Print

Advisory Board & Committee Interest Form - Submission #21010

Date Submitted: 3/2/2023

Last Name*	First Name*	District # You Live In.*
Mariano	Arthur	3

Home Address*	City*	State*	Zip Code*
2651 Coolidge St	Hollywood	FL	33020

Home Phone	Cell Phone	Email Address*
	9547021226	amariano@rsmas.miami.edu

Owner or Renter *	Number of years as city resident*	Are you registered to vote in Broward County? *	Education (highest degree / level)
Owner	~32 years	Yes	PhD

Occupation*	Work Phone
Professor of Physical Oceanography	

Business Name*

U of Miami RSMAES

Business Address	City	State	Zip Code
4600 Rickenbacker Cswy	Miami	FL	33149

Identify the board / committee(s) to which you request appointment (Please rank in order of preference)

Selection (1)*	Selection (2)*
Marine Advisory Board	Marine Advisory Board
Selection (3)*	**Selection (4)***
Marine Advisory Board	Marine Advisory Board

Affordable Housing Advisory Committee - Questions*

Please answer these five questions above. 1. In your opinion what is the greatest challenge to keeping housing affordable in Hollywood? 2. Which of the following disciplines are you most skilled? • Home Purchase Education, • Housing Market Employment. • Housing Market Stability. • Affordable Housing Construction. * Affordable Housing Activism. 3. Which of the following disciplines are you most passionate? • Ownership Housing Affordability, • Rental Housing Affordability, • Housing Market Stability, • New Housing Construction, * Fair Housing. 4. What (if any) life experience motivated you toward volunteerism? 5. What role does housing diversity play in Hollywood's economic health?

African American Advisory Council - Questions*

Please answer these five questions above. 1. What is the greatest challenge facing the African American Community in Hollywood? 2. How many hours per month can you dedicate to AAAC initiatives? 3. Which of the following disciplines are you most skilled? * Education, * Employment, * Economics, * Cultural Awareness, * Housing. 4. Which of the following disciplines are you most passionate? * Education, * Employment, * Economics, * Cultural Awareness, * Housing. 5. What (if any) life experience motivated you toward volunteerism?

Artwork Selection Committee - Questions*

Please answer these five questions above. 1. What are your primary interest in City Government and City Services? 2. Why do you want to join the Artwork Selection Committee? 3. What other relevant organizations, clubs, or associations were you previously, and/or currently are involved in? 4. Are you available to attend regular committee board meetings scheduled for the Second Monday each month at 5:30pm? 5. What is your one area of highest interest related to the Arts within the City of Hollywood?

Civil Service Board - Questions*

Please answer these five questions above. 1. Describe your involvement with establishing, reviewing and interpreting policies and procedures? 2. Describe your involvement in employment practices including interviewing, testing, hiring, selection and promotion, demotions, transfers, etc. 3. Describe your knowledge of Civil Service and its purpose. 4. Why do you want to serve on this Civil Service Board? 5. Are you a continuous resident of and continuous registered elector in the City of Hollywood?

Community Development Advisory Board - Questions*

Please answer these five questions above. 1. Do you reside in a low and moderate income (LMI) neighborhood in Hollywood per the most recent US Census data? A Hollywood LMI Map is located at www.hollywoodfl.org on the Community and Economic Development webpage. 2. What Community Development issues do you believe are the most important to Hollywood? 3. What is your definition of a healthy neighborhood? 4. What do you believe is the vision and primary work of the Community Development Advisory Board? 5. What do you believe uniquely qualifies you to serve on the Community Development Advisory Board?

Education Advisory Committee - Questions*

Please answer these five questions above. 1. What are the current challenges facing education? 2. What is your vision for education in Hollywood? 3. What do you see as the primary work of the Education Advisory Committee? 4. With only one meeting a month, the Committee is limited in what it can do. How does/should the Committee decide what's most important? 5. How can the Committee know if its mission and goals are being accomplished?

Employees' Retirement Plan - Questions*

Please answer these five questions above. 1. Are you familiar with the State's Sunshine Laws (Chapter 119 of the Florida Statutes)? 2. Are you available to attend in person regular monthly Board meeting (typically held the 4th Tuesday of each month)? 3. What knowledge, skills and/or abilities will you bring to the Employees' Retirement Plan? 4. What do you believe are the responsibilities of a trustee on a municipal retirement plan board? 5. Are you familiar with municipal defined benefit retirement plans and/or have previous experience serving on a municipal retirement plan board?

Firefighters' Pension Board - Questions*

Please answer these five questions above. 1. What knowledge, skills and abilities would you bring to the meetings? 2. What experience do you have with firefighter pensions? 3 What is your financial background? 4. How many years have you lived in Hollywood? 5 How familiar are you with local retirement systems?

General Obligation Bond Oversight Advisory Committee - Questions*

Please answer these four questions above. Why do you want to join the GO Bond Oversight Advisory Committee? 2. Explain how your personal and/or professional experiences will contribute to the meeting the goal(s) of the Board or City. 3. Which Bond interests you the most? Public Safety? Parks/Golf/Open Space or Neighborhoods & Resiliency? 4. What is your perspective on city quality of life, healthy neighborhoods, economic development & a strong tax base?

Historic Preservation Board - Questions*

Please answer these five questions above. 1. How have you prepared yourself to serve on the Historic Preservation Board? 2. Explain how your personal and/or professional experiences will contribute to the meeting the goal(s) of the Board or City. * Personal experiences, * Professional experiences. 3. What is your perspective on balancing growth of the City's tax base, within the Historic Districts, while maintaining neighborhood stabilization? 4. How would you balance historic architecture with modern architectural styles? 5. What do you like about the City's different Historic Districts?

Hollywood Centennial Celebration Committee*

Please answer these five questions above. 1. What is your primary interest in serving on the Committee? 2. What is your financial/accounting background? 3. What knowledge, skills and abilities would you bring to the meetings? 4. What other organizations and/or associations were you previously, and/or currently involved with? 5. Are you available to attend regular committee meetings? (dates to be determined by all members)

Hollywood Housing Authority - Questions*

Please answer these five questions above. 1. In your opinion what is the greatest challenge to keeping housing affordable in Hollywood? 2. Which of the following disciplines are you most skilled? * Property Management, * Affordable Housing Administration, * Housing Market Stability, * Affordable Housing Construction, * Affordable Housing Activism. 3. Which of the following disciplines are you most passionate? * Property Management, * Rental Housing Affordability, * Housing Market Stability, * New Housing Construction, * Fair Housing. 4. What (if any) life experience motivated you toward volunteerism? 5.What role does housing diversity play in Hollywood's economic health?

Marine Advisory Board - Questions*

(1) None at the moment
(2) My experience and the desire for clean waterways
(3) Yes
(4) Boater, diver, on the technical advisory committee for the FL DEP SE FL Coral Reef Initiative, the President of the Hollywood Hills Saltwater Fishing Science and Social Club, professor of physical oceanography, ...
(5) Clean waterways and to optimize its use for the citizens of Hollywood

Please answer these five questions above. 1. What is your involvement with the City of Hollywood's Waterways? 2. What will guide your decisions on this board? 3. Are you able to dedicate 2-3 hours a month to attend the meetings? Attendance is paramount to this Board being able to get things done. 4. Are you currently or have you been a boater, marine industry professional or involved in any other marine related industry? 5. What is your vision for the city of Hollywood's Waterway system?

Parks, Recreation & Cultural Arts Advisory Board - Questions*

Please answer these six questions above. 1. How many events have you attended in the past year at any of the parks and athletics facilities in the City? 2. How many City-sponsored special events have you attended for the past year? 3. Are you available to attend regular Board meetings? Regular meetings are on the 1st Thursday of the month for 8 months per calendar year. 4. What is your one area of highest interest related to the parks, recreation and cultural arts for the City? 5. What other relevant organizations, clubs, or associations were you previously, and/or currently are involved in? 6. How does parks, recreation and cultural arts contribute to quality of life?

Planning & Development Board - Questions*

Please answer these five questions above. 1. How have you prepared yourself to serve on the Planning and Development Board? 2. Explain how your personal and/or professional experiences will contribute to the meeting the goal(s) of the Board or City. * Personal experiences, * Professional experiences. 3. What is your perspective on balancing growth of the City's tax base while maintaining neighborhood stabilization? 4. What recent developments within the City are most proud of? 5. What is a Comprehensive Plan?

Police Officer's Pension Board - Questions*

Please answer these five questions above. 1. What is a fiduciary? And what is your responsibility to the police pension plan as a fiduciary? 2. What is the Sunshine Law? 3. What is Asset Allocation & Diversification? 4. Explain the history of Chapter 99-1 and Chapter 185? 5. Define the role of the Actuary and the Auditor?

Sustainability Advisory Committee - Questions*

Please answer these five questions above. 1. Why do you want to join the committee? 2. Have you attended any committee meetings? If so, how many? 3. What knowledge, skills, and abilities would you bring to the committee if appointed? 4. What other organizations, clubs, or associations are you involved in? 5. Are you available to attend regular committee and subcommittee meetings? Regular meetings are held monthly with subcommittee meetings held as needed. 6. What types of projects would you like to see the committee work on?

Young Circle ArtsPark Advisory Board - Questions*

Please answer these five questions above. 1. What are your primary interest in City Government and City Services? 2. How many ArtsPark events have you attended within the past year? 3. What other relevant organizations, clubs, or associations were you previously, and/or currently are involved in? 4. Are you available to attend regular committee board meetings scheduled for the Second Tuesday each month at 5:30 pm? 5. What is your one area of highest interest related to the ArtsPark at Young Circle?

Are you interested in serving on more than one board/committee?*

No

If so, how many?*

1

Applicant must attend at least one board/committee meeting prior to consideration of application for every board applied. Please list board/committee meetings you attended in the last year?*

03/16/2023

Are you currently on a County or City Board?*

No

If yes, please describe

If you are applying for a board / committee, which has specific requirements / categories, please detail how your background and/or experience meets the required criteria.*

I teach graduate level courses in statistical modeling, fluid dynamics and physical oceanography. i also have published a number of science papers on our local waters.

Please describe your professional and/or volunteer experience or background, which best qualifies you for selection to the board / committee.*

I teach graduate level courses in statistical modeling, fluid dynamics and physical oceanography. I also have published a number of science papers on our local waters. I was a volunteer for last year's kids fishing tournaments put on by the MAB.

Are you presently employed by the City of Hollywood?*

No

If so, in what capacity?*

not employed by city

Attach Resume (only .doc and .pdf files)*

CV.pdf

UNIVERSITY OF MIAMI CURRICULUM VITAE

1. Date: August 1, 2022

PERSONAL

2. Name: Arthur Joseph Mariano
3. Home Phone: None
4. Office Phone: 305-421-4193
5. Home Address: 2651 Coolidge St., Hollywood, FL 33020
6. Current Academic Rank: Full Professor
7. Primary Department: Ocean Science
Rosenstiel School of Marine and Atmospheric Science
4600 Rickenbacker Causeway Miami, FL 33149-1098
8. Secondary or Joint Appointments: None
9. Citizenship: U.S.A.
10. Visa Type (if non-citizen): N/A

HIGHER EDUCATION

11. Institutional (institution; degree; date conferred):

1979 - 1986 Ph.D., Physical Oceanography, University of Rhode Island,
Graduate School of Oceanography, Narragansett, RI 02882

1978 - 1979 B.S., Mathematics, Stockton State College, Pomona, NJ 08240

1974 - 1978 B.S., Marine Science, Stockton State College, Pomona, NJ 08240

12. Non-Institutional: None

13. Certification, licensure: SCUBA (1974)

EXPERIENCE

14. Academic:

2000-present Full Professor, RSMAS/MPO, University of Miami, Miami, FL 33149-1098

1996-2000 Associate Professor (tenured), RSMAS/MPO, University of

Miami, Miami, FL 33149-1098

1990 - 1996 Assistant Professor, RSMAS/MPO, University of Miami, Miami,
FL, 33149-1098

1988 - 1990 Rosenstiel Fellow, RSMAS/MPO, University of Miami, Miami,
FL, 33149-1098

1985 - 1988 Post Doctoral Fellow/Research Faculty, Theoretical Oceanography, Division of Applied Sciences, Harvard University, Cambridge,
MA 02138

1984 - 1985 Graduate Teaching Assistant, Graduate School of Oceanography, University of Rhode Island, Narragansett, RI 02882
-Introduction to Physical Oceanography

1980 - 1984 Graduate Research Assistant, Graduate School of Oceanography, University of Rhode Island, Narragansett, RI 02882

1979 - 1980 Lecturer, Department of Mathematics, University of Rhode
Island, Kingston, RI 02881 - Calculus

1978 - 1979 Coordinator of the Math Skill Center, Stockton State College, Pomona, NJ 08420 - Supervising 20 math and science tutors within
the Division of Natural Science and Mathematics, teaching tutors, tutoring,
and substitute teaching.

1976 - 1978 Math and Science Tutor, Stockton State College, Pomona, NJ
08240 - Basic and upper level mathematics, physics, and statistics courses.

15. Non-Academic: None

16. Military: None

PUBLICATIONS

17. Books and Monographs Published:

1983
Rossby, H.T., S.C. Riser, and A.J. Mariano. The Western North Atlantic - A
Lagrangian Viewpoint. In: Eddies in Marine Science, A.R. Robinson,

Ed.,
Springer-Verlag, 1983, pp. 66-91.

1996
Mariano, A. J., and T. M. Chin. Feature and Contour based data analysis and
assimilation in physical oceanography. Stochastic Modelling in Physical
Oceanography, (Adler, Muller and Rozovskii, eds.), Birkhauser, 311-342.

2007
Chin, T.M., K. Ide, C.K.R.T. Jones, L. Kuznetsov, and A.J. Mariano. Dynamic consistency and Lagrangian data in oceanography: mapping, assimilation, and
optimization schemes. Lagrangian Analysis and Predictability of Coastal and Ocean Dynamics, Griffa, A., D. Kirwan, A.J. Mariano, T. Ozgokmen, and T. Rossby,
editors. Cambridge University Press, 204-230.

Griffa, A., D. Kirwan, A.J. Mariano, T. Ozgokmen, and T. Rossby, editors. Lagrangian Analysis and Predictability of Coastal and Ocean Dynamics (Cambridge University Press), 500 pages.

Mariano, A.J. and E.H. Ryan. Where is the Diffusivity? Lagrangian Analysis and Predictability of Coastal and Ocean Dynamics, Griffa, A., D. Kirwan, A.J. Mariano, T. M. Ozgokmen, and T.Rossby, editors. Cambridge University Press, 83-85.

Mariano, A.J. and E.H. Ryan. Lagrangian Analysis and Predictability of Coastal
and Ocean Dynamics. Lagrangian Analysis and Predictability of Coastal and Ocean Dynamics, Griffa, A., D. Kirwan, A.J. Mariano, T.M. Ozgokmen, and T. Rossby, editors. Cambridge University Press, 423-479.

Piterbarg, L.I., T.M. Ozgokmen, A. Griffa, and A.J. Mariano. Predictability of Lagrangian Motion in the Ocean. Lagrangian Analysis and Predictability of Coastal and Ocean Dynamics, Griffa, A., D. Kirwan, A.J. Mariano, T.M. Ozgokmen, and T. Rossby, editors. Cambridge University Press, 136-172.

2022
Mariano, A.J. An Introduction to the analysis, interpolation, and assimilation of space-time data. (Book in preparation, Cambridge University Press)

18. Juried or Refereed Journal Articles and Exhibitions:

1987
Robinson, A.R., A. Hecht, N. Pinardi, Y. Bishop, W.G. Leslie, Z. Rosentroub, A.J. Mariano, S. Brenner. Small Synoptic/Mesoscale eddies: The Energetic Variability of the Eastern Levantine Basin, Nature, 327, 1987, pp. 131-134.

1988
Mariano, A.J. Space-Time Interpolation of Gulf Stream North Wall Positions. Reports in Meteorology and Oceanography, 29, Harvard University, 1988.

1989
Mariano, A.J. Estimation of Mesoscale Vertical Derivatives of Potential Temperature and Density from Hydrographic Data, J. Atmos. Oceanic Tech. 6(6), 1989, pp. 1013-1023.

Mariano, A.J. and H.T. Rossby. The Lagrangian Potential Vorticity Balance during POLYMODE, J. Phys. Oceanogr. 19(7), 1989, pp. 927-939.

1990
Mariano, A.J. Contour Analysis: A New Approach for Melding Geophysical Fields. J. Atmos. Oceanic Tech. 7(2), 1990, pp. 285-295.

1992
Mariano, A.J. and O.B. Brown. Efficient objective analysis of dynamically heterogeneous and nonstationary fields via the parameter matrix. Deep-Sea Res., 39(7/8), 1992, pp. 1255-1271.

Shay, L. K., P. G. Black, A. J. Mariano, J. D. Hawkins and R. L. Elsberry. Upper ocean response to Hurricane Gilbert. J. Geophys. Res. Oceans. 97(C12), 1992, pp. 20,227-20,248.

1993
Hitchcock, G., A. J. Mariano, H. T. Rossby. Mesoscale pigment fields in the Gulf Stream: Observations in a Meander Crest and Trough. J. Geophys. Res.-Oceans, 98(C5), 8425-8445, 1993.

Chin, T. M. and A. J. Mariano. Optimal space-time interpolation of gappy frontal position data. In: Proceedings of the Aha Hulikona Hawaiian

Winter Workshop, Honolulu, Hawaii, January 1993, pp. 265-289.

Chin, T. M., W. C. Karl, A. J. Mariano, and A. S. Willsky. Square Root
Filtering in Time-sequential Estimation of Random Fields. Proceedings of
conference on Image/Video Enhancement, Restoration and Reconstruction in
SPIE/IS&T El '93, 1903, 31-58. doi:10.1117/12.143140

1994
Ashjian, C., J., S. L. Smith, C. N. Flagg, A. J. Mariano, W. J. Behrens,
and P. V. Z. Lane. The Influence of a Gulf Stream Meander on the
Distribution of Zooplankton Biomass in the Slop Water, the Gulf Stream and
the Sargasso Sea, Described Using a Shipboard Acoustic Doppler Current
Profiler. Deep -Sea Research I, 41(1), 23-50.

Chin, T.M. and A.J. Mariano. Wavelet-based compression of covariances in
Kalman filtering of geophysical flows. Proceedings of SPIE, 2242, 842-850.
doi:10.1117/12.170083

Olson, D.B., G.L. Hitchcock., A.J. Mariano, C.J. Ashjian, G. Peng,
R.W. Nero and G. Podesta. Life on the Edge: Marine Life and Fronts.
Oceanography, 7 (2), 52-60.

1995
Chin, T.M. and A.J. Mariano. Kalman Filtering of Large-Scale Geophysical
Flows by Approximations Based on Markov Random Field and Wavelet. The
Proceedings of ICASSP-95, 5, 2785-88.

Mariano, A.J., E.H. Ryan, B.D. Perkins and S.Smithers. The Mariano Global
Surface Velocity Analysis 1.0. U.S. Coast Guard Report CG-D-34-95, 55 pp.

Mariano, A.J. and T.M. Chin. Contour and feature-based data analysis and
assimilation of Gulf Stream Data. Proceedings of the International Workshop
on Numerical Prediction of Oceanic Variations. Tokyo, Japan, 7-11, March
1995, pp. 43-50

1996
Mariano, A.J., G.L. Hitchcock, C.J. Ashjian, D. B. Olson, T. Rossby,

E.H.
Ryan, and S. Smith. A principal component analysis of Bio-physical Fields
in a Gulf Stream Meander Crest. Deep-Sea Research, 43(9), 1531-1565.

1997
Garzoli, S.L., G.J. Goni, A.J. Mariano and D.B. Olson. Monitoring the Upper Southeastern Atlantic Transports Using Altimeter Data. Journal of
Marine Research., 55, 453-481.

Hitchcock, G.L., W.L. Wiseman, Jr., W.C. Boicourt, A.J. Mariano, N. Walker,
T. Nelsen and E.H.. Ryan. Property fields in the effluent plume of the Mississippi River. Journal of Marine Systems, 12, 109-126.

Chin,T. M. and A.J. Mariano. Space-time Interpolation of Oceanic Fronts.
IEEE Trans. on Geosciences and Remote Sensing., 35(3), 734-746.

1998
Shay, L.K., A. J. Mariano, S.D. Jacob, and E. H. Ryan. Mean and Near-Inertial Ocean Current Response to Hurricane Gilbert. J. of Physical Oceanography, 28(5), 858-889.

Bauer, S., M. Swenson, A. Griffa, A.J. Mariano, and K. Owens. Eddy-Mean
flow Decomposition and Edd-Diffusivity Estimates in the Tropical Pacific
Ocean, J. Geophysical Research, 103(C13), 30,855-30,871.

1999
Moore, A.M. and A.J. Mariano. The Dynamics of Error Growth and Predictability in a Model of the Gulf Stream. I: Singular Vector Analysis. J. Physical Oceanography, 29(2), 158-176.

Chin, T.M., A.J. Mariano and E.P. Chassignet. Spatial regression and multi-scale approximations for sequential data assimilation in ocean models. J. Geophysical Research, 104(C4),7,991-8,014.

Han, W., J.P. McCreary, Jr., D.L.T. Anderson, and A.J. Mariano. On the dynamics of the eastward surface jets in the Equatorial Indian Ocean. J. Physical Oceanogr. ,29, 2191-2209.

2000
Jacob, S. D., L. K. Shay, A. J. Mariano, and P. G. Black. The 3-D oceanic mixed layer response to hurricane Gilbert. J. Physical. Oceanogr., 30(6), 1407-1429.

Ozgokmen, T. M., A. Griffa, A. J. Mariano, and L. I. Piterbarg. On the

predictability of Lagrangian trajectories in the ocean. J. Atmos. Ocean. Tech., 17/3, 366-383.

Paiva, A.M., E.P. Chassignet, and A.J. Mariano. Numerical Simulations of the N. Atlantic Subtropical Gyre: Sensitivity to Boundary Conditions. Dynamics of Ocean and Atmosphere, 32, 209-237.

Shay, L.K., T.M. Cook, B.K. Haus, J. Martinez, H. Peters, A.J. Mariano, J. VanLeer, S.M. Smith, P.E. An, A. Soloview, R. Weisberg, and M. Luther.
A submesoscale vortex detected by very high resolution radar, EOS, 81.

Stammer, D., the ECCO Consortium, and the HYCOM Consortium (26 co-authors). Ocean State Estimation and Prediction in Support of Oceanographic Research. Oceanography 13(2), 51-56.

2001
Garraffo, Z. D., A. J. Mariano, A. Griffa, C. Veneziani, and E. P. Chassignet. Lagrangian data in a high resolution numerical simulation of the North Atlantic. I: Comparison with in-situ drifter data, J. of Mar Sys, 29/1-4,157-176.

Garraffo, Z. D., A. Griffa, A. J. Mariano, and E. P. Chassignet. Lagrangian data in a high resolution numerical simulation of the North Atlantic. II: On the pseudo-Eulerian averaging of Lagrangian data, J. of Mar Sys, 29/1-4, 177-200.

Ozgokmen, T.M., L.I. Piterbarg, A.J. Mariano and E. Ryan. Predictability of drifter trajectories in the tropical Pacific Ocean. J. Physical Oceanography, 31, 2691-2720.

Wilson-Diaz, D., A. J. Mariano, R. H. Evans, and M. E. Luther. A principal component analysis of sea surface temperature in the Arabian Sea. Deep Sea Research II, vol. 48, no. 6-7.

Yang, Q., B. Parvin and A. J. Mariano. Detection of vortices and saddle points in SST data. Geophysical Research Letters, Jan 15, 28 (2), 331-334.

2002
Chin, T.M, A. Haza, and A.J. Mariano. A reduced-order information filter for multi-layer shallow water models: profiling and assimilation of sea surface height. J. of Atmos. and Ocean. Tech, 19 (4), 517-533.

Glover, D.M, S.C Doney, A.J. Mariano, R.H. Evans, and S.J. McCue. Mesoscale variability in time-series data: Satellite based estimates for the U.S. JGOFS Bermuda Time-Series Study (BATS) site. J. Geophy. Res., 107 (C8), 10.1029/2000JC000589

Mariano, A.J., A. Griffa, T. Ozgokmen, and E. Zambianchi. Lagrangian Analysis and Predictability of Coastal and Ocean Dynamics 2000. J. of Atmos. and Ocean. Tech., 19(7), 1114-1126.

Peters, H., L. K. Shay, A. J. Mariano, and T. M. Cook. Current Variability on a Narrow Shelf with Large Ambient Vorticity. J. Geophy. Res., 107 (C8), 10.1029/2001JC000813

Shay, L.K., T.M. Cook, H. Peters, A.J. Mariano, R. Weisberg, P.E. An, A. Soloview, and M. Luther. Very High Frequency Radar Mapping of Surface Currents, IEEE JOE, 27 (2), 155-169.

2003
Mariano, A.J., T.M. Chin, and T.M. Ozgokmen. Stochastic boundary conditions for modeling of coastal flows. Geophys. Res. Let., 30(9), doi:10.1029/2003GL016972

Molcard A., L. Piterbarg, A. Griffa, T.M., Ozgokmen, and A.J. Mariano. Assimilation of drifter positions for the reconstruction of the Eulerian circulation field. J. Geophy. Res., 108(C3), 10.1029/200IJC001240

2004
Chin, T.M, T.M. Ozgokmen, and A.J. Mariano. Multi-variate spline and scale-specific solution for variational analyses. J. of Atmos. and Ocean. Tech, 21(2), 379-386.

Haza, A.C., N. Paldor, and A.J. Mariano. Linear instabilities of a two-layer geostrophic front near a wall J. Marine Research, 62 (5), 639-662.

Paldor, N., Y. Dvorkin, A.J. Mariano, T.M. Ozgokmen, and E. Ryan. A Practical, Hybrid Model for Predicting the Trajectories of Near-Surface Ocean Drifters. J. of Atmosp. and Ocean. Tech, 21 (8), 1246-1258.

Veneziani, M., A. Griffa, A. M. Reynolds, and A. J. Mariano, Oceanic Turbulence and Stochastic Models from Subsurface Lagrangian Data for the Northwest Atlantic Ocean. J. of Physical Oceanography, 34(8), 1884-1906.

Yang, Q., B. Parvin, A.J. Mariano, E.H. Ryan, R. Evans, and O.B. Brown. Seasonal and interannual studies of vortices in sea surface temperature data. An updated version of a paper originally presented at Oceans from Space 'Venice 2000' Symposium, Venice, Italy, 9-13 October 2000. International Journal of Remote Sensing, 25(7-8), 1371 - 1376.

2005
Lekien, F., C. Coulliette, A.J. Mariano, E.H. Ryan, L. Shay, G.

Haller, and J. Marsden. Pollution release tied to invariant manifolds: A case study for the coast of Florida, Physica D, 210, 1-20.

2007
Chin, T.M., T.M. Ozgokmen, and A.J. Mariano: Empirical and stochastic formulations of western boundary conditions. Ocean Modelling, 17 (3), 219-238.

Demirel M. C., Mariano A. J., and Kahya E. Performing K-means Analysis to Drought Principal Components of Turkish Rivers. 27th AGU Hydrology Days, Fort Collins, Colorado, March 19-21, 141-152.

Haza, A. C., A. J. Mariano, D. B. Olson, T. M. Chin. Gulf Stream-Slopewater System. Ocean Modelling, 17 (3), 239-276.

Kleisner, K., A. Mariano, D. Olson, and J. Sladek Nowlis. Towards an understanding of dolphinfish abundance: an interpretation of the relationships between environmental variables and species associations from the U.S. pelagic longline fleet. Proceedings of the 59^th Gulf and Caribbean Fisheries Institute, 163-174.

Paldor, N., S. Rubin, and A.J. Mariano. A consistent theory for linear waves of the shallow water equations on a rotating plane in mid-latitudes. J. of Physical Oceanography, 37, 115-128.

2008
Poulin, F.J. K. Rowe, N. Paldor, S. Rubin, and A.J. Mariano. A consistent theory for linear waves of the shallow water equations on a rotating plane in mid-latitudes, reply. J. of Physical Oceanography, 38, 2111-2119.

Wilson-Diaz, D., A.J. Mariano, and R.H. Evans. On the heat budget of the Arabian Sea, Deep Sea Res, Part I, doi:10.1016/j.dsr.2008.09.003

2009
Volpe, G., V. F. Banzon, R. H. Evans, R. Santoleri, A. J. Mariano, and R. Sciarra. Satellite observations of the impact of dust in a low-nutrient, low-chlorophyll region: Fertilization or artifact?, Global Biogeochem. Cycles, 23, GB3007, doi:10.1029/2008GB003216.

2010
Chin, T.M., and A.J. Mariano, 2010. A Particle Filter for Inverse Lagrangian Prediction Problems. J. Atmos. Oceanic Technol., 27, 371-384.

2011
Srinivasan, A., E.P. Chassignet, L. Bertino, J.M. Brankardt, P. Brasseur, T.M. Chin, F. Counillon, J. Cummings, A.J. Mariano, O.M. Smedstad, and W.C. Thacker. A comparison of sequential assimilation schemes for ocean prediction with the HYbrid Coordinate Ocean Model

(HYCOM): Twin experiments with static forecast error covariance. Ocean Modelling, 37 (3-4), 85-111.

Simoncelli, S., N. Pinardi, P. Oddo, A. J. Mariano, G. Montanari, A. Rinaldi and M. Deserti. Coastal Rapid Environmental Assessment in the Northern Adriatic Sea. Dynamics of Atmospheres and Oceans, doi:10.1016/j.dynatmoce.2011.04.004

Mariano, A.J., V. H. Kourafalou, A. Srinivasan, H. Kang, G. R. Halliwell, E. H. Ryan, and M. Roffer. On the modeling of the 2010 Gulf of Mexico Oil Spill. Dynamics of Atmospheres and Oceans, doi:10.1016/j.dynatmoce.2011.06.001

2012
Gramer, L.J., A.J. Mariano, and J.C. Hendee. Heat budget for Florida reefs: reef-scale thermal stress via satellite data. Proceedings of the 12th International Coral Reef Symposium, Cairns, Australia, 9-13 July 2012

J.D. Lerner, D.W. Kersetter E.D. Prince, A. Mariano, E. Orbesen, D. Snodgrass, L. McManus, and G.L. Thomas. Swordfish (Xiphias gladius) vertical distribution and habitat use in relation to diel and lunar cycles in the western North Atlantic. Transactions of the American Fisheries Society, 142:1, 95-104.

Lillibridge, J.L. III, and A.J. Mariano, A statistical analysis of GulfStream variability from 18+ years of altimetry data. Deep-Sea Res. II, http://dx.doi.org/10.1016/j.dsr2.2012.07.034

J.C. Ohlman, J. H. LaCasce, L. Washburn, A. J. Mariano, and B. Emery. Relative dispersion observations and trajectory modeling in the Santa Barbara Channel. Journal of Geophysical Research-Oceans, 117(C5), DOI: 10.1029/2011JC007810.

2013
J. Lillibridge an A. Mariano. A Statistical Analysis of Gulf Stream Variability from 20 Years of Altimetry. In Proceedings "20 Years of Progress in Radar Altimetry", 24-29 September 2012, Venice, Italy (ESA SP-710, February 2013) ISBN: 978-92-9221-274-2; ISSN1609-042X; doi: 10.5270/esa.sp-710.altimetry2012

2014
Jacobs, G.A., B. Bartels, D. Bogucki, F.J. Beron-Vera, S. S. Chen, E.F. Coelho, M. Curcic, A. Griffa, M. Gough, B.K. Haus, A.C. Haza, R.W. Helber, P.J. Hogan, H. Huntley, M. Iskandarani, F. Judt, A.D. Kirwan Jr., N. Laxague, A. Valle-Levinson, B. Lipphardt, A. Mariano, H.E. Ngodock, G. Novelli, M.J. Olascoaga, T.M. Özgökmen, P.G. Thoppil, A.C. Poje, A. J.H.M. Reniers, C.D. Rowley, E.H. Ryan, S.R. Smith, P.L. Spence, and M.Wei (2014). Data Assimilation Considerations for Improved Ocean Predictability during the Gulf of Mexico Grand

Lagrangian Deployment (GLAD), Ocean Modeling, 83, 98-117.

A. J. Mariano. The Gulf Stream. Anglers Journal, 2, 70-73.

Özgökmen, T.M., F. J. Beron-Vera, D. Bogucki, S. Chen, C. Dawson, W. Dewar, A. Griffa, B.K. Haus, A.C. Haza, H. Huntley, M. Iskandarani, G. Jacobs, B. Jagers, A.D. Kirwan, Jr., N. Laxague, B. Lipphart, Jr., J. MacMahan, A.J. Mariano, J. Olascoaga, G. Novelli, A.C. Poje, A.J.H.M. Reniers, J.M. Restrepo, B. Rosenheim, E.H. Ryan, C. Smith, A. Soloviev, S. Venkataramani, G. Zha, P. Zhu (2014). Research Overview of the Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE). International Oil Spill Conference Proceedings, 2014(1), 544-560.

Poje, A.C., T.M. Özgökmen., B. Lipphart, Jr., B. Haus, E.H. Ryan, A.C. Haza, G. Jacobs, A.J.H.M. Reniers, J. Olascoaga, G. Novelli, A. Griffa, F.J. Beron-Vera, S. S. Chen, P. Hogan, E. Coelho, A.D. Kirwan, Jr., H. Huntley, A.J. Mariano (2014). Submesoscale dispersion in the vicinity of the Deepwater Horizon spill. Proceedings of the National Academy of Sciences, 111(35), 12693-12698.

2015
Coelho E., P. Hogan, G. Jacobs, P. Thoppil, H. Huntley, B. Haus, B. Lipphardt, Jr., A. D. Kirwan, Jr., E. H. Ryan, J. Olascoaga, G. Novelli, F. Beron-Vera, A. C. Haza, A. C. Poje, A. Griffa, T.M. Özgökmen, D. Bogucki, S. S. Chen, M. Curcic, M. Iskandarani, F. Judt, N. Laxague, A. J. Mariano, A.J.H.M. Reniers, C. Smith, A. Valle-Levinson, and M. Wei (2014). Ocean Current Estimation Using a Multi-Model Ensemble Kalman Filter During the Grand Lagrangian Deployment Experiment (GLAD). Ocean Modelling, 87, 86-106.

2016
Mariano, A. J., E. H. Ryan, H. S. Huntley, L.C. Laurindo, E. Coelho, A. Griffa, T. M. Özgökmen, M. Berta, D. Bogucki, S. Chen, M. Curcic, K.L. Drouin, M. Gough, B. K. Haus, A. C. Haza, P. Hogan, M. Iskandarani, G. Jacobs, A. D. Kirwan, Jr., N. Laxague, B. Lipphardt, Jr., M. G. Magaldi, G. Novelli, A. Reniers, J. M. Restrepo, C. Smith, A. Valle-Levinson, and M. Wei (2016). Statistical properties of the surface velocity field in the northern Gulf of Mexico sampled by GLAD drifters. JGR-Oceans, 121(7), 5193-5216, Gulf Oil Spill special section.

2017
Carmody, K. G., A. J. Mariano, and D. W.Kerstetter. A Principal Component Analysis of vertical temperature profiles for tracking movements of Large Pelagic Fish. Aquatic Science and Technology, 5(1), 33-51, doi:10.5296/ast.v5i1.10649

Laurindo,L.C., A.J. Mariano, and R. Lumpkin. An improved near-surface velocity climatology for the global ocean from drifter observations.

Deep Sea Research I, 124,
73-92, http://dx.doi.org/10.1016/j.dsr.2017.04.009

Rosenthal , S. , S. Venkataramani, A. J. Mariano,and J. M. Restrepo. Displacement data assimilation. J. Comput. Phys., 330(C),594-614, http://dx.doi.org/10.1016/j.jcp.2016.10.025

2018
Rudko, M.V., I. V. Kamenkovich,, M. Iskadandarani, and A. Mariano Zonally-elongated transient flows: phenomenology and sensitivity analysis.
Journal of Geophysical Research: Oceans, 123. https://doi.org/10.1029/2017JC013173

2019
Drouin, K., A.J. Mariano, L. Lauridno, and E. Ryan, Lagrangian Simulation of Oil Trajectories in the Florida Strait. Marine Pollution Bulletin, 140, 204-218, https://doi.org/10.1016/j.marpolbul.2019.01.031

Laurindo, L.C., L. Siqueira, A.J. Mariano, B. P. Kirtman. Cross-spectral analysis of the SST/10-m wind speed coupling resolved by satellite products and climate model simulations. Climate Dynamics, https://doi.org/10.1007/s00382-018-4434-6

19. Other Works, Publications and Abstracts:

1981
Polloni, C., A.J. Mariano and H.T. Rossby. Streamfunction Maps of the Soviet POLYMODE Current Meter Array. University of Rhode Island Technical
Report, No. 81-1, 1981, 131 pp.

1984
Mariano, A.J. On the Estimation of the Vertical Derivative of Density. Transactions of the American Geophysical Union, 64(52), 1984.

1986
Mariano, A.J. On the Estimation of First Order Dynamical Quantities in theLagrangian Potential Vorticity Equation. Ph.D. Thesis, University of Rhode
Island, 1986.

Mariano, A.J. The Langrangian Potential Vorticity Balance during POLYMODE. Transactions of the American Geophysical Union, 67(44), 1986.

1987

Mariano, A.J. Space-Time Interpolation of Gulf Stream North Wall Positions-NEARSS Association Meeting, 12/11/1987.

1988
Mariano, A.J. Optimal Contour Analysis of Frontal Segments, Transactions of the American Geophysical Union, 68(50), 1988, p. 1735.

1989
Cornillon, P.C., V.M. Halliwell, E.F. Carter, T. Rossby and A.J. Mariano.Gulf Stream Meanders. Transactions of the American Geophysical Union, 70(43), 1989, p. 1140.

Mariano, A.J. and O.B. Brown. Efficient objective analysis of heterogeneous and nonstationary fields via the parameter matrix. The Oceanographic Society, August 1989.

1990
Carter, E.F. and A.J. Mariano. The evolution of the 12-degree surface during the Anatomy of a Gulf Stream Meander Experiment using Objective Analysis. Transactions of the American Geophysical Union, 71(2), 1990, p. 182.

Forbes, C., K. Leaman, O.B. Brown, A.J. Mariano. Development of an objective analysis technique for the assimilation of GEOSAT altimeter data over the South Atlantic Ocean. World Meteorological Organization International Symposium Proceedings: Assimilation of observations in Meteorology and Oceanography, Clermont-Ferrand, France, 9-13 July 1990, pp. 516-519.

Hitchcock, G.L., A.J. Mariano and D.B. Olson. Mesoscale Pigment Fields in the Gulf Stream. Transactions of the American Geophysical Union, 71(43), 1990, p. 1403 (abstract).

Mariano, A.J. Empirical Orthogonal Contours of Gulf Stream temperature sections. Transactions of the American Geophysical Union, 71(43), 1990, p. 1409 (abstract).

Mariano, A.J. A local curvilinear coordinate system for the Anatomy of a Meander/BIOSYNOP Experiment. The Synoptician, 1(3), 1990, p. 8.

Mariano, A.J. Contour Analysis: A new approach for melding geophysical fields. World Meteorological Organization International Symposium
Proceedings: Assimilation of observations in Meteorology and Oceanography, Clermont-Ferrand, France, 9-13 July 1990. pp. 389-393.

Mariano, A.J. and O.B. Brown. Efficient Objective Analysis of Dynamically Heterogeneous and Nonstationary Fields via the Parameter Matrix.
International TOGA Scientific Conference, Honolulu, Hawaii, 1990

(abstract).

Podesta, G., O.B. Brown, R.H. Evans and A.J. Mariano. The annual and super-annual patterns of satellite-derived sea surface temperatures in the
Southwestern Atlantic Ocean. Transactions of the American Geophysical Union, 71(17), 1990, p. 542 (abstract).

1991
Hitchcock, G. L. and A. J. Mariano. Pigment distribution in a Gulf Stream meander crest. The Synoptician, 2(4), 1991, pp. 1-2.

Hummon, J., T. Rossby, E. Carter, J. Lillibridge, M. Liu, K. Schultz Tokos, S. Anderson-Fontanta and A. Mariano. The anatomy of Gulf Stream Meanders,
Volume I: Technical description and fall cruise data, GSO URI Tech. Report 91-4, 1991, 254 pp.

Hummon, J., T. Rossby, E. Carter, J. Lillibridge, M. Liu, K. Schultz Tokos, S. Anderson-Fontanta and A. Mariano. The anatomy of Gulf Stream Meanders,
Volume II: Spring cruise data, GSO URI Tech. Report 91-4, 1991, 250 pp.

Mariano, A. J. Empirical orthogonal contours. The Synoptician, 2, 1991, pp. 6-7.

Shay, L.K., P. Black, J.D. Hawkins, R.L. Elsberry and A.J. Mariano. Sea surface temperature response to Hurricane Gilbert. 19th Conference on
Hurricanes and Tropical Meteorology, AMS, 1991, pp. 574-578 (extended abstract).

1992
Hitchcock, G. L., and A. J. Mariano. Mesoscale Pigment Fields in a Gulf Stream Meander Trough. The Synoptician, 3(4), 1992, pp. 1-3.

1993
Mariano, A. J. and G. L. Hitchcock. Bio-physical variability in the upper 200 m of a Gulf Stream meander crest. Abstracts of the Third Scientific
Meeting of The Oceanography Society, April 13 - 16, 1993, Seattle, Washington, p. 151.

Ortner, P. B., C. Porch, J. M. Napp, and A. J. Mariano. Vertical Redistribution of Epizooplankton in Gulf Stream Meanders. Abstracts of the
Third Scientific Meeting of The Oceanography Society, April 13 - 16, 1993, Seattle, Washington, p. 153.

Ashjian, C. J., S. L. Smith, and C. N. Flagg and A. J. Mariano. The Influence of Gulf Stream Meanders on the Distribution of Zooplankton. Abstracts of the Third Scientific Meeting of The Oceanography Society, April 13 - 16, 1993, Seattle, Washington, p. 162.

1994
Mariano, A.J., L. Shay and P. Black. Near-Inertial Ocean Current Response to Hurricane Gilbert. Transactions of the American Geophysical Union, 75(3), 32.

Hitchcock, G.L., A.J. Mariano, C.J. Ashjian and E.H. Ryan. A principal component analysis of Bio-physical Fields in a Gulf Stream Meander Crest.
Transactions of the American Geophysical Union, 75(3), 40.

Chin, T.M. and A.J. Mariano. Gulf Stream North Wall Position Variability: Statistical Interpolation and Analysis of Satellite SST data. Transactions
of the American Geophysical Union, 75(3), 48.

Wiseman, W.J., G.L. Hitchcock, A.J. Mariano and W.C. Boicourt. Kinematics of the Mississippi River Plume under Westerly Winds. Transactions of the American Geophysical Union, 75(3), 65.

Swenson, M.S., S. Bauer, A. Griffa, A.J. Mariano and K. Owens. Geographical Variations of Horizontal Diffusivity in the Tropical Pacific Mixed Layer. Transactions of the American Geophysical Union, 75(44), 359.

1995
Chin, T.M. and A.J. Mariano. Gaussian Markov Random Fields, Kalman Filters, and Large-Scale State Estimation. SIAM Symposium on Inverse Problems Geophysical Applications.

1996
Jacob, S.D., L.K. Shay, and A.J. Mariano. Mixed Layer Heat Balance During Hurricane Gilbert. 76th AMS Meeting, Abstract.

Shay, L.K. and A.J. Mariano. Energy Flux from Hurricane Gilbert Wind Field to Near-inertial Motions. 76th AMS Meeting, Abstract.

Wiseman, W.J., Jr., G.L. Hitchcock, W.C. Boicourt, W.D. Wallar, A.J. Mariano, T. Whitledge, and E. Ryan. Kinematics and Nutrient Distributors in the SW Pass Plume of the Mississippi River. EOS Transaction of AGU Supplement, 76(3), OS122.

Pavia, A.M., E. Chassignet, R. Bleck, L.T. Smith, A.J. Mariano. Impact of different forcing on Numerical Simulations of the North Atlantic Circulation. EOS Transaction of AGU Supplement, 76(3), OS56.

Ryan, E.H., A.J. Mariano, D.B. Olson and R.H. Evans. Global Sea Surface Temperature and Currents. EOS Transaction of AGU Supplement, 47.

Chin, T.M., A.J. Mariano, and E.P. Chassignet. Markov Random Field Modeling of Covariances and Variational Approach to Kalman Filter for Assimilation of TOPEX/POSEIDON Data into MICOM. EOS Transaction of AGU Supplement, 47.

Goni, G., S.L. Garzoli, A.J. Mariano, D.B. Olson and O. Brown. Monitoring Altimeter Data. EOS Transaction of AGU Supplement, 47.

Spindler T.D., W.E. Johns and A.J. Mariano. A Study of Meander Growth and Decay in a Six-layer Isopycnic Channel Model of the Gulf Stream. EOS
Transaction of AGU Supplement, 47.

Wilson-Diaz, D., A.J. Mariano, R.H. Evans and D.B. Olson. A Principal Component Analysis of Sea Surface Temperature from the Arabian Sea Pathfinder Data and Two Indian Ocean Models. EOS Transaction of AGU Supplement, 47.

1998
Ozgokmen, T.M., A. Griffa, L. Piterberg, and A.J. Mariano. Assimilation of Lagrangian data for the prediction of particle motions in a numerical ocean model. EOS Transaction AGU, 79(1), OS36.

Wilson-Diaz, D., A.J. Mariano and R. Evans. A principal component analysis of sea surface temperature from the Arabian Sea Pathfinder data and the Luther-Ji USF model, Spring Ocean Science Meeting. Boston, Mass.

C. Perez, A. Moore and A. J. Mariano. Ensemble Averaging of Gulf Stream Forecasts Using Contour Analysis. EOS Transaction AGU

1999
Ozgokmen, T. M., A. Griffa, L. I. Piterbarg, and A.J. Mariano. Predictability of trajectories in the ocean and Lagrangian Data Assimilation. International Liege Colloquium on Ocean Hydrodynamics, May 1999.

2000
Bauer, S., M. Swenson, A. Griffa, and A.J. Mariano. Eddy-mean flow decomposition and eddy-diffusivity estimates in the tropical Pacific Ocean. LAPCOD 2000, Ischia, Italy, Oct.2-6,2000.

Cook, T.M., H. Peters, L.K. Shay, P.E. An, J.C. Van Leer, and A.J. Mariano. Submesoscale Vortices at the Edge of Florida Current on the East Florida Shelf, EOS Trans. AGU, OS22D-02

Garraffo, Z.D., A.J. Mariano, A. Griffa, C. Veneziani, E.P. Chassignet. Comparison of Lagrangian data in a high resolution North Atlantic model with in-situ drifter data. LAPCOD 2000, Ischia, Italy, Oct.2-6,2000.

Glover, D.M, S.C Doney, A.J. Mariano, R.H. Evans, and S.J. McCue. Mesoscale variability in time-series data: Satellite based estimates for the U.S. JGOFS Bermuda Time-Series Study (BATS) site. EOS Trans. AGU, OS12M-12.

Griffa, A., Z. Garraffo, A. J. Mariano, and E. Chassignet. Statistical errors in estimating mean flow from Lagrangian data. LAPCOD 2000, Ischia, Italy, Oct.2-6,2000.

Ozgokmen, T. M., A.J. Mariano, A. Griffa, and L. I. Piterbarg. Predictability analysis of drifter clusters in the tropical Pacific Ocean. EOS Trans. AGU, OS11F.

Ozgokmen, T. M., L. Piterbarg, A.J. Mariano, and E. Ryan.Predictability of Drifter Trajectories in the Tropical Pacific Ocean. LAPCOD 2000, Ischia, Italy, Oct.2-6,2000.

Shay, L.K., H. Peters, A.J. Mariano, T.M. Cook, E. H. Ryan, and T. Ozgokmen. Very-High Resolution Mapping of Surface Currents. LAPCOD 2000, Ischia, Italy, Oct.2-6,2000.

Yang, Q., B. Parvin, and A. Mariano, Singular Features in Sea Surface Temperature Data,International Conference on Pattern Recognition, Sep. 2000

Q. Yang, B. Parvin, A. Mariano, E. Ryan, R. Evans, O. Brown, Detection and distribution of vortices and saddle points in sea surface temperature (SST) data, Oceans from Space 2000, Scuola Grande Confraternita di San Teodoro, Venice (Italy) 9-13 October 2000 (Session 4.3.2)

2001
Piterbarg, L I, A. Griffa, A.J. Mariano, T.M. Ozgokmen, E.H. Ryan Predictability of the Lagrangian Motion in the Upper Ocean 2001 Fall AGU meeting, #NG42A-0407.

Cook, T.M., H. Peters, L.K. Shay, P.E. An, S. Smith, A.J. Mariano, and J.C. Van Leer. Submesoscale Vortices at the Edge of Florida Current on the East Florida Shelf, In: 2000 Ocean Science Meeting. EOS, Trans. AGU, 80(49). American Geophysical Union, 24-28 January, San Antonia, Texas, p. 115.

2002
Haller, G., F. Lekien, A. J. Mariano, E. Ryan, L. K. Shay Near-Surface Transport and Mixing in High Frequency Radar Measurements on the Coast

of Florida and Application to Contaminant Release, LAPCOD 2002, Key Largo, FL., Dec 12-16,2002.

Haza, A., N. Paldor, A.J. Mariano. On the Interaction Between the Gulf Stream and the New England Seamount Chain. EOS transactions, AGU, S32F-209

Mariano, A.J., E.H. Ryan, and J. Gyory. A Web-based Ocean Current Reference Site. EOS transactions, AGU, OS11F-79.

Mariano, A.J., E.H. Ryan and J. Gyory, http://OceanCurrents.rsmas.miami.edu, LAPCOD 2002, Key Largo, FL., Dec 12-16,2002.

Molcard A., L. Piterbarg, A. Griffa, T.M., Ozgokmen, and A.J. Mariano. Assimilation of drifter positions for the reconstruction of the Eulerian circulation field. LAPCOD 2002, Key Largo, FL., Dec 12-16,2002.

Paldor, N., Y. Dvorkin, A.J. Mariano, T.M., Ozgokmen, and E. Ryan. Reconstruction of near-surface drifter trajectories in the Pacific Ocean with a hybrid model. LAPCOD 2002, Key Largo, FL., Dec 12-16,2002.

Veneziani, M., A. Griffa, A. Reynolds, A. J. Mariano. Oceanic turbulence and stochastic models from Lagrangian data: results in the North Atlantic Ocean. LAPCOD 2002, Key Largo, FL., Dec 12-16,2002.

Wilson-Diaz, D.M., A.J. Mariano, and R.H. Evans, An Analysis of the Arabian Sea Surface Heat Budget Using Satellite and In-Situ Multi-annual Data Sets. EOS transactions, AGU, OS12D-171.

2003
Paldor, N., Y. Dvorkin, A.J. Mariano, T.M., Ozgokmen, and E. Ryan. A hybrid Eulerian-lagrangian model for predicting the trajectories of surface drifters in the Pacific ocean. EGS-AGU-EUG Joint assembly. EAE03-A-11666.

Mariano A.J. Application of Auto-Regressive models to Lagrangian prediction, data assimilation, and stochastic boundary conditions. Gordon Research Conference on Coastal Ocean Modelling, June 22-27,2003, Colby Sawyer College.

2004
Mariano, A.J., T.M. Chin, and T.M. Ozgokmen. On the use of Stochastic Boundary Conditions for modeling in numerical circulation models. ALSO/TOS Ocean Research Conference, SS6.09-9.

Mariano, A.J., E.H. Ryan, B. Biscoff, and J. Gyory. An educational web-based ocean current site. ALSO/TOS Ocean Research Conference,

SS10.03-412.

2005
A. Griffa, A. Mariano, T. Ozgokmen, T.M. Chin. (Invited talk by Mariano). Application of Auto-regressive models to Lagrangian Prediction and Stochastc BCs, SIAM Conference on Applications of Dynamical Systems, May 22-26, 2005, Snowbird, Utah. MS72, 158.

Mariano, A.J., E.H. Ryan, and B. Bischof, An educational web-based ocean current site. 2005 International Ocean Research Conference, June 6-10, Paris France.

T.M. Chin, T. Ozgokmen, and A.J. Mariano. (Invited talk by Mariano). On the use of Stochastic Boundary Conditions for the assimilation of coastal data.
2005 International Ocean Research Conference, June 6-10, Paris France.

Mariano, A.J., E.H. Ryan, and B. Bischof. Ocean Current Website. LAPCOD 2005, Lerici, Italy, June 13-17, 2005.

Mariano, A.J., T. Ozgokmen, T.M. Chin, A Griffa, and E.H. Ryan. The Inverse Lagrangian Prediction Problem. LAPCOD 2005, Lerici, Italy, June 13-17, 2005.

Molcard, A., A. Griffa, T.M. Ozgokmen, L.I. Piterbarg, V. Taillandier, A. Mariano, T.M. Chin, Assimilation of float positions in general circulation and regional scale ocean models. LAPCOD 2005, Lerici, Italy, June 13-17, 2005.

Veneziani, M., A. Griffa, A. Reynolds, Z. Garraffo, E. Chassignet, and A. Mariano. Mesoscale ocean turbulence and coherent structures as observed from Lagrangian data. LAPCOD 2005, Lerici, Italy, June 13-17, 2005.

2006
Chin, T.M. and A.J. Mariano. Application of particle filter in optimal deployment of Lagrangian Sensors, EOS TRans. AGU, 87(36) Ocean Science Meeting, Suppl., Abstract OS26L-05

2008
Chin, T.M. and A.J. Mariano. A Drifter Deployment Strategy using Simulated Trajectories Constrained by Particle Filter. 2008 Ocean Science Meeting

Chin, T.M., J. Vazques, E. M. Armstrong, A.J. Mariano. Multi-Resolution Motion-Compensated Analysis of Sea Surface Temperature, EOS TRans. AGU, 89(53) Fall Meeting Suppl., Abstract IN54A-01

Mariano, A.J. and E.H. Ryan. An Educational Web-Based Ocean Current Reference Site, 2008 Ocean Science Meeting

Roffer, M.A., M.A. Upton, G.J. Gawlickowski, D.C. Westhaver, F.E. Muller-Kager, A.J. Mariano, and D.L. Hammond, Application of Infrared and Ocean Color Satellite Data in Pelagic Fisheries Assessment and Manangement in the Southeastern United States. 2008 Ocean Science Meeting

Volpe, G., V. Banzon, R. Santoleri, A. Mariano, and R. Sciarra. On the Relationship Between Satellite-derived Aerosol Optical Thickness and Chlorophyll in the Mediterranean Sea. 2008 Ocean Science Meeting.

2009
Mariano, A.J., T.M. Chin, E.H. Ryan, J. Vazquez, and E. Armstrong. Motion-compensated spatio-temporal interpolation of SST fields, International GHRSST User Symposium, Santa Rosa, CA, USA, May 28-19, 2009.

Mariano, A.J. and T.M. Chin. Particle Filters for Lagrangian Prediction. LAPCOD 2009, La Londe-les-Maures, Cote d'Azur, France Sept., 7-11, 2009.

T.M. Chin, A.J. Mariano, and A. Srinivasan. Constrained ensemble simulation for inverse Lagrangian prediction problem LAPCOD 2009, La Londe-les-Maures, Cote d'Azur, France Sept., 7-11, 2009.

2010
S. Simoncelli, N. Pinardi, P. Oddo, and A. Mariano. Rapid Environmental Assessment in the Northern Adriatic, EOS Trans. AGU, 91(26), Ocean Sci. Meet. Suppl., Abstract PO35A-03

T.M. Chin, J. Vazquez, E. Armstrong, A. Mariano, E.H. Ryan, G Jedlovec, F. LaFontaine, and J. Schafer. Estimation of analysis errors is satellite-based, high-resolution SST maps. EOS Trans. AGU, 91(26), Ocean Sci. Meet. Suppl., Abstract PO54F-07

L.J. Gramer, A.J. Mariano, and J.S. Fajans, and J.C. Hendee. An Ocean Heat Budget for the Florida Reef Tract. Linking Science to Management: A Conference and Workshop on the Florida Keys Marine Ecosystem. Oct 19-22, 2010.

Simona Simoncelli, Nadia Pinardi, Paolo Oddo, Arthur J. Mariano, Giuseppe Montanari, Attilio Rinaldi, Edward H. Ryan, and Marco Deserti. Coastal Rapid Environmental Assessment in the Northern Adriatic Sea. Geophysical Research Abstracts Vol. 12, EGU2010-6308

T.M. Chin, J. Vazquez, E. Armstrong, and A. Mariano. Multi-Resolution Motion-Compensated Analysis for Merging Satellite Date Sets. NASA Sea Surface Temperature Science Meeting.

2011

L.J. Gramer, A.J. Mariano, and J.C. Hendee. Ocean Heat Budget for the Florida Reef Tract: Sub-kilometer scale processes and MISST. PROCEEDINGS OF THE GHRSST XII SCIENCE TEAM MEETING, Jun27- Jul 1, 2011, pg 216.

Mariano, A.J., T.M. Chin, E.H. Ryan, J. Vazquez, and E. Armstrong. Motion-compensated spatio-temporal interpolation of SST fields. NASA Sea Surface Temperature Science Meeting.

2012
Lillibridge III, J. L. and A.J. Mariano. A Statistical Analysis of Gulf Stream Variability from 20 Years of Altimetry. 20 Years of Progress in Radar Altimetry. Venice, Italy September 2012

Mariano, A.J., J. M. Restrepo, S. Venkataramani,and E.H. Ryan A contour-based method for averaging and assimilating the location of oil particles. LAPCOD Meeting, June 9-13, 2012.

Restrepo, J. M.; Dawson, C.; Venkataramani, S.; Mariano, A. Requirements of a Minimal Model for Mesoscale Ocean-Surface Oil Slicks. 2012 Ocean Science Meeting, Abstract ID: 9757

Fenton, J., A. Mariano, and D.W. Kerstetter. 2012. Post-release survival and habitat utilization of juvenile swordfish in the Florida Straits recreational fishery. Oral presentation: 32nd Annual Meeting of the Florida Chapter of the American Fisheries Society.

2013
Mariano, A.J., E.H. Ryan, J. M. Restrepo, S. Venkataramani, S. Rosenthal, E.F. Coelho, and G. Jacobs. Contour-based Averaging of oil location data and model ensembles. 2013 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Jan 20-23, 2013.

+11 other presentations as part of the GLAD group at the 2013 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Jan 20-23, 2013. See http://2013abstracts.gulfofmexicoconference.org/?s=Mariano

2014
Berta, M., A. Griffa, M. Magaldi, A. Poje, G. Novelli, A. Haza, T. Ozgokmen, J. Olascoaga, M. Iskandarani, G. Jacobs,E. Coelho, B. Lipphardt, D. Kirwan6, A. Mariano, H. Huntley6, E. Ryan3, F. Beron-Vera, B. Haus, A. Reniers, D. Bogucki. Velocities and Lagrangian transport estimates from GLAD data clustering at various scales via the Lagrangian assimilation algorithm LAVA. 2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Jan 26-28, 2014.

Laurindo, L.C., A. J. Mariano, E. H. Ryan. An adaptive minimum-variance coordinate system for calculating a near-surface velocity climatology from ocean drifters. 2014 Gulf of Mexico Oil Spill and

Ecosystem Science Conference, Jan 26-28, 2014.

Lipphardt, B.L. and GLAD group. Objective surface velocity maps from GLAD drifter observations in the eastern Gulf of Mexico. 2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Jan 26-28, 2014.

Mariano, A.J., E.H. Ryan, L.C. Laurindo and GLAD group. Lagrangian-based Estimates of the Statistical Properties of the Northern Gulf of Mexico Surface Velocity Field as Sampled by GLAD Drifters. 2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Jan 26-28, 2014.

Mariano, A.J. Modeling and Predicting the Transport in the Gulf of Mexico and Florida Straits. 2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Jan 26-28, 2014.

A. Poje, A., T. Ozgokmen, B. Haus, B. Lipphardt, A. Haza, A. Reniers, E. Ryan, J. Olascoaga, E. Coelho. Jacobs, A. Kirwan, H. Huntley, A. Mariano, A. Griffa. Observations of Ocean Turbulence at the Submesoscales: Classic Similarity Theory in GLAD Surface Drifter Data. 2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference, Jan 26-28, 2014.

2015

Berta, M., A. Griffa, M. Magaldi, T. Ozgokmen, A. Poje, A. Haza, J. Olascoaga, E. Coelho, M. Iskandarani, G. Novelli, A. Mariano, E. Ryan, F. Beron-Vera, G. Jacobs, B. Haus, A. Reniers, H. Huntley, B. Lipphardt, A. Kirwan. Improved surface transport estimates in the Gulf of Mexico by blending altimetry and drifter data. 2015 Gulf of Mexico Oil Spill and Ecosystem Science Conference, feb 18-20, 2015.

Carmody, K. G., A. J. Mariano, and D. W. Kerstetter. A Principal Component Analysis of vertical temperature profiles for tracking movements of swordfish Xiphias gladius.
2015 LAPCOD meeting, July 27-31,2015.

Drouin, K., L. Laurindo, A. J. Mariano, E. H. Ryan, and B. Kerns Preliminary results from Lagrangian simulation of oil trajectories in the Florida Straits.
2015 LAPCOD meeting, July 27-31,2015.

Haza, A.C., T. M. Ozgokmen, A. Griffa, P. Hogan, G. Jacobs, E. Coelho, A. Poje, L. Zamudio, E. Ryan, D. Bogucki, H. Huntley, B. Lipphardt, M. J. Olascoaga, B. J. Francisco, A. J. Mariano, A.D. Kirwan. Parametrization of surface particle transport at submesoscales in the Gulf of Mexico. 2015 Gulf of Mexico Oil Spill and Ecosystem Science Conference, feb 18-20, 2015.

G. Jacobs, B. P. Bartels, D. Bogucki, F. J. Beron-Vera, S. Chen, E. F. Coelho, M. Curcic, A. Griffa, M. Gough, B. K. Haus, A. C. Haza, R. K. Helber, P. J. Hogan, H. Huntley, M. Iskandarani, F. J. Kirwan, N.

Laxague, A. Valle-Levinson, B. Lipphardt, A. Mariano, H. E. Ngodock, G. Novelli, M. Olascoaga, T. Ozgokmen, A. C. Poje8, A. Reniers, C. D. Rowley, E. H. Ryan4, S. Smith, P. L. Spence, P. G. Thoppil, M. Wei. Data assimilation considerations for improved ocean predictability during the Gulf of Mexico Grand Lagrangian Deployment (GLAD). 2015 Gulf of Mexico Oil Spill and Ecosystem Science Conference, feb 18-20, 2015.

Laurindo, L. and A.J. Mariano. A new method for the decomposition of Lagrangian observations. 2015 LAPCOD meeting, July 27-31,2015.

2017
Drouin, K. L., A. J. Mariano, E. H. Ryan, L. Laurindo, B. Kerns. Lagrangian Simulation of Oil Trajectories in the Florida Straits with a Focus on Seasonal Differences. Oil Spill and Ecosystem Science Conference - New Orleans

Laurindo, L. C., A. J. Mariano, and R. Lumpkin (2017), An improved surface velocity climatology for the global ocean from drifter observations. Abstract presented at 2017 Gulf of Mexico Oil Spill & Ecosystem Science Conference, New Orleans, LA, 6–9 Feb.

2018
Laurindo, L. C., L. Siqueira, A. J. Mariano, and B. J. Kirtman, Cross-spectral analysis
of the SST/10-m wind speed coupling resolved by satellite products and climate model simulations,Abstract AI34A-1631 presented at 2018 Ocean Sciences Meeting, Portland, OR

2019
Laurindo, L.C., Arthur J. Mariano, William E. Johns, Igor V. Kamenkovich, Rick
Lumpkin, and Leo Siqueira.A meso to large-scale assessment of the air-sea exchange of mechanical energy using concurrent drifter and satellite observations. CLIVAR Sources and Sinks of Ocean Mesoscale Eddy Energy Meeting, Florida State University Alumni Center in Tallahassee, Florida, March 12-14 meeting.

A.J. Mariano, On Diffusivity, 2019 LAPCOD meeting, Venice Italy, June 17-21, 2019

A.J. Mariano, A brief history of LAPCOD, 2019 LAPCOD meeting, Venice Italy, June 17-21, 2019

20. Other Works Accepted/submitted for Publication:
Fenton, J., D. Kerstetter, A. J. Mariano, Habitat Utilization of Juvenile Swordfish in the Florida Straits, Canadian Journal of Fisheries and Aquatic Sciences, under revision.

PROFESSIONAL

21. Funded Research
CARTHE III consortium FY18-19, with numerous co-PI, ~10,000,000

CARTHE II consortium, FY15-17, with numerous co-PIs ~$19,000,000

CARTHE consortium, FY11-14, with numerous co-PIs $15,300,000

Collaborative Research: Lagrangian Data Blending for Hurricane Tracking and Source Estimation, FY11-14, NSF, co-PIS at UA (Restrepo and Venkataramani), $200,000

Multi-Sensor Ultra-High Resolution Global SST Fields. FY08-12 NASA with co-PIs at JPL (Armstrong, Chin, and Vazquez), $734,594.

An Introduction to the Analysis, Interpolation, and Assimilation of Space-Time Data Textbook, ONR, FY09-10, $80K (with Mike Chin)

US GODAE: Global Ocean Prediction with the HYbrid Coordinate Ocean Model (HYCOM) FY04-FY09, $4,432,771. E.P. Chassignet (PI) with co-PIs R. Bleck,
T. Chin, M. Clancy, G. Halliwell, H. Hurlburt, M. Iskandarani, A.J. Mariano, R. Rhodes, C. Thacker, A. Wallcraft

HYCOM Consortium for Data-Assimilative Ocean Modeling. NOPP-funded. FY99-FY04, $1,812,498 E.P. Chassignet (PI) with co-PIs R. Bleck, T. Chin, M. Clancy, G. Halliwell, H. Hurlburt, A.J. Mariano, M. O'Keefe, R. Rhodes, C. Thacker, A. Wallcraft

Coastal and Ocean Data Assimilation, ONR, FY05-FY06, FY07-08, with co-PI Mike Chin, $239,671, $277,634

A Random Field Framework for Boundary Conditions in Numerical Models of Coastal and Ocean Circulations, NSF, FY03-FY05, $362,407. Toshio Chin (PI), Arthur J. Mariano (co-PI), and Tamay M.Ozgokmen (co-PI).

Inhomogeneous and Nonstationary Feature Analysis: Melding of Oceanic Variability and Structure. ONR, FY90-FY94, $593,594; FY95-FY96, $469,068; FY97-FY98, $421,000; FY99-00, $398,589; FY01-02, $455,267; FY03-04, $325,000 A.J. Mariano (PI) and T.M. Chin (co-PI)

Stochastic transport models for the coastal ocean. NSF, FY04-06, $119,000 for UM; C. Ohlman (PI), L. Washburn (co-PI), and A.J. Mariano (co-PI)

Predictability of particle trajectories in the ocean. ONR, FY98-00; $196,000; FY01-02; $327,480; FY03-04; $197,000: FY04-07, $443,406. T. Ozgokmen (PI), A. Griffa and A.J. Mariano (co-PI)

Workshop on Lagrangian Analysis and Predictability of Coastal and Oceanic Dynamics (LAPCOD); FY 00, $20,000; FY 02, $20,000.

Four-dimensional Current Experiment. ONR, FY98-00; $404,860; N. Shay (PI) with co-PIs H. Peters, J. Van Leer and A.J. Mariano

Satellite data assimilation in the Miami ocean model: Application to oceanic heat transport calculations and process studies. NASA, FY95, FY96, FY97, $308,998; A.J. Mariano (PI) with co-PIs R. Bleck, E. P. Chassignet, T.M. Chin, and G. R. Halliwell.

Improvement of Tropical SST Fields. NSF/NOAA, FY91, FY92, and FY93, $623,292 O.B. Brown (PI) and A.J. Mariano (co-PI)

Random Fields in Oceanography. ONR, FY91 and FY92, $8,320 A.J. Mariano (PI) and A. Griffa (co-PI)

Near Inertial Oceanic Response to a Tropical Cyclone. NSF FY92, FY93, FY 94, $120,0000; L. K. Shay (PI) and A.J. Mariano (co-PI)

22. Editorial Responsibilities:

Editorial Board of the International Journal of Oceans and Oceanography

Reviews for J. of Geophysical Research, J. of Marine Research, J. of Atmospheric and Oceanic Technology, J. Physical Oceanography, Academic Press, Cambridge University Press, Geophysical Research Letters, NSF, NASA, NOAA, Sea Grant, J. of Marine Systems, Deep-Sea Research, J. of Applied Meteorology, Physica D, Continental Shelf Research

23. Professional and Honorary Organizations:

- The Oceanographic Society
- International Oceanographic Foundation

24. Honors and Awards:

- Honors Graduate of Stockton State College, 1978
- Who's Who in American Colleges And Universities, 1979
- Hottest paper in Dynamics of Atmosphere and Ocean, 2012, 2013
- Student Laurindo best PhD at RSMAS award 2018

25. Post-Doctoral Fellowships: Harvard University, University of Miami

26. Other Professional Activities: See "18. Other works and publications"

1980 - 1990 - Participation in ten oceanographic cruises, a total of 6 months at sea.

1980 - present - Presented invited seminars at Harvard University, University ofMiami, University of Rhode Island, MIT, Woods Hole Oceanographic Institution, University of New Hampshire, The Analytic Science Corporation, Navy Workshop on Ocean Predictions, Polymode, SYNOP, TOGA, WMO, BioSYNOP, TOS, U. of Maryland, N. Carolina State, U.S. Coast Guard R&D, Random Fields In Oceanography, Nova University, SIAM Symposium on Inverse Theory, Bigelow, NRL, Liege Colloquium, U. of Sao Paulo, FNMOC, Gordon Research Conference, Rutgers University, U. fo Bologna ....

1982 - 1985 Guest lecturer at the University of Rhode Island for graduate and undergraduate courses.
1986 - 1988 Guest lecturer at Harvard for graduate courses.
1988 - 1990 Guest lecturer at University of Miami for graduate courses.

PAMRAN panel of National Academy of Science, "Statistical Problems in Oceanography."

"Random Fields in Oceanography" Miami, FL, University of Miami, RSMAS, 1-3 April, 1992, meeting co-convener with A. Griffa.

1994 - Co-founder of newsgroup sci.geo.fluid.

1995 - NSF Ocean Science Review Panel

Consultant for Analysis and Technology, Inc. and U.S. Coast Guard Search and Rescue R&D on search and rescue issues.

Co-chair: International Workshop on Numerical Prediction of Oceanic Variations, Tokyo, 7-11 March 1995.

1997 - Invited lecturer at Univ. Sao Paulo, Brazil
Data Analysis and Assimilation in Oceanography and Meteorology mini-course.

1998 - NASA JASON Science Panel

Invited lecturer at Naval Research Laboratory, Stennis, MS

1999 - Invited panelist for the 3rd Inter-American Dialogue of Water Management, Panama City, Panama

2000- Co-organizer of Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics Meeting, Ischia, Italy, Oct. 2-6, 2000.

2001- Invited lecturer at Fleet Numerical Meteorology and Oceanographic Center, Monterey, CA

Lagrangian Analysis and Prediction of Coastal web-site put online (see http://www.rsmas.miami.edu/LAPCOD/)

2002- Invited panelist, IMA workshop on Nonlinear Data Assimilation, U. of Minnesota, Apr. 29-May 3, 2002.

Co-chair of session. Ocean Sciences: Societal Impacts and Services, 20002 Ocean Science Meeting.

Co-organizer of Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics Meeting, Key Largo, FL, Dec. 12-16, 2002.

Ocean current web-site put online (see, for example, http://oceancurrents.rsmas.miami.edu/atlantic/florida.html)

2003- Invited lecturer, Gordon Research Conference on Coastal Modeling

Invited panelist, ONR/NSF workshop on data assimilation

Invited panelist, ONR workshop on the optimal deployment of drifting acoustic sensors

2004- Scientific committee, Statistical and Applied Mathematical Science Institute (SAMSI) 2004-05 Program on Data Assimilation for Geophysical Systems

Editorial Board of the International Journal of Oceans and Oceanography

2005- Co-organizer of Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics Meeting, Lerici, Italy, June 13-17, 2005.

Guest Lecturer, U. of Bologna (Nadia Pinardi), Italy, Feb 2005.

Guest Lecturer, Statistical and Applied Mathematical Science Institute (SAMSI) Program on Data Assimilation for Geophysical Systems, U. of N. Carolina, April 2005.

Guest Lecturer, Lagrangian Summer School, T. Rossby and A. Bennett, U. of Rhode Island, July and August, 2005.

Ocean Current Expert for Bermuda Triangle Documentary, The History Channel

Editorial Board of the International Journal of Oceans and Oceanography

2006-07 - Guest Lecturer, Explorer of the Seas

Ocean Current Expert for Bermuda Triangle Documentary, National Geographic

Advisor and host for visiting scholars, Ms. Simona Simoncelli from U. of Bologna and Mr. Mehmet Demirel from Turkey

Editorial Board of the International Journal of Oceans and Oceanography

2008-2010

Cayman Swordfish Challenge, South Florida Fishing Club, Lighthouse Point Sportsman, Swordfish Club, Miami Billfish Tournament, Swordfish Extravaganza, Billfish Expo, …, Invited Seminars

President of Hollywood Hills Saltwater Fishing Science and Social Club

Advisory board for the Swordfish Club on NMFS recommendations

Hosted Dr. Arakel Petryosan, Russian Academy of Science; David Lindo, visiting scholar from Spain

Editorial Board of the International Journal of Oceans and Oceanography

Co-organizer of Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics Meeting, La-Londe France, Sept 6-11, 2009.

2010-2012

NASA Sea Surface Temperature Science Team, Chair of Sampling and SST Analysis group

Advised the White House's Ocean Advisor on the 2010 Gulf of Mexico Oil Spill

Co-Convener of Mixing and Lagrangian transport in Geophysical Flows, 2010 EGU. Dedicated to Volfango Rupolo, Pilar López González-Nieto, Jose M. Redondo, Maria Josefina Olascoaga, Gyorgy Karolyi, Volfango Rupolo, Joe LaCasce, Kristofe Döös, Arthur Mariano, Paula Pérez-Brunius, and Helmut Baumert

Co-Convener of Mixing, Diffusion and Lagrangian transport in Geophysical Flows, 2011 EGU with Pilar López González-Nieto, Jose M. Redondo, Joe LaCasce, Kristofer Döös, Maria Josefina Olascoaga, Gyorgy

Karolyi, and Arthur Mariano

Hosted a number of oil spill outreach seminars in Florida including a major event at the IGFA for 300+ people

Miami Museum of Science IMPACT program for minority students lecturer

Invited seminars/talks include Billfish Expos II and III. Swordfish Extravaganza II, Cayman Swordfish Challenge 2010 and 2011, Pompano Beach Offshore Anglers, South Florida Fishing Club, Miami Sportfisherman Club, home-schooled children groups, Western HS career day, ...

President of Hollywood Hills Saltwater Fishing Science and Social Club

Co-Convener of Mixing, Diffusion and Lagrangian transport in Geophysical Flows, 2011 EGU, with J. M. Redondo, J. LaCasce , M. J. Olascoaga , G. Karolyi, P. López González-Nieto.

Organizer of 2012 LAPCOD Meeting, Miami Beach, FL

2013-2015
NASA Sea Surface Temperature Science Team

South East Florida Coral Reef Initiative Technical Advisory Committee Member

Our Florida Reef South Community Planning Group Alternate Member

Extensive CARTHE Outreach: IMPACT Summer student lecture and field trips; class room visits to middle schools and high schools, invited Journalist lecture at 2014 GoMRI meeting, public lectures including assisted living facility

President of Hollywood Hills Saltwater Fishing Science and Social Club

The Gulf Stream in Angler's Journal, volume 2

2 invited seminars at the 2014 Gulf of Mexico Oil Spill and Ecosystem Conference

2015 NOSB Webinar and questions for competition

Coastal Conservation Association Broward Chapter Committee Member

C0-Organizer of 2015 LAPCOD Meeting, Winter Harbor, ME

2016-22
South East Florida Coral Reef Initiative Technical Advisory Committee Member

CARTHE Outreach

President of Hollywood Hills Saltwater Fishing Science and Social Club

Invited seminar at Hebrew University

Co-Organizer of 2019 LAPCOD Meeting, Venice, Italy

TEACHING

27. Teaching Awards Received: None

28. Teaching Specializations:

MSC 205 Mathematical Methods for Marine Scientists
MSC 301 honors- Introduction to Physical Oceanography
MSC 372 Lagrangian Exploration of the Ocean
MPO/OCE 503/603- Introduction to Physical Oceanography
MPO 624- Statistical Modeling of Geophysical Fields
RSM 671- Lagrangian Fluid Dynamics
RSM513/613- Statistics of Extreme and Rare Events
MPO 675- Mesoscale Oceanography
MPO/ATM/OCE 711 Geophysical Fluid Dynamics
PHY 101, 205 Homework Discussion groups

29. Thesis and Dissertation Advising:

Chairman:	Shery Zimmerman, M.S., defended
	DeAnna Wilson-Diaz, Ph.D., finished (co-chair)
	Sonia Bauer, Ph.D., finished (co-chair)
	Erica Key, M.S., finished
	Tanya Schneider, M.S., finished (co-chair)
	Angelique Haza, Ph.D., finished
	Lewis Gramer, Ph.D. finished
	Lucas Laurindo, Ph.D., finished
	KIm Drouin, M.S. finished
Committee Member:	Parker Zhang, M.S., finished
	Todd Spindler, Ph.D., finished
	Pilar Cornejo-Rodriguez, Ph.D., finished
	John Hargroves, Ph.D., finished
	Hee-Sook Kang, M.S., finished
	Hee-Sook Kang, Ph.D., finished

Daniel Jacob, Ph.D., finished
Jorina Waworuntu, Ph.D., finished
Sarantis Sofianis, Ph.D., finished
Derrick Snowden, Ph.D., withdrew
Kristen Kleinser, Ph.D., finished
Patrick Meyers, M.S., in progress
MyeongHee Han, Ph.D., withdrew
Christine Harvey, Ph.D., finished
Claire McCaskill, M.S., finished
Matt Archer, Ph.D., finished
Johna Rudzin, Ph.D. finsished
Shitao Wang, Ph.D. finished
Rafael Goncalves Carvalho, Ph.D. finished
Yueyang Lu, Ph.D.

Outside Committee Member: Jules Hummon, Ph.D., URI, finished
Yu Feng, M.S., AMP, finished
Felipe Lourenco, M.S., AMP, finished
Weijing Han, Ph.D., Nova U., finished
Jennifer Wylie, Ph.D., AMP, finished
Simona Simoncelli, Ph.D., U. of Bologna, finished
Elaine Pryputniewicz, M.S., Nova U., finished
Jenny Fenton, M.S., Nova U finished
Kathyrn Carmody, M.S., Nova U, finished
Shawn Martin, M.S., Nova U, in progress
Geoff Banker, AMP, defended
Fabio Barbosa Louza, M.S., AMP, finished
Bruce Pohlot, PhD, MBF, finished
Jorge N. Agobian, PHD, Marine Geoscience
Alexandra Paige, PhD, Fisheries

Postdoctoral Advisor: Dr. Toshio Michael Chin

SERVICE

30. University Committee and Administrative Responsibilities:

2005-2008	-RSMAS Strategic Planning Committee
1998-2001	-RSMAS Computer Communication Committee
1995-1997	-Chairperson MPO Academic Committee
1992-1995	-MPO Academic Committee
1990-1999	-MPO space Committee
1991-2000	-Lecturer for RSMAS Development Office
2009-present	-MPS Computational Meteorology and Oceanography
2010-present	-RSMAS Bylaw Committee

31. Community Activities:

1990-1996 - Co-Coach of RSMAS Softball Team
1996-Present - Participation in beach clean-ups,outreach programs,High School career days,fishing club lectures,home schooling students,etc.
1998-2002 - Special science presentations at VA. Schuman Young Elementary School, Ft. Lauderdale
2002-03,2007 - SAIL Fishing Club Steering Committee
2005 - SE Swordfish Club Steering Committee
2006-present - President Hollywood Hills Swordfish Science and Social Club
2007-present - Swordfish Club Steering Committee
2012-2020 - CARTHE outreach
2013-present - SE Florida Coral Reef Initiative Technical Advisory Committee
2014-2019 - Broward County Coastal Conservation Committee
2014-2019 - Gray Fish Tag Research Science Advisor