shuttle Imaging Radar-A. He is now with the Jet Propulsion Laboratory (JPL) and studies a variety of ocean and ice processes using remote sensing via synthetic aperture radar (SAR).
- David Siegel (M.S. 1985; Ph.D. 1988) [Co-advised with Professor Andrzej Domaradzki of USC] Large-eddy simulation of the decay of an oceanic internal gravity wave field. Now Professor at University of California at Santa Barbara. He was the recipient of an ONR Graduate Research Fellowship for study at USC and later a Woods Hole Postdoctoral Fellowship (Postdoctoral Scholar) for study at Woods Hole Oceanographic Institution. He also received an ONR Young Investigator Program Award.
- Jorge Vazquez-Cuervo (Ph.D. 1991) Observations of the long-term variability of the Gulf Stream downstream of Cape Hatteras. He is now a research scientist at JPL and does studies involving satellite altimetry data.
- Zhiji Chai-Jochner (M.S. 1991) Mesoscale variability in the Sargasso Sea in the vicinity of the Biowatt mooring. Her thesis utilized Geosat altimetry and AVHRR SST data to examine mesoscale variability in the Sargasso Sea. She presently lives in Germany.
- Yicun Wu (Ph.D. 1993) [Co-advised with Dr. Libe Washburn] Mixing and dispersion of ocean outfall plumes. His thesis concerned mixing and dispersion of effluent from the Los Angeles County outfall off Palos Verdes, CA.
- Michael Hamilton (M.S. 1993) Diurnal variability of physical and bio-optical properties of the ocean. He received a Sea Grant Traineeship. He has been a research scientist at JPL and worked on remote sensing of ocean color and its applications and world sea surface temperature time series.
- Jerry Wiggert (Ph.D. 1995) Analysis of high resolution physical/bio-optical moored time series from the Sargasso Sea and comparison to a 1-D interdisciplinary ocean model. He received a Sea Grant Traineeship while at USC. He is now a Research Scientist at the University of Maryland.
- Darek Bogucki (Ph.D. 1996) [Co-advised with Professor Andrzej Domaradzki of USC and Professor Ron Zaneveld of Oregon State University] Turbulence effects on light propagation in ocean waters. He received a Sea Grant Traineeship while at USC. He is presently a Research Professor at USC.
- David Sigurdson (M.S. 1996) Observations of physical and bio-optical variability in the Arabian Sea. He was the recipient of an ONR AASERT Fellowship. He is presently an ocean engineer with the OPL at UCSB.
- Anne Petrenko (Ph.D. 1997) [Co-advised with Dr. Burt Jones] Bio-optical variability in ocean outfalls regions. She received a Sea Grant Traineeship to analyze bio-optical and physical data collected during a study of the Sand Island outfall (Mamala Bay) near Honolulu. Anne is now an Assistant Professor at the University of Marseille, in Marseille, France.

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- Grace Chang (M.S. 1998, Ph.D. 2000) Time scales of bio-optical variability associated with physical processes on the Mid-Atlantic Bight continental shelf: July 1996 - June 1997. She was a recipient of two ONR AASERT Fellowships. Grace is now working on the ONR HyCODE project.

Tim Gilboy (M.S., 1998) Thesis work was on a comparative study with velocity data (ADCP, MVMS, and ACM data) collected from the Bermuda Testbed Mooring. Tim is now teaching high school physics near Jacksonville, FL.

Sarah Zedler (M.A. 1999) Sarah's thesis concerned the upper ocean's response to Hurricane Felix (over Bermuda Testbed Mooring site). She is now working as a researcher at OPL.

Will Black (Ph.D. in progress). Will's thesis concerns upper ocean response to Atlantic hurricanes using modeling and remote and *in situ* observation.

Francesco Nencioli (Incoming Ph.D. student) Francesco's thesis will likely involve physical dynamics and modeling of mesoscale eddies and upper dynamics.

Other Graduate Student Committees since 1996

<u>Student</u>	<u>Degree</u>	<u>Year Degree</u>
E. Brody	M.S.	1999
D. Toole	M.S.	1999
K. Patterson	Ph.D.	2000
J. Kerfoot	M.S.	2003
J. Gorga	M.S.	2003
K. McClure	M.S.	2002
E. Beckenbach	Ph.D.	2004

Advanced Research Scientists

USC

Dr. Alan Bratkovich joined the Ocean Physics Group in 1983 as a Research Assistant Professor following completion of his Ph.D. at Scripps Institution of Oceanography. Sadly, he passed away several years ago. He had been a researcher at the Great Lakes Environmental Research Laboratory and held an Adjunct Assistant Professor position with the University of Michigan in Ann Arbor.

Professor Libe Washburn joined the Ocean Physics Group as a Research Assistant Professor in 1985 following postdoctoral work at Scripps Institution of Oceanography. He is now a Professor at the University of California, Santa Barbara. While at USC, he studied subduction and transport processes during the Coastal Transition Zone experiment off central California, isopycnal mixing in the North Pacific, and dispersion and mixing of effluent from an ocean outfall.

Professor Robert Stavn was a visiting scientist in 1986. He is a Professor of Biology at the University of North Carolina and is affiliated with the Naval Research Laboratory. He studies marine optics including Raman scattering and radiative transfer.

Professor Timothy Granata joined our group in 1989 following completion of his Ph.D. at the University of California at Berkeley. He analyzed Biowatt mooring data sets, particularly focusing on mesoscale and inertial scale variability. He also worked on biological-physical problems concerning zooplankton in relation to turbulent motions during a study of marine aggregates in a turbulent flow. He received a fellowship from the Spanish government and spent several years at the Instituto De Ciencias Del Mar in Barcelona, Spain where he worked on fronts and eddies in the Mediterranean. He is now a Professor at Ohio State University.

Dr. Margaret Stramska received her Ph.D. from the University of Gdansk, Poland. She joined our group in 1990 and was responsible for some of the analysis of mooring data sets collected during MLML south of Iceland. She is now a Research Scientist at USC.

Dr. Isabelle Taupier-Letage received her Ph.D. from the University of Marseille and was a visiting scientist with our group during the 1991-1992 academic year. She is a Research Scientist with CNRS (French equivalent of NSF) and Centre d'Océanologie de Marseille and an Adjunct Professor at the University of Marseille, in Marseille, France. We collaborated on a study of biogeochemical fluxes funded by CNRS/NSF involving a mooring which was deployed in the Mediterranean in 1993.

Professor Bao-Shi Shiau was a visiting scientist with our group for the 1992-1993 year academic year. He is a Professor at National Taiwan University. He developed marine pollution models while at USC.

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Dr. Joe McNeil received his Ph.D. from UCSB in Mechanical and Environmental Engineering. His thesis involved an experimental flume used to study the erosion of contaminated sediments as a function of applied shear stress and

depth within the waters of the Great Lakes. He worked with the Bermuda Testbed Mooring data sets along with the ONR Coastal Mixing and Optics data sets from 1996-1998. Joe is presently researching sediment transport at UCSB.

Dr. Laura Dobeck received her Ph.D. in physical chemistry from Cornell University. She used lasers to study reaction dynamics of small molecules in the gas phase. Laura studied bio-optics as part of the BTM and SIMBIOS programs. She is now a Research Professor in the Department of Chemistry at the University of Adelaide, Australia.

Dr. Xuri Yu received his Ph.D. from the University of Washington. While at UW, he studied physical oceanography focusing on the tropical Pacific. He is presently working on the Bermuda Testbed Mooring and LOOPS data sets.

Dr. Xiaobing Zheng received his Ph.D. from the Chinese Academy of Sciences in physical optics. His focus is on *in situ* bio-optical measurements as they relate to ocean color remote sensing.

Dr. Grace Chang Received her Ph.D. from UCSB in physical and bio-optical interactions. Studies of time scales of bio-optical variability associated with physical processes on the Mid-Atlantic Bight continental shelf: July 1996 - June 1997 (CMO), ONR HyCODE project (present), and NOPP MOSEAN program (present).

Dr. Victor Kuwahara Hawaii ocean eddy flux program and bio-optical studies at Bermuda, Hawaii, and the Santa Barbara Channel

Laboratory Personnel Supervised Since 1996:

Derek Manov (Senior Development Engineer)
David Sigurdson (Development Engineer)
Frank Spada (Engineer)
Charles Kiedman (Programmer)
Songnian Jiang (Programmer)
Sarah Zedler (Scientist)
Barry Bjork (Technician)
Erin Lutrick (Lab Technician)
Shannon Stone (Technician)
Robin Bourgeois (Undergraduate Work Study)
Christian Bravo (Undergraduate Work Study)
Feng Ge (Undergraduate Work Study)
Nick Swaim (Undergraduate Work Study)
Jason Guthrie (Undergraduate Work Study)
Vivian Phan (Undergraduate Work Study)

Selected Recognitions and Committee Memberships :

Editor for Reviews of Geophysics
Guest Editor for Journal of Geophysical Research Special Volume
Editorial Board for the Journal of Marine Systems
Associate Editor for Limnology and Oceanography Methods
Lead-PI for NOPP MOSEAN (Multi-disciplinary Ocean Sensors for Environmental Analyses and Networks) program
Lead-PI for NOPP O-SCOPE (Ocean-Systems for Chemical, Optical, and Physical Experiments) program
Lead-PI for Bermuda Testbed Mooring program
Lead-PI for ONR HyCODE (Hyperspectral Ocean Dynamics Experiment) program
Chair of Review Committee: Southampton Oceanographic Centre (George Deacon Division), UK
Member of the CORE Steering Committee on Research at Ocean Observatories Program
Member of the Advisory Committee for the NOPP Gulf of Maine Ocean Observing System
Member of Meetings Committee for The Oceanography Society

External Advisory Board for the University of Massachusetts Center for Marine Science and Technology
Co-author of paper for which Dennis McGillicuddy received ASLO Lindeman Award 2000
Co-chair of National Academy of Sciences (NAS) workshop “Towards a National Collaboratory”
Member of two National Research Council, National Academy of Sciences review panels
Executive Committee for NOPP Littoral Ocean Observing and Predictive System (LOOPS)
Councilor (elected office) for The Oceanography Society (TOS), Chair of Annual TOS Meeting 1991
Steering committee member for ONR Biowatt and Marine Light in the Mixed Layer Experiments
Member *ad hoc* Global Ocean Observing System (GOOS) Living Marine Resources Working Group
Member U.S. JGOFS Steering Committee, Chair of Time-series Oversight Committee and Chair of Workshop
on Bio-optics in JGOFS
Member U.S. GLOBEC Steering Committee, Chair of Technology Committee
Member International GLOBEC Steering Committee, Chair Sampling and Observations Committee
Member of International Convention of the North Pacific Marine Science Organization (PICES) Working
Group 2 on Development of Common Assessment Methodology for Marine Pollution
Member of Santa Barbara Maritime Museum Exhibit Committee
Invited lecturer for the NATO Advanced Study Institute Summer School on The Ocean Carbon Cycle and
Climate (Ankara, Turkey, August 2002)
Co-chair of the International Workshop on Autonomous Measurements of Biogeochemical Parameters in
the Ocean (Honolulu, Hawaii, 2001)
Co-chair of Southern California Bight Ocean Observing and Modeling System Workshop (Santa Barbara,
2001)
Co-chair of the Scientific Cabled Observatories for Time Series (SCOTS) Committee under NSF
Member of Steering Committee for Dynamics of Earth and Ocean Systems (DEOS) (under NSF)
Member of the Steering Committee and Invited Speaker for the Workshop on Real-Time Systems for
Observing Coastal Ecosystem Dynamics and Harmful Algal Blooms (HABWATCH) (Villefranche,
France, June, 2003)
Advisory Committee for the Mediterranean Forecast System: Toward Environmental Predictions
Member of the International Ocean Observing Panel for Climate (OOPC) Committee under the Global Ocean
Observing System (GOOS)
Member of the Time Series Science Team for the Development of Global Eulerian Observatories (GEO) [now
called OceanSITES] (under OOPC and GOOS)
Member of the Steering Committee for the Sargasso Sea Ocean Observatory (S2O2)