

The Dauphin Island Sea Lab
and the University of South Alabama

Faculty Summary- Just Cebrian

1. Background

Date of birth: January 24, 1968

Married: Marian Claramunt. Two children

1.1 Educational History

<u>School</u>	<u>Major</u>	<u>Degree</u>	<u>Date</u>
U. Barcelona	Biology	B.A	1990
U. Perpignan	Oceanology	M.S	1991
U. Politecnica Catalunya	Marine Sciences	Ph. D.	1996

1.2 Professional History Prior to DISL/USA

<u>From - To</u>	<u>Position</u>	<u>Institution</u>
1996-1998	Post-Doctoral Associate	Boston University
1999	Research Assistant Professor	Boston University

1.3 Professional History at DISL/USA

<u>From - To</u>	<u>Position</u>	<u>Institution</u>
2000-2005	Senior Marine Scientist I	DISL
2006-2010	Senior Marine Scientist II	DISL
2010-present	Senior Marine Scientist III	DISL
2000-2005	Assistant Professor	USA
2006-present	Associate Professor	USA
2011-present	Full Professor	USA
2001-present	Adjunct Professor	UA

2. Teaching Activities

2.1 Lectures Delivered in Courses Prior to DISL/USA

<u>Course Description</u>	<u>Semester</u>	<u>Topic</u>
Ecology of Marine Macrophyte (U. Barcelona)	Spring 1994	Seagrasses
Secondary Production (U. Barcelona)	Spring 1996	Herbivory

2.2 Courses Taught Prior to DISL/USA

<u>Course Description</u>	<u>Semester</u>
Seminar in Marine Ecology (Boston U.)-graduate	Spring 1998
Marine Botany (Boston U.)-undergraduate	Fall 1998, 1999
Coastal Eutrophication (UNAM-Mexico)-graduate	Fall 1998

2.3 Undergraduate Courses Taught at DISL/USA

<u>Course Description</u>	<u>Semester</u>
Marine Botany	Summer 2000, 2001, 2002, 2003, 2004- co-taught with Dr. Hugh Macintyre-, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2104, 2015

2.4 Graduate Courses Taught at DISL/USA

<u>Course Description</u>	<u>Semester</u>
Marine Trophic Processes	Spring 2001, Fall 2004, Spring 2008, Spring 2011, Spring 2014, Fall 2016
Graduate seminar	Spring 2002, 2003, 2006, 2012
Anthropogenic Impacts on Marine Ecosystems (overseas)	Fall 2006, 2009, 2011, 2013, 2015

2.5 Contributions to Courses Taught at DISL/USA by other faculty

- Quantitative Methods in Fisheries and Ecology (taught by Sean Powers); invited lecture (Spring 2010)
- Marine Field Science (course in Finland co-taught by Ken Heck and Johanna Mattila; invited lecture (Fall 2014)
- Biological Oceanography (taught by Jeff Krause); invited lecture (Fall 2015)

2.6 Graduate Courses Taught At Other Institutions

<u>Course Description</u>	<u>Location</u>	<u>Date</u>
Ecology of Coastal Systems	U. Mar del Plata (Argentina)	March 2006

2.7 Participation in courses/workshops for high school teachers and environmental managers

<u>Course and activity</u>	<u>Date</u>
COSEE, lecture and field activities on human eutrophication	June 2005
COSEE, presentation to educators and environmental managers: "Restoration of Salt Marsh Ecosystems: Grasses to Classes"	January 2007
COSEE, lecture and field activities on human eutrophication	June 2007
ADEM, Submerged Aquatic Vegetation Workshop, presentation on SAV for managers and regulators	October 2008
ADEM, Submerged Aquatic Vegetation Workshop, presentation on SAV for managers and regulators	October 2009
Reefs, Rhizomes and Restoration workshop for High School teachers at the DHP (DISL)	June 2013
Carbon Market Credits and Conservation Benefits Workshop for landowners and managers	September 2014

2.8 Students mentored (major professor)

<u>Name</u>	<u>Degree</u>	<u>Year</u>	<u>University</u>
Devin Corcoran	B. S- distinction	2000	Boston U.
Adrienne Dusmuir	M. S	2004	USA
Alina Corcoran	M. S	2004	UA
Amy Hunter	Ph.D.	2005	UA
Jason Stutes	Ph.D.	2007	USA
Andrea Anton	M.S.	2007	USA

Kate Sheehan	M.S.	2008	USA
Tami Wells (co-chair)	Ph.D.	2010	USA
Debra Stults (co-chair)	Ph.D.	2011	USA
Bart Christiaen	Ph.D.	2013	USA
Eric Sparks	Ph.D.	2014	USA
Rachel Gamble	M.S.	2014	USA
Shailesh Sharma	Ph.D.	2016	USA
Lei Wang (co-chair)	Ph.D.	in progress	USA
Ashley McDonald	Ph.D.	in progress	USA
Caitlin Wessel	Ph.D.	in progress	USA
Aaron Macy	Ph.D.	in progress	USA
Laura West	Ph.D.	in progress	USA
Jamie Amato	M.S.	in progress	USA

2.9 Participation in student committees

<u>Name</u>	<u>Degree</u>	<u>Year</u>	<u>University</u>
Allison D'Ambrosio	M.S	1999	Boston U.
Julia Ochoa	M.S	1999	UNAM (Mexico)
Alina Evegnidou	M.S	2000	Boston U.
Heather Albright	M.S	2001	USA
Julien Lartigue	Ph.D.	2003	USA
Carolanne Russell	M.S	2004	USA
Thad Murdoch	Ph.D.	2007	USA
Boon Harada	Ph.D.	2007	USA
Danny Husband	Ph.D.	2007	USA
Rochelle Plutchak	M.S	2007	USA
Melissa Prats	M.S.	2008	USM
Lesley Baggett	Ph.D.	2010	USA
Daniel Grigas	M.S	2012	UAPB
Yolanda Fernandez	Ph.D.	2012	University of Alicante (Spain)
Adam Constantin	M.S	2015	UA
Candela Marco	Ph.D.	2015	University of Alicante (Spain)
Beth Condon	Ph.D.	2015	USA
Whitney Scheffel	M.S	2015	USA
Sara Martin	M.S	2016	UA

Allen Aven	Ph.D.	in progress	USA
Lauren Hutchinson	Ph.D.	in progress	TAMUCC

2.10 Ph. D. External Examiner

External examiner for Ph.D. candidate Napo Cayabyab, The University of Western Australia; Dissertation title: “Tropical seagrasses in extreme macrotidal environments: Understanding the ecological processes of intertidal seagrasses in the Kimberley region Of northwestern Australia” Major Professors: R. Lowe and G. Kendrick

2.11 Internships

<u>Name</u>	<u>Program</u>	<u>Year</u>
Glenn Miller	REU (NSF)	2000
Todd Clardy	REU (NSF)	2001
Craig Newton	USA undergrad	2001, 2002
Beth Klees	Exxon intern	2002
David Fishbein	Bayside Academy	2002, 2003
Reid Carter	Bayside Academy	2003
Chris Legget	Bayside Academy	2003
Dustin Addis	REU (NSF)	2003
Nicole Morris	REU (NSF)	2003
Amy Adcox	REU (NSF)	2004
Kelsey Pickard	REU (NSF)	2006
Nate Lemoine	Exxon Intern	2007
Jennifer Himmelstein	REU (NSF)	2007
Matthew Merrill	Wesleyan Christian	2008
Sybil Glenos	Auburn University	2008
Ashley McDonald	U. North Alabama	2008
Loren Marino	U. A. Huntsville	2008, 2009
Lynn Moore	U. South Alabama	2008, 2009
Christina Rarick	Coastal Carolina University	2009
Amber Schat	UC Santa Cruz	2009
Andrew Kiene	Auburn University	2009
Rachel Gamble	Samford University	2009
Kellen Watson	Randolph College	2009, 2010

Joan Mitchell	U. West Alabama	2010
Jason Howard	Drexel University	2010
Amanda Pratt	REU (NSF)	2010
Lindsay Biermann	Northwest Missouri State	2010
Katherine Hovanes	University of Montevallo	2010
Amy Langston	Auburn University	2010
Katherine Phillips	Metropolitan State College	2010
Sara Kerner	Northwest Missouri State	2010, 2011
Jennifer Hemphill	Florida Institute of Technology	2011
Jelani Reynolds	Florida Institute of Technology	2011
Lauren Schumacher	Florida Institute of Technology	2011
Matt Metcalf	Auburn University	2011
Ainhoa Barbeira	Universidad Autónoma de Madrid	2011
Sara Glover	Fairhope High School	2011
Justin McDonald	Troy University	2011
Jessica Gulbranson	Florida Institute of Technology	2011
Aaron Macy	Florida Institute of Technology	2012
Beth Tuttle	Fairhope High School/University of Alabama at Birmingham	2012, 2013 2014, 2015
Magie Cooper	Bayside Academy	2012
Mat Murray	University of Alabama	2012
Abby Lunstrum	University of Washington	2013
Josh Hulsey	Jacksonville State University	2013, 2014
Juan Miguel Ferrero	University of Alicante	2014, 2015
Elijah Waddell	Oregon State University	2014, 2015
Hannah Ehrmann	Gettysburg College	2015
Griffin Williams	Rhodes College	2015
Pau Sanchez	Torrellano High School (Spain)	2015
Kevin Travis	University of Tampa	2015
Madison McBarnes	REU (NSF)	2015
Lauren Willis	University of Alabama	2015, 2016
Theresa Gruninger	Bowling Green State University	2016
Nate Snyder	Coastal Carolina University	2016
Guillermo Martin	University of Alicante	2016

2.12 Visiting researchers

<u>Name</u>	<u>Institution</u>	<u>Year</u>
Mauricio Escapa	U. Mar Plata (Argentina)	2004
Peter Macreadie	U. Technology (Sydney)	2012
Stacey Trevathan-Tackett	U. Technology (Sydney)	2013
Lauren Hutchinson	TAMUCC	2014

2.13 Post-docs

<u>Name</u>	<u>Institution</u>	<u>Year</u>
Celine Lafabrie	University of Corsica	2007-2009
Yushun Chen	West Virginia University	2009
Ryan Moody	U. of South Alabama	2009-2012
Glenn Miller	U. of South Alabama	2011-2012
Diana Montemayor	U. Mar del Plata	2013
Erin Cox	U. of Hawai'i-Mānoa	2016

2.14 Other personnel in Cebrian's lab

<u>Name</u>	<u>Position</u>	<u>Year</u>
Mairi E. Miller	Technician	2004
David Patterson	Technician	2004
Kate Sheehan	Technician	2005-2007
Josh Goff	Technician	2005-2008
Josh Goff	Lab Manager	2008-present
Lynn Moore	Technician	2009-2011
Jenessa Kay	Technician	2011

2.15 High School Students Mentored for Senior Project

Shepsu Ta-Neter	Davidson High School	2016
-----------------	----------------------	------

2.16 Faculty mentored

Faculty mentor for Jeff Krause, Assistant Professor at USA and Senior Marine Scientist I at DISL

3. Research Bibliography

3.1 Refereed publications

Duarte, C. M., J. Cebrián and N. Marbà. 1992. Global change in the marine environment: the life-history of long-term monitoring programmes in Europe. *Nature* 356: 190.

Marbà, N., J. Cebrián, S. Enríquez and C. M. Duarte. 1994. Migration of large-scale subaqueous bedforms measured with seagrasses (*Cymodocea nodosa*) as tracers. *Limnol. Oceanogr.* 39: 126-133.

Cebrián, J. and C. M. Duarte. 1994. The dependence of herbivory on growth rate in natural plant communities. *Funct. Ecol.* 8: 518-525

Duarte, C. M., N. Marbà, N. Agawin, J. Cebrián, S. Enríquez, M. Fortes, M.E. Gallegos, M. Merino, B. Olesen, K. Sand-Jensen, J. Uri and J. Vermaat. 1994. Reconstruction of seagrass dynamics: age determinations and associated tools for the seagrass ecologist. *Mar. Ecol. Prog. Ser.* 107: 195-209.

Cebrián, J., N. Marbà and C. M. Duarte. 1994. Estimating leaf age of the seagrass *Posidonia oceanica* (L.) Delile using the plastochrone interval index. *Aquat. Bot.* 49: 59-65.

Cebrián J. and C. M. Duarte. 1995. Introduccion a las tecnicas de analisis de series temporales. In: "Variabilidad Espacio-temporal y procesos caóticos en ciencias medioambientales" J.J. Ibáñez and C. Machado (Eds). Geoforma. Zaragoza. Spain. pp. 17-29.

Cebrián J. and C. M. Duarte. 1995. Algunos ejemplos de aplicaciones del analisis temporal a la ecologia marina. In: "Variabilidad Espacio-temporal y procesos caóticos en ciencias medioambientales" J.J. Ibáñez and C. Machado (Eds). Geoforma. Zaragoza. Spain pp. 145-163.

Cebrián, J. and C. M. Duarte. 1995. Plant growth-rate dependence of detrital carbon storage in ecosystems. *Science* 268: 1606-1608.

N. Marbà, J. Cebrián, S. Enríquez and C. M. Duarte. 1996. Growth patterns of Western Mediterranean seagrasses: Species-specific responses to seasonal forcing. *Mar. Ecol. Progr. Ser.* 133: 203-215.

Cebrián, J., C. M. Duarte, N. Marbà, S. Enríquez, M. Gallegos and B. Olesen. 1996. Herbivory on *Posidonia oceanica* (L.) Delile: magnitude and variability in the Spanish Mediterranean. *Mar. Ecol. Progr. Ser.* 130: 147-155.

Cebrián, J., C. M. Duarte and J. Pascual. 1996. Marine Climate in the Costa Brava (NW Mediterranean) littoral. *Publ. Espec. Inst. Esp. Oceanogr.* 22: 9-21.

Mura, M. P., S. Agustí, J. Cebrián and M. P. Satta. 1996. Seasonal variability of phytoplankton biomass and community composition off Blanes Bay. *Publ. Espec. Inst. Esp. Oceanogr.* 22: 23-29.

- Marbà, N., Duarte, C. M., Cebrián, J., Gallegos, M., Olesen, B., Sand-Jensen, K. 1996. Growth and population dynamics of *Posidonia oceanica* in the Spanish Mediterranean coast: elucidating seagrass decline. Mar. Ecol. Prog. Ser. 137: 203-213
- Cebrián, J., N. Marbà and C. M. Duarte. 1996. Herbivory on *Cymodocea nodosa* (Ucria) Ascherson in contrasting Spanish Mediterranean habitats. J. Exp. Mar. Biol. Ecol. 204: 103-111
- Duarte, C. M. and J. Cebrián. 1996. The fate of autotrophic production in the sea. Limnol. Oceanogr. 41: 1758-1766.
- Cebrián, J., C. M. Duarte, N. Marbà and S. Enríquez. 1997. The magnitude and fate of production of four co-occurring Western Mediterranean seagrass species. Mar. Ecol. Progr. Ser. 155 : 29-44
- Pedersen, M. F., C. M. Duarte and J. Cebrián. 1997. The rate of changes in organic matter and nutrient stocks during seagrass (*Cymodocea nodosa*) colonization and stand development. Mar. Ecol. Progr. Ser. 159: 29-36
- Kinlan, B., E. Duffy, J. Cebrián, J. Hauxwell and I. Valiela. 1997. Control of periphyton on *Zostera marina* by the eastern mudsnail (*Ilyanassa obsoleta*) in a shallow temperate system. Biol. Bull. 193: 286-287
- Cebrián, J., N. Agawin, C. M Duarte and M. Merino. 1998. Leaf growth response to simulated herbivory: a comparison among seagrass species. J. Exp. Mar. Biol. Ecol. 220: 67-81
- Cebrián, J. and C. M. Duarte. 1998. Patterns in leaf herbivory on seagrasses. Aquat. Bot. 60: 67-82.
- Graham, S., Davis, J., Deegan, L., Cebrian, J., Hughes, J. and Hauxwell, J. 1998. The Effect of Eelgrass (*Zostera marina*) Density on the Feeding Efficiency of Mummichog (*Fundulus heteroclitus*). Biol. Bull. 195: 241-243.
- Griffin, M. P. A., Cole, M. L., Kroeger, K. D. and Cebrian, J. 1998. Dependence of Herbivory on Autotrophic Nitrogen Content and on Net Primary Production across Ecosystems. Biol. Bull. 195: 233-234
- Cebrián, J., M. Williams, J. MacClelland and I. Valiela. 1998. The dependence of heterotrophy and carbon accumulation on autotrophic nutrient concentration in ecosystems. Ecology Letters 1:165-170.
- Cebrián, J. Enríquez, S., Agawin, N., Duarte, C.M., Fortes, M. and Vermaat, J. 1999. Epiphyte accrual on *Posidonia oceanica* (L.) Delile leaves: implications on light absorption. Bot. Mar. 42: 123-128.
- Cebrián, J. and I. Valiela. 1999. Seasonal patterns in phytoplankton biomass in coastal ecosystems. J. Plankton Res. 21: 429-444
- Cebrián J. 1999. Patterns in the fate of production in plant communities. Am. Nat. 154: 449-468.

Evgenidou A., Konkle A., D'Ambrosio A., Corcoran A., Bowen J., Brown E., Corcoran D., Dearholt C., Fern S., Lamb A., Michalowsky J., Ruegg I and Cebrian J. 1999. Effects of Increased Nitrogen Loading on the relative abundance of diatoms and dinoflagellates in estuaries. *Biol. Bull.* 197: 292-294

Valiela, I., G. Tomasky, J. Hauxwell, M. L. Cole, J. Cebrian and K. D. Kroeger. 2000. Operationalizing sustainability: Management and risk assessment of land-derived nitrogen loads to estuaries. *Ecol. Appl.* 10(4): 1006-1023.

Cebrian, J., M. F. Pedersen, K. D. Kroeger and I. Valiela (2000). Fate of seagrass *Cymodocea nodosa* (*Ucria*) *Ascherson* production across a process of meadow formation *Mar. Ecol. Progr. Ser.* 204: 119-130

Valiela I., Cole M. L, McClelland J., Hauxwell J, Cebrian J. and Joye S (2000) Role of Salt Marshes as Part of Coastal Landscapes, In: Weinstein, Michael P. and Daniel A Kreeger, (eds.) "Concepts and Controversies in Tidal Marsh Ecology", Kluwer Academic Publishers, Dordrecht, The Netherlands. Pp. 23-38.

Hauxwell, J., J. Cebrian, C. Furlong, and I. Valiela. 2001. Macroalgal canopies contribute to eelgrass (*Zostera marina*) decline in temperate estuarine ecosystems. *Ecology* 82: 1007-1022.

Hauxwell J., Cebrian J., Herrera-Silveira J. A., Ramirez J., Zaldivar A., Gomez N., Aranda-Cirerol N. (2001) Measuring production of *Halodule wrightii* *Ascherson*: additional evidence suggests clipping underestimates growth rate. *Aquat. Bot.* 69: 41-54.

Havens, K. E., Hauxwell, J., Tyler, A. C., Thomas, S., McGlathery, K. J., Cebrian, J., Valiela, I., Steinman, A. D., Hwang, S. 2001. Complex interactions between autotrophs in shallow marine and freshwater ecosystems: implications for community responses to nutrient stress. *Environ. Poll.* 113: 95-107.

Cebrian, J. and C. M. Duarte. (2001) Detrital stocks and dynamics of the seagrass *Posidonia oceanica* (L.) *Delile* in the Spanish Mediterranean. *Aquat. Bot.* 70: 295-309.

Cebrian, J. (2002). Variability and control of carbon consumption, export, and accumulation in marine communities. *Limnol. Oceanogr.* 47: 11-22.

Hauxwell, J., J. Cebrian, and I. Valiela. 2003. Eelgrass *Zostera marina* loss in temperate estuaries: relationship to land-derived nitrogen loads and effect of light limitation imposed by algae. *Mar. Ecol. Progr. Ser.* 247:59-73

Lartigue, J., A. Neill, B. L. Hayden, J. Pulfer and J. Cebrian. 2003. The impact of salinity fluctuations on net oxygen production and inorganic nitrogen uptake by *Ulva lactuca* (Chlorophyceae). *Aquat. Bot.* 75: 339-350.

Lartigue, J., F. Fontanella, J. Cebrian, and S. Arbaczauskas. 2003. Evidence that ultraviolet radiation may depress short-term photosynthetic rates of intertidal *Ulva lactuca* and consumption by a

generalist feeder (*Clibanarius vittatus*). *Gulf of Mexico Science* 21(1):71-78.

Cole, M. L., I. Valiela, K. D. Kroeger, B. Fry, G. L. Tomasky, J. Cebrian, C. Wigand, R. A. McKinney, S. P. Grady and M. E. Carvalho-Silva. 2004.

Assessment of a $\delta^{15}\text{N}$ isotopic method to indicate anthropogenic eutrophication in aquatic ecosystems. *Journal of Environmental Quality* 33:124-132.

Cebrian, J. and J. Lartigue. 2004. Patterns of herbivory and decomposition in aquatic and terrestrial ecosystems. *Ecological Monographs* 74: 237-259

Cebrian, J. 2004. Role of first-order consumers in ecosystem carbon flow. *Ecology Letters* 7: 232-240

Enrquez S, Marb N, Cebrin J. and C. M. Duarte. 2004. Annual variation in leaf photosynthesis and leaf nutrient content of four Mediterranean seagrasses. *Botanica Marina* 47: 295-306

Cebrian, J. 2004: Grazing on benthic primary producers. In: S.L. Nielsen, G.T. Banta & M.F. Pedersen (eds.): *Estuarine nutrient cycling: the influence of primary producers*. Kluwer Academic Publishers, Dordrecht, Boston, London, pp. 153-185.

Pergent-Martini, C., V. Leoni, V. Pasqualini, G. D. Ardizzone, E. Balestri, R. Bedini, A. Belluscio, T. Belsher, J. Borg, C. F. Boudouresque, S. Boumaza, J. M. Bouquegneau, M. C. Buia, S. Calvo, J. Cebrian, E. Charbonnel, F. Cinelli, A. Cossu, G. Di Maida, B. Dural, P. Francour, S. Gobert, G. Lepoint, A. Meinesz, H. Molenaar, H. M. Mansour, P. Panayotidis, A. Peirano, G. Pergent, L. Piazzini, M. Pirrotta, G. Relini, J. Romero, J. L. Sanchez-Lisazo, R. Semroud, P. Shembri, A. Shili, A. Tomasello and B. Velimirov. 2005. Descriptors of *Posidonia oceanica* meadows: Use and application. *Ecological Indicators* 5 (3): 213-230.

Mateo, M. A., Cebrian, J., Dunton, K. and Mutchler, T. 2006 Carbon flux in seagrass ecosystems. In: Larkum, A.W.D., Orth, R. J. and Duarte, C. M. (eds). *Seagrasses: Biology, Ecology and Conservation*. Springer, New York, pp. 159-192

Hauxwell, J., J. Cebrian and I. Valiela. 2006 Light dependence of *Zostera marina* annual growth dynamics in estuaries subject to different degrees of eutrophication. *Aquatic Botany* 84: 17-25

Stutes, A. L., J. Cebrian and A. A. Corcoran. 2006. Effects of nutrient enrichment and shading on sediment primary production and metabolism in eutrophic estuaries. *Mar. Ecol. Prog. Ser.* 312: 29-43.

Stutes, J. P., J. Cebrian, A. L. Stutes, A. Hunter and A. A. Corcoran. 2007. Benthic metabolism across a gradient of anthropogenic impact in three shallow coastal lagoons in NW Florida. *Mar. Ecol. Progr. Ser.* 348: 55-70.

Thomas, S. and J. Cebrian. 2008 *Ecological Stoichiometry: Ecosystem Patterns and Processes*. In: S. J. Erikson (ed.), *Encyclopedia of Ecology*. Elsevier, Oxford, UK. Pp: 1139-1148

- Cebrian, J., C. D. Foster, R. Plutchak, K. Sheehan, A. Anton, M. Miller, K. Major, K. Heck and S. P. Powers. 2008 The impact of Hurricane Ivan on the primary productivity and metabolism of marsh tidal creeks. *Aquat. Ecol.* 42:391-404
- Hunter, A., N. M. B. Morris , C. Lafabrie and J. Cebrian. (corresponding author) 2008. Effects of nutrient enrichment on *Distichlis spicata* and *Salicornia bigelovii* in a marsh salt pan. *Wetlands* 28: 760-775.
- Harada, H., M. Vila, J. Cebrian and R. Kiene. 2009. Effects of UV radiation and nitrate limitation on the production of biogenic sulfur compounds by marine phytoplankton. *Aquat. Bot.* 90:37-42.
- Cebrian, J. , G. A. Miller, J. P. Stutes, A. L. Stutes, M. Miller and K. Sheehan. 2009. A comparison of fish populations in shallow coastal lagoons with contrasting shoalgrass (*Halodule wrightii*) cover in the North Central Gulf of Mexico. *Gulf and Caribbean Research* 21: 57-61
- Cebrian, J., Corcoran A. A., A. L. Stutes, J. P. Stutes and J. Pennock. 2009. Effects of ultraviolet-B radiation and nutrient enrichment on the productivity of benthic microalgae in shallow coastal lagoons of the North Central Gulf of Mexico. *Journal of Experimental Marine Biology and Ecology* 372: 9–21
- Cebrian J, Shurin JB, Borer ET, Cardinale BJ, Ngai JT, Smith MD, Fagan WF (2009) Producer Nutritional Quality Controls Ecosystem Trophic Structure. *PLoS ONE* 4(3):e4929. doi:10.1371/journal.pone.0004929 (selected as a “must-read”-impact index of 6- by Faculty Of 1000 Biology)
- Lartigue, J. and J. Cebrian. 2009. Ecosystem productivity and carbon flows (general principles and patterns). In: S. Levin (ed.), *Princeton Guide to Ecology*, Princeton University Press, Princeton, US, pp. 320-329.
- Geraldi, N. R., S. P. Powers, K. L. Heck and J. Cebrian. 2009 Can habitat restoration be redundant? Response of mobile fishes and crustaceans to oyster reef restoration in marsh tidal creeks. *Mar. Ecol. Prog. Ser.* 389: 171-180.
- Hillebrand, H., E. T. Borer, M. E. S. Bracken, B. J. Cardinale, J. Cebrian, E. Cleland, J. J. Elser, D. S. Gruner, W. S. Harpole, J. T. Ngai, S. Sandin, E. W. Seabloom, J. B. Shurin, J. E. Smith and M. D. Smith. 2009. Herbivory metabolism and stoichiometry each constrain herbivory at different organizational scales across ecosystems *Ecology Letters* 12: 516-527.
- Anton, A., J. Cebrian, K. Heck, C. M. Duarte and J. Goff. 2009 Low impact of Hurricane Katrina on seagrass community structure and functioning in the Northern Gulf of Mexico. *Bulletin of Marine Science* 85: 45-59 (selected as the “feature” article in the July 2009 issue)
- Herrera-Silveira, J. A., J. Cebrian, J. Hauxwell, J. Ramirez and P. Ralph. 2010. Evidence of negative impacts of ecological tourism on turtlegrass (*Thalassia testudinum*) beds in a marine protected area of the Mexican Caribbean. *Aquatic Ecology* 44: 23-31

- Lehrter, J. C. and J. Cebrian. 2010 Uncertainty propagation in an ecosystem nutrient budget. *Ecological Applications* 20: 508-524 (awarded with a EPA 2011 Level II STAA Award; see the announcement at <http://epa.gov/ncer/staa/annual/2011/2011level2.html>)
- Plutchak, R. R., K. Major, J. Cebrian, C. D Foster, M. E. Miller, A. Anton, K. L. Sheehan, K. L. Heck and S. P. Powers. 2010. Impacts of Oyster Reef Restoration on Primary Productivity and Nutrient Dynamics in Tidal Creeks of the North Central Gulf of Mexico. *Estuaries and Coasts* 33: 1355-1364.
- Canepuccia, A. D., J. Alberti, J. Pascual, G. Alvarez, J. Cebrian and O. O. Iribarne. 2010. ENSO episodes modify plant-terrestrial herbivore interactions in a Southwestern Atlantic salt marsh. *Journal of Experimental Marine Biology and Ecology* 396: 42-47.
- Lafabrie, C., K. Major, C. S. Major and J. Cebrian. 2011 Arsenic and mercury bioaccumulation in the aquatic plant *Vallisneria americana*. *Chemosphere* 82: 1393-1400.
- Anton, A., J. Cebrian, K. Heck, C. M. Duarte, K. L. Sheehan, M. Miller and C. D. Foster. 2011. Decoupled effects (positive to negative) of nutrient enrichment on ecosystem services. *Ecological Applications* 21: 991-1009
- Lafabrie, C., K. Major, C. S. Major, M. Miller and J. Cebrian. 2011 Comparison of morphology and photo-physiology with metal/metalloid contamination in *Vallisneria neotropicalis*. *Journal of Hazardous Materials* 191: 356-365
- Alberti, J., J. Cebrian, A. Mendez-Casariago, A. Canepuccia, M. Escapa and O. Iribarne. 2011. Effects of nutrient enrichment and crab herbivory on a SW Atlantic salt marsh productivity. *Journal of Experimental Biology and Ecology* 405: 99-104
- Sheehan, K. L., J. O'Brien, K. Lafferty and J. Cebrian. 2011. Parasite Distribution, Prevalence, and Assemblages of the Grass Shrimp, *Palaemonetes pugio* in Southwestern Alabama, U.S.A. *Comparative Parasitology* 78 (2): 245-256
- Ferrero-Vicente, L. M., E. Martinez-Garcia, J. Cebrian, K. L. Heck, B. Christiaen and J. L. Sanchez-Lizaso. 2011. Comparison of macrobenthic assemblages in shallow coastal lagoons (NW Florida) with different level of anthropogenic impact. *Gulf of Mexico Science* 29 (1): 68-73.
- Marco-Mendez, C., P. Prado, K. Heck, J. Cebrian and J. L. Sanchez-Lizaso. 2012 Epiphytes mediate the trophic role of sea urchins in *Thalassia testudinum* seagrass beds. *Marine Ecology Progress Series* 460: 91-100.
- Prado, P., R. H. Carmichael, S. A. Watts, J. Cebrian and K. L. Heck. 2012. Diet-dependent $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ fractionation among sea urchin (*Lytechinus variegatus*) tissues: implications for food web models. *Marine Ecology Progress Series* 462: 175-190
- Cebrian, J., A. L. Stutes, S. Phipps, J. P. Stutes, B. Christiaen and J. R. Pennock. 2012. Effects of short-term sediment nutrient enrichment and grazer (*Neritina*

reclivata) removal on sediment microalgae in a shallow eutrophic estuary (Weeks Bay, Alabama, USA). *International Journal of Tropical Biology* 60: 1687-1706.

Gacia, E., N. Marba, J. Cebrian, R. Vaquer-Sunyer, N. Garcias-Bonet and C. M. Duarte. 2012 Thresholds of irradiance for seagrass (*Posidonia oceanica*) meadow metabolism. *Marine Ecology Progress Series* 466: 69-79.

Cebrian, J., J. P. Stutes, and B. Christiaen. 2013. Effects of grazing and fertilization on epiphyte growth dynamics under moderately eutrophic conditions: implications for grazing rate estimates. *Marine Ecology Progress Series* 474: 121-133

Prado, P., K. L. Heck, S. A. Watts and J. Cebrian. 2013 $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ signatures from sea urchin skeleton: importance of diet type in metabolic contributions. *Marine Ecology Progress Series* 476: 153-166

Sparks, E. L., J. Cebrian, P. D. Biber, K. L. Sheehan and C. R. Tobias. 2013. Cost-effectiveness of two small-scale salt marsh restoration designs. *Ecological Engineering* 53: 250-256

Moody, R. M., J. Cebrian and K. Heck. 2013. Interannual recruitment dynamics for resident and transient marsh species: evidence for a lack of impact by the Macondo oil spill *PLoS ONE* 8(3): e58376. doi:10.1371/journal.pone.0058376

Lafabrie, C., K. Major, S. Major and J. Cebrian. 2013. Trace metal contamination of the aquatic plant *Hydrilla verticillata* and associated sediment in a coastal Alabama creek (Gulf of Mexico-USA). *Marine Pollution Bulletin* 68: 147-151.

Moody, R. M., J. Cebrian, S. M. Kerner, K. L. Heck, S. P. Powers and C. Ferraro. 2013. Effects of shoreline erosion on salt-marsh floral zonation. *Marine Ecology Progress Series* 488: 145-155

Borer, E. T., M. E. S., E. W. Seabloom, J. E. Smith, J. Cebrian, E. E. Cleland, J. J. Elser, W. F. Fagan, D. S. Gruner, W. S. Harpole, H. Hillebrand, A. J. Kerkoff, and J. T. Ngai. 2013 Global biogeography of autotroph chemistry: is insolation a driving force? *Oikos* 122: 1121-1130 (Editor's Choice)

Christiaen, B., A. McDonald, J. Cebrian and A. Ortmann. 2013. Response of the microbial community to environmental change during seagrass transplantation. *Aquatic Botany* 109: 31-38

Mata, J. L. and J. Cebrian. 2013. Fungal endophytes of the seagrasses *Halodule wrightii* and *Thalassia testudinum* in the north-central Gulf of Mexico. *Botanica Marina* 56: 541-545

Scheffel, W. A., K. L. Heck, J. Cebrian, M. Johnson and D. Byron. 2013. Range expansion of black mangroves (*Avicennia germinans*) to the Mississippi barrier islands. *Gulf of Mexico Science* XXXI: 79-82

Cebrian, J., D. Corcoran, and J. Lartigue 2014. Eutrophication-driven shifts in primary producers in shallow coastal systems: implications for system functional

change. *Estuaries and Coasts* 37 (Suppl 1): S180-S197

Christiaen, B., R. Bernard, B. Mortazavi, J. Cebrian and A. C. Ortmann. 2014. The degree of urbanization across the globe is not reflected in the $\delta^{15}\text{N}$ of seagrass leaves. *Marine Pollution Bulletin* 83: 440-445

Steele, L., K. M. Darnell, J. Cebrian and J. L. Sanchez-Lizaso 2014. Spatial and temporal variability in *Sarpa salpa* herbivory on shallow reaches of *Posidonia oceanica* beds. *Animal Biodiversity and Conservation* 37.1: 49-57

Sparks, E. L., J. Cebrian and S. M. Smith. 2014. Removal of fast flowing nitrogen from marshes restored in sandy soils. *PLoS ONE* 9(10): e111456.
doi:10.1371/journal.pone.0111456

Prado, P., K. Heck and J. Cebrian. 2014. Moderate stoichiometric homeostasis in the sea urchin *Lytechinus variegatus*: effects of diet and growth on C:N:P ratios. *Marine Biology* 161: 2869-2883

Garrote-Moreno, A., A. McDonald, T. D. Sherman, J. L. Sanchez-Lizaso, K. L. Heck and J. Cebrian. 2014 Short-term impacts of salinity pulses on ionic ratios of the seagrasses *Thalassia testudinum* and *Halodule wrightii*. *Aquatic Botany* 120: 315-321

Sparks, E. L. and J. Cebrian. 2015. Effects of fertilization on grasshopper grazing of Northern Gulf of Mexico salt marshes. *Estuaries and Coasts* 38: 988-999

Sparks, E. L., J. Cebrian, C. R. Tobias and C. May. 2015. Groundwater nitrogen processing in Northern Gulf of Mexico restored marshes. *Journal of Environmental Management* 150: 206-215

Marco-Mendez, C., L. M. Ferrero-Vicente, P. Prado, K. L. Heck, J. Cebrian and J. L. Sanchez-Lizaso. 2015. Epiphyte presence and seagrass species identity influence rates of herbivory in Mediterranean seagrass meadows. *Estuarine Shelf and Coastal Science* 154: 94-101

Bracken, M. E. S, H. Hillebrand, E. T. Borer, E. W. Seabloom, J. Cebrian, E. E. Cleland, J. J. Elser, D. S. Gruner, W. S. Harpole, J. T. Ngai, and J. E. Smith. 2015 Signatures of nutrient limitation and co-limitation: responses of autotroph internal nutrient concentrations to nitrogen and phosphorus additions (selected as Editor's Choice) *Oikos* 124: 113-121

Hunter, A., J. Cebrian, J. P. Stutes, D. Patterson, B. Christiaen, C. Lafabrie and J. Goff. 2015 Magnitude and trophic fate of black needlerush (*Juncus roemerianus*) productivity: does nutrient addition matter? *Wetlands* 35: 401-417 (corresponding author)

Cebrian, J. 2015. Individuals scale up carbon flow in ecosystems. 2015. Proceedings of the National Academy of Sciences of the United States of America 112 (8): 2303-2304

Schrandt, M. N., J. Cebrian, E. S. Darrow, D. J. Dalrymple, C. Marco-Mendez, L. M. Ferrero, K. L. Heck and J. L. Sanchez Lizaso. 2015. Evidence of short-term burial response by benthic macrofauna associated with the Mediterranean seagrass *Cymodocea nodosa* Ciencias Marinas 41(1): 33-47

Sparks, E. L. and J. Cebrian. 2015 Does bird removal affect grasshopper grazing on *Juncus roemerianus* (black needlerush) marshes? Wetlands Ecology and Management 23: 1083-1089

Cebrian, J. 2015. Energy flows in ecosystems. Science 349 (6252): 1053-1054

Cherry, J. A., G. S. Ramseur, E. L. Sparks and J. Cebrian. 2015. Testing sea-level rise impacts in tidal wetlands: a novel in situ approach. Methods in Ecology and Evolution 6: 1443-1451

Grigas, D., J. Lehrter, J. Cebrian, Y. Chen, B. Ehmen and M. Woodrey. 2015. Effects of stormwater pipe size and rainfall on sediment and nutrients delivered to a coastal bayou. Water Environment Research 87 (9): 796-804

McDonald, R. B., R. M. Moody, K. L. Heck and J. Cebrian. 2016. Fish, macroinvertebrate and epifaunal communities in shallow coastal lagoons with varying seagrass cover of the northern Gulf of Mexico. Estuaries and Coasts 39: 718-730

Sharma, S., J. Goff, J. Cebrian and C. Ferraro. 2016. A Hybrid Shoreline Stabilization Technique: Impact of Modified Intertidal Reefs on Marsh Expansion and Nekton Habitat in the Northern Gulf of Mexico. Ecological Engineering 90: 352-360

Sharma, S., J. Goff, R. Moody, A. McDonald, D. Byron, K. L. Heck, S. P. Powers, C. Ferraro and J. Cebrian. 2016. Do restored oyster reefs benefit seagrasses? An experimental study in the Northern Gulf of Mexico. Restoration Ecology 24: 306-313

Ajemian, M. J., M. D. Kenworthy, J. L. Sanchez Lizaso and J. Cebrian. 2016. Aggregation dynamics and foraging behavior of striped red mullet *Mullus surmuletus* in the Western Mediterranean Sea. Journal of Fish Biology 88: 2051-2059

McDonald, A., P. Prado, K. Heck, J. W. Fourqurean, T. A. Frankovich, K. H. Dunton and J. Cebrian. 2016. Seagrass growth, reproductive and morphological plasticity across environmental gradients over a large spatial scale. Aquatic Botany 134: 87-96

Wessel, C., D. Battiste, G. Lockridge and J. Cebrian. 2016. Abundance and characteristics of microplastics in beach sediments: Insights into microplastic accumulation in northern Gulf of Mexico estuaries. *Marine Pollution Bulletin* 109: 178-183

Thompson, J. L., A. Kaiser, E. L. Sparks, M. Shelton, E. Brunden, J. A. Cherry and J. Cebrian. 2016. Ecosystem – What? Public Understanding and Trust in Conservation Science and Ecosystem Services. *Frontiers in Communication*. 1:3.doi: 10.3389/fcomm.2016.00003

Sharma, S., J. Goff, R. Moody, A. McDonald, D. Byron, K. L. Heck, S. P. Powers, C. Ferraro and J. Cebrian. 2016 Effects of Shoreline Dynamics on Saltmarsh Vegetation PLoS ONE <http://dx.doi.org/10.1371/journal.pone.0159814>

Christiaen, B., J. C. Lehrter, J. Goff and J. Cebrian. 2016. Functional implications of changes in seagrass species composition in two shallow coastal lagoons. *Marine Ecology Progress Series* 557: 111-121

Heck, K. L., J. Cebrian, S. P. Powers, N. Geraldi, R. Plutchak, D. Byron and K. Major. Ecosystem Services Provided by Shoreline Reefs in the Gulf of Mexico: An Experimental Assessment Using Live Oysters. In: “Shorelines: Living, Enhanced, and Restored in the Modern Era”, M. J. Kennish and J. S. Weis (eds), CRC Press/Taylor & Francis Group (In Press)

Marco-Mendez, C., C. Wessel, W. Scheffel, L. Ferrero-Vicente, Y. Fernandez-Torquemada, J. Cebrian, K. L. Heck and J. L. Sanchez-Lizaso. 2017. Lack of impact of *Posidonia oceanica* leaf nutrient enrichment on *Sarpa salpa* herbivory: additional evidence for the generalist consumer behavior of this cornerstone Mediterranean herbivore. PLoS ONE (In Press)

Montemayor, D., E. Sparks, J. Cebrian and O. Iribarne. 2017. Influence of grasshopper herbivory on nitrogen recycling in Northern Gulf of Mexico black needlerush salt marshes. *Estuaries and Coasts* (In Press)

Webb, B., J. Cebrian, S. Sharma and S. Powers. 2017. Living Shorelines in the Gulf of Mexico. In: Webb, DeBerry and Hardway (eds.) *Living Shorelines: Design Principles of Ecology and Engineering*. J. Ross Publishing

Alberti, J., J. Cebrian, F. Alvarez, M. Escapa, K. S. Esquius, E. Fanjul, E. Sparks, B. Mortazavi and O. Iribarne. Bottom-up and top-down alterations cause uncoupled changes in producer biomass and ecosystem function, but not in overall multifunctionality (Scientific Reports)

3.2 Submitted manuscripts

Siikamaki, J., A. Krupnick, C. Carollo, D. Yoskowitz, J. Cebrian, E. Sparks and J. Pollack. Valuation of Gulf of Mexico Coastal Ecosystems: A Five-State Choice Experiment (Resource and Energy Economics)

Chen, Y., J. Cebrian, J. Lehrter, B. Christiaen, J. Stutes and J. Goff. Storm effects on coastal water quality across a gradient of coastal development: do storms alter the long-term imprint of increased development? (Estuarine Coastal and Shelf Science)

Hutchison, L., A. Macy, J. Cebrian and D. Yoskowitz. Magnitude and variability of wetland carbon standing stocks in the Northern Gulf of Mexico (Wetlands Ecology and Management)

Macy, A., S. Sharma, E. Sparks, J. Goff, K. Heck, M. W. Johnson, P. Harper and J. Cebrian. Functional characteristics of cordgrass (*Spartina alterniflora*) and black mangrove (*Avicennia germinans*) during incipient mangrove colonization in the Northern Gulf of Mexico (Estuaries and Coasts)

McDonald, A. M., B. Christiaen, K. Major and J. Cebrian. Difficulties and successes of seagrass restoration on the Alabama Gulf Coast (Marine Pollution Bulletin)

McDonald A., J. Cebrian and T. Herder. Evidence of enhanced ecosystem functionality after restoration of habitats on a highly degraded shoreline (Shore and Beach)

Trevathan-Tackett, S. M., C. Wessel, P. Masque, J. Cebrian, P. Ralph and P. I. Macreadie. Effects of small-scale shading-induced seagrass loss on blue carbon storage (PLoS ONE)

3.3 Manuscripts in preparation

Christiaen, B., J. Cebrian, J. C. Lehrter, J. Goff and J. P. Stutes. Divergent temporal dynamics in seagrass ecosystem function (Global Change Biology)

3.4 Publications for the general public

Cebrián, J. and C. M. Duarte. 1992. Detección de cambios en el medio marino. Investigación y Ciencia 193: 37-38.

Cebrián, J. and C. M. Duarte. 1996. Crecimiento vegetal. Almacenamiento de carbono. Investigación y Ciencia 232: 81-82.

Cebrian, J. 2007. La necesidad de preservar zonas limitrofes de marisma para garantizar el desarrollo sostenible. *Por Esto* (Suplemento Unicornio) 855: 6-7. ("Por Esto" is a regional newspaper in Mexico).

Cebrian, J. 2011. Perdido Coastal Lagoons. In: NOAA/NCDDC Digital Atlas of the Gulf of Mexico (Russ Beard and Rost Parsons, editors)

3.5 Technical reports

Cebrian, J. and J. Urmeneta. 1989. Bacterial population in a domestic aquarium: diversity and abundance. Department of Microbiology. University of Barcelona.

Cachot, J. and J. Cebrian. 1991. Reduction of trout (*Oncorhynchus mykiss*) growth by its parasitofauna. Laboratoire de Biologie Général. Université de Perpignan.

Duarte, C. M., J. Cebrian and N. Marba. 1991. A census of long-term data sets available in European Marine Stations. In: MARS Network Workshop "Long-term Data Sets in European Marine Stations: Assessing the Biological Consequences of Global Change". Brussels.

Valiela, I., Teichberg, M., Tomasky, G., Cole, M., Mazzilli, S., Stieve, E. and Cebrian, J. 2003. Identification and Assessment of Anthropogenic Eutrophication in Shallow Estuaries. The NOAA/UNH Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET) (Final report of Grant NOAA NA87OR512)

Harding, J., J. Lartigue, W. McAnally, R. Jackson, J. Cebrian, R. Fulford, S. Green, J. Hendon, S. Lohrenz, A. Owens, M. Peterson and E. Swenson. 2009. Integrated Ecosystem Assessment Initiative for Selected Systems in the Northern Gulf of Mexico. Executive Summary prepared by the Northern Gulf Institute Ecosystem Team (NGI-NOAA) for the creation of an Integrated Ecosystem Assessment Region in the Northern Gulf of Mexico

McAnally, W., J. Cebrian, R. Fulford, E. Swenson, C. Carollo, J. Harding, J. Lartigue, S. Milroy, J. Cartwright, S. Welsh, B. Allee, B. Christiaen, and J. S. Ziegler. 2012. Ecosystem Approach to Management for the Northern Gulf of Mexico. Executive Report prepared by the Northern Gulf Institute Ecosystem Team.

Grigas, D., J. Cebrian, B. Ehmen, M. Woodrey, T. Strange, W. Underwood, J. Lehrter and Y. Chen. 2013. Stormwater runoff loadings to coastal bayous under a gradient of watershed urbanization, North Central Gulf of Mexico. Proceedings of the World Environmental and Water Resources Congress 2013: 350-366.

3.6 Thesis

M. S. Thesis. 1991. Herbivore pressure on the seagrass *Posidonia oceanica*: consumption of seagrass primary production and effect on seagrass growth. University of Perpignan (France).

Ph. D. Dissertation. 1996. The fate of Autotrophic Production with special reference to Herbivory: from seagrasses to some general patterns among plant communities. Universitat Politecnica de Catalunya (Spain).

3.7 Media reports and featured activities/papers

Activity/Paper: Cebrian and Duarte 1995. Science 268: 1606-1608.
Highlight: Dependence of ecosystem carbon storage on plant growth rate
Outlet and dates: El Pais (Spain), June 16 1995; ABC (Spain), June 16 1995; Avui (Spain), June 25 1995.

Activity/Paper: Hauxwell et al. 2001. Ecology 82: 1007-1022 (J. Cebrian second author)
Highlight: World-wide occurrence and impacts of macroalgal blooms
Outlet: "Research Highlights" editorial section in Journal of Phycology 37, 453-456 (2001)
Date: August 2001

Activity/Paper: Cebrian 2004. Ecology Letters 7: 232-240
Highlight: Faster carbon turnover in basal food-chain levels in aquatic than terrestrial ecosystems
Outlet: Nasa-Earth Observatory news
Date: February 25, 2004.

Activity/Paper: 2004 EPA-NEP SAV restoration grant ("Submerged aquatic vegetation gardening: evaluating ecosystem services regained with SAV restoration")
Highlight: Description of the NEP grant awarded
Outlet: The Ledger (Elberta, AL) and The Onlooker (Foley, AL)
Date: June 10, 2004.

Activity/Paper: 2003 MASGC grant ("Effects of anthropogenic eutrophication on the ecosystem services provided by shoalgrass (*Halodule wrightii*) meadows")
Highlight: Description and importance of the work done with this grant
Outlet: Sea Briefs, New Highlights from the Mississippi-Alabama Sea Grant Consortium, Vol. 4, No. 3, 2004
Date: October 8, 2004

Activity/Paper: "SAV Planting Fest", restoration of SAV as part of the MBNEP grant: "Submerged aquatic vegetation gardening: evaluating ecosystem services regained with SAV restoration"
Highlight: TV appearances
TV-station and date: WKRG TV5-6PM 04/19/05; WALA Fox 10 04/18/05, 04/19/05 and 04/20/05; Alabama Public Television 04/19/05; Alabama Public Radio 04/20/05

Activity/Paper: 2005 MASGC grant "Evaluating the role of restored black needlerush marsh (*Juncus roemerianus*) as a buffer of anthropogenic eutrophication of coastal systems: an isotope enrichment approach"
Highlight: Summary of the work proposed in the grant
Outlet: Sea Briefs (in "New Research Projects for 2006") from the Mississippi-Alabama Sea Grant Consortium, Vol. 5, No. 4, Winter 2005

Activity/Paper: Marsh restoration project in Grand Bay NERRS funded by MASGC (see list of funded projects)

Highlight: TV and press reports

Reports and date: WLOX (Coastal Mississippi TV station, April 10 and 20 2006), Mobile Press Register (April 12 2006), United Press International (April 20 2006), Monsters and Critics (April 20 2006), PhysOrg.com (Science, Technology, Physics, Space News; April 20, 2006), Alabama Public Television (May 11 2006), Tidings (quarterly newspaper published by DISL, June 2006, Vol. 17, No. 2)

Activity/Paper: SAV restoration project funded by MBNEP (see list of funded projects)

Highlight: SAV restoration efforts and involvement of high-school students

Outlet: The Islander (Weekly Newspaper in Gulf Shores, AL, April 29 2006)

Activity/Paper: Marsh conservation research funded by ACES (see list of funded projects, co-PI with Anne Boettcher)

Highlight: Description of the importance of the work for the local community

Outlet: The Daphne Bulletin (May 6 2006)

Activity/Paper: Research on management and protection of Posidonia oceanica ecosystems funded by FBVVA (see list of funded projects)

Highlight: TV and press reports

Reports and date: TVE2 (Spanish Television, May 25 and 26 2006), El Pais (July 27 2006), El Periodico de Catalunya (August 6 2006)

Activity/Paper: grants from ACES on fungi and metal studies (see list of funded projects)

Highlight: Announcement in the Mobile Press Register

Reports and date: Mobile Press Register, January 07

Activity/Paper: Marsh restoration project in Grand Bay NERRS funded by MASGC (see list of funded projects)

Highlight: Explanation of the nature, goals and implications of the project

Reports and date: Sea Briefs from Mississippi-Alabama Sea Grant Volume 7, No. 1 (Spring 2007)

Activity/Paper: SAV restoration grant from MBNEP (EPA Five Star)/ADCNR (see list of funded projects)

Highlight: Reports of the grant

Reports and date: CNN-money (PR Newswire, September 20 2007); Mobile Press Register, October 07

Activity/Paper: Reduction of coastal erosion through marsh restoration

Highlight: Reports on the use of discarded Christmas trees to build fences to favor marsh restoration

Reports and date: Baldwin Register, March 2007; WKRG, December 2007

Activity/Paper: Studies of human impacts on coastal health in Big Lagoon (Perdido Bay, Florida)

Highlight: TV report on the activities carried out with those studies

Reports and date: WKRG, May 2008

Activity/Paper: \$1.5 million restoration grant from ADCNR
Highlight: Announcement in the Mobile Press Register
Reports and date: Mobile Press Register, August 08

Activity/Paper: Shoreline Stabilization
Highlight: Use of oyster breakwaters as an alternative to bulkheads
Reports and date: Widespread press coverage from San Francisco to Singapore (i.e. story covered by >15 newspapers), October-November 2008

Activity/Paper: Ecology of marshlands in coastal Alabama
Highlight: Research on this topic done in my laboratory
Reports and date: Diario Que (Alicante, Spain), October 8, 2008

Activity/Paper: 2005 MASGC grants “Evaluating the role of restored black needlerush marsh (*Juncus roemerianus*) as a buffer of anthropogenic eutrophication of coastal systems: an isotope enrichment approach” and “Examining the effects of Hurricane Ivan in Coastal Alabama an Northwestern Florida: a positive impact on shallow coastal lagoons?”
Highlight: Praise to the outcomes of both grants as examples of practical research for real-world problems
Outlet: 2007-2008 Annual Report and Program Highlights from the Mississippi-Alabama Sea Grant Consortium

Activity/Paper: grants from NGI on coastal ecosystem studies and from EPA on studies of environmental risk assessment (see list of funded projects)
Highlight: Announcement in the Mobile Press Register
Reports and date: Mobile Press Register, December 08

Activity/Paper: Loss of marshland in the Gulf Coast
Highlight: Spotlight on our research as a valuable restoration practice
Reports and date: Mobile Press Register, February 19 2009

Activity/Paper: Seagrass restoration
Highlight: Restoration activities done in Little Lagoon (Alabama) as part of the research project:” “Submerged Aquatic Vegetation Gardening in Little Lagoon, Alabama”
Reports and date: Mobile Press Register, May 5 2009; Seagrass-Watch E-Bulletin, May 19 2009

Activity/Paper: Research in the Spanish MPA Isla de Tabarca
Highlight: studies carried out in the MPA by U. South Alabama graduate students participating in the course: “Anthropogenic Impacts on Marine Ecosystems” (see list of courses offered)
Reports and date: Noticias de Reservas Marinas Espanyolas, E-publication, October 3 2009

Activity/Paper: Grant from the Shelby Center on seagrass loss and impacts on fish prey (see list of projects funded); invited talk given at the University of Alicante (Spain)
Highlight: Announcement in the Mobile Press Register
Reports and date: Mobile Press Register, October 2009

Activity/Paper: ADCNR workshop on Submerged Aquatic Vegetation in October 2009.

Highlight: article explaining the activities done during the workshop
Reports and date: The Pelican Post (a quarterly publication of the Weeks Bay Foundation), winter 2009

Activity/Paper: Coastal marshes

Highlight: Mention of research done in my lab on that topic in relation to potential impacts by the Deep Water Horizon Oil Spill
Reports and date: Bill Finch's blog at <http://blog.nature.org>, May 2010

Activity/Paper: Impacts of Deep Water Horizon Oil Spill

Highlight: Contribution to the discussion of potential impacts on marshes
Reports and date: Article in Wired Science by Brandon Keim (www.wired.com/wiredscience/2010/05/gulf-tipping/), May 2010

Activity/Paper: Deep Water Horizon Oil Spill

Highlight: interviews for "La Cuatro" and "Televisión Espanyola (TVE)"
Reports and date: TV appearance in News broadcast for "La Cuatro" and article posted in the news webpage of TVE, May 2010.

Activity/Paper: Research on Oyster Reef restoration done with the ADCNR and TNC projects (see list of funded projects)

Highlight: press article on the impacts and outreach of that research
Reports and date: Nature Conservancy Magazine Summer 2010

Activity/Paper: Research on Oyster Reef restoration done with the NMFS Oyster Restoration Program at USA

Highlight: Nature, Impact and Outreach of the research
Reports and date: Fall 2010 USA Oyster Program Restoration Briefs.

Activity/Paper: Research on impacts of the Macondo Oil spill on coastal marshes in the Northern Gulf of Mexico

Highlight: Ecosystem services of coastal marshes and impacts of oil pollution on those services
Reports and date: Interview with Michael DeGruy from Ocean Inc. for a TV documentary on environmental impacts of the Macondo Oil spill, January 2011

Activity/Paper: Paper on ENSO impacts on ecosystems, Canepuccia et al. 2010. *J. Exp. Biol. Ecol.* 396: 42-47

Highlight: Nature, Impact and Outreach of the research
Reports and date: Dauphin Island Sea Lab Skimmer, January 2011

Activity/Paper: Paper on eutrophication and ecosystem services, Anton et al. 2011, *Ecol. Appl.* 21: 991-1009

Highlight: press articles on the importance of this paper
Reports and date: Spanish newspapers "Diario de Burgos" April 2011; "El Mundo", "Xornal Galicia" and "La Voz de Galicia", June 2011

Activity/Paper: USA Graduate course "Anthropogenic Impacts in Marine Ecosystems" in Spain

Highlight: press articles on the impacts and outreach of the course

Reports and date: Spanish newspapers “La Verdad”, “Informacion” and “Las Provincias”, and in the University of Alicante press releases webpage. September 2011.

Activity/Paper: Research on the potential expansion of the black mangrove across the Northern Gulf of Mexico

Highlight: press articles on the importance and impacts of that research

Report and date: Mobile Register, Digital Edition;

http://blog.al.com/live/2012/07/mangrove_trees_show_up_on_horn.html;

August 1st, 2012.

Activity/Paper: Graduate course: “Anthropogenic effects on marine ecosystems” in Spain

Highlight: Press release on the course

Report and date: Radio Nacional de Espanya, Universidad of Alicante September 2013

Activity/Paper: Research on invasion of the tiger prawn (*Penaeus monodon*) in coastal Alabama

Highlight: Interview with the Wall Street Journal

Report and date: The Wall Street Journal, September 7th 2013

Activity/Paper: Research on Integrated Ecosystem Management

Highlight: Newsletter article

Report and date: Mississippi State University Newsletter, July 2013

Activity/Paper: Research on nekton use of intertidal marsh habitats

Highlight: Online press article

Report and date: blog.al.com, August 1st 2013

Activity/Paper: Living shorelines

Highlight: Report on projects carried out by my lab and others at DISL on living shorelines

Report and date: The Lagniappe, May 2013

Activity/Paper: GOMA Sea Level Rise workshop in Merida (Mexico)

Highlight: Description of the workshop

Report and date: online GOMA news, October 30th 2013

Activity/Paper: Ecosystem Approach to Management

Highlight: Description of projects done in the Northern Gulf of Mexico

Report and date: Momentum (a publication of the Mississippi State University Bagley College of Engineering) Fall 2013

Activity/Paper: DISL Internship by Spanish students Tito Ferrero and Candela Marco

Highlight: Description of activities done during internship

Report and date: Universidad de Alicante (Spain) online newsletter, January 2014

Activity/Paper: DISL Internship by Spanish students Tito Ferrero and Candela Marco

Highlight: Description of activities done during internship

Report and date: Informacion (Spanish newspaper) February 13 2014

Activity/Paper: Exploring Cost-Effectiveness of Restored Marshes as Nutrient Filters in a World of Rising Seas
Highlight: Marsh restoration/pollution filtration project in Weeks Bay (Alabama)
Report and date: Cross, L. M. 2014. Gulf Coast Community Handbook: Case studies from Gulf of Mexico communities for incorporating climate change resiliency into habitat planning and protection. Report to the US Environmental Protection Agency. Technical Report #01-14 of the Tampa Bay Estuary Program, St. Petersburg, Florida

Activity/Paper: Derelict Vessel Removal in Dog River (NOAA grant)
Highlight: Report on the removal activities and positive environmental impacts
Report and date: Dauphin Island Sea Lab Skimmer March 2014

Activity/Paper: Marsh/Mangroves interactions under climate change
Highlight: Field travel grant obtained by Aaron Macy (student at the Ecosystems Lab)
Report and date: Dauphin Island Sea Lab Skimmer March 2014

Activity/Paper: Living Shorelines
Highlight: Project with the Southern Environmental Law Center
Report and date: www.dredgingtoday.com, April 4 2014

Activity/Paper: Derelict Vessel Removal in Dog River (NOAA grant)
Highlight: Report on the removal activities and positive environmental impacts
Report and date: WPMI (local TV station in Mobile, Alabama), April 8 2014

Activity/Paper: Derelict Vessel Removal in Dog River (NOAA grant)
Highlight: Report on the removal activities and positive environmental impacts
Report and date: The Weather Channel online science news, April 17 2014

Activity/Paper: Derelict Vessel Removal in Dog River (NOAA grant)
Highlight: Report on the removal activities and positive environmental impacts
Report and date: NOAA National Ocean Service weekly newsletter May 1st 2014

Activity/Paper: Shailesh Sharma (student at the Ecosystems Lab)
Highlight: selection for Knauss Marine Policy Fellowship
Report and date: MASGC Newsletter, Summer 2014

Activity/Paper: Use of experimental weirs to study impacts of sea level rise in marshes
Highlight: Report of the method and corresponding publication in the journal "Methods in Ecology and Evolution"
Report and date: Dauphin Island Sea Lab Skimmer Vol 26, No 9, September 2015

Activity/Paper: Derelict Vessel Removal in Bayou La Batre (NOAA grant)

Highlight: Brief report in the scope of the project
Report and date: Eureka Alerts, 9/18/2015

Activity/Paper: Research Helps Landowners Reduce Erosion and Support Ecosystems

Highlight: Report on applied research to curb erosion and enhance coastal ecosystems

Report and date: Mississippi Land Marks (MSU Newsletter), Volume 11, Number 4, Pages 10-11, January 2016

3.8 Manuals

Turner, J., L. Allen, A. Anton, M. Miller, R. Swann and J. Cebrian. 2005. *SAVing the Gulf: Education, Restoration, Conservation*. Mobile Bay National Estuary Program and Mississippi-Alabama Sea Grant Consortium, 32 pages.

Bryars, R., J. Cebrian, C. Ferraro, T. Herder, M. Posten, S. Sharma, M. Shelton, M. Smith and B. Webb. 2016 *Living Shorelines: A Technical Guide for Contractors in Alabama and Mississippi*. Prepared for the Gulf of Mexico Alliance, Habitat Resources Priority Issues Team under a grant to the Baldwin County Soil and Water Conservation District. 43 pages.

4 Research Activities

4.1 Participation in Oceanographic Cruises

<u>Date</u>	<u>Vessel</u>	<u>Days</u>	<u>Area</u>
1993	BioHesperides	2 weeks	Western Mediterranean
1995	BioHesperides	6 weeks	Atlantic Ocean

4.2 Contributions to Conferences:

Oral contributions with abstract published:

Cebrian, J. and C. M. Duarte. Magnitude and variability of herbivory on *Posidonia oceanica*; VIIth Iberic Symposium on the study of Marine Benthos", Murcia (Spain), October 1991.

Cebrian, J. and C. M. Duarte. Application of techniques of temporal analysis in marine ecology, CSIC Workshop on Techniques for the analysis of temporal and spatial variability", Granada (Spain), February 1994.

Cebrian, J., N. Marba and C. M. Duarte. The use of the plastochrone interval to estimate seagrass leaf age, VIIIth Iberic Symposium on the study of Marine Benthos", Blanes (Spain), February 1994.

Vaque, D., C. M. Duarte and J. Cebrian. The importance of the sources of organic matter for microbial community structure in an oligotrophic coastal area, IVth International conference on Aquatic Ecosystem Health"; Coimbra (Portugal), May 1995.

Tabares, G., J. Cebrian and C. M. Duarte. Seasonality in herbivore (*Boops salpa* and *Paracentrotus lividus*) consumption of *Posidonia oceanica* leaves and their epiphytes, IXth Iberic Symposium on the study of Marine Benthos", Alcalá de Henares (Spain), February 1996.

Cebrian, J. and C. M. Duarte. Patterns in leaf herbivory on seagrasses: the importance of specific plant growth rate, XVth Annual Benthic Ecology Meeting, Portland (Maine), April 1997.

Kinlan, B., Duffy, E., Hauxwell, J., Cebrian, J. and Valiela, I. Control of periphyton on *Zostera marina* by the eastern mudsnail (*Lyanaffa obsoleta*) in a shallow temperate system, MBL annual general scientific meeting, Woods Hole (Massachusetts), August 1997.

Cebrian, J. and I. Valiela. Patterns in phytoplankton temporal dynamics: a comparison between temperate estuarine and non-estuarine coastal ecosystems, 14th Estuarine Research Federation biannual meeting, Providence (Rhode Island), October 1997.

Griffin, M., Cole, M., Kroeger, K. and Cebrian, J., Dependence of Herbivory on Autotrophic Nitrogen Content and on Net Primary Production across Ecosystems, MBL annual general scientific meeting, Woods Hole (MA), August 10-12, 1998.

Graham, S., Davis, J., Deegan, L., Cebrian, J., Hughes, J. and Hauxwell, J. The Effect of Eelgrass (*Zostera marina*) Density on the Feeding Efficiency of Mummichog (*Fundulus heteroclitus*), MBL annual general scientific meeting, Woods Hole (MA), August 10-12, 1998.

Hauxwell, J., Cebrian, J. and Valiela, I. Nitrogen enrichment of estuaries: understanding the shift from eelgrass- to seaweed-dominated communities, New England Estuarine Research Society, Falmouth (MA), October 22-24, 1998.

Cebrian, J. and I. Valiela. Patterns in the seasonality of phytoplankton biomass in coastal ecosystems, New England Estuarine Research Society, Falmouth (MA), October 22-24, 1998.

Hauxwell, J., Cebrian, J. and Valiela, I. Effect of macroalgal Shading on eelgrass biomass and growth: understanding eelgrass decline associated with eutrophication, (invited contribution). American Society of Limnology and Oceanography, Santa Fe (NM), February 1-5, 1999.

Evgenidou A., Konkle A., D'Ambrosio A., Corcoran A., Bowen J., Brown E., Corcoran D., Dearholt C., Fern S., Lamb A., Michalowsky J., Ruegg I and Cebrian J. Effects of Increased Nitrogen Loading on the relative

abundance of diatoms and dinoflagellates in estuaries, MBL annual general scientific meeting, Woods Hole (MA), August 16-18, 1999.

Hauxwell, J., Cebrian, J. and Valiela, I, Effect of Macroalgal Shading on Eelgrass Production: Understanding Eelgrass Decline Associated with Eutrophication, 15th Estuarine Research Federation biannual meeting, New Orleans (Louisiana), September 27- October 1, 1999.

Clardy, T., K. Alexander, S. Branson, K. Olson, J. Cebrian and J. R. Lartigue. Influence of sediment nutrient enrichment on seagrass density and growth. Graduate Student Symposium, February 2001 Dauphin Island Sea Lab (Alabama)

Fontanella, F. M., J. Cebrian, J. R. Lartigue and S. Arbaczauskas. Effects of Ultraviolet-B Radiation on the Photosynthesis and Palatability. Graduate Student Symposium, February 2001 Dauphin Island Sea Lab (Alabama)

Corcoran, D., J. Cebrian, J. L. Bowen, M. L. Cole and I. Valiela. Effects of anthropogenic eutrophication on temperate marine primary producers: towards an understanding of the interaction between phytoplankton and macroalgae. 16th Biennial Conference of the Estuarine Research Federation, November 2001, St. Pete (Florida).

Stutes, J. and J. Cebrian. Effects of epiphyte grazing on the productivity of epiphytes and seagrass host. 16th Biennial Conference of the Estuarine Research Federation, November 2001, St. Pete (Florida).

Dunsmuir, A. L. and J. Cebrian. Measuring microphytobenthic production and consumption using a spectrophotometric technique. 16th Biennial Conference of the Estuarine Research Federation, November 2001, St. Pete (Florida).

Stutes, J. and J. Cebrian. The effects of grazing on seagrass epiphytes across a latitudinal gradient. 4th Annual Graduate Student Symposium, January 2002, Ocean Springs, (Mississippi).

Dunsmuir, A. L. and J. Cebrian. Measuring microphytobenthic production and consumption using a spectrophotometric technique. 4th Annual Graduate Student Symposium, January 2002, Ocean Springs, (Mississippi) (awarded with best presentation of work in progress).

Dunsmuir, A. L. and J. Cebrian. Measuring microphytobenthic production and consumption using a spectrophotometric technique. 31st Annual Marine Benthic Ecology Meeting, March 2002, Orlando (Florida).

Cebrian, J. and J. Lartigue. How much, or rather, how yummy? Towards an understanding of heterotrophic consumption in ecosystems. 2002 ESA/SER Annual Meeting, Tucson (Arizona) (invited talk)

Hunter, A. and J. Cebrian. The application of growth reconstruction techniques to *Juncus roemerianus*. Society of Wetland Scientist, Southeast Regional Meeting, October 2002, Baton Rouge (Louisiana).

Corcoran, A., A. Dunsmuir and J. Cebrian. Effects of Ultraviolet-B Radiation and Nutrient Enrichment on Microphytobenthos in Coastal Lagoons. 5th Annual Graduate Student Symposium, February 2003, DISL (Alabama) (awarded with 3rd best presentation).

Hunter, A. and J. Cebrian. The application of growth reconstruction techniques to *Juncus roemerianus*. 5th Annual Graduate Student Symposium, February 2003, DISL (Alabama)

Hunter, A. and J. Cebrian. Application of growth reconstruction techniques to *Juncus roemerianus*. Gulf Estuarine Research Society, Port Aransas, Texas. April 17-19, 2003.

Corcoran, A., A. Dunsmuir and J. Cebrian. Effects of Ultraviolet-B radiation and Nutrient Enrichment on Benthic Microalgae in Lagoonal Embayments. Gulf Estuarine Research Society, Port Aransas, Texas. April 17-19, 2003. (awarded with 3rd best student presentation).

Hunter, A. and J. Cebrian. Application of growth reconstruction techniques to *Juncus roemerianus*. Society of Wetland Scientists 24th Annual Meeting, New Orleans, Louisiana. June 8-13, 2003.

Hunter, A.E., J. Stutes, and J. Cebrian. A comparison of primary production, decomposition and herbivory in two *Juncus roemerianus* marshes on the northern Gulf of Mexico. Southeastern Ecology and Evolution Conference. Atlanta, Georgia. March 5-7, 2004.

Corcoran, A., A. Dunsmuir, J. Cebrian and J. Pennock. Effects of UVB radiation and nutrient enrichment on benthic microalgal communities in northern Gulf of Mexico coastal lagoons. 33rd Annual Marine Benthic Ecology Meeting. Mobile, Alabama. March 25-28, 2004.

Morris, N., A. Hunter and J. Cebrian. The effects of nutrient addition on nutrient storage in two salt pan species, *Distichlis spicata* and *Salicornia bigelovii*, in Coastal Alabama. 33rd Annual Marine Benthic Ecology Meeting. Mobile, Alabama. March 25-28, 2004.

Stutes, J., A. Dunsmuir, A. Hunter, A. Corcoran and J. Cebrian. Comparing community production dynamics between seagrass dominated benthos and bare sediment in a pristine and impacted coastal lagoons in NW Florida. 33rd Annual Marine Benthic Ecology Meeting. Mobile, Alabama. March 25-28, 2004.

Hunter, A., J. Stutes and J. Cebrian. A comparison of primary production, decomposition and herbivory in two *Juncus roemerianus* marshes on the Northern Gulf of Mexico. 33rd Annual Marine Benthic Ecology Meeting. Mobile, Alabama. March 25-28, 2004.

Dunsmuir, A., A. Corcoran and J. Cebrian. Effects of anthropogenic eutrophication on the metabolism of estuarine microphytobenthic communities: do light levels and nutrient concentrations affect net community production, respiration and gross production?. 33rd Annual Marine Benthic Ecology Meeting. Mobile, Alabama. March 25-28, 2004.

Corcoran, A., A. Dunsmuir, J. Cebrian and J. Pennock. Investigating the roles of UVB radiation and nutrient enrichment in benthic microalgal communities. ASLO 2004 Summer Meeting, Savannah, Georgia, June 13-18.

Dunsmuir, A., A. Corcoran and J. Cebrian. Effects of reduced light availability and nutrient enrichment on the metabolism of estuarine microphytobenthic communities. ASLO 2004 Summer Meeting, Savannah, Georgia, June 13-18.

Hunter, A., J. Stutes and J. Cebrian. A comparison of primary production, decomposition and herbivory in two *Juncus roemerianus* marshes on the northern Gulf of Mexico. ASLO 2004 Summer Meeting, Savannah, Georgia, June 13-18.

Cebrian, J., J. Hauxwell and J. Lartigue. Phytoplankton-macroalgae interactions at high levels of anthropogenic eutrophication: does intense water-column shading often lead to macroalgal decline? ASLO 2004 Summer Meeting, Savannah, Georgia, June 13-18.

Hunter, Amy E., J. Stutes, and J. Cebrian. A comparison of primary production, decomposition, and herbivory in two *Juncus roemerianus* marshes on the northern Gulf of Mexico. Society of Wetland Scientists 25th Annual Meeting, Seattle, Washington. July 18-23, 2004.

Dunsmuir-Stutes, A.L., A. Corcoran and J. Cebrian. Effects of reduced light availability and nutrient enrichment on the metabolism and production of estuarine microphytobenthic communities. 26th Annual Southeastern Phycological Colloquium. Dauphin Island, Alabama. October 22-24, 2004.

Foster, C. D., M. Miller, A. Anton, R. Plutchak, K. Major and J. Cebrian. The impact of Hurricane Ivan on the biomass and production of microalgal communities in six tidal creeks in the Northern Gulf of Mexico. 7th Annual Graduate Student Symposium, LUMCOM, Louisiana, January 28-30, 2005.

Foster, C. D., J. Cebrian, M. Miller, A. Anton, K. Major and R. Plutchak. The short-term impact of Hurricane Ivan on the biomass and productivity of microalgal communities in tidal creeks of the Northern Gulf of Mexico. Spring 2005 Gulf Estuarine Research Society/Society of Wetland Scientists (South Central Chapter) Joint Society Meeting. Gulf Breeze, Florida. March 31- April 2, 2005.

Hunter, Amy E., J. Stutes and J. Cebrian. A comparison of primary production, decomposition, and herbivory in two *Juncus roemerianus* marshes on the northern Gulf of Mexico. Spring 2005 Gulf Estuarine Research Society/Society of Wetland Scientists (South Central Chapter) Joint Society Meeting. Gulf Breeze, Florida. March 31- April 2, 2005.

Lehrter, J., J. Cebrian (presenter), J. Stutes, A. Stutes, A. Hunter and A. Corcoran. Standing stocks and loading rates of total dissolved nitrogen into three coastal lagoons in the Northern Gulf of Mexico. Spring 2005 Gulf Estuarine Research Society/Society of Wetland Scientists (South Central Chapter) Joint Society Meeting. Gulf Breeze, Florida. March 31- April 2, 2005.

Cebrian, J. Changes in herbivory with eutrophication-induced seagrass replacement by macroalgae: a tale of anoxia? 2005 ASLO Summer Meeting. Santiago de Compostela (Spain), June 19-24, 2005.

Heck, K. L., J. Cebrian, S. P. Powers, D. A. Byron, C. D. Foster and N. Geraldi. Ecosystem Services Provided by Oyster Reefs: an Experimental Assessment. 8th International Conference on Shellfish Restoration: "Enhancement and sustainability of shellfish resources". Brest, France. October 2-5, 2005.

Cebrian, J., A. L. Stutes, A. A. Corcoran, J. P. Stutes and A. E. Hunter. Impact of sediment nutrient enrichment on benthic microalgal communities: a comparison between clear coastal lagoons and turbid estuaries. 18th Biennial Conference of the Estuarine Research Federation, Norfolk, Virginia. October 16-20, 2005 (invited talk).

Patterson, D. A., J. Lehrter, J. Cebrian, J. P. Stutes, A. L. Stutes, A. Hunter and A. A. Corcoran. Nitrogen loads and residence times as regulators of nitrogen accumulation in three coastal lagoons in the Northern Gulf of Mexico. 18th Biennial Conference of the Estuarine Research Federation, Norfolk, Virginia. October 16-20, 2005 (invited talk).

Stutes, J. P. and J. Cebrian. Reassessment of the effects of grazing on seagrass epiphytes: implications for grazer-mediated change in epiphyte productivity and its implementation in grazing rate calculations. 8th Annual Graduate Student Symposium, Dauphin Island Sea Lab, Alabama, February 3-4, 2006.

Anton, A., J. Cebrian, C. M. Duarte, C. D. Foster, K. Sheehan, J. Goff and M. E. Miller. The effects of Hurricane Katrina on the Metabolism and Primary Productivity of Seagrass (*Halodule wrightii* and *Ruppia maritima*) meadows. 8th Annual Graduate Student Symposium, Dauphin Island Sea Lab, Alabama, February 3-4, 2006.

Stutes, J. P. and J. Cebrian. Reassessment of the effects of grazing on seagrass epiphytes: implications for grazer-mediated change in epiphyte productivity and its implementation in grazing rate calculations. 35th Annual Marine Benthic Ecology Meeting, Quebec City (Canada), March 8-12, 2006.

Anton, A., C. D. Foster, K. Sheehan, J. Goff, M. E. Miller and J. Cebrian. The effects of Hurricane Katrina on the ecological services provided by seagrass (*Halodule wrightii* and *Ruppia maritima*) meadows. 35th Annual Marine Benthic Ecology Meeting, Quebec City (Canada), March 8-12, 2006.

Plutchak, Rochelle, Foster, C. Drew, Anton, Andrea, Sheehan, Kate, Goff, Josh, Cebrian, Just, Major, Kelly. Algal Productivity and Community Structure: Indicators of Artificial Oyster Reef Function. Centennial Meeting of the Botanical Society of America, Chico California, July 28-Aug. 2, 2006.

Anton, A., J. Cebrian and C. D. Foster. The effect of eutrophication on the ecosystem services provided by mixed seagrass (*Halodule wrightii* and *Ruppia maritima*) meadows. 1st Alabama-Mississippi Bays and Bayous Symposium, Mobile (Alabama) November 27-29 2006

Cebrian, J., J. P. Stutes, A. L. Stutes, A. Hunter and A. A. Corcoran. System-integrated benthic metabolism across a gradient of human alteration and seagrass

abundance in shallow coastal lagoons of the North Central Gulf of Mexico. 1st Alabama-Mississippi Bays and Bayous Symposium, Mobile (Alabama) November 27-29 2006

Plutchak, R., C. D. Foster, A. Anton, K. Sheehan, J. Goff, J. Cebrian and K. Major. The effects of artificial oyster reefs on primary production and nutrient flow in shallow coastal creeks. 1st Alabama-Mississippi Bays and Bayous Symposium, Mobile (Alabama) November 27-29 2006

Goff, J., K. Sheehan, J. Stutes, D. Patterson, M. Miller, D. Foster and J. Cebrian. The impact of tropical storms on the primary productivity and metabolism of shallow coastal lagoons. 1st Alabama-Mississippi Bays and Bayous Symposium, Mobile (Alabama) November 27-29 2006

Anton, A., J. Cebrian, K. Sheehan, M. Miller and C. Duarte. The impact of eutrophication on the nursery-role and ecological services provided by seagrass meadows. 36th Benthic Ecology Meeting. Atlanta. March 21-24 2007.

Sheehan, K. L., J. O' Brien and J. Cebrian. Spatial and temporal abundance patterns of the common grass shrimp *Palaemonetes pugio*, and the trematode parasite, *Microphallus turgidus* in the north central Gulf of Mexico. 36th Benthic Ecology Meeting. Atlanta. March 21-24 2007.

Sheehan, K. L., J. O' Brien and J. Cebrian. Spatial and temporal abundance patterns of the common grass shrimp *Palaemonetes pugio*, and the trematode parasite, *Microphallus turgidus* in the north central Gulf of Mexico. 82nd annual meeting of the American Society of Parasitology, Merida (Mexico). June 21-25 2007

Cebrian, J., J. Shurin, B. Cardinale, M. Smith and E. Borer. (invited talk). Bottom-up control of herbivore-producer biomass ratios across ecosystems. ESA/SER Joint Meeting, San Jose (California), August 5-10 2007

Heck, K., J. Cebrian, S. Powers, K. Major, D. Byron, R. Plutchak and N. Gerald. Ecosystem Services Provided by Oyster Reefs: an Experimental Assessment. 19th Biennial Conference of the Estuarine Research Federation, Providence (Rhode Island), 4-8 November, 2007

Anton, A., J. Cebrian, K. Sheehan, C. Drew Foster, M. Miller and J. Goff. The Impact of Hurricane Katrina on the Structure and Functioning of Seagrass Meadows. 19th Biennial Conference of the Estuarine Research Federation, Providence (Rhode Island), 4-8 November, 2007

Cebrian, J., D. Foster, R. Plutchak, K. Sheehan, M. Miller, A. Anton, K. Major, K. Heck and S. Powers. The Impact of Hurricane Ivan on the Primary Productivity and Metabolism of Marsh Tidal Creeks in the North Central Gulf of Mexico. 19th Biennial Conference of the Estuarine Research Federation, Providence (Rhode Island), 4-8 November, 2007

Stutes, J. P. and J. Cebrian. Reassessment of the Effects of Grazing and Nutrient Enrichment on Epiphyte Biomass and Productivity: Implications for Grazing Rate Calculations. 31st Annual Pacific Estuarine Research Society meeting, Newport Oregon, February 28 -March 1 2008.

Sheehan, K. L., J. Cebrian and J. O'Brien. Distribution of parasite assemblages of grass shrimp in Mobile Bay. 2008 Southeastern Ecology and Evolution Conference. Tallahassee, Florida.

Sheehan, K. L., J. Cebrian, J. Valentine and J. O'Brien. Spatial and seasonal variability of parasite assemblages of the common grass shrimp in Mobile Bay. 2008 Association of Southeastern Biologists/Association of Southeastern Parasitologists. Spartanburg, SC.

Sheehan, K. L., J. O'Brien and J. Cebrian. Parasite Assemblages of the Common Grass Shrimp Along the Alabama Gulf Coast: Seasonal Distribution and Use as an Environmental Indicator. 2008 Symposium of the American Society of Parasitologists. Arlington, TX.

Cebrian, J., K. Pickard and T. Clardy. The effects of short-term shading and sediment nutrient enrichment on shoalgrass (*Halodule wrightii*) growth dynamics. 8th International Seagrass Biology Workshop, Bamfield, August 31-September 5, 2008

Cebrian, J., K. Pickard and T. Clardy. The Effect of Short-Term Shading and Sediment Nutrient Enrichment on Shoalgrass (*Halodule wrightii*) Growth Dynamics. 2nd Alabama-Mississippi Bays and Bayous Symposium, Biloxi (Mississippi) October 28-29, 2008

Christiaen, B., J. Cebrian and J. Goff. Plan First, Plant Later: The Importance of Site Selection for Seagrass Restoration. 2nd Alabama-Mississippi Bays and Bayous Symposium, Biloxi (Mississippi) October 28-29, 2008

Sheehan, K.L. J. O'Brien and J. Cebrian. Symbiont Distribution, Prevalence, and Assemblages of the Grass Shrimp, *Palaemonetes pugio* in Southwestern Alabama. 2nd Alabama-Mississippi Bays and Bayous Symposium, Biloxi (Mississippi) October 28-29, 2008

Sheehan, K.L., J. O'Brien and J. Cebrian. Reductions in parasite transmission success: a correlational feedback loop occurring at two coastal rookeries in Southwestern Alabama. Southeastern Ecology and Evolution Conference. March 2009, Gainesville, FL.

Sheehan, K.L., K.D. Lafferty, J. O'Brien, and J. Cebrian. August Impacts of Avian Induced Eutrophication on Trematode Metacercariae. American Society of Parasitologists. August 2009, Knoxville, TN.

Cebrian, J., B. Christiaen, J. C. Lehrter, J. P. Stutes and A. Anton. Disparate impacts of eutrophication in shallow coastal systems of the Northern Gulf of Mexico. 20th Biennial Conference of the Coastal and Estuarine Research Federation, Portland (Oregon), 1-5 November, 2009

Sparks, E., C. R. Tobias and J. Cebrian. Groundwater Nitrate Assimilation into Restored *Juncus roemerianus* and Associated Fauna. The 39th Annual Marine Benthic Ecology Meeting, Wilmington, NC, March 10-13, 2010

Heck, K., J. Cebrian, S. P. Powers, S. Scyphers and D. Byron. Oyster Reef and Estuarine Landscape Restoration. The Northern Gulf Institute 2010 Annual Conference, Mobile, AL, May 18-20, 2010.

Chen, Y., J. Cebrian, B. Christiaen and J. Stutes. Synergistic effects of watershed development and climatic events on ecosystem health in Perdido Bay lagoons, Florida. The 95th ESA Annual Meeting, Pittsburgh, PA, August 1-6, 2010.

Marco-Mendez, C., P. Prado, K. Heck, J. Cebrian and J. L. Sanchez-Lizaso. Epiphytes mediate the trophic role of sea urchins in *Thalassia testudinum* seagrass beds. XVI Simposio Iberico de Estudios de Biología Marina, Alicante (España), September 6-10, 2010.

Cebrian, J., K. Heck, S. Powers, D. Byron, J. Goff, C. Hightower, R. Moody, S. Sharma and C. Ferraro. The ADCNR-Dauphin Island Sea Lab EDRP Research and Monitoring Partnership: Point-Aux-Pines Project Concept and Construction. Restore America's Estuaries, The 5th National Conference on Coastal and Estuarine Habitat Restoration, Galveston, Texas, November 13-17, 2010.

Heck, K., J. Cebrian, S. Powers, D. Byron, J. Goff, C. Hightower, R. Moody, S. Sharma and C. Ferraro. The ADCNR-Dauphin Island Sea Lab EDRP Research and Monitoring Partnership: Monitoring Program Design, Implementation, and Results. Restore America's Estuaries, The 5th National Conference on Coastal and Estuarine Habitat Restoration, Galveston, Texas, November 13-17, 2010.

Sparks, E., J. Cebrian and K. Sheehan. *Juncus roemerianus* morphology and colonization in two marsh restoration designs. The 2010 Bays and Bayous Symposium, Mobile, Alabama, December 1-2, 2010.

Anton, A., J. Cebrian, K. L. Heck, C. M. Duarte, K. L. Sheehan, M. C. Miller and C. D. Foster. Decoupled effects (positive to negative) of nutrient enrichment on seagrass ecosystem services. The 2010 Bays and Bayous Symposium, Mobile, Alabama, December 1-2, 2010.

Christiaen, B., J. Goff, J. Stutes and J. Cebrian. Living on the edge: ecosystem metabolism in shallow lagoons in the NW Gulf of Mexico. The 2010 Bays and Bayous Symposium, Mobile, Alabama, December 1-2, 2010.

Moody, R., S. Kerner, J. Cebrian, K. Heck and S. Powers. Alteration of salt-marsh floral communities induced by shoreline erosion. The 2010 Bays and Bayous Symposium, Mobile, Alabama, December 1-2, 2010.

Chen, Y., J. Cebrian, B. Christiaen and J. P. Stutes. Effects of watershed development and climate events on ecosystem health in lagoons in the north central Gulf of Mexico. Joint Meeting of the Arkansas Chapters of the American Fisheries Society and the Wildlife Society, Little Rock, Arkansas, February 2-4, 2011.

Grigas, D., J. Cebrian, B. Ehmen, M. Woodrey, T. Strange, M. Underwood, J. Lehrter and Y. Chen. Effects of watershed development on water quality in coastal bayous, North Central Gulf of Mexico. Joint Meeting of the Arkansas Chapters of the American Fisheries Society and the Wildlife Society, Little Rock, Arkansas, February 2-4, 2011.

Cebrian, J., B. Christiaen, J. C. Lehrter, J. P. Stutes and A. Anton. Disparate impacts of eutrophication in shallow coastal systems of the Northern Gulf of Mexico. The 40th Annual Marine Benthic Ecology Meeting, Mobile, Alabama, March 16-20, 2011

Sparks, E. and J. Cebrian. Grazing responses to fertilization and effects on black needlerush (*Juncus roemerianus*). The 40th Annual Marine Benthic Ecology Meeting, Mobile, Alabama, March 16-20, 2011

McDonald, A., P. Prado, K. Heck, J. Cebrian, J. Fourqurean and K. Dunton. A large-scale comparison of morphological, growth, and flowering attributes of the seagrass *Thalassia testudinum* from three environmentally distinct areas in the Gulf of Mexico. The 40th Annual Marine Benthic Ecology Meeting, Mobile, Alabama, March 16-20, 2011

Sharma, S., J. Goff, D. Byron, J. Cebrian, K. Heck and S. Powers. Potential impacts of restored oyster reefs on water quality and submerged aquatic vegetation. The 40th Annual Marine Benthic Ecology Meeting, Mobile, Alabama, March 16-20, 2011

Christiaen, B., J. Stutes, J. Lehrter and J. Cebrian. Tidal exchange of organic matter in shallow lagoons in the NW Gulf of Mexico. The 40th Annual Marine Benthic Ecology Meeting, Mobile, Alabama, March 16-20, 2011

Gamble, R., J. Cebrian and K. Heck. Abundance and richness of macroinvertebrate and finfish assemblages in shallow coastal embayments with contrasting seagrass cover. The 40th Annual Marine Benthic Ecology Meeting, Mobile, Alabama, March 16-20, 2011

Moody, R. M., S. Kerner, L. Biermann, J. Howard, J. Cebrian, K. Heck and S. Powers. Temporal dynamics of nekton abundance in coastal fringing marshes: Impact of the oil spill? The 40th Annual Marine Benthic Ecology Meeting, Mobile, Alabama, March 16-20, 2011

Moody, R., S. Kerner, L. Biermann, J. Howard, J. Cebrian, K. Heck and S. Powers. Deepwater Horizon and temporal dynamics of nekton abundance in coastal fringing marshes. The 2011 Northern Gulf Institute Annual Conference, Mobile, Alabama, May 17-19, 2011.

Gamble, R., J. Cebrian and K. L. Heck. Impacts of reduced seagrass cover on the export of macroinvertebrate and finfish production to offshore habitats. The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Sparks, E., C. Tobias and J. Cebrian. Nutrient filtration effectiveness of two salt marsh restoration designs. The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Moody, R., S. Kerner, J. Cebrian, K. L. Heck and S. Powers. Shoreline loss induces changes in salt-marsh floral communities. The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Chen, Y., J. Cebrian, B. Christiaen, J. Lehrter and J. Stutes. Effects of watershed development and climate events on ecosystem health in lagoons in the north central Gulf of Mexico. The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Christiaen, B., J. Stutes, J. Lehrter and J. Cebrian. Shallow lagoons in the north central Gulf of Mexico: long-term trends in benthic metabolism. The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Grigas, D., J. Cebrian, B. Ehmen, M. Woodrey, T. Strange, W. Underwood, J. Lehrter and Y. Chen. Effects of watershed urban development on water quality in coastal bayous, North Central Gulf of Mexico. The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

McDonald, A., P. Prado, K. Heck and J. Cebrian. A large-scale comparison of morphological, growth, and flowering attributes of the seagrass *Thalassia testudinum* from three environmentally distinct areas in the Gulf of Mexico. The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Cebrian, J., K Heck, S. Powers, D. Byron, C. Ferraro, J. Goff, C. Hightower, R. Moody and S. Sharma. Restoring healthy shorelines with oyster shell breakwaters in the Northern Gulf of Mexico. The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Sharma, S., J. Goff, D. Byron, J. Cebrian, K. Heck and S. Powers. Potential impacts of restored oyster reefs on submerged aquatic vegetation. The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Grigas, D., J. Cebrian, B. Ehmen, M. Woodrey, T. Strange, W. Underwood, J. Lehrter, and Y. Chen. Effects of watershed urbanization on fish communities in coastal bayous, North Central Gulf of Mexico. Arkansas American Fisheries Society Annual Conference, Conway, Arkansas, February 8-10, 2012.

Gamble, R. B., J. Cebrian and K. L. Heck. Impacts of reduced seagrass cover in shallow coastal embayments on the abundance and biomass of macroinvertebrate and finfish populations. The DISL/GCRL Graduate Student Symposium, Dauphin Island, Alabama, March 2-4, 2012.

McDonald, A., R. Gamble and J. Cebrian. Comparison of multiple anthropogenic impacts on the Mediterranean seagrass *Posidonia oceanica*. The DISL/GCRL Graduate Student Symposium, Dauphin Island, Alabama, March 2-4, 2012.

Christiaen, B., A. McDonald, J. Cebrian and A. Ortmann. Short-term impacts of seagrass transplantation on denitrifiers and sulfate reducers in the rhizosphere. The DISL/GCRL Graduate Student Symposium, Dauphin Island, Alabama, March 2-4, 2012.

Shailesh, S., B. Ehmen, M. Woodrey, J. Lehrter, D. Grigas, Y. Chen, and J. Cebrian. Comparative study of water quality parameters in three sub-estuaries: an impact of different watershed land use pattern. The 41st Benthic Ecology Meeting, Norfolk, Virginia, March 21-24, 2012.

Gericke, R. L., K. L. Heck, J. Cebrian, S. Powers, and J. DeQuattro. A comparison of ecological benefits of three unique oyster reef restoration techniques. The 41st Benthic Ecology Meeting, Norfolk, Virginia, March 21-24, 2012.

Dean Carrier, J., E. Sparks, M. Woodrey, J. Cebrian and A. Boettcher. Variations in herbivore pressure across the Northern Gulf of Mexico salt marshes. The 73rd Annual Meeting of the Association of Southeastern Biologists, Athens, Georgia, April 4-7, 2012.

Cebrian, J. B. Christiaen, J. C. Lehrter, J. P. Stutes and A. Anton. Functional Impacts of Eutrophication in Shallow Coastal Systems of the Northern Gulf of Mexico. The 2012 Northern Gulf Institute Annual Conference. The Stennis Space Center, Mississippi, May 23-24, 2012.

Marco-Mendez, C., L. M. Ferrero-Vicente, P. Prado, K. L. Heck, J. Cebrian and J. L. Sanchez-Lizaso. Evidence of preference of *Cymodocea nodosa* over *Posidonia oceanica* by the herbivores *Paracentrotus lividus* and *Sarpa salpa* in a mixed habitat. The 3rd Mediterranean Seagrass Workshop, Essaouira, Morocco, May 28-June 1, 2012.

Ferraro, C., and J. Cebrian (co-presenter). Little Bay Finfish and Shellfish Restoration Project: Two-year post-construction project update. Restore America's Estuaries. 6th National Conference on Coastal and Estuarine Habitat Restoration. Tampa, Florida, October 20-25, 2012.

Cebrian, J. (plenary talk) Shifting baseline producer populations in shallow coastal systems: patterns, causes and consequences. Coastal Estuarine Research Federation Inaugural International Conference of the Americas, Mar del Plata, Argentina, 11-14 November 2012

Chen, Y., D. Grigas, J. Cebrian, B. Ehmen, M. Woodrey, T. Strange, W. Underwood and J. Lehrter. Stormwater Runoff Loadings to Coastal Bayous under a Gradient of Watershed Urbanization, North Central Gulf of Mexico. The 2013 World Environmental and Water Resources Congress. Cincinnati, Ohio, May 19-23, 2013.

Sparks, E. L., J. Cebrian, P. D. Biber, K. L. Sheehan and C. R. Tobias. Success, functionality and cost-effectiveness of two small-scale salt marsh restoration designs. 2012 GERS meeting, Dauphin Island Sea Lab, November 8-9

Sharma, S., E. Sparks, J. Goff, K. Heck, W. Scheffel, M. Johnson and J. Cebrian. Potential effects of black mangroves (*Avicennia germinans*) on structural and functional attributes of local saltmarsh grasses. 2012 GERS meeting, Dauphin Island Sea Lab, November 8-9

McDonald, A., B. Christiaen and J. Cebrian. Restoration of shoalgrass *Halodule wrightii* in an Alabama coastal lagoon. 2012 GERS meeting, Dauphin Island Sea Lab, November 8-9

McAnally, W. H., J. Cebrian, E. Swenson, S. Welsh, S. Milroy and C. Carollo. Integrated ecosystem assessment: comparison of four northern Gulf of Mexico systems. 2012 Bays and Bayous Symposium, Biloxi (Mississippi), November 14-15

Christiaen, B., J. Stutes and J. Cebrian. Export of organic matter from bayous and lagoons with different levels of anthropogenic levels of anthropogenic disturbance. 2012 Bays and Bayous Symposium, Biloxi (Mississippi), November 14-15

Pabody, C. M., S. Powers, K. Heck, J. Cebrian and S. Scyphers. Fisheries enhancement by "Living Shorelines"-does this concept work in coastal Alabama waters? 2012 Bays and Bayous Symposium, Biloxi (Mississippi), November 14-15

Gamble, R. B., J. Cebrian and K. L. Heck. Relationship between seagrass cover and macroinvertebrate and finfish populations in shallow coastal embayments. 2012 Bays and Bayous Symposium, Biloxi (Mississippi), November 14-15

Sparks, E. L., J. Cebrian, P. D. Biber, K. L. Sheehan and C. R. Tobias. Cost-effectiveness of two small-scale salt marsh restoration designs. 2012 Bays and Bayous Symposium, Biloxi (Mississippi), November 14-15

Sharma, S., E. Sparks, J. Goff, K. Heck, W. Scheffel, M. Johnson and J. Cebrian. Potential effects of black mangroves (*Avicennia germinans*) on structural and functional attributes of local saltmarsh grasses. 2012 Bays and Bayous Symposium, Biloxi (Mississippi), November 14-15

McDonald, A., B. Christiaen and J. Cebrian. Restoration of shoalgrass *Halodule wrightii* in an Alabama coastal lagoon. 2012 Bays and Bayous Symposium, Biloxi (Mississippi), November 14-15

Cebrian, J., J. Stutes and B. Christiaen. Impacts of grazing and fertilization on epiphyte growth under moderately eutrophic conditions: implications for grazing rate estimates. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, Louisiana

Christiaen, B., J. Stutes, A. Ortmann, and J. Cebrian. The relative contribution of benthos and water column to total primary production in shallow lagoons with different degrees of human disturbance. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, Louisiana

Sharma, S., J. Goff, R. Moody, D. Byron, J. Cebrian, K. Heck and S. Powers. Efficacy of wave attenuating structures on restoring shorelines, SAV and

emergent marsh grasses: a comparative study of two types of breakwaters. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, Louisiana

Gamble, R. B., J. Cebrian and K. L. Heck. Relationship between seagrass cover and macroinvertebrate and finfish populations in shallow coastal embayments. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, Louisiana

Sparks, E. L., J. Cebrian and C. R. Tobias. Nutrient filtration capability of small-scale salt marsh restoration designs. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, Louisiana

McDonald, A., B. Christiaen and J. Cebrian. Restoration of shoalgrass *Halodule wrightii* in an Alabama coastal lagoon. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, Louisiana

McDonald, A., P. Prado, K. Dunton, J. Fourqurean, K. Heck and J. Cebrian. Morphological and growth plasticity of *Thalassia testudinum* in the Gulf of Mexico. 42nd annual Benthic Ecology Meeting; 2013 March 20-24; Savannah, GA.

Sparks, E., J. Cebrian, C. Tobias, P. Biber and K. Sheehan. Cost-effectiveness of two small-scale salt marsh restoration designs for vegetative growth and nutrient filtration capability. The 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego (California), 3-7 November 2013

McDonald, A., J. Cebrian, K. Heck, P. Prado, K. Dunton and J. Fourqurean. Growth and morphological plasticity of *Thalassia testudinum* in the Gulf of Mexico. The 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego (California), 3-7 November 2013

Herzka, S., L. Malpica-Cruz, F. J. Fodrie and J. Cebrian. A meta-analysis of stable isotope turnover rates in fishes in the context of connectivity and migration studies. The 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego (California), 3-7 November 2013

Goff, J., S. Sharma and J. Cebrian. Evaluating the success of a restored marsh design using assessments of sediment dynamics and vegetation. The 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego (California), 3-7 November 2013

Sharma, S., J. Goff, J. Cebrian, K. Heck and S. Powers. Efficacy of wave attenuating structures on restoring shorelines and emergent marsh grasses: a comparative study of two distinct types of breakwaters. The 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego (California), 3-7 November 2013

Scheffel, W., K. Heck, J. Cebrian and M. Johnson. Black mangrove expansion into salt marshes of the northern Gulf of Mexico: will climate change result in significant ecosystem level changes? The 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego (California), 3-7 November 2013

Cebrian, J., K. Heck, J. Goff, S. Sharma, E. Sparks, A. Macy, W. Scheffel, D. Byron and M. Johnson. Examining functional change from mangrove expansion into marshlands in the Northern Gulf of Mexico. The 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego (California), 3-7 November 2013

Bart, C., R. Bernard, J. Cebrian, B. Mortazavi and A. Ortmann. The degree of urbanization across the globe is not reflected in the $\delta^{15}\text{N}$ of seagrass leaves. The 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego (California), 3-7 November 2013

Marco-Mendez, C., L. M. Ferrero-Vicente, P. Prado, K. Heck, J. Cebrian and J. L. Sanchez-Lizaso. Epiphyte presence and seagrass species identity influences herbivory rates in Mediterranean seagrass meadows. SIEBM XVIII, September 2-5, 2014, Gijon (Spain)

Cherry, J., G. S. Ramseur, E. L. Sparks and J. Cebrian. Testing sea-level rise impacts in tidal wetlands: a new experimental approach. 2014 Joint Aquatic Sciences Meeting (JASM), May 18-23, 2014, Portland (Oregon)

Wessel, C., A. McDonald, L. Yokel, and J. Cebrian. Developing an evaluative tool for prioritizing removal or repurposing of derelict vessels to improve watershed habitats. 2014 Alabama Water Resources Conference, September 3-5, 2014, Orange Beach (Alabama) (second place in student competition)

Cebrian, J., C. Ferraro, J. Goff and S. Sharma. Little Bay versus Northeast Point aux Pins: Three-Year Post Construction Updates (In Session: An Update on Recent Living Shoreline Projects and Activities in Coastal Alabama). Restore America's Estuaries 7th National Summit on Coastal and Estuarine Restoration and 24th Biennial Meeting of the Coastal Society. National Harbor, Maryland, November 1-6, 2014

Cebrian, J., A. Anton, B. Christiaen, R. Gamble and J. Goff. Coastal Change and Ecosystem Services: Towards a Better Understanding of Ecosystem Service Resilience (In Session: Assessing the Resilience of Ecosystem Services: A Synthetic Framework for Ecological, Economic and Social Dimensions). Restore America's Estuaries 7th National Summit on Coastal and Estuarine Restoration and 24th Biennial Meeting of the Coastal Society. National Harbor, Maryland, November 1-6, 2014

Wessel, C., D. Battiste and J. Cebrian. Assessing the abundance and distribution of microplastics in Mobile Bay, AL. 2014 Bays and Bayous Symposium, December 2-3, 2014, Mobile, Alabama

Macy, A., J. Cebrian, K. Heck, J. Goff, W. Scheffel, S. Sharma, E. Sparks and D. Byron. Influence of *Avicennia germinans* on ecosystem dynamics at the edge of their northern limit. 2014 Bays and Bayous Symposium, December 2-3, 2014, Mobile, Alabama

Goff, J., S. Sharma and J. Cebrian. Evaluating the benefits of intertidal structure in coastal restoration using assessments of sediment dynamics and vegetation. 2014 Bays and Bayous Symposium, December 2-3, 2014, Mobile, Alabama

Ashby, S., C. Carollo, J. Cebrian, R. Fulford, W. McAnally, S. Milroy and E. Swenson. Integrated Ecosystem Assessment for an Ecosystem Based Approach to Management in the Northern Gulf of Mexico. 2014 Bays and Bayous Symposium, December 2-3, 2014, Mobile, Alabama

Hutchison, L. M., J. Cebrian, A. Macy and D. Yoskowitz. Linking Structural and Process-based Attributes of Salt Marshes and Mangroves to Ecosystem Services Provision. 2014 Bays and Bayous Symposium, December 2-3, 2014, Mobile, Alabama

Sharma, S., J. Goff, R. Moody, D. Byron, J. Cebrian, K. L. Heck, S. P. Powers and C. Ferraro. Do restored oyster reefs affect seagrass dynamics? An experimental study in the Northern Gulf of Mexico. 2014 Bays and Bayous Symposium, December 2-3, 2014, Mobile, Alabama

McDonald, A., T. Herder and J. Cebrian. Short-term monitoring after restoration of highly stressed intertidal marsh in Mobile, AL, indicates ecosystem enhancement. 2014 Bays and Bayous Symposium, December 2-3, 2014, Mobile, Alabama

Scheffel, W., K. L. Heck, J. Cebrian and M. Johnson. Has black mangrove expansion affected northern Gulf of Mexico salt marsh nursery function? 2014 Bays and Bayous Symposium, December 2-3, 2014, Mobile, Alabama

Macy, A., J. Cebrian, K. Heck, J. Goff, S. Sharma, E. Sparks, W. Scheffel, D. Byron and M. Johnson. Influence of *Avicennia germinans* on Ecosystem Dynamics at the Edge of their Northern Limit. Southeastern Biogeochemistry Symposium, March 28-29, 2015, Atlanta, Georgia.

Martin, S., J. Cherry, A. Constantin, E. Sparks and J. Cebrian. Sea-level rise and initial vegetative cover as drivers of plant community composition in restored tidal marshes. Society of Wetland Scientists Annual Meeting, May 31-June 4 2015, Providence, Rhode Island

Chen, Y., J. Cebrian, J. Lehrter, B. Christiaen and J. Stutes. Long-term watershed urban development and climatic influences on the north central Gulf of Mexico lagoon ecosystems. 2015 Ecological Society of America meeting, August 9-14, 2015, Baltimore, MD

Wessel, C., A. McDonald, L. Yokel and J. Cebrian. An evaluative tool for prioritizing removal of hazardous debris to improve the watershed; a final review. Alabama Water Resources Conference, September 9-11, 2015, Orange Beach (Alabama)

Alberti, J., J. Cebrian, F. Alvarez, M. Escapa, K. S. Esquius, E. Fanjul, E. Sparks, B. Mortazavi and O. Iribarne. Variable responses of ecosystem functions to changes in benthic microalgae induced by nutrients and herbivorous snails. Cuarto Congreso Internacional de Servicios Ecosistemicos en los Neotropicos: de la investigacion a la accion. September 30-October 3, 2015, Mar del Plata, Argentina.

Sparks, E., J. Cebrian, M. Shelton, J. Haner, R. Collini, E. Brunden, S. Phipps and L. G. Adams. End-User Derived Research to Improve the Effectiveness, Sustainability, and Prevalence of Coastal Restoration Designs. 2015 NERRS/NERRA Annual Meeting, October 26-29 2015, Mobile (Alabama) (also presented as poster contribution)

Macy, A., J. Cebrian, K. Heck, J. Goff, S. Sharma, E. Sparks, W. Scheffel and M. Johnson. Influence of *Avicennia germinans* on ecosystem dynamics at the edge of their Northern limit. Coastal Estuarine Research Federation Biennial Conference, 8-12 November 2015, Portland, Oregon

Scheffel, W., K. Heck, J. Cebrian and L. Rozas. Habitat preference and survivorship of penaeid shrimp in the presence of the gray snapper predator. Coastal Estuarine Research Federation Biennial Conference, 8-12 November 2015, Portland, Oregon

Carollo, C., D. Yoskowitz, A. Krupnic, j. Siikamaki, J. Cebrian and J. Beseres-Pollack. The value of coastal ecosystem services in the Gulf of Mexico. Coastal Estuarine Research Federation Biennial Conference, 8-12 November 2015, Portland, Oregon

Wessel, C., D. Battiste and J. Cebrian. Talking trash: abundance, distribution, and composition of microplastic debris in the northern Gulf of

Mexico. Coastal Estuarine Research Federation Biennial Conference, 8-12 November 2015, Portland, Oregon

Cebrian, J., A. Anton, B. Christiaen, R. Gamble and J. Stutes. Functional equivalency between seagrasses and other coastal habitats: lessons and implications for management. Coastal Estuarine Research Federation Biennial Conference, 8-12 November 2015, Portland, Oregon

West, L., R. Moody, R. Gamble, K. Heck, D. Byron and J. Cebrian. Fish habitat redundancy of salt marshes and seagrass beds in the northern Gulf of Mexico. Coastal Estuarine Research Federation Biennial Conference, 8-12 November 2015, Portland, Oregon

Sparks, E., J. Cebrian, J. Cherry and G. Ramseur. The effects of sea level rise and planting density on nitrogen removal in restored marshes. Coastal Estuarine Research Federation Biennial Conference, 8-12 November 2015, Portland, Oregon

Cebrian, J., A. Anton, B. Christiaen, R. Gamble and J. Stutes. Can functional equivalency between seagrass and other coastal habitats offset loss of ecosystem health with reduced seagrass abundance? 2016 Ocean Sciences Meeting, 21-26 February, New Orleans, Louisiana

Sparks, E. L. and J. Cebrian. Improving water quality through cost-effective marsh restoration. 2016. Mississippi Water Resources Conference. Jackson, MS. April 5

Cebrian, J., S. Sharma, J. Goff, C. Ferraro, K. Heck and S. Powers. Restoring Coastal Alabama: Different Approaches for Different Needs. National Conference on Ecosystem Restoration. April 18-22, 2016 Coral Springs, Florida, USA

Cherry, J., E. L. Sparks, S. E. Martin, J. Cebrian and G. Ramseur. The effects of initial planting density and sea-level rise on community structure and ecosystem function in restored tidal marshes. Society of Wetland Scientists Annual Meeting, May 31-June 4 2016, Corpus Christi, TX

Invited keynote addresses:

Cebrian, J., A. Anton, B. Christiaen, R. Gamble, S. Sharma and E. Sparks. Securing coastal ecosystem functionality in the Anthropocene. V Simposio Internacional de Ciencias del Mar, July 20-22, 2016, Alicante (Spain)

Poster contributions with abstract published:

Agawin, N., Cebrian, J. and Duarte, C. M. Response of seagrasses to experimental herbivory "VIth International Congress of Ecology", Manchester (England), August 1994.

Miller, G., Stutes, J., Dunsmuir, A. and Cebrian, J. Eutrophication, seagrass loss and effects on fish populations. American Society of Limnology and Oceanography, 2001 Aquatic Science Meeting (February 12-16), Albuquerque (New Mexico)

Miller, G., Stutes, J., Dunsmuir, A. and Cebrian, J. The effects of seagrass disappearance due to eutrophication on the abundance, diversity, size and diet of associated fish populations. Graduate Student Symposium, February 2001 Dauphin Island Sea Lab (Alabama)

Stutes, J., S. Sari and J. Cebrian. The effects of grazing on seagrass epiphytes in the Baltic Sea: a comparison across latitudinal and nutrient gradients. 31st Annual Marine Benthic Ecology Meeting, March 2002, Orlando (Florida).

Hunter, A. and J. Cebrian. Application of growth reconstruction techniques to *Juncus roemerianus*. 17th Biennial Conference of the Estuarine Research Federation, Seattle, Washington. September 14-18, 2003.

Stutes, J., A. Dunsmuir, A. Hunter, A. Corcoran and J. Cebrian. Examining the response of coastal ecosystems to human impacts: Comparing community production dynamics between seagrass dominated benthos and bare sediment in a pristine and impacted site in NW Florida. 17th Biennial Conference of the Estuarine Research Federation, Seattle, Washington. September 14-18, 2003.

Dunsmuir, A., A. Corcoran and J. Cebrian. Effects of anthropogenic eutrophication on estuarine benthic microalgal communities: Is net community production affected by light and nutrients? 17th Biennial Conference of the Estuarine Research Federation, Seattle, Washington. September 14-18, 2003.

Corcoran, A. and J. Cebrian The Role of Ultraviolet-B Radiation and Nutrient Enrichment Within a Benthic Microalgal Community: Preliminary Results from Outdoor Microcosm Experiments. 17th Biennial Conference of the Estuarine Research Federation, Seattle, Washington. September 14-18, 2003.

Heck, K. L., J. Cebrian and S. Powers. Ecosystem Services Provided by Oyster Reefs: An Experimental Assessment. 7th International Conference on Shellfish Restoration (SeaGrant Program/NOAA NMFS), Charleston, South Carolina, November 17-20 2004.

Plutchak, R., C.D. Foster, A. Anton, K. Sheehan, J. Cebrian, & K. Major. Microphytobenthic productivity associated with the placement of artificial oyster reefs in southern Alabama. 8th Annual Graduate Student Symposium, Dauphin Island Sea Lab, Alabama, February 3-4, 2006

Plutchak, R., C.D. Foster, A. Anton, K. Sheehan, J. Cebrian, & K. Major. Microphytobenthic productivity associated with the placement of artificial

oyster reefs in southern Alabama. 67th Annual Meeting of the Association of Southern Biologists, Gatlinburg, Tennessee, March 29-April 1, 2006.

Sheehan, K. L., J. Cebrian and J. O. Brien. Effects of nutrient-rich water on the parasitism of the common grass shrimp, *Palaemonetes pugio* on Gaillard Island, AL. 1st Alabama-Mississippi Bays and Bayous Symposium, Mobile (Alabama) November 27-29 2006

Sheehan, K. L., J. O'Brien and J. Cebrian. Spatial and temporal abundance patterns of the common grass shrimp *Palaemonetes pugio*, and the trematode parasite, *Microphallus turgidus* around the Mobile Bay, AL Graduate Student Symposium, Ocean Springs, MS. March 2-4 2007

Wells, T., Powell, J., Runnels, D., Rudnick, R.M., Cebrian, J. and Boettcher, A. A change detection study of a coastal saltmarsh in Mississippi. 19th Biennial Conference of the Estuarine Research Federation, Providence (Rhode Island), 4-8 November, 2007

Sheehan, K. L., J. O'Brien and J. Cebrian. Spatial and seasonal patterns of parasite assemblages of grass shrimp in Mobile Bay, AL. 2008. Graduate Student Symposium, LUMCON, Chauvin, LA

Sheehan, K. L., J. O'Brien and J. Cebrian. Spatial and seasonal patterns of parasite assemblages of grass shrimp in Mobile Bay, AL. 2008 University of South Alabama Research Forum, Mobile, AL.

Paradis (Collier), Linda A., Juan L. Mata, and J. Cebrian. Marine fungi on seagrass beds in two Florida lagoons. 2008. Alabama Academy of Sciences Annual Meeting, Birmingham, AL.

Paradis, L. A., J. L. Mata, J. Cebrian and J. Campbell. Marine fungi on seagrass in two Florida lagoons. 2nd Alabama-Mississippi Bays and Bayous Symposium, Biloxi (Mississippi) October 28-29, 2008.

Wells, T, A. Turton, J. Powell, S. Ethridge, B. Manning, S. Peterman, D. Runnels, J. Cebrian and A. Boettcher. Techniques for determining land cover change in a Grand Bay saltmarsh 2nd Alabama-Mississippi Bays and Bayous Symposium, Biloxi (Mississippi) October 28-29, 2008.

Lafabrie, C., Major, K., Major, C.S., Cebrian, J. A comparison of physiology, morphology, and mercury content among populations of *Vallisneria americana* in Mobile Bay, AL. 2009 meeting of the Southern Section of American Society of Plant Biologists, 28 February – 2 March 2009, Austin (Texas), USA.

Mata, J. L., J. Cebrian, L. Paradis and J. Campbell. Mitosporic fungi isolated from seagrasses in the northern Gulf Coast of the United States. The 2009 Annual Mycological Society of America Meeting. Snowbird, UT, USA, July 25-30, 2009

Sheehan, K.L., J. O'Brien, J. Cebrian, P.G.R. Jodice and W.W. Bowerman.. Influence of Avian-Derived Nutrients on Trematodes. Clemson Biological Sciences Annual Student Symposium. November, 2009, Clemson, SC.

Sparks, E. L., J.Cebrian and K. L. Sheehan. Evaluation of two different restoration designs for a *Juncus roemerianus* marsh. 20th Biennial Conference of the Coastal and Estuarine Research Federation, Portland (Oregon), 1-5 November, 2009

Christiaen, B., A. Ortmann, J. Lehrter, A. McDonald and J. Cebrian. Can seagrass restoration increase nitrification in shallow marine sediments? 20th Biennial Conference of the Coastal and Estuarine Research Federation, Portland (Oregon), 1-5 November, 2009

McDonald, A., K. Major, B. Christiaen and J. Cebrian. Light adaptation in *Halodule wrightii* during seagrass restoration: the importance of donor site and depth at planting. 20th Biennial Conference of the Coastal and Estuarine Research Federation, Portland (Oregon), 1-5 November, 2009

Martinez, E., J. M. Ferrero, J. L. Sanchez-Lizaso, J. Cebrian, K. Heck and Y. Pilar-Ruso. Differences in polychaete assemblages in two lagoons in Perdido Bay, North Central Gulf of Mexico, The 10th International Polychaete Conference, Lecce, Italy, June 20-26, 2010

Christiaen, B., A. McDonald, J. Cebrian and A. Ortmann. Do microbe-mediated processes influence the success of seagrass restoration? 13th International Symposium on Microbial Ecology, Seattle, WA, August 22-27, 2010

Sparks, E., A. Langston, K. Phillips, R. Moody, J. Cebrian and M. Woodrey. Tidal flushing through ISIS Oil Exclusion Cylinders. LA Board of Regents: Collaborative Scientific Research Opportunities Relative to the Gulf Oil Spill, New Orleans, Louisiana, November 1-2, 2010.

Moody, R., S. Kerner, L. Biermann, J. Cebrian and K. Heck. The nursery role of fringing salt marshes and submerged aquatic vegetation in coastal Alabama. LA Board of Regents: Collaborative Scientific Research Opportunities Relative to the Gulf Oil Spill, New Orleans, Louisiana, November 1-2, 2010.

Grigas, D., J. Cebrian, B. Ehmen, M. Woodrey, T. Strange, W. Underwood, J. Lehrter and Y. Chen. Loadings of total suspended solids (TSS) from stormwater runoff in a highly urbanized watershed, North Central Gulf of Mexico. The 2010 Southern Division AFS Student Colloquium, Mountain Home, AR. November 5-7, 2010

Grigas, D., J. Cebrian, B. Ehmen, M. Woodrey, T. Strange, W. Underwood, J. Lehrter and Y. Chen. Loadings of total suspended solids (TSS) from stormwater runoff in a highly urbanized watershed, North Central Gulf of Mexico. The 2010 Arkansas Watershed Advisory Group Watershed Conference, Mountain View, AR, November 18-20, 2010

- Gamble, R., J. Cebrian and K. Heck. Abundance and diversity of macroinvertebrate and finfish assemblages in shallow coastal embayments with contrasting seagrass cover. The 2010 Bays and Bayous Symposium, Mobile, Alabama, December 1-2, 2010.
- Ehmen, B., D. Grigas, T. Strange, W. Underwood, J. Lehrter, Y. Chen, J. Cebrian and M. Woodrey. Development of a Habitat-Health Assessment Tool for Managers and Decision-Makers: A Focus on Watershed Development and Its Impacts on Estuarine Communities. The 2010 Bays and Bayous Symposium, Mobile, Alabama, December 1-2, 2010.
- Sharma, S., J. Goff, D. Byron, J. Cebrian, K. Heck and S. Powers. Potential impacts of restored oyster reefs on water quality and submerged aquatic vegetation. The 2010 Bays and Bayous Symposium, Mobile, Alabama, December 1-2, 2010.
- Moore, L., J. McKee, K. Watson, J. DeQuattro, K. Heck, S. Powers and J. Cebrian. Using breakwaters to restore emergent salt marsh in the Northern Gulf of Mexico. The 2010 Bays and Bayous Symposium, Mobile, Alabama, December 1-2, 2010.
- McDonald, A., P. Prado, J. Cebrian and K. Heck. How does our seagrass “measure up”? : A large scale comparison of morphological and growth attributes of the seagrass *Thalassia testudinum* in the Gulf of Mexico . The 2010 Bays and Bayous Symposium, Mobile, Alabama, December 1-2, 2010.
- Torr-Brown, S., M. Roser, M. Gay, R. Moody and J. Cebrian. Saltmarsh remediation of hydrocarbon surface contamination utilizing in-situ isolation systems (ISIS). National Council for Science and the Environment, 11th National Conference “Our Changing Oceans”, Washington DC, January 19-21, 2011.
- Moody R., S. Kerner, L. Biermann, J. Howard, J. Cebrian, K. Heck and S. Powers. Temporal dynamics of nekton abundance in a coastal fringing marsh: Impact of the oil? The 27th Alabama Fisheries Association Meeting, Mobile, Alabama, February 2-4, 2011.
- Christiaen, B., A. Ortmann, A. McDonald and J. Cebrian. Do microbe-mediated processes influence the success of seagrass restoration? 2011 University of South Alabama Student Research Forum, Mobile, Alabama, March 28-31, 2011.
- Kerner, S., R. Moody, L. Biermann, J. Cebrian, K. Heck and S. Powers. Temporal dynamics of salt-marsh and seagrass utilization of commercial shellfish species in the northern Gulf of Mexico: Impact of the oil spill? The 2011 Northern Gulf Institute Annual Conference, Mobile, Alabama, May 17-19, 2011.

Scheffel, W., K. L. Heck, J. Cebrian, and R. M. Moody. Has the Deepwater Horizon oil spill had a negative impact on the seagrass communities and associated juvenile finfish and shellfish in the North Central Gulf of Mexico? The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Kerner, S. M., E. Sparks, K. Watson and J. Cebrian. Gulf Coast salt marshes; does eutrophication = more grazing? The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011.

Shailesh, S., B. Ehmen, M. Woodrey, J. Lehrter, D. Grigas, Y. Chen, and J. Cebrian. Comparative study of water quality parameters in three sub-estuaries: an impact of different watershed land use pattern. The DISL/GCRL Graduate Student Symposium, Dauphin Island, Alabama, March 2-4, 2012.

Grigas, D., J. Cebrian, B. Ehmen, M. Woodrey, T. Strange, W. Underwood, J. Lehrter, and Y. Chen. Nutrient budgets in coastal bayous under varying degrees of urbanization, North Central Gulf of Mexico. Ecological Society of America Annual Conference, Portland, Oregon, August 5-10, 2012.

Grigas, D., J. Cebrian, B. Ehmen, M. Woodrey, T. Strange, W. Underwood, J. Lehrter, and Y. Chen. Effects of watershed urbanization on fish communities in coastal bayous, North Central Gulf of Mexico. The 4th International EcoSummit, Columbus, Ohio, September 30th-October 5th, 2012.

Garrote-Moreno, A., A. McDonald, J. L. Sanchez-Lizaso, K. Heck and J. Cebrian. Short-term impacts of salinity pulses on *Thalassia testudinum* and *Halodule wrightii*. 10th International Seagrass Biology Workshop, Rio de Janeiro, Brazil, 25-30 November 2012.

Dean Carrier J., E. Sparks, M. Woodrey, J. McCreadie, J. Cebrian and A. Boettcher. Herbivore pressure driving forces across the Northern Gulf of Mexico salt marshes. The 20th annual USA Faculty Development Council Spring Research Forum, Mobile, AL, March 18-21, 2013.

Gericke, R.L., Heck, K.L., Cebrian, J., Power, S., DeQuattro, J. The value of living shorelines in reducing erosion and enhancing ecosystem services. 42nd annual Benthic Ecology Meeting; 2013 March 20-24; Savannah, GA.

Goff, J., J. Cebrian and J. Lehrter. Ecological applications of real-time kinematic GPS: Two studies in the northern Gulf of Mexico. 42nd annual Benthic Ecology Meeting; 2013 March 20-24; Savannah, GA.

Scheffel, W. A., K. L. Heck, J. Cebrian and M. Johnson. Black mangrove (*Avicennia germinans*) expansion into northern Gulf of Mexico salt marshes: what changes can we expect? 42nd annual Benthic Ecology Meeting; 2013 March 20-24; Savannah, GA.

Scheffel, W. A., K. L. Heck, J. Cebrian and M. Johnson. Black mangrove (*Avicennia germinans*) expansion into northern Gulf of Mexico salt marshes: what changes can we expect? Graduate Student Symposium, April 2013, Ocean Springs, Mississippi.

Grigas, D., Cebrian, J., Ehmen, B., Woodrey, M., Strange, T., Underwood, W., Lehrter, J., Chen, Y. 2013. Stormwater runoff loadings to coastal bayous under a gradient of watershed urbanization, North Central Gulf of Mexico. The World Environmental and Water Resources Congress 2013, May 20 – 22, Cincinnati, Ohio, USA.

Moody, R., J. Cebrian, A. Macy and K. Heck. Interannual recruitment dynamics for resident and transient marsh species: evidence for a lack of impact by the Macondo Oil Spill. 2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference, January 26-29, 2014, Mobile (Alabama).

Marco-Mendez, C., L. M. Ferrero-Vicente, P. Prado, K. Heck, J. Cebrian and J. L. Sanchez-Lizaso. Epiphyte presence and seagrass species identity influences herbivory rates in Mediterranean seagrass meadows. 40th Benthic Ecology Meeting, March 19-22, 2014, Jacksonville (Florida)

Wessel, C and J. Cebrian. Assessing the abundance, distribution and toxicity of microplastics in nearshore areas of the Gulf of Mexico. 2014 Gulf Coast Graduate Student Symposium, February 21-23, 2014, Chauvin (LUMCON, Louisiana) (People's choice)

Wessel, C. and J. Cebrian. Assessing the abundance, distribution and toxicity of microplastics in nearshore areas of the Gulf of Mexico. University of South Alabama Spring Research Forum, March 2014, Mobile, Alabama

Macy, A., J. Cebrian, M. Osland and J. Cherry. Ecosystem engineering capacities of *Avicennia germinans* and *Spartina alterniflora* in the mangrove/marsh ecotone under freeze and sea level rise stressors. Gulf Estuarine Research Society Biannual Meeting, October 30-31 2014, Port Aransas, TX.

Wessel, C., D. Battiste and J. Cebrian. Assessing the abundance and distribution of microplastics in a Gulf of Mexico estuary. Gulf Estuarine Research Society Biannual Meeting, October 30-31 2014, Port Aransas, TX.

West, L., R. Moody, J. Cebrian, R. Aronson, K. Heck and D. Byron. Comparing nekton communities between fringing coastal marshes and adjacent seagrass beds. Gulf Estuarine Research Society Biannual Meeting, October 30-31 2014, Port Aransas, TX.

Hutchison, L. M., J. Cebrian, A. Macy and D. Yoskowitz. Meta-analysis of carbon storage in Gulf of Mexico salt marshes and mangroves. A Conference on Ecosystem Services (ACES), December 10, 2014, Arlington, VA

Macy, A., J. Cebrian and J. Cherry. Buffering wave buffers: implications for accelerating restoration efforts in the marsh-mangrove ecotone. 2015 Gulf Coast Graduate Student Symposium, March 14, 2015, Dauphin Island, AL

Wessel, C., D. Battiste and J. Cebrian. Assessing the abundance and distribution of microplastics in a Gulf of Mexico estuary. 2015 Gulf Coast Graduate Student Symposium, March 14, 2015, Dauphin Island, AL (First place)

Wessel, C., D. Battiste and J. Cebrian. Assessing the abundance and distribution of microplastics in a Gulf of Mexico estuary. USA Faculty Development Council's Spring Research Forum, March 2015, Mobile, Alabama

Macy, A., J. Cebrian and J. Cherry. Buffering wave buffers: implications for accelerating restoration efforts in the marsh-mangrove ecotone. Mississippi Water Resources Conference, April 7-8, 2015, Ridgeland, MS (2nd place poster presentation)

West, L., R. Moody, R. Gamble, K. Heck, D. Byron and J. Cebrian. Comparing nekton communities between fringing coastal marshes and adjacent seagrass beds. Mississippi Water Resources Conference, April 7-8, 2015, Ridgeland, MS.

Sparks, E., J. Cebrian, M. Shelton, J. Haner, R. Collini, E. Brunden, S. Phipps and L. G. Adams. End-User Derived Research to Improve the Effectiveness, Sustainability, and Prevalence of Coastal Restoration Designs. 2015 NERRS/NERRA Annual Meeting, October 26-29 2015, Mobile (Alabama) (also presented as oral contribution)

Hughes, R., W. Scheffel, J. Goff, P. Sobecky, B. Mortazavi, N. Flournoy, J. Cebrian and K. Heck. Impacts of Deepwater Horizon Oil Spill on Wetlands Resiliency. Gulf of Mexico Oil Spill and Ecosystem Science Conference, February 1-4, 2016, Tampa Bay, Florida

Wessel, C., K. Albins and J. Cebrian. Plastic beaches: Occurrence and accumulation of marine debris on barrier islands in the northern Gulf of Mexico. 2016 Ocean Sciences Meeting, 21-26 February, New Orleans, Louisiana

Hughes, A. R., K. Heck, J. Cebrian, B. Mortazavi, P. Sobecky, N. Flournoy, W. Scheffel and J. Goff. Impacts of Deepwater Horizon Oil Pollution on Wetlands Resiliency. Benthic Ecology Meeting, March 2016, Portland, Maine

Wessel, C., K. Albins and J. Cebrian. Plastic beaches: Occurrence and accumulation of marine debris on barrier islands in the northern Gulf of Mexico. USA Faculty Development Council's Spring Research Forum, March 23, 2016, Mobile, Alabama

Scheffel, W., K. L. Heck, J. Cebrian and M. Johnson. Impacts of black mangrove expansion on faunal communities in the Northern Gulf of Mexico. Mangrove and Macrobenthos Meeting, July 2016, St. Augustine, Florida

Marco-Mendez, C., C. Wessel, W. Scheffel, L. Ferrero-Vicente, Y. Fernandez-Torquemada, J. Cebrian, K. L. Heck and J. L. Sanchez Lizaso. Lack of impact of Posidonia leaf nutrient enrichment on Sarpa salpa herbivory: additional evidence for the generalist consumer behavior of this cornerstone Mediterranean herbivore. V Simposio Internacional de Ciencias del Mar, July 20-22, 2016, Alicante (Spain)

Moderator:

MBL annual general scientific meeting, Woods Hole (Massachusetts), August 1997.

The 8th International Seagrass Biology Workshop, moderator of Oral Session #7 "The role of nutrients in seagrass beds; when is enough enough?" Bamfield, Canada, August 31-September 5, 2008

Facilitator for Panels "Sea-Level Rise in the Gulf of Mexico: Observed and Potential Impacts on the Ecosystems and Communities" and "Measurement and Mitigation of Sea-Level Rise's Long-Term Impacts on Wetland Equilibrium and Coastal Erosion" at the International Integration Workshop on Sea Level Rise, Merida, Yucatan, Oct 21-23, 2013. Gulf of Mexico Foundation/Gulf of Mexico Alliance/Gulf of Mexico Program

Organization:

Secretary of the workshop: " Long-term Data Sets in European Marine Stations: assesing the Biological Consequences of Global Change" (Blanes, May, 27th - 29th, 1991; funded by the program MAST DG-XII).

Member of the organization committee of the workshop: "VIII Iberian Symposium on the study of Marine Benthos" (Blanes, February 21st -25th 1994).

Chair of the BUMP/MBL fall-series seminar committee: 1997, 1998, 1999

Organizer and chair of special session: "Eutrophication, Macroalgal Blooms and Coastal Ecosystem Services" (SS 57), 2005 ASLO Summer Meeting. Santiago de Compostela (Spain), June 19-24, 2005.

Organizer and chair of special session: "Large Scale Natural Events" 19th Biennial Conference of the Estuarine Research Federation, Providence (Rhode Island), 4-8 November, 2007

Member of the organization committee (DISL/ADEM/ADCNR) of the workshop on Submerged Aquatic Vegetation for environmental managers and regulators, Five Rivers Center, October 2008 and 2009

Co-organizer of the Dedicated Session: "Restoration Practices in Coastal Alabama", 2010 Restore America's Estuaries. Galveston Island Convention Center, Galveston Island, TX, November 13-17, 2010.

Chair of the "Habitat Management" Session of the 2010 Bays and Bayous Symposium

Member of the Program Committee of the XL Benthic Ecology Meeting, Mobile (Alabama, USA), March 16-20, 2011

Chair of the Session "Ecosystem Function" of the XL Benthic Ecology Meeting, Mobile (Alabama, USA), March 16-20, 2011

Co-chair of the session "Seagrass-Animal Interactions" The 21st Biennial Conference of the Coastal and Estuarine Research Federation, Daytona Beach, Florida, 6-10 November 2011

Co-chair of the session: "Shifting Baseline Populations" 2012 Coastal Estuarine Research Federation meeting, Mar del Plata, Argentina, 11-14 November 2012

Co-chair of the session: "Food web interactions and trophic linkages" ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, Louisiana

Member of Program Committee for the professional meeting 2014 RAE (Science and Technology subcommittee)

Member of Program Committee for the professional meeting 2014 Bays and Bayous (chair of the Habitat session)

Member of the Program Committee for the 2016 Restore American Estuaries Conference (8th National Summit on Coastal and Estuarine Restoration)

4.3 Invited Seminars and Talks

Title: The ecological role of seagrasses
Location: Natural Park "Penyal d'Ifach" (Calpe, Spain)
Date: April 1993

Title: Growth-rate dependent herbivory in natural plant communities
Location: Biology Department, McGill University
Date: September 1993

Title: Seagrasses as a food resource for marine herbivores
Location: Natural Park "Penyal d'Ifach" (Calpe, Spain)
Date: June 1994

Title: Diversity in the Mediterranean Benthic Community
Location: Natural Park "Penyal d'Ifach" (Calpe, Spain)
Date: July 1994

Title: Fishes in the Spanish Mediterranean Coast
Location: Natural Park "Penyal d'Ifach" (Calpe, Spain)
Date: September 1994

Title: The trophic fate of the production of Mediterranean seagrasses
Location: Marine Resources Department, University of Alicante
Date: October 1996

Title: Patterns in leaf herbivory on seagrasses
Location: Boston University Marine Program
Date: March 1997

Title: Plant turnover rate as a predictor of ecosystem properties
Location: The Ecosystem Center (Marine Biological Laboratory)
Date: December 1997

Title: Plant turnover rate as a predictor of ecosystem properties
Location: Institute of Ecosystem Studies (Millbrook, NY)
Date: April 1998

Title: The dependence of ecosystem trophic properties on plant composition and nutritional quality: predicting the effects of coastal anthropogenic eutrophication on these properties
Location: CIMIC, Rutgers University (Newark, NJ)
Date: November 1998

Title: The dependence of ecosystem trophic properties on plant composition and nutritional quality: predicting the effects of coastal anthropogenic eutrophication on these properties
Location: Department of Biology, McGill University
Date: November 1998

Title: Controls on the composition and trophic fate of primary production in ecosystems: assessing the effects of coastal anthropogenic eutrophication on these properties

Location: School of Biological Sciences, Louisiana Tech University

Date: January 1999

Title: Nature and controls of the trophic fate of production in plant communities

Location: Department of Biology, Boston University

Date: April 1999

Title: Controls on the composition and trophic fate of primary producers in ecosystems: assessing the effects of coastal anthropogenic eutrophication on these properties

Location: Dauphin Island Sea Lab, AL

Date: April 1999

Title: Controls on the composition and trophic fate of primary producers in ecosystems: assessing the effects of coastal anthropogenic eutrophication on these properties

Location: CINVESTAV-IPN (Mérida, México)

Date: September 1999

Title: Composition, palatability and trophic fate of plant communities: exploring the effects of anthropogenic marine eutrophication

Location: University System of Maryland, Horn Point Laboratory

Date: December 2000

Title: Composition, palatability and trophic fate of plant communities: exploring the effects of anthropogenic marine eutrophication

Location: Department of Biology, University of Alabama

Date: April 2001

Title: Producer nutritional quality and energy flux in ecosystems

Location: Department of Biology, University of New Mexico

Date: March 2003

Title: People, Shorelines and Ecological Integrity

Location: Dauphin Island Sea Lab, Summer Programs

Date: July 2008

Title: People, Shorelines and the Health of Coastal Waters

Location: Innerarity Road Community Center (Perdido Key, Florida)-Guest Speaker for the 2009 Annual Perdido Key Association meeting

Date: March 14, 2009

Title: People, Shorelines and the Health of Coastal Waters

Location: Innerarity Road Community Center (Perdido Key, Florida)-Presentation to Local Community on Human Development and Coastal Water Quality

Date: March 19, 2009

Title: Changes in Aquatic Primary Producers due to Nutrient Enrichment: Consequences to the Food Webs

Location: Departamento de Ciencias del Mar y Biología Aplicada,
Universidad de Alicante, Spain
Date: September 2009

Title: Colonization and functionality of two black needlerush (*J. roemerianus*) marsh restoration designs
Location: Grand Bay National Estuarine Research Reserve; 1st Research Symposium
Date: October 2011

Title: Dumping nutrients into shallow coastal systems: patterns, causes and consequences of ecosystem change
Location: Florida International University
Date: April 2012

Title: Dumping nutrients into shallow coastal systems: patterns, causes and consequences of ecosystem change
Location: Virginia Institute of Marine Sciences
Date: April 2012

Title: Can functional equivalency mitigate anthropogenic change in shallow coastal ecosystem services?
Location: Gulf Breeze EPA laboratory
Date: August 2014

4.4 Stays in Foreign Centers

Location: University of Perpignan (France)
Year and duration: 1990-91. Six months
Activity performed: M.S courses

Location: Laboratory Aragon (Banyuls sur mer, France)
Year and duration: 1990. Three weeks
Activity performed: B.S courses

Location: Laboratory of Marine Biology of Roscoff (France)
Year and duration: 1990. One month
Activity performed: Systematic and ecology of Atlantic benthic communities

Location: Laboratory Aragon (Banyuls sur mer, France)
Year and duration: 1990. Two weeks
Activity performed: M.S courses

Location: Laboratório Marítimo da Guia (Portugal)
Year and duration: 1991. Three weeks
Activity performed: Survey of Portuguese seagrass communities

Location: McGill University
Year and duration: 1993. Six weeks
Activity performed: Literature research on ecosystem detritus dynamics

Location: UNAM, Mazatlan (Mexico)
Year and duration: 1998. Three weeks
Activity performed: Taught course "Coastal Eutrophication" and research on ecological effects of shrimp farming

Location: CINVESTAV-IPN (Merida, Mexico)
Year and duration: 1999. Four weeks
Activity performed: Research on the use of seagrasses as indicators of environmental stress

Location: Universidad del Mar del Plata (Mar del Plata, Argentina)
Year and duration: March 2006, 10 days
Activity performed: Delivery of a graduate course and participation in research activities

Location: Centro de Estudios Avanzados del Mediterraneo (CSIC, Mallorca, Spain)
Year and duration: May 2006, two weeks
Activity performed: Participacion in a workshop and research activities

Location: Centro de Investigaciones Marinas (Universidad de Alicante, Spain)
Year and duration: September 2006, two weeks
Activity performed: Graduate Course: "Anthropogenic Impacts on Coastal Ecosystems"

Location: Inter-Research (Ecology Institute; Oldendorf/Luhe) and The Institute for Chemistry and Biology of the Marine Environment (Wilhelmshaven), Germany
Year and duration: June-July 2009, one week
Activity performed: visit to Inter-Research (MEPS Editorial Office) and participation in the workshop "Effects of global change on carbon sequestration and food web structure across ecosystems", June 30-July 3, 2009, Oldenburg/Wilhelmshaven (Germany).

Location: Centro de Investigaciones Marinas (Universidad de Alicante, Spain)
Year and duration: September 2009, two weeks
Activity performed: Graduate Course: "Anthropogenic Impacts on Coastal Ecosystems"

Location: Centro de Investigaciones Marinas (Universidad de Alicante, Spain)
Year and duration: September 2011, two weeks
Activity performed: Graduate Course: "Anthropogenic Impacts on Coastal Ecosystems"

Location: Universidad del Mar del Plata (Mar del Plata, Argentina)
Year and duration: March 2012, 3 weeks
Activity performed: Research on marsh ecology (regulation of marsh ecosystem function)

Location: Universidad del Mar del Plata (Mar del Plata, Argentina)
Year and duration: November 2012, 10 days

Activity performed: Research on marsh ecology (regulation of marsh ecosystem function)

Location: Centro de Investigaciones Marinas (Universidad de Alicante, Spain)

Year and duration: September 2013, two weeks

Activity performed: Graduate Course: "Anthropogenic Impacts on Coastal Ecosystems"

Location: Spring City Culture International

Year and duration: September 2014, one week

Activity performed: Meeting about creation of a new journal "Coastal Resiliency and Management"

Location: Centro de Investigaciones Marinas (Universidad de Alicante, Spain)

Year and duration: August 2015, two weeks

Activity performed: Graduate Course: "Anthropogenic Impacts on Coastal Ecosystems"

Location: Universidad del Mar del Plata (Mar del Plata, Argentina)

Year and duration: January 2016, one week

Activity performed: Research on blue carbon storage in marsh ecosystems

4.5 Review activities

4.5.1 Referee in scientific journals

<u>Journal</u>	<u>Total number</u>
The Biological Bulletin	3
Gulf of Mexico Science	2
Annals of Botany	1
Marine Biology	2
Mar. Ecol. Prog. Ser.	49 (not including reviews as a Contributing Editor)
Plant Ecology	1
Scientia Marina	3
J. Phycology	1
Ecol. Appl.	2
Turkish J. of Botany	1
Limnol. Oceanogr.	5
Environmental Management	1
Estuaries and Coasts	5

PSZN Marine Ecology	1
Ecology Letters	8
Estuarine, Coastal and Shelf Science	6 (1)
Nature	2
Science	3 (2)
Proceedings Natural Academy Sciences	3
Ecology	6
Oikos	3
Aquatic Botany	9 (1)
The American Naturalist	2
Marine Biology Research	1
Ambio	1
Botanica Marina	1
Aquatic Microbial Ecology	1
Gulf and Caribbean Research	2
Functional Ecology	1

4.5.2 Referee of Book Chapters

“Methods for the measurement of seagrass growth”, in “Global Seagrass Research Methods”, edited by Short and Coles

"The Central Role of Grazing in Seagrass Ecology", in " Seagrasses: Biology, Ecology, Functions, and Conservation", edited by T. Larkum, C. M. Duarte and R. Orth.

4.5.3 Referee of proposals

<u>Agency</u>	<u>Total number</u>
Mississippi-Alabama Sea Grant	1
Florida Sea Grant	1
Virginia Sea Grant	1
Natural Environmental Research Council (UK)	2
University of Southern California Sea Grant	1
Maryland Sea Grant College	1
NOAA South Florida Program	5
The Research Council of Norway	1
NERRS graduate fellowships	5
CICEET	1
National Science Foundation	15 (3)
Foundation Banco Bilbao Vizcaya Argentaria	2
NOAA Coastal Hypoxia Research Program	1
AGAUR (Catalan NSF)	32 (6)

Research Grant Council of Hong Kong	1
ANPCyT (Argentina)	1
ANEP (Spain)	1
Gulf Coast Ecosystem Restoration Council	1 (1)

4.5.4 Reviewer of book proposals

“Coral Reef Marine Plants of Hainan Island” by Antoninovich, Viktorovna, Li and Huang (Elsevier)

4.5.5 Referee of tenure/promotion packages

Reviewer of Dr. Patrick Biber’s package for consideration of promotion from Assistant to Associate Professor and tenure at the Department of Coastal Sciences of the University of Southern Mississippi

Reviewer of Dr. Enrique Reyes’ package for consideration of promotion from Associate to Full Professor at the Department of Biology of East Carolina University

Reviewer of Dr. Scott Milroy’s package for consideration of promotion from Assistant to Associate Professor and tenure at the Department of Marine Science of the University of Southern Mississippi

4.5.6 Staff Appointments

<u>Journal or Agency</u>	<u>Appointment</u>	<u>Tenure</u>
Mar. Ecol. Progr. Ser.	Staff Referee	2002-2005
Aquatic Botany	Staff Referee	2004-present
AGAUR (Catalan NSF)	Proposal Evaluator	2005-present
FBBVA (Spanish Foundation)	Proposal Evaluator	2006-present
Australian Research Council	Assessor	2013-present

4.6 Editorial Boards

<u>Journal</u>	<u>Appointment</u>	<u>Tenure Period</u>
Mar. Ecol. Progr. Ser.	Review Editor	2005-2007
Mar. Ecol. Progr. Ser.	Contributing Editor	2007-present
The Open Oceanography Journal	Board Member	2007-present
The Open Marine Biology Journal	Board Member	2007-present
Gulf and Caribbean Research	Associate Editor	2010-present
The International Scholarly Research Network Ecology Journal	Board Member	2010-present
Public Library of Science PLoS ONE	Academic Editor	2011-present

4.7 Panels, Workshops and Working Groups

Presenter in the Mississippi-Alabama Sea Grant Consortium Program Assessment Review for evaluation by NOAA of the work and activities done by the Consortium. Dauphin Island (AL) May 2003.

TNC (The Nature Conservancy of Alabama) workshop "Mobile Bay/Delta Bio-hydrobiology" to select preservation targets for Mobile Bay and Delta. Mobile (AL) August 2004.

AMRAT (Alabama-Mississippi Rapid Assessment Team) workshop "Mississippi Rapid Assessment" to identify invasive species along the coast of Mississippi. Gulf Coast Research Laboratory (Mississippi) September 2004.

EPA Workshop "Response of Aquatic Food Webs to Nutrient Enrichment: Assessing the State of the Science" Presenter/Moderator. EPA Gulf Breeze Laboratory (Florida) March 2-4, 2005

NCEAS (National Center for Ecological Analysis and Synthesis) working group "Trophic Structure Comparisons" Santa Barbara (California) October 2005-December 2007.

Participant as a Research Collaborator/Cooperator in the National Oceanic and Atmospheric Administration 312 Review (3-year Review) of the Weeks Bay National Estuarine Research Reserve, 20-23 March 2007, Weeks National Estuarine Research Reserve, Alabama,

Invited presenter at workshop "Managing Storm-water" organized by the Mississippi Coastal Plains Resource Conservation and Development Council, Mississippi Department of Environmental Quality, Mississippi Department of Marine Resources/ Grand Bay National Estuarine Research Reserve, and the Pascagoula River Audubon Center. Presenter/Moderator. Grand Bay NEER, September 25, 2007.

Participant as a Research Collaborator/Cooperator in the National Oceanic and Atmospheric Administration 312 Review (3-year Review) of the Grand Bay National Estuarine Research Reserve, 27-30 November 2007, Mississippi Department of Marine Resources, Grand Bay National Estuarine Research Reserve, Moss Point, Mississippi

Invitee/Participant in workshop to complete the Grand Bay National Estuarine Research Reserve's Conceptual Model For Ecological Risk Assessment and Management, 17-18 December 2007, Mississippi State University - Coastal Research and Extension Center, Biloxi, Mississippi,

Participant in Sea Level Rise workshop organized by NOAA (January 2008, Gulf Breeze, Florida) and contribution to the white paper used to develop the 2009 NOAA funding opportunity: "Ecological Effects of Sea Level Rise Program"

Participant in one of the workshops organized by The Mississippi Alabama Sea Grant Consortium to develop a Gulf of Mexico Research Plan, Mississippi State University Coastal Research and Extension Center, January 17, 2008 (whole report available at <http://www.masgc.org/gmrp/report.htm> where you can see a picture of mine engaged in the discussions)

ADCNR workshop on Submerged Aquatic Vegetation. Presenter. October 8, 2008 and October 7, 2009.

Participant in Coastal Habitat Classification Team workshops and contribution to development of Mobile Bay Coastal Habitat Maps organized by NOAA and Mobile Bay NEP, December 2008 (Mobile, Alabama), April 2009 (Dauphin Island, Alabama), January 2010 (Mobile, Alabama).

Invited presenter at the NOAA Gulf of Mexico Regional Collaboration Team conference/workshop on Integrated Ecosystem Assessments Workshop. February 5, 2009, Bay St. Louis, Mississippi.

Invited presenter at the Gulf of Mexico Alliance Nutrient Criteria Research Framework Workshop, March 10-12, 2009, New Orleans (Louisiana).

Participant in the workshop "Effects of global change on carbon sequestration and food web structure across ecosystems", June 30-July 3, 2009, Oldenburg/Wilhelmshaven (Germany), funded by the German Science Foundation

Attendee to the workshop: "Integrated Modeling and Analysis to Support the Management and Restoration of Large Aquatic Ecosystems" organized by the Environmental Protection Agency, Washington DC, January 20-21, 2010

Participant in the development of an online method to streamline proposal reporting and submission for researchers organized by the Mississippi-Alabama Sea Grant Consortium (MASGC Database Focus Group), January/February 2010

Participant in an implementation workshop for the NASA funded project: "The Application of Remotely Sensed Data and Models to Benefit Conservation and Restoration along the Northern Gulf of Mexico Coast" (PI: Maury Estes), Five Rivers Center, Spanish Fort, AL, January 29, 2010

Presenter at the Numeric Nutrient Criteria workshop organized by the Department of Environmental Protection (State of Florida) and the Environmental Protection Agency, Pensacola, FL, February 10, 2010

Presenter at the Gulf of Mexico Integrated Ecosystem Assessment workshop, New Orleans, LA, April 6-7, 2010.

Invitee to EPA workshops on Alternative Coastal Protection and Clean-Up Technology against the DWH Oil spill held by the agency head Lisa Jackson and her team, New Orleans, May 11 and June 5 2010

Panelist and presenter in the session "Coastal Systems" in the JSOST Deepwater Horizon Oil Spill Principal Investigator (PI) Conference, St. Petersburg, FL, October 5-6, 2010

Presenter in the Technical Session on Modeling Approaches and Data Needs with Focus on Ecological and Physical Process organized by the GOMA Habitat Conservation and Restoration Team, Sea Level Rise subteam, in Saint Petersburg, Florida, November 3-4, 2010

Participant in workshop: “Development of GOM Digital Atlas” organized by NCDDC (NOAA), Grand Bay NERR, January 18, 2011

Member of the Executive Committee and Subject Matter Expert (Perdido Coastal Lagoons) for the GOM Digital Atlas Development Team organized and coordinated by NCDDC (NOAA). January 2011-present.

Participant in an implementation workshop for the NASA funded project: “The Application of Remotely Sensed Data and Models to Benefit Conservation and Restoration along the Northern Gulf of Mexico Coast” (PI: Maury Estes), Five Rivers Center, Spanish Fort, AL, January 21, 2011

Organizer of workshop: “Earth System Modeling for Integrated Assessment of Ecosystems” Gulf Coast Research Laboratory, Biloxi, Mississippi, January 26-27, 2011.

Presenter at the workshop: “Earth System Modeling for Integrated Assessment of Ecosystems” Gulf Coast Research Laboratory, Biloxi, Mississippi, January 26-27, 2011.

State of Alabama representative for the Gulf of Mexico Alliance Steering Committee on Habitat Conservation and Restoration. February 2011-present

Member of the Alabama TNC Scientific Advisory Council for the development of restoration criteria in the 100:1000 Restoration Partnership.

Presenter at the workshop “Submerged Aquatic Vegetation and Seagrass of Louisiana, Mississippi, and Alabama Coasts”, Grand Bay NERR, May 24, 2011.

Member of the Science Advisory Committee for the Mobile Bay National Estuarine Program. April 2011-present

Member of the Northern Gulf Institute Council of Fellows. September 2011-present

Member of the NOAA/Gulf of Mexico Sea Grant Hydrological Restoration Monitoring Panel for successful restoration partnership in the Gulf of Mexico (two working groups: “SAV” and “Nekton”) September 2011-present

Invitee to the workshop: “Integrating Ecosystem Services into Restoration Decisions for the Gulf of Mexico”, The Harte Research Institute, 24-26 January 2012

Member of the NOAA Integrated Ecosystem Assessment-Ecosystem Services Working Group led by Chris Kelble. May 2012-present

Advisory member of the NASA-funded project: “The Application of Remotely Sensed Data and Models to Benefit Conservation and Restoration along the Northern Gulf of Mexico Coast” led by Maurice Estes, and participant in the workshop on such project held at the 5 Rivers Delta Resource Center on August 15, 2002.

Member of the Mobile Bay National Estuary Program stakeholder team to develop a five year strategy for protecting and sustaining healthy beaches and shorelines along the Alabama Coast; “Beaches and Shoreline” Team. Fall 2012

Participation (DISL representative) in the Gulf of Mexico Alliance open-Gulf Round Robin nutrient comparison. Fall 2012

Participant in the workshop: “Ecosystem Services Provided by Gulf of Mexico Habitats: Tools, Valuation and Application” Harte Research Institute, September 5-6, 2012

Participation in workshop “Healthy Watersheds, BCG, Biological Indicator Development-Building Partnership with ADEM” organized by MBNEP, Auburn University Marine Extension and Research Center, February 6th 2013

Member of the ANEP (Agencia Nacional de Evaluacion y Prospectiva) Panel from the “Spanish Ministerio de Economia y Competitividad” for the evaluation of the “Ramon y Cajal” and “Juan de la Cierva” program applicants, Madrid (Spain), March 2013

Member of the NSF Ecosystem Panel: Spring 2013

Panel member for the NOAA Science Collaborative Grant Program February-May 2013

Presenter and Organizer for “Alabama Living Shoreline Collaborative: Ecology and Engineering Workshop” organized by the Southern Environmental Law Center, 5 River Delta Resource Center, Spanish Fort (Alabama), August 21, 2013

International Integration Workshop on Sea Level Rise, Merida, Yucatan, Oct 21-23, 2013. Gulf of Mexico Foundation/Gulf of Mexico Alliance/Gulf of Mexico Program

GRSMMP Subcommittee workshop (GOMA-HCRT Blueprint meeting), Pensacola, August 19-20, 2014

5th Ecosystem Approach to Management (EAM) Workshop, Baton Rouge 15-17 April 2014

Member of the NSF Ecosystem Panel: Fall 2013

Member of the Mobile Bay National Estuary Program working group “Recommendations towards and integrated, comprehensive and conventional monitoring protocol” 2014

Eric Sparks and Just Cebrian. 2014. Wetland Carbon Sequestration Science. Carbon Market Credits and Conservation Benefits Conference. Fairhope, AL. September 26.

Participation in Panel “Developing a Restoration Portfolio for Long-Term Oyster Sustainability in the Gulf of Mexico” (Judy Haner and William Walton, Chairs) The 16th International Conference on Shellfish Restoration, December 10-13, 2014, Charleston, South Carolina

Wessel, C, D. Battiste and J. Cebrian. Assessing the abundance, distribution and toxicity of microplastics in Mobile Bay. Presentation for the Center for Environmental Resiliency Year 1 Research Workshop, January 9, 2015, Mobile, Alabama.

Participation in the Sentinel Site Cooperative Partner Workshop, April 28, 2015 (Grand Bay NERR; Cebrian is the DISL POC for this Cooperative)

Participant in the NOAA/NRDA working group “Estuarine Dependent Water Column Resources” to assess damage penalties resulting from the 2010 BP oil spill, Spring 2014-Summer 2016

Member of the NSF Coastal SEES Virtual Panel: Fall 2015

Participation (as a researcher experienced in the Reserve) in the Fall 2015 multiyear Evaluation Meeting of the Weeks Bay NERR conducted by a NOAA panel

Participant in “COMPASS: Gulf of Mexico Research Initiative Communications Training Workshop”, New Orleans, January 7, 2016

4.8 Presentations for Agencies and Evaluation Panels

May 2003 Presentation "Ecosystem services of shoalgrass (*Halodule wrightii*) meadows: An exploratory analysis using MASGC Program Development Funds" to a NOAA panel for the evaluation of MASGC-funded projects

January 2004 Presentation "Benthic Microalgae, Seagrasses and Marshes: Studying Anthropogenic Impacts on Coastal Ecosystems" to a panel for the evaluation of ACES-funded projects

June 2006. Presentation to an EPA evaluation panel (i.e. 2006 MBNEP Implementation Review Panel) about our MBNEP-funded research to restore and manage SAV

January 2007. Presentation in Research Round-Up for the Alabama Department of Conservation and Natural Resources: "The effect of artificial oyster reefs on primary production and nutrient stocks in shallow coastal creeks"

December 2007. Presentation "The effect of artificial oyster reefs on primary production and nutrient stocks in shallow coastal creeks" to a NOAA panel for the evaluation of ADCNR-funded research projects

November 2008. Presentation: “Effects of Eutrophication on Ecological Services Provided by a Shoalgrass (*Halodule wrightii*)/Widgeongrass (*Ruppia maritima*) Meadow in the North-Central Gulf of Mexico: An Experimental Assessment” to a panel for the final evaluation of the ACES program at the University of South Alabama, November 6-7, 2008, Dauphin Island, AL.

November 2008. Presentation: “Investigating Land-Cover Dynamics: Comparison of Change Detection Techniques in a Coastal Marsh” (co-author with T. Wells and A. Boettcher) to a panel for the final evaluation of the ACES program at the University of South Alabama, November 6-7, 2008, Dauphin Island, AL.

November 2008. Presentation: “A Preliminary Report of Marine Fungi Associated to Seagrass Beds” (co-author with J. L. Mata, L. Paradis and J. Campbell) to a panel for the final evaluation of the ACES program at the University of South Alabama, November 6-7, 2008, Dauphin Island, AL.

October 2010. Presentation to officers from the Alabama Department of Conservation and Natural Resources (ADCNR) for an update and discussion on results to date from the ADCNR-funded “Alabama EDRP Finfish and Shellfish Nursery Habitat Restoration Program”

February 2011. Briefing for State of Alabama Commissioner Guy Gunter about restoration projects in Coastal Alabama during his visit to DISL

August 2011. Presentation to officers from EPA and environmental managers in coastal Mississippi for an update and discussion of the EPA-funded project: “Development of a Decision-Support Tool to Assess the Risk of Habitat Degradation Following Watershed Land Use Changes”

December 2012. Presentation to Exxon Mobil scientists to exchange ideas on oil and dispersant studies: “Effects of the Macondo Well oil spill on nekton recruitment in coastal wetlands”

November 2013. Presentation for partners (Volkert Inc., Alabama Department of Conservation and Natural Resources, Alabama Department of Marine Resources) of the Little Bay restoration project

February 2015. Robertson, A., K. Heck, R. Carmichael, W. Patterson, J. Cebrian and S. Powers (2015). Marine Ecosystems and Ecology of the Northern Gulf of Mexico. NOAA Science of Oil Spills (SOS) Workshop, NOAA Office of Response & Restoration (OR&R) and Emergency Response Division (ERD), Mobile, Alabama, United States. February 23-27, 2015. Invited Presentation

June 2015. Wessel, C., D. Battiste and J. Cebrian. Assessing the abundance and distribution of microplastics in a Gulf of Mexico estuary. National Academy of Sciences Gulf Research Program, Dauphin Island, AL (poster presentation)

November 2015. Two Open Houses (November 2nd and 3rd) for the general public to share results and management recommendations from the study “Fowl River Watershed Management Plan” funded by the National Fish and Wildlife Federation

October 2015; March 2016. Presentations to the community in Bayou La Batre and project steering committee as part of the study “Bayou La Batre Watershed Management Plan” funded by the National Fish and Wildlife Federation

4.9 Societies

American Society of Limnology and Oceanography, American Association for the Advancement of Science, American Society of Naturalists, Coastal

and Estuarine Research Federation, Florida Marine Contractors Association, World Seagrass Association

5 Fellowships, Contracts and Grants

5.1 Fellowships

1990-1991: Grant Erasmus for the Exchange of Students Among European Universities, funded by the European Community.

1990-1991. APIES fellowship in the Laboratoire de Biologie Général de l'Université de Perpignan, funded by the ANVAR program.

January 1992-December 1995: Graduate fellowship in CEAB (Spain), funded by Comissionat per a Universitats i Recerca (Generalitat de Catalunya, Spain).

Summer 1993: Scholarship for stay in McGill University (Montreal), funded by Comissionat per a Universitats i Recerca (Generalitat de Catalunya, Spain).

Fall 1995: Scholarship for stay in Boston University Marine Program, Marine Biological Laboratory (Woods Hole, Massachussets), funded by Comissionat per a Universitats i Recerca (Generalitat de Catalunya, Spain).

October 1996-February 1997: Post-Doctoral fellowship in Boston University Marine Program, Marine Biological Laboratory (Woods Hole, Massachussets), funded by Comissionat per a Universitats i Recerca (Generalitat de Catalunya, Spain).

February 1997- February 1999: Post-doctoral fellowship in Boston University Marine Program, Marine Biological Laboratory (Woods Hole, Massachussets), funded by the Spanish Ministry of Culture.

5.2 Contracts

Spring 1991. Contract as secretary of the workshop: " Long-term Data Sets in European Marine Stations: assesing the Biological Consequences of Global Change" (May, 27th - 29th, 1991; funded by the program MAST DG-XII).

February 1999 - December 2000: Resarch Assistant Professor at the Boston University Marine Program, Marine Biological Laboratory (Woods Hole, Massachussets), funded by CICEET, project title: " Identification and Assessment of Anthropogenic Eutrophication in Shallow Estuaries"

5.3 Past Funded Research Projects

CONACYT- (Consejo Nacional de Ciencia y Tecnologia, Mexico) "Estado trofico del ecosistema costero marino del Norte de Yucatan, 32356-T";

\$100,300.00, 3/00-2/02. (Co-Principal Investigator with J. Herrera, F. Comin and C. Madden).

CICEET- (Cooperative Institute for Coastal and Estuarine Environmental Technology) " Identification and Assessment of Anthropogenic Eutrophication in Shallow Estuaries, C98-92" \$368,171.00, 7/98-6/01 (Co-Principal Investigator with I. Valiela).

ACES- (Alabama Center for Estuarine Studies) "Effects of anthropogenic eutrophication on the magnitude and trophic fate of microphytobenthic production in estuaries" \$26,840.00, 10/00-10/01 (Principal Investigator with Jonathan Pennock).

ACES-(Alabama Center for Estuarine Studies) "Evaluating trophic processes as indicators of anthropogenic eutrophication in coastal ecosystems: an exploratory analyses" \$32,929.00, 06/01-05/02 (Principal Investigator).

MASGC (Mississippi-Alabama Sea Grant Consortium) "Preliminary Evaluation of the Ecological Role of the Seagrass *Halodule wrightii* in Coastal Ecosystems: Towards an Assessment of the Impact of Anthropogenic Eutrophication on That Role" \$9,881 (MSGC)/\$8,292 (matched by grantee), 03/02-02/03 (Principal Investigator)

MASGC (NOAA): "The Effects of Anthropogenic Eutrophication and Grazing on Seagrass Epiphytes and Its Cascade Effects on the Seagrass *Halodule wrightii* in the Northern Gulf of Mexico: Answering a Traditional Question Using Novel Techniques" \$10,000.00, 6/03-5/04 (PI).

ACES-(Alabama Center for Estuarine Studies) "Interaction between anthropogenic eutrophication and the black needlerush (*Juncus Roemerianus*) marsh in the Gulf of Mexico: how is eutrophication affecting the marsh ecological role and to what extent can the marsh palliate the impact of eutrophication on coastal waters? \$135,589, 10/02-9/05 (Principal Investigator)

EPA-Mobile Bay National Estuary Program: "Submerged aquatic vegetation gardening: evaluating ecosystem services regained with SAV restoration" \$31,500 07/03-05/05 (PI)

MASGC (NOAA): " Effects of anthropogenic eutrophication on the ecosystem services provided by shoalgrass (*Halodule wrightii*) meadows " \$199,383.00, 4/04-3/06 (PI). \$16,000 Supplement for student's salary provided by ACES - (Alabama Center for Estuarine Studies), 01/06-12/06

NOAA (NMFS-Habitat Conservation) "Ecosystem Services Provided by Oyster Reefs: An Experimental Assessment" \$ 180, 648.00, 3/04-2/06 (CO-PI with K. Heck and S. Powers)

NSF/MASGC/ACES: "Examining the effects of Hurricane Ivan in Coastal Alabama and Northwestern Florida: a positive impact on shallow coastal lagoons?" \$80,249 01/05-12/06 (PI)

FBBVA (Fundacion del Banco Bilbao Vizcaya Argentaria, "Bank of Bilbao-Vizcaya-Argentaria Foundation"): " Conservación de Praderas Submarinas: Causas de la regresión y efectos sobre las Funciones en el Ecosistema (Seagrass conservation: causes for seagrass decline and effects on ecosystem functioning)" \$ 125,000; period 03/05-02/08; co-PI with C. M. Duarte, N. Marba, E. Gacia, Luis Navarro, Adan Zunyiga and Esther Serrao

CZM (Coastal Zone Management Agency): " Effects of oyster restoration on the quality of Alabama Coastal Waters: towards an accurate evaluation of the role of oysters as water cleaning agents." \$30,000.00, 01/06-12/06 (PI with co-PI Ken Heck).

Mobile Bay National Estuarine Program (EPA Five Star Restoration Grant Program)/ Alabama Department of Conservation and Natural Resources: "Submerged Aquatic Vegetation Gardening in Little Lagoon, Alabama" \$40,000 06/07-12/08 (single PI)

MASGC (NOAA): "Evaluating the role of restored black needlerush marsh (*Juncus roemerianus*) as a buffer of anthropogenic eutrophication of coastal systems: an isotope enrichment approach" \$300,307 03/06-02/08 (PI with co-PI Craig Tobias).

ACES-(Alabama Center for Estuarine Studies) "Impacts of hurricanes on the natural and restored recovery of *Juncus roemerianus* in Alabama's critical salt marsh habitat" \$30,760 01/06-12/07 (co-PI with PI Anne Boettcher).

ACES -(Alabama Center for Estuarine Studies) "Metal accumulation in aquatic primary producers: ecological consequences and potential application to early detection of metal pollution" (PI with co-PI Kelly Major) \$ 60,000 01/07-12/08

ACES -(Alabama Center for Estuarine Studies) "Diversity and abundance of fungal decomposers on seagrass beds of the North Central Gulf of Mexico" \$ 60,000 (co-PI with PI Juan Mata) 01/07-12/08

Northern Gulf Institute and National Coastal Data Development Center " Long-term ecological studies in coastal lagoons of Perdido Bay" \$38,000 05/07-04/08 (single PI)

The David and Lucile Packard Foundation, The Oak Foundation, the NOAA International Program, the Hai Phong Institute of Oceanology, and the Brazil National Research Council "SeagrassNet — Global seagrass monitoring". Supplies and equipment covered, no other money received (co-PI with many other co-PI's; Fred Short from UNH is the PI)

Northern Gulf Institute and National Coastal Data Development Center" Long-term ecological studies in coastal lagoons of Perdido Bay" \$78,000 05/08-04/09 (single PI)

Northern Gulf Institute "Development of Integrated Ecosystem Assessment Strategies" \$80,000 12/08-03/10 (co-PI with William MacAnally and Robert Twilley)

National Coastal Data Development Center: "Long-term ecological studies in coastal lagoons of Perdido Bay" \$50,000 01/11-12/11 (single PI)

The Alabama Department of Conservation and Natural Resources: "Analysis of Historical Submerged Vegetation" \$10,000 01/1-12/10 (PI with Ken Heck and John Valentine)

NSF Rapid Program: "Evaluating the performance of the ISIS-Cylinder as a bioremediation method for oil contamination in marshes" \$23,375 9/10-9/11 (co-PI with Mark Roses from ISIS; money received as a subcontract from ISIS)

Northern Gulf Institute: "Impacts of the Deep Horizon Oil Spill on Ecosystem Structure and Function in Alabama's Marine Waters" \$60,000 6/10-12/10 (co-PI with Ken Heck)

NOAA-The Shelby Center "Impact of SAV loss on the diversity and production of prey for coastal fisheries" \$74,000 01/10-04/11 (PI with Ken Heck)

The Alabama Department of Conservation and Natural Resources "Finfish and Shellfish Nursery Habitat Restoration Project" \$1,500,000 07/08-06/11 (PI with K. Heck, S. Powers and R. Aronson as co-PI's)

NOAA- The Economic Recovery and Ecological Restoration Program "Coastal Alabama Economic Recovery and Ecological Restoration: Creating jobs to protect shorelines, restore oyster reefs and enhance fisheries production" \$646,275 08/09-06/11 (co-PI with Ken Heck and Sean Powers)

The Northern Gulf Institute: "Ecosystem Approach to Management for the Northern Gulf" \$ 375,000 01/11-12/12 (co-PI with William MacAnally and Richard Fulford)

The Alabama Department of Conservation and Natural Resources –Coastal Zone Management Program: "Effective restoration of salt marshes for reduction of coastal nutrient pollution" \$30,000 10/10-3/12 (single PI)

The Alabama Marine Environmental Science Consortium BP program 'Impacts of the Deepwater Horizon oil releases on the functional integrity of salt marshes and seagrass meadows and associated fauna' \$66,148 1/11-12/11 (co-PI with Ken Heck)

The Northern Gulf Institute “Potential impacts of the DwH oil spill on fishery resources: will there be reduced recruitment of economically important shrimp, crabs, and finfish in seagrass and marsh nursery habitats of the north central Gulf of Mexico?” \$91,253 1/11-12/11 (co-PI with Ken Heck)

The Northern Gulf Institute “Extend Sulis Toolkit” \$172,592 01/11-12/11 (co-PI with Philip Amburn and Bill McAnally)

The Northern Gulf Institute “An ecosystem modeling framework to examine ecological impacts of the Deepwater Horizon Oil Spill” \$206,387 01/11-12/11 (co-PI with Richard Fulford and Scott Milroy)

EPA-GOMA "Development of a Decision-Support Tool to Assess the Risk of Habitat Degradation Following Watershed Land Use Changes" \$350,000 01/09-12/10 (PI with David Ruppel and Mark Woodrey as co-PI's)

The National Park Service “Cost-effectiveness analysis of reduction of runoff pollution in coastal waters using black needlerush (*Juncus roemerianus*) restoration” \$20,000 04/12-03/13 (PI with Craig Tobias as co-PI)

The National Park Service “Ecosystem effects of potential mangrove expansion (*Avicennia germinans*) in the Northern Gulf of Mexico \$40,000 04/12-03/13 (co-PI with Ken Heck)

The Northern Gulf Institute/NOAA “Extension on Ecosystem Approach to Management for the Northern Gulf of Mexico” \$6,000 01/12-12/12 (co-PI with Bill McAnally)

NOAA/NCDDC “Monitoring in small embayments as early warning system for ecosystem change on larger spatial scales” \$56,000 11/11-10/13 (single PI)

The Alabama Department of Conservation and Natural Resources “Monitoring of Little Bay restored marsh” \$18,000 10/12-09/13 (single PI)

NOAA/NCDDC “Monitoring in small embayments as early warning system for ecosystem change on larger spatial scales” \$56,000 11/13-10/14 (single PI)

The National Sea Grant “Ecosystem Services Provided by Gulf of Mexico Habitats: Tools, Valuation, and Application” \$843,306 02/12-01/14 (co-PI with David Yoskowitz and Cristina Carollo)

The Alabama Department of Conservation and Natural Resources “Monitoring of Little Bay restored marsh” \$18,000 10/13-09/14 (single PI)

Mobile Bay National Estuarine Program “Ecosystem services and restoration of Mobile Bay: an analysis of the environmental value regained with restoration of coastal habitats in Mobile Bay” \$40,000 08/12-07/14 (single PI)

NOAA/Science Collaborative “Exploring the cost-effectiveness of restored marshes as filters of runoff pollution in a world of rising seas” \$371,099 10/12-09/14 (PI with Julia Cherry and Craig Tobias as co-PI’s)

National Fish and Wildlife Foundation “Evaluation of the Pelican Point Habitat Restoration Project” \$87,654 05/13-04/15 (co-PI with Ken Heck)

NOAA Marine Debris Program “Addressing derelict vessels and habitat impairment in the Dog River Watershed, Mobile, Alabama” \$ 201,729 09/13-12/14 (co-PI with John Dindo and Lee Yokel)

GOMA (HCRT) “Regional Living Shorelines Construction Technical Bulletins for Contractors” \$ 51,700 01/14-01/16 (co-PI with Carl Ferraro, Mike Shelton, Tom Herder and Bret Web)

USA Center for Resiliency “Assessing the abundance, distribution and toxicity of microplastics in Mobile Bay, AL” \$20,000 04/14-12/15 (PI with David Battiste as co-PI)

The Nature Conservancy “Living Shoreline Restoration for Fowl River Private Owners” \$14,860 (\$9,200 supplement) 04/14-12/15 (single PI)

NOAA/NCDDC “Data Management in Support of NOAA’s Integrated Ecosystem Assessment for the Gulf of Mexico: The Dauphin Island Sea Lab’s Data Management Center” \$85,094 04/14-05/15 (co-PI with Ken Heck)

The Northern Gulf Institute “Expanding the Integrated Ecosystem Assessment for Northern Gulf of Mexico Estuaries” \$100,000 04/14-12/15 (co-PI with Steve Ashby and Scott Milroy)

USFWS “Reducing runoff pollution in coastal waters through marsh restoration: implementing decision support tools for stakeholders” \$19,550 09/14-12/15 (single PI)

NFWF-MBNEP “Comprehensive Watershed Development Plan for Fowl River” \$250,000 08/14-12/15 (co-PI with Lee Walters and Doug Robinson)

5.4 Current Funded Research Projects

NOAA Marine Debris Program “Occurrence and accumulation of marine debris on barrier islands in the Northern Gulf of Mexico” \$44,108 04/14-05/16 (single PI)

Gulf of Mexico Research Initiative “Alabama Center for Ecological Resilience” \$ 6,000,000 01/15-12/17 (co-PI with J. Valentine and K. Heck)

NOAA Marine Debris Program “Removal of Derelict Vessels and Habitat Restoration in the Bayou La Batre Ship Channel” \$304,403 07/15-06/16 (co-PI with M. Magnoli)

University of South Alabama Center for Resiliency “Assessing the toxins associated with microplastics in Mobile Bay” \$20,000 11/15-10/16 (co-PI with C. Wessel)

The Institute for Water Resources “Environmentally-friendly alternatives to bulkheads for protecting shorelines: evaluation and implementation of two living shorelines designs \$162,916 06/16-07/18 (PI with Judy Haner as a co-PI)

NFWF-MBNEP “Comprehensive Watershed Development Plan for Bayou La Batre” \$250,000 08/15-07/16 (co-PI with Chris Warn)

NFWF-MBNEP “Comprehensive Watershed Development Plan for West Fowl River” \$200,000 05/16-04/17 (co-PI with Chris Warn)

NOAA-Science Collaborative “End-user derived research to improve the effectiveness, sustainability and prevalence of coastal restoration projects” \$489,571 09/15-08/18 (co-PI with Eric Sparks)

EPA-Wetlands Program “Reducing runoff pollution in coastal waters through marsh restoration: a decision support tool for stakeholders” \$371,275 04/16-03/19 (PI with Eric Sparks as a co-PI)

NFWF-State of Alabama (Department of Marine Resources) Artificial Reef Program “Monitoring structural integrity and ecological benefits of inshore and offshore constructed reefs” \$331,736 06/16-05/19 (co-PI with Sean Powers and Chris Warn)

EPA-Development of Measures and Models of the Relative Contribution to Production and Delivery of the Ecosystem Service of Nutrient Sequestration of Estuarine Habitat Components “Carbon and nitrogen cycling in the northeastern Gulf of Mexico: functional equivalency between primary producers” \$94,997 05/16-04/19 (PI)

USACE “Evaluating the capacity of natural and natural-based features (NNBF) to reduce coastal storm hazards” \$34,982 10/16-09/18 (co-PI with Bret Webb)

5.5 Participation in Research Projects as adviser (no specific funding allotted for me)

CONACYT (i.e. Mexican NSF) “Evaluacion ambiental del sistema lagunar Chelem-Progreso, Yucatan” 08/09-07/11 (Gilberto Jeronimo and Xavier Chiappa as PI’s, Unidad de Quimica-Sisal, Facultad de Quimica, UNAM, Mexico).

CONACYT (i.e. Mexican NSF) “Variaciones espacio-temporales de la comunidad de peces de la Boca de la Carbonera en la costa norte de Yucatan” 08/09-07/11 (Gilberto Jeronimo and Xavier Chiappa as PI’s, Unidad de Quimica-Sisal, Facultad de Quimica, UNAM, Mexico).

NOAA- Science Restore Act “Indicators and Assessment Framework for Ecological Health and Ecosystem Services” (consultant/advisor for M. Harwell, J. Gentile, L. McKinney, J. W. Tunnell, D. Yoskowitz, C. Carollo, J. W. Tunnell and K. Madden Stanzel) \$11,000 allotted for my consulting fees, 11/15-10/17

5.6 Some Declined Research Projects

NSF: "Effects of anthropogenic eutrophication on the magnitude and fate of primary production in shallow coastal ecosystems: a latitudinal comparison" \$910,267 6/01-5/06 (PI)

NSF: "Elucidating the trophic effects of algal enhancement and seagrass decline resulting from anthropogenic eutrophication" \$504,652 5/02-4/07 (PI)

NSF: "Unveiling Biocomplexity in Ecosystems: Towards a Unified Conceptual Approach Based on Ecological Stoichiometry" \$2,000,000 9/03-8/08 (co-PI with Robert Sterner, Jim Elser, Claudia Neuhauser and Peter Reich)

The Fred Gellert Family Foundation: “Towards an effective protection and management of Florida Keys ecosystems; evaluating the effects of overfishing and human-induced nutrient enrichment on essential seagrass habitats” \$30,000, 8/04-7/05 (PI with Jud Kenworthy).

Alabama Center for Estuarine Studies: "Biotic Recovery Following Closure of Pulp Mills in the Mobile Bay Estuary" \$34,338, 3/05-9/06, (co-PI with Rich Aronson).

Environmental Protection Agency: " Effects of human-induced increases in atmospheric CO₂ concentration and nutrient deposition rates on ecosystem services provided by black needlerush marshes: a FACE-like multifactorial experimental approach" \$739,197, 1/05-12/07 (PI with Jim Elser and George Hendrey).

The MacArthur Foundation: “Towards an effective protection and management of Florida Keys ecosystems; evaluating the effects of overfishing and human-induced nutrient enrichment on essential seagrass habitats” \$30,000, 1/05-12/05 (PI with Jud Kenworthy).

Environmental Protection Agency: " Understanding the transition from a SAV-dominated, clean water state to a phytoplankton-dominated, turbid water state in

coastal ecosystems: a space-for-time substitution approach" \$206,787, 05/05-04/07 (co-PI with Keyong Park and John Lehrter).

CICEET: "Evaluating the role of restored black needlerush marsh (*Juncus roemerianus*) as a buffer of anthropogenic eutrophication of coastal systems: an isotope enrichment approach" \$208,695, 04/05-03/07 (PI with co-PI Craig Tobias).

NSF: " Effects of human-induced increases in atmospheric CO₂ concentration and nutrient deposition rates on ecosystem services provided by black needlerush marshes " \$927,359, 9/05-8/08 (PI with Jim Elser and George Hendrey)

ACES -(Alabama Center for Estuarine Studies) "Effects of nutrient-rich water on the parasitism of the common grass shrimp, *Palaemonetes pugio* " \$ 10,000, 01/07-12/07 (co-PI with Jack O'Brien)

NOAA-GCOOS: "Identifying GCOOS user requirements and data gap analysis" \$300,000, 01/08-12/09 (co-PI with Mike Carron and Nancy Rabalais)

NOAA- The Economic Recovery and Ecological Restoration Program: "Effects of human-induced increases in atmospheric CO₂ concentration and nutrient deposition rates on ecosystem services provided by black needlerush marshes: a FACE-like multifactorial experimental approach" \$1,641,000, 08/09-06/11 (PI with Behzad Mortazavi and Alice Ortmann as co-PI's).

NOAA- The Economic Recovery and Ecological Restoration Program: "Restoration in Coastal Alabama" Submitted with ADCNR, subcontract to DISL: \$427,000, 08/09-06/11 (co-PI with Ken Heck and Sean Powers)

NOAA-Regional Integrated Sciences and Assessments (RISA): "Central and Eastern Gulf of Mexico Coastal Climate Change Resiliency Program" \$1,400,000, 01/10-12/11 (co-PI with LaDon Swann)

NASA-Earth Science for Decision Making: Gulf of Mexico Region: "Using remotely-sensed data, model outputs and in-situ measurements to inform decisions on shallow aquatic ecosystems for seagrass restoration in the northern Gulf of Mexico" \$397,359 03/10-02/12 (co PI with Maury Estes and Ron Thom)

NOAA-Ecological Effects of Sea Level Rise: "Impacts of Sea Level Rise on Coastal Ecosystems" \$2,870,101 05/10-04/13 (PI with William McAnally and Kyeong Park).

EPA-Region 4 Wetland Program Development Grants: "Salt-marsh floral dynamics across a gradient of physical disturbance" \$366,919 10/10-10/12 (co-PI with Ryan Moody)

NOAA- NERRS Science Collaborative: "Maximizing the Use of *Juncus roemerianus* Marsh Restoration to Reduce Non-Point Source Nutrient Pollution through Stormwater Runoff" \$897,535 10/10-9/13 (PI with Craig Tobias and Michael Shelton)

NSF: "Decadal and Regional Climate Prediction Using an Earth Systems Model" 2,800,000 01/11-12/13 (co-PI with Bill McAnally and Richard Fulford)

The National Sea Grant "Predicting Sea-Level Rise Impacts on Salt Marshes using the NOAA CSC Visualization Tool" \$179,403 02/12-01/14 (co-PI with Julia Cherry and Loretta Battaglia)

Mississippi-Alabama Sea Grant "Maximizing the Use of *Juncus roemerianus* Marsh Restoration to Reduce Runoff Nutrient Pollution" \$235,630 02/12-01/14 (PI with Craig Tobias as co-PI)

Mississippi-Alabama Sea Grant: "A comparative analysis of investment from diverse oyster habitat types" \$180,000 09/13-08/15 (co-PI with D. Petrolia and B. Walton)

Mississippi-Alabama Sea Grant: "Can iron fertilization overcome sulfide inhibition and improve seagrass restoration success?" \$160,000 09/13-08/15 (co-PI with A. Ortmann)

Mississippi-Alabama Sea Grant: "Recruitment and trophic dynamics of the invasive tiger prawn, *Penaeus monodon*, in coastal Alabama" \$150,000 09/13-08/15 (PI with Ryan Moody as co-PI)

The Institute of Water Resources: "Utilizing living shoreline restoration projects to maximize the preservation and health of coastal water resources: translating research lessons into management" 01/14-06/15 \$198,862 (PI with Ken Heck and Judy Haner as co-PI)

The Institute of Water Resources: "Maximizing the efficiency of restored coastal salt-marshes as filters of runoff pollution: translating research into management action" 01/14-07/15 \$189,296 (single PI)

National Science Program (Coupled Natural Human Complex Dynamics) "Connecting Human Behavior under Risk to the Health of Gulf of Mexico Fisheries" \$241,000 03/13-02/15 (co-PI with Bill McAnally, Dan Petrolia and Scott Milroy)

NASA "Developing and Testing of a Seagrass Based Ecosystem Indicator of Climate Change" \$250,000 03/13-02/15 (co-PI with Maurice Estes, Dale Quattrochi, Ron Thom, and Jean Ellis)

GCPO LLC "Development of a multi-criteria decision framework to aid tradeoff analysis applicable to the GCPO LLC area with application demonstration to the Mobile Bay watershed" \$200,000 10/13-09/15 (co-PI with D. Yoskowitz, C. Carollo and L. Bray)

GCPO LLC "A comparative analysis of investment from diverse oyster habitat types" \$180,000 10/13-09/15 (co-PI with D. Petrolia and B. Walton)

Restore Act/NRDA “Ecosystem Based Restoration Project Management and Decision Support System” \$5,000,000 01/14-12/18 (co-PI with S. Ashby and W. McAnally)

Gulf of Mexico Research Initiative “Consortium for Community Resilience Research” \$10,000,000 (01/15-12/17) (co-PI with M. Lichtveld and D. Yoskowitz)

Gulf of Mexico Research Initiative “Coastal Long-term Ecological Restoration and Resilience Consortia” \$ 13,293,591 (01/15-12/17) (co-PI with T. Bianchi)

National Academy of Sciences Gulf of Mexico Program 2015 Synthesis Grants “Gulf of Mexico Socio-Ecological System: A synthesis approach to characterize resilience” \$ 469,090 01/16-12/18 (co-PI with David Yoskowitz)

GOMRI 2015-V “Exploring the influence of ecological, economic, and social diversity on human well-being status and recovery from the DWH oiling accident” \$ 1,267,361 10/15-09/18 (co-PI with Cristina Carollo)

NOAA EESLR 2016 “Improving models of marsh functionality and fisheries production under rising seas” \$ 1,196,797 09/16-08/20 (co-PI with E. Sparks and A. Linhoss)

NSF LTER “Preliminary proposal: Resiliency of a river-dominated coastal ocean system-the Mississippi Bight Ecosystem” 01/17-12/22 (co-PI with Allan Shiller)

5.7 Pending

Restore Act (Federal Council, State Council, NFWF) Hydrological restoration of the Mobile Bay delta“\$2,000,000 (01/15-12/17) (co-PI with Casi Callaway)

Restore Act (Federal Council) “Coastal Alabama Living Shorelines Comprehensive Monitoring Program” \$4,000,000 (01/17-12/22) (PI with Bret Webb and Carl Ferraro as co-PI's)

National Fish and Wildlife Foundation/Mobile Bay National Estuary Program “Wetland restoration in Fowl River, Alabama” \$1,000,000 (01/17-12/19) (co-PI with Roberta Swann)

National Academy of Sciences Gulf of Mexico Program 2016 Synthesis Grants “Integration environmental, social and economic services into a human well-being framework” 01/17-12/19 (co-PI with David Yoskowitz)

NOAA Science Restore Act “Implementing marsh restoration to counteract runoff nutrient pollution in developed watersheds: a decision support tool for stakeholders” 06/17-05/20 \$536,795 (PI with Eric Sparks)

NOAA Science Restore Act “SPAT: Shellfish Portfolio Assessment Tool” 06/17-05/20 \$600,000 (co-PI with Dan Petrolia)

NOAA Science Restore Act “Connecting estuarine habitats to fisheries productivity under multiple stressors” 06/17-05/20 \$1,588,470 (co-PI with Eric Sparks)

NOAA Science Restore Act “Impacts of land-use, hypoxia and suspended sediment on estuarine fish biomass and food web structure” 06/17-05/20 \$2,359,350 (co-PI with John Lehrter)

Alabama Gulf Coast Recovery Council “Environmentally-friendly alternatives to bulkheads for protecting shorelines: evaluation and implementation of two living shorelines designs” 01/18-12/22 \$200,000 (PI with Judy Haner)

Alabama Gulf Coast Recovery Council “Reducing runoff pollution in coastal waters through marsh restoration: a decision support tool for stakeholders” 01/18-12/20 \$269,269 (PI with Judy Haner and Roberta Swann)

6 Awards and Other Merits

1999: "Premi Extraordinari de Doctorat" (Award to best Ph.D. dissertation) by the Universitat Politècnica Catalunya (Spain)

2001: Inclusion in the "International Who's Who of Professionals 2001" publication

2007: Citation as one of the 100 most productive scientists in Marine Sciences in Spain during the period 1994-2004 ("Las Ciencias y Tecnologías Marinas en España" CSIC) (I left Spain in 1996, so I believe this quote is meaningful)

2009: Appointment as a member of the International Ecology Institute (ECI) funded by Inter-Research Science Center (the ECI staff is composed of renowned ecologists, <http://www.int-res.com/ecology-institute/staff/>)

2009. Invitation to join “The IBC Leading Scientists of the World” 2009 Edition, published by the International Biographical Centre, Cambridge, UK.

2009. Nominated as a candidate for a 2012 Pew Marine Conservation Fellowship (proposal to gain full acceptance scheduled for submission in spring 2011)

2010. Selected by Notre Dame University/Brown University/UC Davis as a notable scholar (i.e. scholar that has published in the top quartile of environmental science journals in the last five years) to participate in the Notre Dame Study on Managed Relocation

2011-present. Elected Contributing Member of “Faculty of 1000”, Marine and Freshwater Ecology Section

2011 Scientific and Technological Achievement Award, Level II, presented by the United States Environmental Protection Agency for work on Developing Error Propagation Methods to Evaluate Uncertainty in Ecological Information Used by Decision Makers

2011-present Alabama representative on the Gulf of Mexico Alliance’s Habitat Resources Priority Issue Team

7. Services

7.1 DISL/University Committee Assignments

DISL seminar committee (chair)	2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016
DISL library committee (chair)	2001, 2002
DISL SMS I search committee (chair)	2008, 2011, 2012
DISL NGI post-doc search committee	2008
DISL promotion and tenure committee	2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016
DISL annual evaluation committee (chair)	2014, 2015, 2016
DISL fellowships procedure and polices committee	2010, 2011
DISL promotion committee for Behzad Mortazavi (chair)	2014
DISL committee for extension faculty additions to Faculty handbook (chair)	2014
USA Marine Sciences recruitment committee	2001, 2012, 2013, 2014, 2015, 2016
USA Marine Sciences curriculum committee	2001
USA Coastal Environmental Policy Planning committee	2002
USA Marine Sciences Assist. Prof. search committee	2002
USA Marine Sciences promotion and tenure committee	2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016
USA Marine Sciences Departmental committee for promotion of Ruth Carmichael from Assistant to Associate Professor and tenure (chair)	2012
USA Marine Sciences Mid Probation Review Committee for Dr. Jeffrey Krause	2015
USA Marine Sciences Adjunct committee (chair)	2007, 2008, 2009, 2010, 2011, 2012, 2013
USA Marine Sciences Wiese committee (co-chair)	2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016
USA Marine Sciences Department Chair Search Committee	2012
USA Graduate Final Course Grade Grievance Committee	

for the College of Arts and Sciences	2012
USA Marine Sciences Marine Conservation position search Committee (chair)	2016
USA Marine Sciences Physical Oceanographer position search Committee	2014

7.2 Service to the DISL and the Surrounding Community

Summer 2000, 2001 Presentation for high school students at DISL, title: "Doing science: the lure of the unknown"

Fall 2000, 2002, 2003 Lecture for REU students at DISL: "tips on oral presentations"

Fall 2000 Presentation for Kindergarden students: "Underwater cities" at the Pelican's Nest Science Lab (Fairhope, AL)

February 2001 Judge of oral presentations in the Graduate Student Symposium at DISL

September 2001, 2002, 2003. Race Director of the Hurricane Run (Dauphin Island)

March 2001, 2002, 2003 Committee member of ATR (Azalea Trail Run)

March 2004. Presentation for K-2 students in Breitling Elementary (title: "Don't trash the waters") as part of the the money raising campaign for the Dauphin Island Sea Lab Foundation.

April 2004. Presentation for high school students at Bayside Academy (title: ' becoming a scientist: the value of hard-work and dedication) as part of Professional Orientation Day.

October 2004. Volunteer in Spooktacular, a Halloween show for children, celebrated at DISL. I played a mad shrimper.

March 2005. Presentation for high school students at Bayside Academy (title: ' becoming a scientist: the value of hard-work and dedication) as part of Professional Orientation Day.

October 2006. Volunteer in Spooktacular, a Halloween show for children, celebrated at DISL. I played "the beast"

November 2006. Advise on seagrass fauna identification to Mr. Arthur Hosey Jr. for efforts to preserve valuable habitat in Perdido Key (Florida)

January 2007. Presentation for DISL employees (DISL Research Round-Ups): "Oh, Well, The Lure of Living by the Water...or Not!"

March 2007. Presentation for high school students at Bayside Academy (title: ' becoming a scientist: the value of hard-work and dedication) as part of Professional Orientation Day.

April 2007. Presentation for pre-Kindergarten students at Bayside Academy: " Marine animals of Mobile Bay: let's take a plunge!"

October 2007. Volunteer in Spooktacular; set up of global climate change demos.

November/December 2007. Presentation on our marsh research for an in-situ visit by an evaluation panel for the construction of a new building at the Grand Bay NERR

April 2008. Presentation for Kindergarten students at Bayside Academy (title: ' The wonderful Sea Life")

August 2008. Presentation for a group of attendees to the 2008 National Conference of Soil and Water Conservation Managers in Biloxi, Mississippi, on our marsh restoration project in Grand Bay NERR

March 2009. Presentation to students at the Alabama School of Math and Science as part of the "Science Café Series" organized by DISL

April 2009. Presentation for Pre-Kindergarten and first grade students at Bayside Academy (title: 'Marine habitats in the Gulf of Mexico: a trip underwater")

April 2009. Contributed to help Perdido Key neighbors protect the environmental quality of the area by providing comments to the Habitat Conservation Plan for Escambia County (FL).

September 2009. Tour of installations and presentation of research at DISL for Bayside Academy high-school students.

May 2010. Presentation for Pre-Kindergarten students at Bayside Academy (title: 'Marine habitats in the Gulf of Mexico: a trip underwater")

May 2010. Presentation for 2nd grade students at Bayside Academy (title: "The challenging life of baby sea turtles"; activity developed in collaboration with Joan Turner from Discovery Hall Programs)

June 2010. Tour of research study sites at Point-aux-Pines (Alabama) for staffers of the Office of Legislative and Public Affairs (National Science Foundation)

June 2010. Tour and presentations for Discovery Hall Programs summer high school students of the facilities and research at the Ecosystems lab in DISL.

September 2010. Attendance to kick-out of the TNC/Mobile Baykeeper/The Ocean Foundation 100-1000 restoration initiative for Mobile Bay

October 2010. Speaker at luncheon with the U. South Alabama Foundation

December 2010. Reader for the Christmas tale: "The Polar Express" for Kindergarten students at Bayside Academy.

January 2011. Scientific advice to journalist Kathie Farnell on the ecology of seagrass beds and salt marshes for an article for “Birders World Magazine”.

January 2011. Group Leader for oyster restoration project at Helen Wood Park (Mobile, Alabama) organized by TNC.

May 2011. Presentation for Kindergarten students at Bayside Academy (title: 'Marine habitats in the Gulf of Mexico: a trip underwater')

May 2011. Presentation for 3rd grade students at Bayside Academy (title: "The Macondo Oil-Spill: impacts on Gulf of Mexico marine ecosystems"; activity developed in collaboration with Joan Turner and JoAnn Mitchell from Discovery Hall Programs)

Regular meetings with residents around our study sites in Perdido Bay (Big Lagoon State Park, Kee’s Bayou and Gongora Drive) for environmental education and stewardship (from 2000 to present).

Participation in the Charrette led by the Urban Planning firm “Duany, Plater and Zyberk” to redevelop the town of Perdido Key, Florida. Dr. Cebrian was instrumental in such planning by providing examples of how environmental protection can enhance the overall value of the area.

October 2012

May 2012. Presentation for 1st grade students at Bayside Academy (title: 'Marine habitats in the Gulf of Mexico: a trip underwater'); Presentation for 4th graders at Bayside Academy (title: “The effects of the Macondo Well oil spill accident on marine life of the Northern Gulf of Mexico”)

September 2012. Boardwalk Talk at the DISL Estuarium about salt marsh ecosystems

March 2013. Presentations for 5th graders from Bayside Academy during their two-day stay at DISL (marine habitats and trivia game on marine life)

May 2013. Trivia game on marine life for 2nd graders at Bayside Academy

March 2014. Presentation and walk in the Bird Sanctuary for 5th graders from Bayside Academy during their two-day stay at DISL

May 2014. Marsh construction to stop shoreline erosion at the Riverbend condominium (Big Lagoon, Florida)

May 2015. Volunteer for reef build event for shoreline stabilization at Blakeley in Mobile, Alabama (Arlington Cove Living Shoreline Project) organized by TNC

May 2015. Presentation for 4th graders at Bayside: “The hard life of baby turtles”

January 2016. Presentation to DHP faculty about research at the Ecosystems Lab (as part of a series of presentations for DHP professional development)

April 2016. Presentation and walk in the Bird Sanctuary for 5th graders from Bayside Academy during their two-day stay at DISL