

College of Marine Science

Curriculum Vitae

GENERAL DATA

Name: Joseph J. Torres
Initial Date of Employment/Rank: March, 1980/Assistant Professor
Present Rank: Professor
Effective Date: 15 August 1990
College: Marine Science

EDUCATION

<u>Institution</u>	<u>Field of Study</u>	<u>Degree</u>	<u>Date</u>
University of California Santa Barbara, California	Biology	Ph.D	1980
University of California Santa Barbara, California	Biology	M.A.	1976
College of William and Mary Williamsburg, Virginia	Biology	B.S.	1972

EMPLOYMENT

1990 - Present Professor, Department of Marine Science,
University of South Florida. Research on the ecological
physiology of pelagic species.

1985 - 1990 Associate Professor, Department of Marine Science,
University of South Florida. Research on the ecological
physiology of pelagic species.

1980 - 1985 Assistant Professor, Department of Marine Science,
University of South Florida. Research on the ecological
physiology of pelagic species.

1974 - 1980 Research Assistant, Department of Biological Sciences,
University of California, Santa Barbara.

1972 - 1974 Teaching Assistant, Department of Biological Sciences,
University of California, Santa Barbara.

1972 - 1980 Commissioned 2nd Lt. USAR (1972), honorably discharged
Cpt., USAR (1980)

OTHER PROFESSIONAL OR RELATED ACTIVITIES

Certification: Scientific Research Pilot for ADS submersibles, September 1982, Oceaneering Inc.

Certification: Scuba Diver, July 1975, NAUI.; USF Scientific Diver, 1980, AAUS scientific diver, 1997, Enriched Air Diver, February 1998

Reviewer for NSF Biological Oceanography, NSF Polar Biology and Medicine, NSF Ocean Technology, NSF Arctic System Science.

Referee for Biological Bulletin, Limnology and Oceanography, Marine Biology, Marine Ecology Progress Series, Deep-Sea Research, Journal of Experimental Biology, Journal of Experimental Marine Biology and Ecology, Polar Biology.

AREAS OF SPECIALIZATION

Physiology and ecology of pelagic, benthic, and intertidal animals, comparative physiology, biochemical physiology, animal locomotion, deep-sea biology, polar biology.

HONORS, AWARDS, BIOGRAPHIES

Adjunct research professor, College of Sciences, Department of Earth, Ocean, and Atmospheric Sciences, Old Dominion University, Norfolk Virginia, appointed 1 March 2008

President's Award for Faculty Excellence. USF. January 2003.

Guest editor - Deep-Sea Research II. Southern Ocean Globec. December 2002-present

Member: Southern Ocean GLOBEC scientific steering committee. March 2000 - present

Professorial Excellence Program award, University of South Florida, 1998-1999 academic year.

Fellow of the American Association for the Advancement of Science, October, 1997. Awarded in recognition of research on physiological adaptations of marine organisms in the pelagic environment

Member: National GLOBEC scientific steering committee: 1996-1998

Outstanding Assistant Professor, 1985. College of Natural Sciences, University of South Florida

RESEARCH EXPEDITIONS AND CRUISES

Chief Scientist, Silverfish expedition to the Western Antarctic Peninsula Shelf, RVIB Nathaniel B. Palmer, 16 March – 02 May 2010.

Chief Scientist, Biological Oceanography cruise to West Florida Shelf, 14-17 November 2008.

Chief Scientist, Micronekton II cruise to Standard Station, 27 N, 86 W, R/V Suncoaster , 25-29 June 2007

Chief Scientist, Biological Oceanography cruise to the Florida Straits, R/V Bellows, 13-20 November 2006.

Field team leader, Micronekton II blue water diving clinic, Keys Marine Lab, Long Key, Florida 25-29 September, 2006.

Chief Scientist, ichthyology cruise to the Dry Tortugas, R/V Bellows, 8-13 March 2003.

PI and field team leader, fish ecology/krill physiology group, SO GLOBEC winter survey cruise, 31 July-21 Sept. 2002, Antarctic Peninsula Shelf, RVIB NB Palmer

Chief scientist, SO GLOBEC fall process cruise, 07 April - 21 May 2002, Antarctic Peninsula Shelf, R/V Lawrence M. Gould.

PI and field team leader, fish ecology/krill physiology group, SO GLOBEC winter survey cruise, 20 July-3 Sept. 2001, Antarctic Peninsula Shelf, RVIB NB Palmer

Chief scientist, SO GLOBEC fall process cruise, 20 April - 5 June 2001, Antarctic Peninsula Shelf, R/V Lawrence M. Gould

PI and field team leader, fish ecology group, Antarctic Pack Ice Seals (APIS) cruise, Ross Sea, 20 Dec 1999-10 February 2000, RVIB NB Palmer.

Chief Scientist, R/V Pelican, cruise to eastern Gulf of Mexico in support of NSF funded study on the nutritional physiology of leptocephali, 23 June- 4 July 1999.

Studies on the nutritional physiology of leptocephali. Lee Stocking Island - Bahamas. April 1999.

Participant, FMRI baitfish stock assessment cruise, B. Mahmoudi chief scientist, West Florida Shelf, 21-29 March 1999.

Chief Scientist, R/V Pelican, cruise to eastern Gulf of Mexico, 13-26 June, 1998.

Studies on the nutritional physiology of leptocephali. Lee Stocking Island - Bahamas. Jan-Feb 1998.

Studies on the physiology of gelatinous zooplankton in the California Current Region. R/V Point Sur, Mar 1995.

The Antarctic ice-edge bloom: its influence on intermediate trophic levels, Scotia-Weddell Seas, Polar Duke, Nov-Dec 1993, Chief Scientist.

Nutritional condition of zooplankton on George's Bank, R/V Columbus Iselin, April, 1993, May 1994.

In-situ measurement of oxygen consumption in gelatinous zooplankton vic. Grand Bahama. Johnson Sea-Link submersible, R/V Seward Johnson, R/V Edwin Link. November 1990, March 1991.

Metabolism and adaptation to salinity in the Arctic amphipod, *Gammarus oceanicus*. Research at the Norwegian Arctic field station in Ny Aalesund, Spitsbergen, July of 1989 and 1990.

Antarctic Marine Ecosystem Research at the Ice Edge Zone (AMERIEZ) Scotia and Weddell Seas Antarctica. R/V Polar Duke, 1988

Antarctic Marine Ecosystem Research at the Ice Edge Zone (AMERIEZ) Expedition to the Weddell Sea, Antarctica. USCGC Glacier, 1986

Deep Rover Submersible Research Program, R/V Wecoma, 1985

WASP Submersible Research Program, R/V Thomas G. Thompson, 1984, R/V New Horizon, 1982

Antarctic Marine Ecosystem Research at the Ice Edge Zone (AMERIEZ) Expedition, Scotia Sea, Antarctica, R/V Melville 1983

Studies on the Ecology and Physiology of Gelatinous Zooplankton, R/V Columbus-Iselin, 1983

Numerous trips on R/V Bellows and R/V Suncoaster, 1980-1999.

Numerous cruises aboard R/V Oconostota 1972-1973, R/V Velero IV 1973-1979, R/V Ellen B. Scripps 1973-1977, R/V Alexander Agassiz 1975-1976

PROFESSIONAL ORGANIZATIONS AND OFFICES

American Association for the Advancement of Science

American Society of Limnology and Oceanography

American Society of Ichthyologists and Herpetologists

American Geophysical Union

Crustacean Society

Oceanography Society

Society for Integrative and Comparative Biology

Society of Sigma Xi

PROFESSIONAL SERVICE

Member: extended steering committee - Census of Antarctic Marine Life

Member: Southern Ocean GLOBEC scientific steering committee. March 2000 - present

Panelist for NSF Biological Oceanography, Nov 1996, May 2005

Panelist for NSF Arctic Systems Science, 2006, 2009

Member: U.S. GLOBEC scientific steering committee Jan 96 - Dec 1998

Reviewer for NSF Biological Oceanography, NSF Polar Biology and Medicine, NSF Ocean Technology, NSF Ecological and Evolutionary Physiology.

Referee for Biological Bulletin, Limnology and Oceanography, Marine Biology, Marine Ecology Progress Series, Deep-Sea Research, Journal of Experimental Biology, Journal of Experimental Marine Biology and Ecology, Polar Biology.

CIVIC AND PUBLIC SERVICE ACTIVITIES

Career day speaker, St. Petersburg Catholic HS, 10 November 2006

Keynote speaker, Spoonbill Bowl for Ocean Sciences, 11 February 2006

Career day speaker, St. Petersburg Catholic HS, 10 February 2006

Interview with "University Beat" July, 2002, aired 14, 16, 18, 20 July

Torres JJ, Antarctic Ecology, three talks at MOSI, February 6, 2002

Guest writer for St. Petersburg Times, eight articles in the Neighborhood Times over the period Jan-Mar 2000, six in the period April-Sept 2001.

Multiple lectures at Brighton Preparatory School, 1999-2002.

Lecturer: USF Marine Science 's Project Oceanography, fall 1998, fall 2001.

Guest speaker for the following public service organizations:

- East Clearwater Rotary Club
- Friends of Boyd Hill Nature Trail
- Clearwater Parents Without Partners
- St. Petersburg Exchange Club
- Friends of Natural Sciences
- West Gate High 12
- Coterie Women's Club
- Maximo Elementary School

Guest speaker: Clearwater High School Career Day

Participant: USF Department of Marine Science Public Lecture Series

Interviews: WTVT 13, "College Kaleidoscope"; KCOY TV 6 O'Clock News

Guest Speaker: Pinellas Park High School, 24 March 1993

UNIVERSITY, COLLEGE, DEPARTMENTAL OR SUS COUNCILS OR COMMITTEES (Cumulative)

Marine Science Faculty Recruitment committee

Marine Science Admissions and Awards Committee

Marine Science Library Committee

Marine Science Computer Committee

Marine Science Graduate Research Symposium

John B. Lake Capital Equipment Committee, Chair

Marine Science Safety Committee

Student Recruiting Committee

Tenure and Promotion Committee, Chair

Personnel Committee: Chairman

Marine Science Seminar Committee

Marine Science Faculty Recruiting Committee, Chair

Marine Science Budget Committee

Marine Science Faculty Evaluation Committee (1996, 1997, 2004+ multiple years previously)

Marine Science Dean's Advisory Committee - Chair 2005-present

CMS Dean Search Committee – 2006- present

TEACHING AND OTHER INSTRUCTIONAL ACTIVITIES

Course Development

Ecological Physiology

Ecological Physiology Laboratory

Biological Oceanography

Crustacean Biology

Animal Physiology Seminar

Age and Growth of Fishes lecture and laboratory

Comparative Physiology I

Comparative Physiology II

Fish Physiology

Ichthyology

Micronekton I

Micronekton II

Fish Biology

Polar Oceanography

Course Instruction

Ecological Physiology
 Ecological Physiology Laboratory
 Biological Oceanography
 Introduction to Oceanography
 Crustacean Biology
 Animal Physiology Seminar
 Age and Growth of Fishes lecture and laboratory
 Invertebrate Physiology
 Comparative Physiology I
 Comparative Physiology II
 Fish Physiology
 Ichthyology
 Micronekton I
 Micronekton II
 Fish Biology
 Polar Oceanography

Graduate Students' Advisory Committees- Ph.D

Bruce Barber, Ph.D.	Graduated	Walter Conley, Ph.D.	Graduated
Thomas Cuba, Ph.D.	Graduated	Michael Moyer, Ph. D.	Graduated
Maurizio Mangini, Ph.D	Graduated	Rob Erdman, Ph.D.	Graduated
Keith Walters, Ph.D.	Graduated	Mary DeFlaun, Ph.D.	Graduated
Marie Azzarello, Ph.D.	Graduated	Wade Jeffrey, Ph.D.	Graduated
Steven G. Tolley, Ph.D.	Graduated	Bill Arnold, Ph.D.	Graduated
Glenn Parsons, Ph.D.	Graduated	Harry Meyer, Ph.D.	Graduated
John V. Gartner, Ph.D.	Graduated	Mark Meyers, Ph.D.	Graduated
Ernst Peebles, Ph.D.	Graduated	Strawn Toler, Ph.D.	Graduated
Yan-Tian Lu, Ph.D.	Graduated	Terri Slifko, Ph.D.	Graduated
Dana E. Williams, Ph.D.	Graduated	Tracey Sutton, Ph.D.	Graduated
Audra Ames, Ph.D.	Graduated	Scott Burghart, Ph.D.	Graduated
Brandon Casper, Ph.D..	Graduated	Mandy Hill, Ph.D.	Graduated
Jay Leverone, Ph.D.	Graduated	Elizabeth Fisher, Ph.D.	Graduated
Bryan McCloskey, Ph.D.	Graduated	Andrew Remsen, Ph.D	Graduated
Jim Locascio, Ph.D.	Graduated	Kathy Guindon, Ph.D.	
Christin Murphy Ph.D.		Camille Daniels, Ph.D.	

Graduate Students' Advisory Committees-M.S.

Darryl Brock, M.S.	Graduated	Jeffrey Brown, M.S.	Graduated
Andrea Johnson	Graduated	Kelly Boomer, M.S.	Graduated
Rob Erdman, M.S.	Graduated	Michael Mitchell, M.S.	Graduated
Mark Flock, M.S.	Graduated	Susan Davis, M.S.	Graduated
Renate Bernstein, M.S.	Graduated	Ernst Peebles, M.S.	Graduated
Michael Morris, M.S.	Graduated	Kristie Killam, M.S.	Graduated
Paul Shuert, M.S.	Graduated	Randy Hochberg, M.S.	Graduated
Susan Reinhardt, M.S.	Graduated	Ken Passarella, M.S.	Graduated

Steven Szedlmayer, M.S.	Graduated	Rodger Stokes, M.S.	Graduated
Eric Dohner, M.S.	Graduated	Julie Garrett, M.S.	Graduated
Sherry Epperly, M.S.	Graduated	Bill Miller, M.S.	Graduated
Jonathan Rast, M.S.	Graduated	Steven Kinsey, M.S.	Graduated
Darryl Pierce, M.S.	Graduated	Paloma Rodriguez, M.S.	Graduated
Tracey Sutton, M.S.	Graduated	Deborah Howard, M.S.	Graduated
Cynthia Heil, M.S.	Graduated	Theresa Slifko, M.S.	Graduated
Scott Burghart, M.S.	Graduated	Tim MacDonald, M.S.	Graduated
Douglas Robison, M.S.	Graduated	Tunc Orsoy	Graduated
Rob Walker, M.S.	Graduated	Marcus Lindeman	Graduated
Kerri Scolardi, M.S.	Graduated	Sarah Egner	Graduated
Randy Hill, M.S.	Graduated	Sarah Walters, M.S.	Graduated
Bryan Nichols, M.S.	Graduated	Lucia de la Paz	Graduated

Graduate Students' Major Professorship

Joseph Donnelly, M.S.	Graduated	Ross Brightman, Ph.D.	Graduated
Susan Brown, M.S.	Graduated	Iliana Quintero, M.S.	Graduated
Allen Foley, Ph.D.	Graduated	Donna Stickney, M.S.	Graduated
Teresa Greely, M.S.	Graduated	Brad Weigle, M.S.	Graduated
Gina Ruiz, M.S.	Graduated	Steve Wolf, M.S.	Graduated
Steve Geiger, M.S.	Graduated	Shana Smith, M.S.	Graduated
Renee Bishop-Pierce, Ph.D.	Graduated	Leslie Ward-Geiger, M.S.	Graduated
Steve Geiger, Ph.D.	Graduated	Helena Kawall, Ph.D.	Graduated
Chris Simoniello, Ph.D.	Graduated	Joel Bellucci, M.S..	Graduated
Michele Grigsby, M.S.	Graduated	Paul Thurman, M.S.	Graduated
Ester Quintana-Rizzo, Ph.D	Graduated	Noah Silverman, M.S	Graduated
Tammy Cullins, M.S	Graduated	Erica Hudson, M.S	Graduated
Leanne Flewelling, Ph.D.	Graduated	Karen Burns, Ph.D.	Graduated
(co-chairw/G. Vargo) .		(co-chair w/ D.Mann)	
Mandy Tyler, M.S.	Graduated	Nicole Dunham, M.S.	Graduated
Heather Judkins, Ph.D.	Graduated	Hussain al Mutairi, Ph.D	Graduated
(co-chair – Mike Vecchione)		Melanie Parker, Ph.D	
Heather Broadbent, Ph.D		Lara Henry, M.S.	
Eloy Martinez-Rivera, M.S		Erica Hudson, Ph.D.	
Suzanne Stickley, M.S.			

Postdoctoral Advisorship

Renee Bishop
Stephen P. Geiger
Barbara Tartarotti

RESEARCH AND CREATIVE ACTIVITIES

Publications - Refereed Journals

1. Torres, J.J. and C.P. Mangum. 1974. Effects of hyperoxia on survival of benthic marine invertebrates. *Comp. Biochem. Physiol.* 47A: 17-22.
2. Torres, J.J., D.L. Gluck, and J.J. Childress. 1977. Activity and physiological significance of the pleopods in the respiration of *Callinassa californiensis* (Dana) (Crustacea:Thalassinidea). *Biol. Bull.* 152: 134-146.
3. Torres, J.J., B.W. Belman and J.J. Childress. 1979. Oxygen consumption rates of midwater fishes as a function of depth of occurrence. *Deep-Sea Research* 26A: 185-197.
4. Torres, J.J., J.J. Childress and L.B. Quetin. 1982. A pressure vessel for the simultaneous determination of oxygen consumption and swimming speed in zooplankton. *Deep-Sea Research* 29: 631-639.
5. Torres, J.J., and J.J. Childress. 1983. Relationship of oxygen consumption to swimming speed in *Euphausia pacifica*. I. Effects of temperature and pressure. *Mar. Biol.* 74: 79-86.
6. Torres, J.J. 1984. Relationship of oxygen consumption to swimming speed in *Euphausia pacifica*. II. Drag, efficiency, and a comparison with other swimming organisms. *Mar. Biol.* 78: 231-237.
7. Alldredge, A.L., B.H. Robinson, A. Fleminger, J.J. Torres, J.M. King, and W.M. Hamner. 1984. Direct sampling and in situ observation of a persistent copepod aggregation in the mesopelagic zone of the Santa Barbara Basin. *Mar. Biol.* 80: 75-81.
8. Morris, M., G. Gust and J.J. Torres. 1985. Propulsion efficiency and cost of transport for copepods: A hydromechanical model of crustacean swimming. *Mar. Biol.* 86: 283-295.
9. Torres, J.J. and J.J. Childress. 1985. Respiration and chemical composition of the bathypelagic euphausiid *Bentheuphausia amblyops*. *Mar. Biol.* 87: 267-272.
10. Wolf, S.H., R.W. Schreiber, L. Kahana and J.J. Torres. 1985. Seasonal, sexual, and age-related variations in the blood composition of the Brown Pelican (*Pelecanus occidentalis*). *Comp. Biochem. Physiol.* 82A: 837-846.
11. Ainley, D.G., W.R. Fraser, C.G. Sullivan, J.J. Torres, W.O. Smith and T.L. Hopkins. 1986. Antarctic pack ice structures mesopelagic nektonic communities. *Science.* 232: 847-849.
12. Donnelly, J. and J.J. Torres. 1988. Oxygen consumption of midwater fishes and crustaceans from the eastern Gulf of Mexico. *Mar. Biol.* 97: 483-494.
13. Torres, J.J. and G.N. Somero. 1988. Vertical Distribution and Metabolism of Antarctic Mesopelagic Fishes. *Comparative Biochemistry and Physiology* 90B: 512-528.

14. Torres, J.J. and G.N. Somero. 1988. Metabolism, enzymic activities and cold adaptation in Antarctic mesopelagic fishes. *Mar. Biol.* 98: 169-180.
15. Hopkins, T.L. and J.J. Torres. 1988. The zooplankton community in the vicinity of the ice edge, western Weddell Sea, March 1986. *Polar Biol.* 9: 79-87.
16. Lancraft, T.M., T.L. Hopkins and J.J. Torres. 1988. Aspects of the ecology of the mesopelagic fish Gonostoma elongatum (Gonostomatidae, stomiiformes) in the eastern Gulf of Mexico. *Mar. Ecol. Prog. Ser.* 49: 27-40.
17. Lancraft, T.M., J.J. Torres and T.L. Hopkins. 1989. Micronekton and macrozooplankton in the vicinity of the Antarctic ice edge zone. *Polar Biol.* 9: 225-233.
18. Widder, E.A., S.A. Bernstein, D.F. Bracher, J.F. Case, K.R. Reisenbichler, J.J. Torres, and B.H. Robison. 1989. Bioluminescence in the Monterey submarine canyon: image analysis of video recordings from a midwater submersible. *Mar. Biol.* 100: 541-551.
19. Gartner, J.V., JR., P. Steele and J.J. Torres. 1989. Aspects of the distribution of lanternfishes (Pisces:Myctophidae) from the northwestern Sargasso Sea. *Bull. Mar. Sci.* 45: 555-563.
20. Hopkins, T.L. and J.J. Torres. 1989. Midwater food web in the vicinity of a marginal ice zone in the western Weddell Sea. *Deep-Sea Res.* 36: 543-560.
21. Aarset, A.V. and J.J. Torres. 1989. Cold resistance and metabolic responses to salinity variations in the amphipod Eusirus antarcticus and the krill Euphausia superba. *Polar Biol.* 9: 491-497.
22. Stickney, D.G. and J.J. Torres. 1989. Proximate composition and energy content of mesopelagic fishes from the eastern Gulf of Mexico. *Mar. Biol.* 103: 13-24.
23. Donnelly, J., J.J. Torres, T.L. Hopkins and T.M. Lancraft. 1990. Proximate composition of Antarctic mesopelagic fishes. *Mar. Biol.* 106: 13-23.
24. Erdman, R.B., N.J. Blake, and J.J. Torres. 1991. Oxygen consumption of the deep-sea crabs Chaceon fenneri and C. quinquedens. *Comp. Biochem. Physiol.* 99A: 383-385.
25. Lancraft, T.M., T.L. Hopkins, J.J. Torres and J. Donnelly. 1991. Oceanic micronektonic/macrozooplanktonic community structure and feeding in ice covered Antarctic waters during the winter (AMERIEZ 1988). *Polar Biology* 11: 157-167.
26. Ainley, D.G., W.R. Fraser, W.O. Smith Jr., T.L. Hopkins, and J.J. Torres. 1991. The structure of upper level pelagic food webs in the Antarctic: effect of phytoplankton distribution. *J. Mar. Sys.* 2: 111-122.

27. Pfeiler, E., J. Donnelly, J.J. Torres, and R.E. Crabtree. 1991. Glycosaminoglycan composition of tarpon and ladyfish leptocephali. *J. Fish. Biol.* 39: 613-615.
28. Rau, G.H., T.L. Hopkins, and J.J. Torres. 1991. $^{15}\text{N}/^{14}\text{N}$ and $^{13}\text{C}/^{12}\text{C}$ in Weddell Sea invertebrates: implications for feeding diversity. *Mar. Ecol. Prog. Ser.* 77: 1-6.
29. Brown, S.D., T.M. Bert, W.A. Tweedale, J.J. Torres, and W.J. Lindbergh. 1992. The effects of temperature and salinity on survival and development of early life stage Florida stone crabs (*Menippe mercenaria* Say). *J. Exp. Mar. Biol. Ecol.* 157: 115-136.
30. Rau, G.H., D.G. Ainley, J.L. Bengtson, T.L. Hopkins and J.J. Torres. 1992. $^{15}\text{N}/^{14}\text{N}$ and $^{13}\text{C}/^{12}\text{C}$ in Weddell Sea birds, seals, and fish: implications for diet and trophic structure. *Mar. Ecol. Prog. Ser.* 84: 1-8.
31. Hopkins, T.L., T.M. Lancraft, J.J. Torres, and J. Donnelly. 1993. Community structure and trophic ecology of zooplankton in the Scotia Sea marginal ice zone in winter. *Deep-sea Res.* 40: 81-105.
32. Donnelly, J., D.G. Stickney, and J.J. Torres. 1993. Proximate and elemental composition and energy content of mesopelagic crustaceans from the eastern Gulf of Mexico. *Mar. Biol.* 115: 469-480.
33. Hopkins, T.L., D.G. Ainley, J.J. Torres, T.M. Lancraft. 1993. Trophic structure in open waters of the marginal ice zone in the Scotia-Weddell confluence region during spring (1983). *Polar Biol.* 13: 389-397.
34. Donnelly, J., Torres, J.J., Hopkins, T.L., Lancraft, T.M. 1994. Chemical composition of Antarctic zooplankton during austral fall and winter. *Polar Biol.* 14: 171-183.
35. Torres, J.J., A.V. Aarset, J. Donnelly, T.L. Hopkins, T.M. Lancraft, and D.G. Ainley. 1994. Metabolism of Antarctic micronektonic crustacea as a function of depth of occurrence and season. *Mar. Ecol. Prog. Ser.* 113: 207-219.
36. Torres, J.J., J. Donnelly, T.L. Hopkins, A.V. Aarset and D.G. Ainley. 1994. Proximate composition and overwintering strategies of Antarctic micronektonic crustacea. *Mar. Ecol. Prog. Ser.* 113: 221-232.
37. Bailey, T.G., Torres, J.J., Youngbluth, M.J., Owen, G.P. 1994. Effect of decompression on mesopelagic gelatinous zooplankton: a comparison of *in situ* and shipboard measurements of metabolism. *Mar. Ecol. Prog. Ser.* 113: 13-27.
38. Hopkins, T.L., Flock, M.E., Gartner, J.V. Jr, Torres, J.J. 1994. The structure and trophic ecology of a low latitude midwater decapod and mysid assemblage. *Mar. Ecol. Prog. Ser.* 109: 143-156.

39. Donnelly, J, Torres, JJ, Crabtree, RE. 1995. Proximate composition and nucleic acid content of premetamorphic leptocephalus larvae of the congrid eel *Ariosoma balearicum*. Mar. Biol. 123: 851-858.
40. Torres, J.J., Brightman, R.I., Donnelly, J., Harvey, J. 1996. Energetics of premetamorphic larval red drum *Sciaenops ocellatus*. Part I. Oxygen consumption, nitrogen excretion, and specific dynamic action. Fishery Bulletin U.S. 94: 756-765
41. Brightman, RI, Torres, JJ, Donnelly, J, Clarke, ME. 1997. Energetics of premetamorphic larval red drum *Sciaenops ocellatus*. Part II. Growth and biochemical indicators. Fishery Bulletin U.S. 95: 431- 444.
42. Torres, JJ (1998) Review of Deep-sea Fishes. Fish Physiology Vol 16. Copeia, 998, No. 3. 805-806.
43. Greely, T.M., J.V.Gartner, and J. J. Torres. 1999. Age and growth of *Electrona antarctica* (Pisces: Myctophidae) the dominant mesopelagic fish of the Southern Ocean. Marine Biology 133: 145-158.
44. Bishop, RE , Torres, JJ. 1999. Leptocephalus energetics: metabolism and excretion. Journal of Experimental Biology 202: 2485-2493.
45. Burghart SE, Hopkins, TL, Vargo,GA, Torres, JJ. 1999. Effects of a rapidly receding ice edge on the abundance, age structure, and feeding of three dominant calanoid copepods in the Weddell Sea, Antarctica. Polar Biology 22: 279-288.
46. Lu Y.T., Blake, N.J., Torres, J.J. 1999. Oxygen consumption and ammonia excretion of larvae and juveniles of the bay scallop, *Argopecten irradians concentricus* (Say). Journal of Shellfish Research 18: 419-423.
47. Lu Y.T., Blake, N.J., Torres, J.J. 1999. Biochemical utilization during embryogenesis and metamorphosis in the bay scallop *Argopecten irradians concentricus* (Say). Journal of Shellfish Research 18: 425-429.
48. Ikeda T, Torres, JJ, Fernandez-Leon J, Geiger, SP. 2000. Chapter 10, Metabolism, pps. 455-532, In: Zooplankton Methodology Manual, RP Harris, PH Wiebe, J Lenz, HR Skjoldal, and M Huntley, Eds., Academic Press, London.
49. Bishop, R.E., Torres J.J., Crabtree R.E. 2000. Leptocephalus energetics: chemical composition and growth indices. Marine Biology 137: 205-214.
50. Geiger, S.P., J.J. Torres and R.E. Crabtree. 2000. Air breathing and gill ventilation frequencies in juvenile tarpon, *Megalops atlanticus*: responses to changes in dissolved oxygen, temperature, hydrogen sulfide, and pH. Environmental Biology of Fishes 59: 181-190.

51. Geiger, SP, Torres JJ, Donnelly, J. 2000. The effect of the receding ice edge on the condition of midwater fishes in the Northwestern Weddell Sea: results from biochemical assays with notes on diet. *Marine Biology* 137: 1091-1104.
52. Bishop, R.E., Torres J.J. 2001. *Leptocephalus* energetics: Assembly of the energetics equation. *Marine Biology* 138: 1093-1098
53. Geiger, SP, Torres JJ, Kawall HG. 2001. The effect of the receding ice edge on the condition of copepods in the northwestern Weddell Sea. *Hydrobiologia* 453/454: 79-90.
54. Marine Zooplankton Colloquium. 2001. Future marine zooplankton research - a perspective. *Marine Ecology Progress Series*: 222: 297-308.
55. Kawall, HG, Geiger, SP, Torres, JJ . 2001. The effects of the ice edge bloom and season on the metabolism of copepods in the Weddell Sea. *Hydrobiologia* 453/454: 67-77.
56. Kawall, HG, Torres, JJ, Sidell, BD, Somero, GN. 2002. Metabolic cold adaptation in Antarctic fishes: evidence from enzymatic activities of brain. *Marine Biology* 140: 279-286.
57. Tolley SG, Torres, JJ. 2002. Energetics of swimming in juvenile common snook (*Centropomus undecimalis*). *Environmental Biology of Fishes* 63: 427-433.
58. Hofmann, EE, Klinck, JM, Costa, DP, Daly, KL, Torres, JJ, Fraser, WR. 2002. US Southern Ocean Global Ocean Ecosystems Dynamics Program. *Oceanography* 15: 64-74.
59. Ackley, SF, Bengtson, JL, Boveng, P, Castellini, M, Daly, KL, Kooyman, J, Laake, J, Quetin, LB, Ross, R, Siniff, DB, Stewart, BS, Stirling, I, Torres, J, Yochem, PK. 2003. A top-down multidisciplinary study of the structure and function of the pack ice ecosystem in the eastern Ross Sea, Antarctica. *Polar Record* 39: 219-230.
60. Bishop RE, Kakuk, B, Torres JJ. 2004. Life in the hypoxic and anoxic zones: metabolism and proximate composition of Caribbean troglobitic crustaceans with observations on the water chemistry of two anchialine caves. *Journal of Crustacean Biology* 24: 379-392
61. Donnelly J, Torres JJ, Sutton TT, Simoniello C. 2004. Fishes of the eastern Ross Sea, Antarctica. *Polar Biology* 27: 637-650
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Torres, JJ, Donnelly, J, Crabtree, RE. Metabolism and proximate composition of *Ariosoma balearicum* leptocephali. American Society of Ichthyologists and Herpetologists, 1993 meetings proceedings, p 303.

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Geiger, SP, Torres, JJ. Measurement of physiological condition of ichthyoplankton from the west Florida shelf. American Society of Ichthyologists and Herpetologists, 1993 meetings proceedings, p 146.

Ward, LI, Torres, JJ, Worthy, GAJ, Wright, SD. Development of non-invasive body condition indices for the Florida manatee (*Trichechus manatus latirostris*). Eleventh Biennial conference on the Biology of Marine Mammals.

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JJ Torres, J Donnelly, and J Bellucci SO GLOBEC: Metabolism of winter krill. 2002. Eos. Trans. AGU, 83(4), Ocean Sciences Meet. Suppl., Abstract OS 51A-04.

KL Daly, J Torres, S Gallager, J Donnelly, J Zimmerman, J Bellucci. 2003. Carbon budgets for overwintering larval krill. Eos. Trans. AGU, 84 (52) Ocean Sci. Meeting Abstract OS12F-03

K M Scolardi, K L Daly, J J Torres. 2004. Feeding ecology and metabolism of the Antarctic cydippid ctenophore, *Callianira antarctica*. Eos. Trans. AGU, 84 (52) Ocean Sci. Meeting Abstract OS 22K-10.

J J Torres, J Donnelly, T Sorge, M Parker, J Bellucci. 2004. Pelagic fishes in the coastal Antarctic: differences between regions. Eos. Trans. AGU, 84 (52) Ocean Sci. Meeting Abstract OS32B-20.

GRANTS AND CONTRACTS

Marine survey in the vicinity of Chevron platform "A" structure MP 254 in the Gulf of Mexico. (Co-PI with: Dr. K.A. Fanning, S. Vargo, G.A. Vargo, B.L. Smith (FIO) H. Michel (University of Miami); EPA/TRW; \$74,933 total; \$7,834 (Torres only; 11/80-5/81

Studies on the ecological physiology of midwater fishes and crustaceans in the Gulf of Mexico. Florida Institute of Oceanography. 1981. 15 days shiptime.

Studies on the ecological physiology of midwater fishes and crustaceans in the Gulf of Mexico. Florida Institute of Oceanography. 1982. 16 days shiptime.

Patchiness and population dynamics of zooplankton in the Tampa Bay estuary. USF Faculty Research and Creative Scholarship Fund. \$3,000. 6/82-6/84

Support during in situ studies of mesopelagic biology: WASP. Southern Regional Education Board. \$275. 11/82

Studies of the ecological physiology of midwater fishes and crustaceans in the Gulf of Mexico. Florida Institute of Oceanography. 1983. 14 days shiptime.
Metabolism of micronekton in the East and West Wind Drift. NSF. \$41,488. 5/83-2/85

Temperature effects on energy consumption and locomotion in salps (Tunicata: Thaliacea). NSF. \$6,000. 5/83-11/84

Equipment improvement for marine biological research at the Department of Marine Science, USF. (Co-PI with Drs. J.H. Paul, G.A. Vargo and T.L. Hopkins) NSF, \$45,000; USF match \$32,557. Total \$77,557. 6/83-6/85

Supplement to Metabolism of micronekton in the East and West Wind Drift. NSF. \$12,917. 9/83-2/85

Design, fabrication, and calibration of a small swimming tunnel for crustaceans. (Co-PI with Drs. G.R. Gust and R.H. Byrne) USF Faculty Research and Creative Scholarship Fund. \$4,580. 11/84-12/85

Antarctic marine ecosystem research at the ice edge zone (AMERIEZ): Distribution abundance and energy utilization of micronekton in relation to the ice-edge. (Co-PI with Dr. T.L. Hopkins) NSF. \$515,517. 6/85-6/89

Construction and employment of needle oxygen electrodes for measurement of photosynthesis. (Co-PI with Dr. G.A. Vargo) Mote Marine Lab. \$5,000. 6/87-6/88

Physiology of Gulf Micronekton. FIO. 6/87-6/88, 7 days shiptime.

Distribution, abundance and energy utilization of zooplankton and micronekton from a winter ice edge. (Co-PI with Dr. T.L. Hopkins) NSF. \$57,996. 6/89-6/90

Metabolism of sympagic amphipods in the land fast sea-ice vicinity Ny Aalesund, Spitsbergen. NSF \$7,566. 6/89-6/90.

Aerial breathing and the early life history of tarpon. (Co-PI with Dr. R.E. Crabtree FDNR-MRI. Hawley Foundation. \$15,000. 6/89-6/90

Research on the neustonic, epi- and mesoepilagic communities of standard station (27EN 86EW) in the eastern Gulf. (Co-PI with Drs. T.L. Hopkins, S.B. Collard, F.F. Snelson) FIO. 6-88-6/89, 11 days shiptime.

Enzyme and compositional analysis in Leptocephalus larvae of Tarpon. DNR. \$21,038. 4/13/90-12/12/90.

Metabolism and ion transport in the Arctic amphipod Gammarus oceanicus. NSF. \$36,492. 4/1/90-5/31/91.

Energetics and RNA-DNA ratio in larval red drum Sciaenops ocellatus. DNR. \$165,580. 7/2/90-7/1/93.

In-situ measurement of O₂ consumption by gelatinous zooplankton. NSF. Co-PI with Drs. T.G. Bailey, M.J. Youngbluth of Harbor Branch Oceanographic Institution \$17,640 (Torres only). 10/90-10/91.

The role of airbreathing in the respiration of juvenile tarpon. DNR. \$14,000. 3/91-3/92.

Energy acquisition in leptocephalus larvae. DNR. \$28,000. 5/92-4/93.

Energetics of leptocephalus larvae. FIO. 5 days shiptime. 8/92

Nutritional status of field-caught zooplankton on the West Florida Shelf. DNR. \$63,000, 5/92-12/93.

Energetics of leptocephalus larvae. FIO. 5 days shiptime. 8/93.

NSF OCE 9218505 -- Enzyme activities as shipboard biochemical indices of condition in zooplankton. \$115,000. 12/92 - 11/94. Co - PI with Liz Clarke and Pat Walsh of the University of Miami. Amount shown is for Torres only. (Biological Oceanography).

NSF OPP 9220493 -- The Antarctic ice edge bloom: its importance to intermediate trophic levels. \$345,000. 6/93 - 5/95. Co-PI with T.L. Hopkins and G.A. Vargo of USF and G.S. Kleppel of NOVA University. Amount shown is USF portion only. I am lead PI on this award. (Polar Biology and Medicine)

FDEP-MR084- Scanning electron microscope analysis of larval tarpon otoliths. \$10,000. 6/95-12/95.

FDEP-MR153- Microstructural examination of metamorphic elopomorph larvae. \$6,032. 8/16/96-1/31/97.

FDEP-S-3700-730956-Heat shock proteins in larval and juvenile snook. \$ 8,000. 8/29/96-6/30/97.

NSF OCE 9712572- A diet of snow: energetics and nutrition of leptocephalus larvae. \$300,000. 8/97-7/2000. Torres only, no other PI's or institutions involved.

NSF OPP 9815973 Antarctic Pack Ice Seals (APIS): Ecological interactions with prey and the environment. \$ 296,808. 5/99-5/02. The amount shown is for Torres only. This is a multi-investigator program.

Florida Fish and Wildlife Conservation Commission, contract # FWC 99086. Harmful Algal Blooms: Stress Response in Fish. \$125,000. 12/99-12/00. Torres only.

NSF OPP 9910100 Winter Distribution and Success of Southern Ocean Krill (WinDSSOcK) (Southern Ocean GLOBEC). With Dr. Kent Fanning of USF. \$634,898 total; 494,992 for Torres only. 9/2000-9/2003. This is a multi-investigator program.

Florida Fish and Wildlife Conservation Commission. Harmful Algal Blooms: Stress Response in Fish. \$75,000. 12/00-12/01. Torres only

Florida Fish and Wildlife Conservation Commission, contract # FWC 00321. Seemap Archiving Center Services. 13 August 2001 to 15 November 2001. \$70,477. Torres only.

Florida Fish and Wildlife Conservation Commission, contract # FWC 01130. SEAMAP Ichthyoplankton Program. 14 February 2002-31 January 2006. \$422,813.

Southwest Florida Water Management District, award # OOPCNC00837, Alafia and Little Manatee Rivers Organic Fraction Analysis, \$18,648, 13 Sept 02-1 Nov 02. Torres only.

NOAA-NMFS, Award # AB133F04SE0855 , Physiological energetics of important species: enzyme activities as a proxy for catchability in groundfishes and literature survey of growth in deep-water corals. \$99,943, 21 June 04-20 June 05. Torres only.

Florida Fish and Wildlife Conservation Commission, FWRI Req. 51007, Induction of stress responses in fish in response to brevetoxin exposure, \$35,000 20 Jan. 2005 -1 Jun 2005.

Florida Institute of Oceanography - \$19, 800, Torres only, 6 d shiptime aboard the R/V Suncoaster

NSF OPP 0523244 Collaborative Research: U.S. SO GLOBEC Synthesis and Modeling – Habitat Utilization and Predator – Prey Interactions on the Western Antarctic Peninsula. \$154,009 (Torres only) 1 May 2006-30 April 2009

Florida Fish and Wildlife Conservation Commission. 1 Feb 2006-31 Jan 2011. Florida/NMFS Cooperative SEAMAP Project. \$621,527. 0% time commitment.

NOAA-NMFS Award # AB133F06SE2766 Enzyme activities in rockfishes from the Pacific Northwest. \$25,000

Florida Institute of Oceanography. Dive training at the KML in support of a new course: Micronekton II, fishes and methods, OCE 6934 Sec 622, Fall 2006, 5 d at the KML (approximately \$2250)

Florida Institute of Oceanography. Shiptime in support of a new course: Micronekton II, fishes and methods, OCE 6934 Sec 622, Fall 2006. 5 d shiptime. Approximately \$12,500

NSF OCE 0727883 Micronekton of the Cariaco Basin: adaptation to a severe oxygen minimum. \$371,050, 1 August 2007 – 31 July 2011.

NSF ANT 0741348, Collaborative Research: Possible Climate-induced change in the distribution of *Pleuragramma antarcticum* on the Western Antarctic Peninsula shelf. \$412,023, 1 Sept 2008-31 August 2011.

ONR 10180372, Development and Evaluation of a Miniature CTD Biologger for use on Marine Animals to Measure Physical Structures of the Oceanic Environment. \$130,00, 1 May 2009- 30 April 2010. Co-PI with Heather Broadbent.

ONR 10180372 – continuation. Development and Evaluation of a Miniature CTD Biologger for use on Marine Animals to Measure Physical Structures of the Oceanic Environment. \$171,140 1 May 2010- 30 April 2011. Co-PI with Heather Broadbent.

NSF OCE 1047693 RAPID Deepwater Horizon Oil Spill: Impact of sub-surface oil plumes on mesopelagic micronekton. \$147,696. 1 July 2010 – 30 June 2011. Co-PI with David Hollander

FIO BP oil-spill - Toxicity of Deepwater Horizon Oil and Dispersants on Florida's Reef Biota. October 2010- October 2012. Ca. \$200,000. Co-PI with Pam Hallock-Muller.

PRESENTATION OF PAPERS

Torres, J.J. and C.P. Mangum. Effects of hyperoxia on intertidal invertebrates. Virginia Academy of Sciences, Lexington, Virginia. Fall, 1972.

Torres, J.J. Oxygen consumption rates of midwater fishes as a function of minimum depth of occurrence. American Society of Limnology and Oceanography, Pacific Section, San Francisco, California, June, 1977.

Torres, J.J. and J.J. Childress. Effects of temperature and pressure on the relationship of oxygen consumption to swimming speed in *Euphausia pacifica*. American Society of Limnology and Oceanography, Seattle, Washington, December, 1980.

Torres, J.J., B.L. Weigle, T.M. Lancraft, T.L. Hopkins, G.N. Somero, B.H. Robison. Metabolism of Antarctic mesopelagic fishes as a function depth of occurrence. ASLO, San Francisco, California, December, 1984.

Torres, J.J., T.L. Hopkins, J. Donnelly and T.M. Lancraft. Metabolism and proximate composition of Antarctic pelagic Crustacea. Presented at 1988 Ocean Sciences Meeting, New Orleans, LA

Torres, J.J., J. Donnelly, T.L. Hopkins and T.M. Lancraft. Metabolic rate depression in overwintering Antarctic species. Presented at 1990 Ocean Sciences Meeting, New Orleans, LA.

Torres, JJ, Donnelly, J, Crabtree, RE. Metabolism and proximate composition of *Ariosoma balearicum* leptocephali. American Society of Ichthyologists and Herpetologists, 1993 meeting, Austin, Texas.

Bishop, RE, Torres, JJ, Crabtree, RE. Age and growth estimates of *Ariosoma balearicum* with notes of length of larval phase and spawn dates. American Society of Ichthyologists and Herpetologists, 1993 meeting, Austin, Texas.

Torres, JJ, Donnelly, J, Sutton, TT. 1996. Trickle-down energy: the influence of the ice edge on condition in intermediate trophic levels. EOS 76 (3): OS 212.

Bishop, RE, Torres, JJ. 1997. Energetics and nutrition of Leptocephalus larvae. ASIH annual meeting, June, 1997

- Bishop, RE, Torres, JJ. 1997. Age validation in the otoliths of *Leptocephalus* larvae. ASIH annual meeting, June 1997
- Bishop, RE and Torres, JJ. 1998. Energetics of *leptocephalus* larvae. Spring meeting of American Society of Ichthyologists and Herpetologists, New Orleans, LA
- Greely, T.M., J.V. Gartner, and J. J. Torres. 1999. Age and growth of *Electrona antarctica* (Pisces: Myctophidae) the dominant mesopelagic fish of the Southern Ocean. Poster at the 1999 Gordon Research Conference in Polar Marine Science, 8-12 March 1999, Ventura, CA.
- Bishop, RE, Torres, JJ. 1999. Metabolism of troglobitic crustaceans. The Crustacean Society annual meeting, 26-30 May 1999.
- Kawall, HG, Geiger, SP, Torres, JJ. 1999. The effects of the ice-edge bloom and season on the metabolism of copepods in the Weddell Sea. Seventh International Conference on Copepoda, Curitiba, Brazil, 25-31 July 1999.
- Geiger, SP, Torres, JJ, Kawall, HG .1999. The effect of the receding ice edge on the condition of copepods in the northwestern Weddell Sea. Seventh International Conference on Copepoda, Curitiba, Brazil, 25-31 July 1999.
- J Donnelly, JJ Torres, K Daly, TT Sutton, C Simoniello, M Grigsby, J Bellucci S Burghart, and T Bailey. 2002. GLOBEC meets APIS: the character of the pelagic fish fauna in waters of the western Antarctic Peninsula Shelf and the eastern Ross Sea. AGU/ASLO winter meeting, 11-15 Feb 2002.
- JJ Torres , J Donnelly, and J Bellucci SO GLOBEC: Metabolism of winter krill. AGU/ASLO winter meeting, 11-15 Feb 2002.
- KL Daly, J Torres, S Gallager, J Donnelly, J Zimmerman, J Bellucci. 2003. Carbon budgets for overwintering larval krill. Eos. Trans. AGU, 84 (52) Ocean Sci. Meeting Abstract OS12F-03
- K M Scolardi, K L Daly, J J Torres. 2004. Feeding ecology and metabolism of the Antarctic cydippid ctenophore, *Callianira antarctica*. Eos. Trans. AGU, 84 (52) Ocean Sci. Meeting Abstract OS 22K-10.
- J J Torres, J Donnelly, T Sorge, M Parker, J Bellucci. 2004. Pelagic fishes in the coastal Antarctic: differences between regions. Eos. Trans. AGU, 84 (52) Ocean Sci. Meeting Abstract OS32B-20.
- Simoniello, C. Torres, J J, Somero, GN. 2004. Kinetic properties and thermal stabilities of A4 lactate dehydrogenases of mesopelagic fishes evolved to different thermal gradients. ASLO/TOS Ocean Research Conference, Honolulu HI, 15-20 Feb 2004.

Bellucci, J L, Torres J J, Van Vleet, E S, Geiger, S P. 2004. Seasonal effects on the metabolism of copepods, euphausiids, and thysanoessids off the Western Antarctic Peninsula: results from assays and respiration studies. ASLO/TOS Ocean Research Conference, Honolulu HI, 15-20 Feb 2004.

Tartarotti, B, Torres, J J. 2004. Induction of stress proteins in the copepod *Acartia tonsa*. ASLO/TOS Ocean Research Conference, Honolulu HI, 15-20 Feb 2004.

Al-Mutairi H, Torres, JJ. Non-calanoid copepods at the Bermuda Atlantic Time-series (BATS) Station: Community structure and ecology. AGU-ASLO winter meeting Feb 20-25 2005.

Torres JJ, Donnelly J, Bellucci, J, Parker, M. Overwintering Strategies in Antarctic Crustacea: Seasonal Changes in Metabolism, Excretion, and Enzyme Activities. AGU-ASLO winter meeting abstracts (Abstract only - no presentation).

Torres JJ, Bellucci JL, Donnelly, J Southern Ocean GLOBEC: Overwintering metabolism in Antarctic zooplankton and micronekton. International Zooplankton Production Symposium, 28 May-1 June 2007

INVITED PAPERS/PARTICIPATION

International Decade of Oceanic Exploration: NSF, Midwater Ecosystem Analysis. January 1979, Santa Barbara, CA

American Society of Limnology and Oceanography. Chairman: Fish and Stream Ecology, December, 1980, Seattle, Washington

Antarctic Marine Ecosystem Research at the Ice Edge Zone: NSF Division of Polar Programs. Paper presentation "Distribution and abundance of fishes and salps in relation to the marginal ice zone"; June, 1984, Seattle, Washington

Antarctic Marine Ecosystem Research at the Ice Edge Zone: NSF Division of Polar Programs. Precruise workshop, paper presented: Metabolism and Enzymic Activities of Antarctic Fishes. June, 1985, Santa Cruz, California

Host (with T.L. Hopkins) of the spring 1987 AMERIEZ workshop held at the Shark Institute in Long Key, Florida 31 March - 2 April, 1987.

Participant in Zooplankton Colloquium, Lake Arrowhead Conference Center, 17-21 April, 1988. Discussion of directions for future zooplankton research.

Participant in fall AMERIEZ workshop, September 1987, Washington, DC

Torres, J.J. and G.N. Somero. Metabolism and enzymic activities of Antarctic mesopelagic

fishes. Invited paper presented at the International Conference on the Marine Biology of Antarctica, Ravello, Italy. 6-8 October, 1986.

Torres, J.J. Marine biology in the Antarctic. Invited presentation to the USF St. Petersburg Brown Bag lunch series. Fall 1988.

Participant in AMERIEZ workshop, April 1990, Catalina Marine Science Center.

Participant and co-discussion leader: GLOBEC Workshop on Biotechnology Applications to Field Studies of Zooplankton. Nov. 14-16, 1990.

Invited participant in ONR - sponsored workshop on bioluminescence contributions to the ONR Arabian Sea initiative, 10 - 13 February, 1993, at the Stennis Space Center, MS.

Invited participant in NSF- sponsored US GLOBEC Workshop on Dynamics of Open Ocean Populations, 13-15 September, 1993, at Woods Hole Oceanographic Institution.

Invited participant/poster presentation in Gordon Conference on Sea Ice Ecology, March 3-7 1997, Ventura, California.

Invited participant: Southern Ocean GLOBEC workshop, NSF building, Arlington, VA, 30 Sept-1 Oct 1998.

GLOBEC Gulf of Mexico workshop: Large rivers and marine populations. Co-convener with Mike Dagg and Peter Ortner. Held at Louisiana Universities Marine Consortium, (LUMCON), Cocodrie, Louisiana, 13-15 January, 1999.

Invited participant: Second Marine Zooplankton Colloquium (MZC II,) 8-10 February 1999, Skidaway Institute of Oceanography, Savannah GA.

Invited participant/poster presentation in Gordon Conference on Controls and Significance of Carbon Fluxes in Polar Seas, 7-12 March 1999, Ventura, California.

Invited participant, proposal preparation workshop for Southern Ocean Globec, Old Dominion University, Norfolk VA, April 1999.

Cruise preparation workshop, NSF funded Antarctic Pack Ice Seals (APIS) program, 10-13 June, 1999.

GLOBEC Gulf of Mexico workshop, New Orleans, LA, 1 December 1999.

Southern Ocean GLOBEC, Scientific steering committee meeting, discussion of logistics, 7-9 April, 2000.

Southern Ocean GLOBEC, discussion group leader, krill working group, process cruise working group, 25-26 May 2000, Washington D.C.

Distribution and abundance of Fishes in the Ross Sea. APIS post-cruise workshop, UC Santa Barbara, 27-29 June, 2000.

Southern Ocean GLOBEC, Scientific steering committee meeting, discussion of logistics, 8-10 September, 2000.

Southern Ocean GLOBEC, Scientific steering committee meeting, discussion of logistics, 9-10 July, 2001. Washington D.C.

Southern Ocean GLOBEC, Pre-cruise meetings. Punta Arenas Chile, 19 April, 19 July 2001.

Southern Ocean GLOBEC, Pre-cruise meetings. Punta Arenas Chile, 4 April, 29 July 2001

INVITED SEMINARS

Torres, J.J. Effects of temperature and pressure on the relationship of oxygen consumption to swimming speed in Euphausia pacifica. Department of Biology Seminar Series, USF, Tampa, Florida, Spring 1980.

Torres, J.J. Effects of temperature and pressure on the relationship of oxygen consumption to swimming speed in Euphausia pacifica. Harbor Branch Foundation, Fort Pierce, Florida, December 1980.

Torres, J.J. Cost of vertical migration in Euphausia pacifica. Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, May 1982.

Torres, J.J. Metabolism, enzymic activities and cold adaptation of Antarctic mesopelagic fishes. Eckerd College, St. Petersburg, Florida, November 1988

Torres, J.J. "Metabolism, composition, and overwintering strategies of antarctic micronektonic crustacea." Presented 12 May 1993 at the University of Chile, Santiago, Chile. I was invited by the NSF Office of Polar Programs along with four others to present a paper at this meeting.

Torres, JJ "The Antarctic midwater: pelagic life underneath the ice. Seminar presented to the OSU zoology department 10 Oct 1994.

Torres JJ " The Antarctic midwater: pelagic life underneath the ice." Seminar presented at Hatfield Marine Science Center November 1994.

Torres, JJ "Life at the edge: response of intermediate trophic levels to the Antarctic ice edge

bloom.” Seminar to the Oceanography Department at Florida State University, 21 February 1997.

Keynote speaker: 1998 USF Marine Science Graduate Student Symposium “Life at the edge: Response of Intermediate Trophic Levels to the Antarctic Ice Edge Bloom” 24 April 1998.

Torres, JJ “ Life in the Antarctic”. Florida Marine Research Institute of the Florida Wildlife and Conservation Commission. Marine Quest, March 2000.

Torres JJ “ Life in the Dark: the Antarctic in Winter”, Invited seminar, Eckerd College ASPEC group

Torres JJ, Antarctic Ecology, Invited talks at MOSI, Tampa February 6 2002

Torres, J.J. Life in the dark: The Antarctic in winter. USF College of Marine Science Weekly Seminar, 10 January 2003.

Torres, J.J. Life in the dark: The Antarctic in winter. Florida State University Oceanography Department, 28 February 2003.

Torres, J.J. Life in the dark: The Antarctic in winter. Center for Coastal Physical Oceanography, Old Dominion University, 31 March 2003.

Torres J.J. Antarctic Ecology. Spoonbill Bowl, USF. 11 February, 2006.

Torres, J.J. Life in the dark: The Antarctic in winter. University of Florida, Whitney Laboratory, 8 March 2007.

Torres J.J. Pelagic Fauna in the Antarctic. University of Florida, Whitney Laboratory, 8 March 2007.

Torres JJ, Donnelly, J. Pelagic fishes. Predator synthesis workshop, UCSC, 10-11 August, 2007

Torres, JJ. The Deep Sea. Presentation for Oceanography Day at Christ the King School, Norfolk, VA, 23 May 2008. Sponsored by the Center for Coastal Physical Oceanography, Old Dominion University, Norfolk, VA.