

CURRICULUM VITAE FOR FRANCISCO J. BERON-VERA

1. January 21, 2017

BIO SKETCH

Francisco Javier Beron-Vera is a Research Associate Professor in the Department of Atmospheric Sciences at the University of Miami's Rosenstiel School of Marine and Atmospheric Science (RSMAS). He uses concepts from nonlinear dynamical systems theory to study transport and mixing processes in geophysical and astrophysical flows.

Beron-Vera was born in Buenos Aires, Argentina, where he obtained a Licentiate in oceanography from Instituto Tecnológico de Buenos Aires (ITBA) in 1994. He then moved to Ensenada, Baja California, Mexico to pursue graduate education. He obtained MSc (1996) and ScD (2001) degrees in physical oceanography from Centro de Investigación Científica y de Educación Superior (CICESE) under the advise of the late Professor Pedro Ripa. He subsequently moved to Miami to pursue postdoctoral training at RSMAS. He joined the RSMAS faculty in 2010.

Beron-Vera has acquired international recognition for his contributions to the study of *Lagrangian Coherent Structures* (or *LCS*), the concealed backbone around which transport and mixing organize. In particular, he has contributed to develop the notion of *coherent Lagrangian vortex*, the fluidic analogous of black hole in cosmology. This LCS notion enables observer-independent and directly invariant (material) framing of geophysical vortex structures such as Agulhas rings in the ocean, polar vortices in the Earth's stratosphere, the Great Red Spot in Jupiter's weather layer, and vortex tubes in astrophysical dynamos.

Beron-Vera has published nearly thirty peer-reviewed scientific publications dealing with development and applications of LCS theory. His work has been highlighted by Eos, Transactions, American Geophysical Union, and featured on ABC (Spain) and the U.S. National Public Radio among others. Beron-Vera is regularly invited to make presentations at scientific meetings and workshops. He has also been organizer of several conference sessions and a Lorentz center workshop on LCS theory, the first of its kind.

Beron-Vera is currently engaged in multidisciplinary collaborative research efforts with scientists from several U.S. institutions and Mexican oceanographers and meteorologists to study transport and mixing of hydrocarbons in the Gulf of Mexico. He is also engaged in an effort for promoting collaboration in ocean sciences between the U.S. and Argentina. A document is being written that identifies research areas of interest for the U.S. and Argentina. In particular, underway are efforts that aim at facilitating the training of Argentinian students in oceanography and other areas of the math and physics sciences in U.S. institutions.

Beron-Vera has been providing advise to graduate students at RSMAS and institutions elsewhere. He does not have teaching responsibilities at RSMAS or the University of Miami currently, but has teaching experience. He has taught introductory courses on geophysical fluid dynamics and scientific computing. He has also imparted tutorials on LCS theory at meetings and workshops in the US and Canada as well as intensive courses on this subject at various institutions in Latinamerica (Colombia, Brazil, and Argentina).

PERSONAL

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|------------------------------------|---------------------------------|
| 2. Name | Francisco Javier Beron-Vera |
| 3. Mobil Phone | 786-266-1513 |
| 4. Office Phone | 305-421-4873 |
| 5. Address | 2431 SW 24 St., Miami, FL 33145 |
| 6. Current Academic Rank | Research Associate Professor |
| 7. Primary Department | ATM |
| 8. Secondary or Joint Appointments | N/A |
| 9. Citizenship | United States of America |
| 10. Visa Type | N/A |

HIGHER EDUCATION

11. Institutional:
 3. CICESE, Mexico; ScD, physical oceanography; 2001. (Advisor: Pedro Ripa.)
 2. CICESE, Mexico; MSc, physical oceanography; 1996. (Advisor: Pedro Ripa.)
 1. ITBA, Argentina; Licentiate, oceanography; 1994. (Advisor: Roberto Delellis.)
12. Non-Institutional: N/A
13. Certification, licensure (description; board or agency; dates): N/A

EXPERIENCE

14. Academic:
 6. FCEN/DCAO, Universidad de Buenos Aires; Interim Adjunct Professor; 2016.
 5. RSMAS, University of Miami; Research Associate Professor; 2010–present.
 4. RSMAS, University of Miami; Assistant Scientist; 2004–2010.
 3. CICESE, Mexico; Graduate Research Assistant; 1998–2000.
 2. CICESE, Mexico; Graduate Teaching Assistant; 1997–1998, 2000.
 1. ITBA, Argentina; Undergraduate Teaching Assistant; 1992–1993.
15. Non-Academic: N/A
16. Military: N/A

PUBLICATIONS (citations: 1274; h-index: 22)

17. Books and monographs published: N/A
18. Refereed articles published:
 43. Rempel, E. L., A. C.-L. Chian, **F. J. Beron-Vera**, S. Szanyi and G. Haller (2016). Objective vortex detection in an astrophysical dynamo. *Monthly Notices of Roy. Astronom. Society*, in press.
 42. **Beron-Vera, F. J.**, M. J. Olascoaga and R. Lumpkin (2016). Inertia-induced accumulation of flotsam in the subtropical gyres. *Geophy. Res. Lett.*, doi:10.1002/2016gl071443.

41. Wang, Y., **Beron-Vera, F. J.** and M. J. Olascoaga (2016). The life cycle of a coherent Lagrangian Agulhas ring. *J. Geophys. Res.* 121, 3944–3954.
40. **Beron-Vera, F. J.** and J. H. LaCasce (2016). Statistics of simulated and observed separations in the Gulf of Mexico. *J. Phys. Oceanogr.* 46, 2183–2199.
39. Romero, I. C., T. Özgökmen, S. Snyder, P. Schwing, B. J. O’Malley, **F. J. Beron Vera**, M. J. Olascoaga, P. Zhu, E. Ryan, S. Chen, D. L. Wetzel, D. Hollander and S. A. Murawski (2015). Tracking the Hercules 265 marine gas well blowout in the Gulf of Mexico, *J. Geophys. Res.* 121, 706–724.
38. **Beron-Vera, F. J.**, M. J. Olascoaga, G. Haller, M. Farazmand, J. Triñanes and Y. Wang (2015). Dissipative inertial transport patterns near coherent Lagrangian eddies in the ocean. *Chaos* 25, 087412. (**Invited** contribution to *Chaos* Focus Issue on Objective detection of coherent structures.)
37. Wang, Y., M. J. Olascoaga and **F. J. Beron-Vera** (2015). Coherent water transport across the South Atlantic. *Geophys. Res. Lett.* 42, 4072–4079.
36. Coelho, E. F., P. Hogan, G. Jacobs, P. Thoppil, H. S. Huntley, B. K. Haus, B. L. Lipphardt Jr., A. D. Kirwan Jr., E. H. Ryan, M. J. Olascoaga, **F. J. Beron-Vera** et al. (2015), Ocean current estimation using a Multi-Model Ensemble Kalman Filter during the Grand Lagrangian Deployment experiment (GLAD), *Ocean Modell.* 87, 86–106.
35. **Beron-Vera, F. J.** (2014). Flow coherence: Distinguishing cause from effect. In J. Klapp et al. (eds.), *Experimental Fluid Mechanics*, Environmental Science and Engineering, Springer, pp. 81–89, doi:10.1007/978-3-319-11487-3-4.
34. Jacobs, G. A., B. Bartels, D. Bogucki, **F. J. Beron-Vera** et al. (2014). Data assimilation considerations for improved ocean predictability during the Gulf of Mexico Grand Lagrangian Deployment (GLAD), *Ocean Modell.* 83, 98–117.
33. Poje, A. C., T. M. Özgökmen., B. Lipphardt, Jr., B. Haus, E. H. Ryan, A. C. Haza, G. Jacobs, A. J. H. M. Reniers, M. J. Olascoaga, G. Novelli, A. Griffa, **F. J. Beron-Vera** et al. (2014). The nature of surface dispersion near the Deepwater Horizon oil spill. *Proc. Nat. Acad. Sci. USA* 111, 12693–12698.
32. Haller, G., and **Beron-Vera, F. J.** (2014). Addendum to ‘Coherent Lagrangian vortices: The black holes of turbulence.’ *J. Fluid Mech.* 755, R3.
31. Olascoaga, M. J., **F. J. Beron-Vera**, G. Haller, J. Triñanes, M. Iskandarani, E. F. Coelho, B. Haus, H. S. Huntley, G. Jacobs, A. D. Kirwan, Jr., B. L. Lipphardt, Jr., T. Özgökmen, A. J. H. M. Reniers, and A. Valle-Levinson (2013). Drifter motion in the Gulf of Mexico constrained by altimetric Lagrangian Coherent Structures. *Geophys. Res. Lett.* 40, 6171–6175. (**Highlighted** in *Eos* 95 (14), 124.)
30. Haller, G., and **Beron-Vera, F. J.** (2013). Coherent Lagrangian vortices: The black holes of turbulence. *J. Fluid Mech.* 731, R4.
29. **Beron-Vera, F. J.**, Y. Wang, M. J. Olascoaga, G. J. Goni and G. Haller (2013). Objective identification of oceanic eddies and the Agulhas leakage. *J. Phys. Oceanogr.* 43, 1426–1438.
28. Olascoaga, M. J., M. G. Brown, **F. J. Beron-Vera** and H. Koçak (2012). Stratospheric winds, transport barriers and the 2011 Arctic ozone hole. *Nonlin. Processes Geophys.* 19, 687–692.

27. Fiorentino, L. A., M. J. Olascoaga, A. Reniers, Z. Feng, **F. J. Beron-Vera** and J. H. MacMahan (2012). Using Lagrangian Coherent Structures to understand coastal water quality in a tidal environment. *Cont. Shelf. Res.* 47, 145–149.
24. Haller, G., and **F. J. Beron-Vera** (2012). Geodesic theory of transport barriers in two-dimensional flows. *Physica D* 241, 1680–1702.
26. Huhn, F., A. von Kameke, V. Pérez-Muñuzuri, M. J. Olascoaga, and **F. J. Beron-Vera** (2012). The impact of advective transport by the South Indian Ocean Countercurrent on the Madagascar plankton bloom. *Geophys. Res. Lett.* 39, L06602.
25. **Beron-Vera, F. J.**, M. J. Olascoaga, M. G. Brown and H. Koçak (2012). Zonal jets as meridional transport barriers in the subtropical and polar lower stratosphere. *J. Atmos. Sci.* 69, 753–767.
24. **Beron-Vera, F. J.**, M. J. Olascoaga and G. J. Goni (2010). Surface ocean mixing inferred from multisatellite altimetry measurements. *J. Phys. Oceanogr.* 40, 2466–2480.
23. **Beron-Vera, F. J.** (2010). Mixing by high- and low-resolution surface ocean currents. *J. Geophys. Res.* 115, C10027.
22. Reniers, A. J. H. M., J. H. MacMahan, **F. J. Beron-Vera** and M. J. Olascoaga (2010). Rip-current pulses tied to Lagrangian coherent structures. *Geophys. Res. Lett.* 37, L05605.
21. **Beron-Vera, F. J.**, M. J. Olascoaga, M. G. Brown, H. Koçak and I. I. Rypina (2010). Invariant-tori-like Lagrangian coherent structures in geophysical flows. *Chaos* 20, 017514. (**Invited** contribution to *Chaos* Focus Issue on Lagrangian coherent structures in fluid flows.)
20. **Beron-Vera, F. J.** and M. G. Brown (2009). Underwater acoustic beam dynamics. *J. Acoust. Soc. Am.* 126, 80–91.
19. **Beron-Vera, F. J.** and M. J. Olascoaga (2009). An assessment of the importance of chaotic stirring and turbulent mixing on the West Florida Shelf. *J. Phys. Oceanogr.* 9, 1743–1755.
18. Olascoaga, M. J., **F. J. Beron-Vera**, L. E. Brand and H. Koçak (2008). Tracing the early development of harmful algal blooms on the West Florida Shelf with the aid of Lagrangian coherent structures. *J. Geophys. Res.* 113, C12014.
17. **Beron-Vera, F. J.**, M. G. Brown, M. J. Olascoaga, I. I. Rypina, H. Koçak and I. A. Udovydchenkov (2008). Zonal jets as transport barriers in planetary atmospheres. *J. Atmos. Sci.* 65, 3316–3326.
16. **Beron-Vera, F. J.**, M. J. Olascoaga and G. J. Goni (2008). Oceanic mesoscale eddies as revealed by Lagrangian coherent structures. *Geophys. Res. Lett.* 35, L12603.
15. Rypina, I. I., **F. J. Beron-Vera**, M. G. Brown, H. Kocak, M. J. Olascoaga and I. A. Udovydchenkov (2007). On the Lagrangian dynamics of atmospheric zonal jets and the impermeability of the stratospheric polar vortex. *J. Atmos. Sci.* 64, 3595–3610.
14. Rypina, I. I., M. G. Brown, **F. J. Beron-Vera**, H. Koçak, M. J. Olascoaga and I. A. Udovydchenkov (2007). Robust transport barriers resulting from strong Kolmogorov–Arnold–Moser stability. *Phys. Rev. Lett.*, 98, 104102.

13. Olascoaga, M. J., I. I. Rypina, M. G. Brown, **F. J. Beron-Vera**, H. Koçak, L. E. Brand, G. R. Halliwell and L. K. Shay (2006). Persistent transport barrier on the West Florida Shelf. *Geophys. Res. Lett.* 33, L22603.
12. Brown, M. G., **F. J. Beron-Vera**, I. Rypina and I. A. Udovydchenkov (2005). Rays, modes, wavefield structure and wavefield stability. *J. Acoust. Soc. Am.* 117, 1607–1610.
11. **Beron-Vera, F. J.** and M. G. Brown (2004). Travel time stability in weakly range-dependent sound channels. *J. Acoust. Soc. Am.* 115, 1068–1077.
10. **Beron-Vera, F. J.**, M. J. Olascoaga and M. G. Brown (2004). Passive tracer patchiness and particle trajectory stability in incompressible two-dimensional flows. *Nonlin. Processes Geophys.* 11, 67–74. (**Invited** contribution to *Nonlin. Processes Geophys.* Special Issue dedicated to Prof. A. D. Kirwan Jr. on the occasion of his 70th birthday.)
9. **Beron-Vera, F. J.** (2003). Constrained Hamiltonian shallow-water dynamics on the sphere, in O. U. Velasco-Fuentes et al. (eds.). *Nonlinear Processes in Geophysical Fluid Dynamics: A Tribute to the Scientific Work of Pedro Ripa*, Kluwer Academic, pp. 29–51.
8. **Beron-Vera, F. J.**, M. G. Brown, J. Colosi, S. Tomsovic, A. L. Virovlyansky, M. A. Wolfson and G. M. Zaslavsky (2003). Ray dynamics in a long-range acoustic propagation experiment. *J. Acoust. Soc. Am.* 114, 1226–1242.
7. **Beron-Vera, F. J.** and M. G. Brown (2003). Ray stability in weakly range-dependent sound channels. *J. Acoust. Soc. Am.* 114, 123–130.
6. Olascoaga, M. J., **F. J. Beron-Vera** and J. Sheinbaum (2003). Deep ocean influence on upper ocean baroclinic instability saturation, in O. U. Velasco-Fuentes et al. (eds.), *Nonlinear Processes in Geophysical Fluid Dynamics: A Tribute to the Scientific Work of Pedro Ripa*, Kluwer Academic, pp. 15–28.
5. **Beron-Vera, F. J.** and M. J. Olascoaga (2003). Spectral, formal, and nonlinear stability in a layered quasigeostrophic model with application to the Atlantic North Equatorial Current, in P. Malanotte-Rizzoli and G. J. Goni (eds.), *Interhemispheric Water Exchange in the Atlantic Ocean*, Elsevier Oceanography Series 68, Elsevier Science, pp. 313–334.
4. **Beron-Vera, F. J.** and P. Ripa (2002). Seasonal salinity balance in the Gulf of California. *J. Geophys. Res.* 107, 15-1–15-15, doi:10.1029/2000JC000769.
3. **Beron-Vera, F. J.** and P. Ripa (2000). Three-dimensional aspects of the seasonal heat balance in the Gulf of California. *J. Geophys. Res.* 105, 11441–11457.
2. **Beron-Vera, F. J.**, J. Ochoa and P. Ripa (1999). A note on boundary conditions for salt and freshwater balances. *Ocean Modell.* 1, 111–118.
1. **Beron-Vera, F. J.** and P. Ripa (1997). Free boundary effects on baroclinic instability. *J. Fluid Mech.* 352, 245–264.
19. Refereed articles submitted/preprints:
 3. Miron, P., **F. J. Beron-Vera**, M. J. Olascoaga, J. Sheinbaum, P. Pérez-Brunius and G. Froyland (2017). A dynamical geography of the Gulf of Mexico. *Sci. Rep.*, preprint.

2. Olascoaga, M. J., **F. J. Beron-Vera**, Y. Wang, J. Triñanes and P. Pérez-Brunius (2017). Independent observational evidence of a coherent Lagrangian eddy detected from satellite altimetry. Preprint.
1. Duran, R., **F. J. Beron-Vera** and M. J. Olascoaga (2017). Quasi-steady Lagrangian transport patterns in the Gulf of Mexico. *Geophys. Res. Lett.*, preprint.
20. Non-refereed articles:
 5. Özgökmen, T. M., **F. J. Beron-Vera**, et al. (2014). Research Overview of the Consortium for Advanced Research on Transport of Hydrocarbon in the Environment (CARTHE). *International Oil Spill Conference Proceedings* 1, 544–560.
 4. **Beron-Vera, F. J.** (2011). The role of zonal jets as transport barriers in the Earth’s stratosphere. *J. Phys.: Conf. Ser.* 318, 072002.
 3. **Beron-Vera, F. J.**, M. J. Olascoaga and J. Zavala-Garay (2004). Linear waves and baroclinic instability in a inhomogeneous-density layered primitive-equation ocean model, *ICTAM04 Abstract Book and CD-ROM Proceedings*, ISBN 83-89687-01-1, IPPT PAN, Warsaw (e-Print arXiv:physics/0401078).
 2. **Beron-Vera, F. J.** (2004). A didactic approach to linear waves in the ocean (e-Print arXiv:physics/0401035).
 1. **Beron-Vera, F. J.** (2003). Multilayer primitive-equation ocean model with variable vertical shear and stratification within each layer (e-Print arXiv:physics/0312083).

PROFESSIONAL

21. Funded Research Performed:
 12. SEP/16–AUG/17, NOAA/CIMAS, *Global assessment of looping drifter motion*. **F. J. Beron-Vera** (PI) and M. J. Olascoaga (co-PI). \$75,000. Salary support: 2 months/year. **Current.**
 11. SEP/15–AUG/16, NOAA/CIMAS, *Global assessment of looping drifter trajectories*. **F. J. Beron-Vera** (PI) and M. J. Olascoaga (co-PI). \$75,000. Salary support: 2 months/year.
 10. AUG/15–DEC/20, SENER–CONACyT (Mexico), *Uncovering the Lagrangian skeleton of oil spill evolution*. M. J. Olascoaga (PI) and F. J. Beron-Vera (co-PI). \$396,159. Salary support: 2 months/year. **Current.**
 9. JAN/15–DEC/17, GRI2014, *Consortium for Advanced Research on the Transport of Hydrocarbons in the Environment II (CARTHE II)*. T. Ozgokmen (PI); **F. J. Beron-Vera** et al. (Co-PIs). \$674,696. Salary support: 6 months/year. **Current.**
 9. SEP/14–AUG/17, NOAA/CIMAS, *Construction of an Agulhas leakage indicator*. **F. J. Beron-Vera** (PI). \$31,943. Salary support: 1 months/year. **Current.**
 8. SEP/14–AUG/17, NASA, *Investigating the Processes Contributing to the Salinity Differences between Aquarius and in situ Measurements*. S. Dong (PI), and D. L. Volkov and **F. J. Beron-Vera** (co-PIs). \$551,747. Salary support: 2 months/year. **Current.**
 7. JUL/14–SEP/14, NOAA/CIMAS, *Assessing inertial effects on surface and subsurface drifting buoy motion*. **F. J. Beron-Vera** (PI) and M. J. Olascoaga (co-PI). \$65,632.

6. OCT/11–SEP/14, GRI2011-I-083, *Consortium for Advanced Research on the Transport of Hydrocarbons in the Environment (CARTHE)*. T. Ozgokmen (PI); **F. J. Beron-Vera** et al. (Co-PIs). \$374,771.
 5. SEP/10–AUG/11, NSF, CMMI1057412, *Workshop: Coherent Structures in Dynamical Systems; Lorentz Center, Leiden, The Netherlands; 16–20 May 2011*. **F. J. Beron-Vera** (PI) and M. J. Olascoaga (Co-PI). \$36,490.
 4. JAN/10–DEC/12, NASA, NNX10AE99G, *Objective identification and tracking of meso- and submesoscale eddies and filaments, and their role in interbasin, interhemispheric, and regional exchanges*. **F. J. Beron-Vera** (PI); and M. J. Olascoaga and G. J. Goni (Co-PIs). \$528,253.
 3. JAN/09–DEC/09, NASA, NNX09AD82G, *Assessing the impact of high-resolution wide-swath altimetry on the determination of the surface ocean Lagrangian circulation*. **Beron-Vera, F. J.** (PI); M. J. Olascoaga and G. Goni (Co-PIs). \$67,000.
 2. SEP/08–AUG/12, NSF, CMG0825547, *Collaboration in Mathematical Geosciences: Nonintegrable Hamiltonian systems in geophysical fluid dynamics*. **Beron-Vera, F. J.** (PI); M. J. Olascoaga and H. Koçak (Co-PIs); M. G. Brown (Senior Personnel). \$763,266.
 1. SEP/04–AUG/09, NSF, CMG0417425, *Collaboration in Mathematical Geosciences: Nonintegrable Hamiltonian systems in ocean dynamics*. **Beron-Vera, F. J.** (PI); M. J. Olascoaga (Co-PI); M. G. Brown and H. Koçak (Senior Personnel). \$995,981.
22. Editorial Responsibilities:
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|----------------|--|
| Invited Editor | Special Issue of <i>Indagationes Mathematicae</i> on Coherent Structures in Dynamical Systems (2012). |
| Referee | <i>Atmósfera</i> (2009), <i>Chaos</i> (2009, 2013–2015), <i>Communications in Nonlinear Science and Numerical Simulation</i> (2015), <i>Deep-Sea Research</i> (2009), <i>Journal of Applied Meteorology and Climatology</i> (2013), <i>Journal of Atmospheric and Oceanic Technology</i> (2013, 2015–2016), <i>Journal of Fluid Mechanics</i> (2002), <i>Journal of Geophysical Research</i> (2008–2009, 2011–2013), <i>Journal of Physical Oceanography</i> (2013–2015), <i>Geophysical Research Letters</i> (2008, 2010–2011), <i>Ocean Modelling</i> (1999, 2001), <i>Physics of Plasmas</i> (2014), <i>Lagrangian Analysis and Prediction of Coastal and Ocean Dynamics</i> (2004), <i>Nonlinear Processes in Geophysics</i> (2009–2010), <i>Polar Research</i> (2016), <i>Tellus</i> (2011) |
| Reviewer | NSF - Antarctic Oceans and Atmospheric Sciences Program (2008), NSF - Climate and Large Scale Dynamics Program (2008), NSF - Collaborations in Mathematical Geosciences (2007), NSF - Division of Ocean Sciences (2003, 2005–2006, 2008–2015). |
| Panelist | NASA - Physical Oceanography Review Panel (2010). |
| Advisor | <i>Bentham Open Access Journal Series</i> (2008–2010). |

23. Professional and Honorary Organizations:

3. American Geophysical Union (member since 1996).

2. American Meteorological Society (member 2008-2012).
 1. European Mechanics Society (member 2011-2012).
24. Honors and Awards:
3. Grand Combin Summer School Fellowship, Italy, 1999.
 2. SNI Graduate Research Fellowship, Mexico, 1997-2000.
 1. SRE Graduate Research Fellowship, Mexico, 1994-1996.
25. Post-Doctoral Fellowships: RSMAS, U. Miami, 2001-2004. (Advisor: M. Brown.)
26. Other Professional Activities:
- 26.1 Extended Research/Teaching Leaves:
2. Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Buenos Aires, Argentina, 5-16 December 2016. Host: M. Saraceno.
 1. Instituto Tecnológico de Aeronáutica (ITA), Sao Jose dos Campos, Brazil, 5-29 August 2015. Hosts: E. Rempel and A. Chian.
- 26.2 Workshop and Meeting Session Organization:
4. Special session *Coherent structures in flow data*. 8th Chaotic Modeling and Simulation International Conference (CHAOS2015), Paris, France, May 2015.
 3. Minitutorial Series on *Geometric Detection of Lagrangian Coherent Structures*. 13th SIAM Conference on Applications of Dynamical Systems, Utah, May 2013.
 2. Workshop *Coherent Structures in Dynamical Systems*. Lorentz Center, Leiden, The Netherlands, May 2011 (with M. J. Olascoaga, T. Peacock and H. W. Broer).
 1. Session *Variability of the South Atlantic Ocean*. Joint Assembly Meeting, Foz do Iguaçu, Brazil, August 2010 (with G. J. Goni).
- 26.3 Plenary Talks:
1. Geodesic theory of Lagrangian Coherent Structures. 19th Meeting of the Division of Fluid Mechanics, Mexican Physical Society, Jiutepec, Morelos, Mexico, November, 2013.
- 26.4 Invited Lectures and Tutorials:
15. Relative dispersion in the Gulf of Mexico. Instituto Nacional de Pesquisas Espaciales (ITA), Sao Jose dos Campos, Brazil, August 2015.
 14. Transport of buoyant matter around coherent eddies in the ocean. Instituto Nacional de Pesquisas Espaciales (INPE), Sao Jose dos Campos, Brazil, August 2015.
 13. Inertial transport near coherent Lagrangian eddies in the ocean. Workshop *Turbulent Transport and Mixing*, UCLA Institute for Pure and Applied Mathematics, Los Angeles, October 2014.
 12. Geodesic analysis of oceanic flows. BIRS Workshop *Uncovering Transport Barriers in Geophysical Flows*, Banff, Alberta, Canada, September, 2013.
 11. Tutorial on geodesic analysis of atmospheric and oceanic flows. 13th SIAM Conference on Applications of Dynamical Systems, Utah, May 2013.

10. Elliptic LCS in the ocean: Geodesic detection of mesoscale eddies. GFD Program at WHOI, Woods Hole, July, 2012.
9. Geodesic transport barriers in ocean flows. Workshop “*Meeting Euler Lagrangian*,” Wolfgang Pauli Institute (WPI), Vienna, May 2012.
8. Toros en la atmósfera, en el cosmos y por qué no también en el agua (Tori in the Earth’s atmosphere, the Jovian atmosphere, and the surface ocean) CICESE, Ensenada, Baja Cfa., Mexico, February 2010.
7. Strong KAM stability in planetary atmospheres. College of Marine and Earth Studies, University of Delaware, Newark, DE, April 2009.
6. Zonal jets as transport barriers in planetary atmospheres: An application of KAM theory for Hamiltonians with degeneracy. Georgia Tech/CDSNS, Atlanta, GA, August 2008.
5. Zonal jets as transport barriers in geophysical flows. Department of Physics and Physical Oceanography, U. North Carolina at Wilmington, NC, April 2008.
4. Nonintegrable Hamiltonian dynamical systems: An application to transport and mixing in planetary atmospheres. Dept. of Physics, U. Louisville, Louisville, KY, USA, June 2007.
3. Zonal jets as transport barriers in planetary atmospheres. Dept. of Physics, U. Toronto, Toronto, M5S, Canada, June 2007.
2. Ray and travel time stability in weakly range-dependent sound channels. WHOI/AOP&E, Woods Hole, MA, USA, May 2003.
1. Patchiness and particle trajectory stability in gyre flows. WHOI/PO, Woods Hole, MA, USA, May 2003.

26.5 Invited Meeting Presentations:

17. **Beron-Vera, F. J.** (2016). Coherent Lagrangian vortices. GTP Workshop Turbulence and Waves in Flows Dominated by Rotation. Lessons from Geophysics and perspectives in Space Physics and Astrophysics, NCAR, Boulder, CO, May.
16. **Beron-Vera, F. J.** (2016). Nonlocal dispersion in the Gulf of Mexico. AmeriMech Symposium on Fluid Transport and Nonlinear Dynamics. Woods Hole, MA, May 2016.
15. **Beron-Vera, F. J.** (2014). Applications of geodesic LCS theory. 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, July.
14. **Beron-Vera, F. J.** (2013). Generalized KAM tori. 13th SIAM Conference on Applications of Dynamical Systems, Utah, May.
13. **Beron-Vera, F. J.** (2012). Uncovering the skeletons of the atmospheric and oceanic Lagrangian circulations. 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, July.
12. **Beron-Vera, F. J.** (2012). Zonal jets as transport barriers in the Earths stratosphere. 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida, July.

11. Koak, H., **F. J. Beron-Vera**, M. J. Olascoaga and M. Brown (2011). Elliptic Lagrangian Coherent Structures in geophysical fluid flows. Workshop *Coherent Structures in Dynamical Systems*, Lorentz Center, Leiden, The Netherlands, May.
10. **Beron-Vera, F. J.** (2011). Lagrangian Coherent Structures in the atmosphere. Congress of the Latin American Association of Space Geophysics (COLAGE), Punta Leona, Costa Rica, April.
9. **Beron-Vera, F. J.**, M. J. Olascoaga, M. G. Brown, H. Kocak and I. I. Rypina (2009). Invariant-tori-like Lagrangian coherent structures: An application to geophysical flows. Workshop *New Direction on Dynamical Systems*, Lorentz Center, Leiden, The Netherlands, December.
8. Brown, M. G., **F. J. Beron-Vera**, I. A. Udovydchenkov and I. I. Rypina (2009). Coherence in long-range deep ocean propagation. *J. Acoust. Soc. Am.* 125(4): 2491. 157th Meeting of the Acoustical Society of America, Portland, OR, USA, May.
7. Olascoaga, M. J., **F. J. Beron-Vera**, and L. Brand (2009). An Application of Lagrangian Coherent Structures to Harmful Algal Blooms, 2009 European Geosciences Union, Vienna, Austria, April.
6. Olascoaga, M. J. and **F. J. Beron-Vera** (2008). On the nature of the surface ocean Lagrangian dynamics in the West Florida Shelf, 2008 Joint Assembly, Ft. Lauderdale, Florida, USA, May.
5. **Beron-Vera, F. J.** (2008). Zonal jets as transport barriers in planetary atmospheres: An application of KAM theory for Hamiltonians with degeneracy. Workshop *KAM Theory and its Applications*, Lorentz Center, Leiden, The Netherlands, December.
4. **Beron-Vera, F. J.**, M. G. Brown and M. J. Olascoaga (2005). Sistemas hamiltonianos no integrables en física oceánica (Nonintegrable Hamiltonian systems in ocean physics), XXVII Congreso Nacional de la Sociedad Matemática Mexicana (27th National Congress of the Mexican Mathematical Society), Ensenada, Baja Cfa., Mexico, October.
3. Brown, M. G., **Beron-Vera, F. J.**, I. Rypina and I. A. Udovydchenkov (2004). Alpha, beta, and wave-field statistics. *J. Acoust. Soc. Am.* 116, 2609, 148th Meeting of the Acoustical Society of America, San Diego, CA, USA, November.
2. **Beron-Vera, F. J.**, M. J. Olascoaga and J. Zavala-Garay (2004). Linear waves and baroclinic instability in a inhomogeneous-density layered primitive-equation ocean model. 21st International Congress of Theoretical and Applied Mechanics (ICTAM), Warsaw, Poland, August.
1. Olascoaga, M. J. and **F. J. Beron-Vera** (2002). Baroclinic instability in a three-layer quasigeostrophic model with application to the Atlantic North Equatorial Current, Pedro Ripa Memorial Colloquium on “Nonlinear Processes in Geophysical Fluid Dynamics,” Ensenada, BC, Mexico, October. (Presented by J. Sheinbaum.)

26.6 Contributed Meeting Presentations:

59. **Beron-Vera, F. J.** (2016). Conectividad en el Golfo de Mexico. Reunión Anual de la Unión Geofísica Mexicana, Puerto Vallarta, Jalisco, Mexico, Noviembre.
58. **Beron-Vera, F. J.** and J. H. LaCasce (2016). Nonlocal dispersion in the Gulf of Mexico. AGU Ocean Science Meeting, New Orleans, LA, USA, February.

57. **Beron-Vera, F. J.** (2016). Deducing and interpreting kinetic energy spectra from relative dispersion. Gulf of Mexico Conference, Tampa, FL, USA, February.
56. **Beron-Vera, F. J.** (2015). Statistics of simulated and observed pair separations in the Gulf of Mexico. 6th LAPCOD Meeting, Winter Harbor, ME, USA, July.
55. **Beron-Vera, F. J.** (2015). Simulated and observed high- and low-order pair separation statistics. Gulf of Mexico Conference, Houston, TX, USA, February.
54. **Beron-Vera, F. J.** (2015). Practical applications of geodesic theory of Lagrangian Coherent Structures. AGU Ocean Science Meeting, Honolulu, HI, USA, February.
53. **Beron-Vera, F. J.** (2013). A solution to the eddy conundrum. Ocean Surface Topography Science Team Meeting, Boulder, CO, USA, October.
52. **Beron-Vera, F. J.**, Y. Wang, M. J. Olascoaga, J. G. Goni and G. Haller (2012). Geodesic detection of Agulhas rings. AGU Fall Meeting, San Francisco, CA, December.
51. **Beron-Vera, F. J.** and G. Haller (2012). Generalized Lagrangian Coherent Structures. Ocean Surface Topography Science Team Meeting, Lido of Venice, Italy, September.
50. **Beron-Vera, F. J.**, Y. Wang, M. J. Olascoaga, J. G. Goni and G. Haller (2012). Objective identification and tracking of mesoscale oceanic eddies. 20 Years of Progress in Satellite Altimetry, Lido of Venice, Italy, September.
49. **Beron-Vera, F. J.** (2012). Geodesic identification of mesoscale eddies. 5th LAPCOD Meeting, Miami Beach, FL, USA, July.
48. **Beron-Vera, F. J.**, M. J. Olascoaga and G. Haller (2012). Unified theory of transport barriers applied to surface ocean flows. AGU Ocean Science Meeting, Salt Lake City, UT, USA, February.
47. **Beron-Vera, F. J.**, M. J. Olascoaga and G. Haller (2011). Unified theory of Lagrangian Coherent Structures applied to altimetry data. Ocean Surface Topography Science Team Meeting, San Diego, CA, USA, October.
46. **Beron-Vera, F. J.** (2011). The role of zonal jets as transport barriers in the Earth's stratosphere. 13th European Turbulence Conference, Warsaw, Poland, September.
45. Olascoaga, M. J. and **Beron-Vera, F. J.** (2010). Transport barriers in the southern ocean. Ocean Surface Topography Science Team Meeting, Lisbon, Portugal, October.
44. **Beron-Vera, F. J.**, M. J. Olascoaga and G. J. Goni (2010). Surface ocean mixing inferred from multisatellite altimetry measurements. Ocean Surface Topography Science Team Meeting, Lisbon, Portugal, October.
43. Olascoaga, M. J. and **Beron-Vera, F. J.** (2010). Mixing barriers in the South Atlantic. Joint Assembly Meeting, Foz do Iguaçu, Brazil, August.
42. **Beron-Vera, F. J.**, M. J. Olascoaga and G. J. Goni (2010). Agulhas Current rings revealed using dynamical systems tools. Joint Assembly Meeting, Foz do Iguaçu, Brazil, August.
41. **Beron-Vera, F. J.**, M. J. Olascoaga and G. J. Goni (2010). Evolution of passive tracers by low- and high-resolution surface geostrophic currents. *Eos Trans. AGU*, Ocean Sci. Meet. Suppl., Portland, OR, USA, February.
40. Goni, G. J., P. N. DiNezio, **F. J. Beron-Vera**, M. J. Olascoaga (2010). Observed

Variability of the Gulf Stream. *Eos Trans. AGU*, Ocean Sci. Meet. Suppl., Portland, OR, USA, February.

39. M. G. Brown, **Beron-Vera, F. J.**, M. J. Olascoaga and H. Koçak (2010). Evidence of persistent transport barriers in the Southern Ocean. *Eos Trans. AGU*, Ocean Sci. Meet. Suppl., Portland, OR, USA, February.
38. **Beron-Vera, F. J.**, M. J. Olascoaga and G. J. Goni (2009). Assessing the impact of high-resolution wide-swath altimetry on Lagrangian circulation determination. Ocean Surface Topography Science Team Meeting, Seattle, WA, USA, June.
37. **Beron-Vera, F. J.**, M. J. Olascoaga and M. G. Brown (2009). Strong KAM stability in the summer hemisphere subtropical stratosphere, *Geophysical Research Abstracts* 11, EGU2009-9621, EGU General Assembly, Vienna, Austria, April.
36. **Beron-Vera, F. J.**, M. J. Olascoaga and G. J. Goni (2008). Revealing mesoscale eddies using Lagrangian coherent structures. Ocean Surface Topography Science Team Meeting, Nice, France, November.
35. **Beron-Vera, F. J.**, M. G. Brown, M. J. Olascoaga, I. I. Rypina, H. Koçak and I. A. Udovydchenkov (2008). Zonal jets as transport barriers in planetary atmospheres. Workshop on Nonlinear Processes in Oceanic and Atmospheric Flows, Castro Urdiales, Cantabria, Spain, July.
34. Olascoaga, M. J., and **F. J. Beron-Vera** (2008). Stirring and mixing in the West Florida Shelf. Workshop *Nonlinear Processes in Oceanic and Atmospheric Flows*, Castro Urdiales, Cantabria, Spain, July.
33. **Beron-Vera, F. J.**, M. J. Olascoaga and G. J. Goni (2008). Mesoscale vortices as revealed by Lagrangian coherent structures. *Eos Trans. AGU*, Ocean Sci. Meet. Suppl., Orlando, FL, March.
32. Olascoaga, M. J., **F. J. Beron-Vera**, L. E. Brand and H. Koçak (2008). An application of Lagrangian coherent structures to harmful algal blooms. *Eos Trans. AGU*, Ocean Sci. Meet. Suppl., Orlando, FL, USA, March.
31. **Beron-Vera, F. J.**, M. G. Brown, M. J. Olascoaga, I. I. Rypina, H. Koçak and I. A. Udovydchenkov (2007). Zonal jets as transport barriers in planetary atmospheres. *Eos Trans. AGU* 88(52), Fall Meet. Suppl., Abstract P51A-0202, San Francisco, CA, December.
30. Rypina, I. I., M. G. Brown, **F. J. Beron-Vera**, H. Kocak, M. J. Olascoaga and I. A. Udovydchenkov (2007). On the Lagrangian dynamics of atmospheric zonal jets and the impermeability of the stratospheric polar vortex. *Eos Trans. AGU* 88(52), Fall Meet. Suppl., Abstract A51F-11, San Francisco, CA, December.
29. **Beron-Vera, F. J.**, M. J. Olascoaga, I. I. Rypina, M. G. Brown, H. Koçak and I. A. Udovydchenkov (2007). On the Lagrangian dynamics of atmospheric zonal jets and the permeability of the stratospheric polar vortex. AGU Chapman Conference on “The Role of the Stratosphere in Climate and Climate Change,” Santorini, Greece, September.
28. **Beron-Vera, F. J.**, and M. G. Brown, (2006). A partial theory of phase coherence loss in deep ocean propagation, *J. Acoust. Soc. Am.* 120: 3062, 4th Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan, Honolulu, HI, USA, November.

27. **Beron-Vera, F. J.**, and M. G. Brown (2006). Simulations of phase coherence loss. 9th NPAL Analysis Workshop, Borrego Springs, CA, USA, May.
26. Olascoaga, M. J. and **F. J. Beron-Vera** (2006). Fluid particle clustering as a mechanism for plankton patchiness. *Eos Trans. AGU* 87(36), Ocean Sci. Meet. Suppl., Abstract OS36H-06, Honolulu, HI, USA, February.
25. **Beron-Vera, F. J.** and M. J. Olascoaga (2006). Nonlinear evolution of baroclinically unstable near-surface zonal jets. *Eos Trans. AGU* 87(36), Ocean Sci. Meet. Suppl., Abstract OS45L-02, Honolulu, HI, USA, February.
24. **Beron-Vera, F. J.**, and M. G. Brown (2005). Underwater acoustic beam dynamics. 8th NPAL Analysis Workshop, Blaine, WA, USA, May.
23. Udovydchenkov, I. A., Rypina, I., M. G. Brown and **F. J. Beron-Vera** (2004). A very simple transformation of the environment significantly reduces Thomson–Chapman PE phase errors. *J. Acoust. Soc. Am.* 116, 2635, 148th Meeting of the Acoustical Society of America, San Diego, CA, USA, November.
22. Rypina, I., I. A. Udovydchenkov, M. G. Brown and **F. J. Beron-Vera** (2004). A simple transformation of the environment eliminates standard PE phase errors. *J. Acoust. Soc. Am.* 116, 2635, 148th Meeting of the Acoustical Society of America, San Diego, CA, USA, November.
21. **Beron-Vera, F. J.**, M. G. Brown and I. Rypina and I. A. Udovydchenkov (2004). Acoustic beam dynamics in deep ocean environments. *J. Acoust. Soc. Am.* 116, 2609, 148th Meeting of the Acoustical Society of America, San Diego, CA, USA, November.
20. **Beron-Vera, F. J.** and M. G. Brown (2004). Ray and travel time stability in weakly range-dependent sound channels. *J. Acoust. Soc. Am.* 115 2,579, 147th Meeting of the Acoustical Society of America, New York, NY, USA, May.
19. Brown, M. G., **F. J. Beron-Vera**, I. Rypina and I. Udovydchenkov (2004). Wave-field stability in weakly range-dependent sound channels. *J. Acoust. Soc. Am.* 115, 2579, 147th Meeting of the Acoustical Society of America, New York, NY, USA, May.
18. Brown, M. G., **F. J. Beron-Vera**, I. Udovydchenkov and I. Rypina (2004). 30 years of progress? 7th NPAL Analysis Workshop, Borrego Springs, CA, USA, March.
17. **Beron-Vera, F. J.**, M. J. Olascoaga and J. Zavala-Garay (2004). How much can we do with only a few layers? 2004 Layered Ocean Model’s Users Workshop, Miami, FL, USA, February.
16. **Beron-Vera, F. J.** and M. G. Brown (2003). Ray amplitude and travel time statistics are controlled by the background sound speed structure. 6th NPAL Analysis Workshop, Borrego Springs, CA, USA, March.
15. Brown, M. G. and **F. J. Beron-Vera** (2003). The beginnings of a theory of Wave Propagation in Random Inhomogeneous Media. 6th NPAL Analysis Workshop, Borrego Springs, CA, USA, March.
14. **Beron-Vera, F. J.**, M. J. Olascoaga and M. G. Brown (2002). Particle trajectory stability and tracer patchiness in incompressible 2D flows. 2nd LAPCOD Meeting, Key Largo, FL, USA, December.
13. Brown, M. G., **F. J. Beron-Vera**, J. Colosi, S. Tomsovic, A. L. Virovlyansky, M. A. Wolfson and G. M. Zaslavsky (2003). Ray dynamics in underwater ocean acoustics,

- 5th Workshop on Nonlinear Dynamics and Chaos. Courant Institute of Mathematical Sciences, NYU, New York, NY, October.
12. **Beron-Vera, F. J.** and M. G. Brown (2002). The influence of background sound speed structure on ray stability. 5th NPAL Analysis Workshop, La Jolla, CA, USA, August.
 11. **Beron-Vera, F. J.** and M. G. Brown (2001). On the importance of background sound speed structure on ray stability. 4th NPAL Analysis Workshop, Borrego Springs, CA, USA, November.
 10. Brown, M. G. and **F. J. Beron-Vera** (2001). Time spreads, timefront stability and the apex approximation. 4th NPAL Analysis Workshop, Borrego Springs, CA, USA, November.
 9. Ripa, P., M. J. Olascoaga and **F. J. Beron-Vera** (2001). Generalization of the classical baroclinic instability problems. Waves Phenomena III: Waves in Fluids from the Microscopic to the Planetary Scale, Edmonton, Canada, June.
 8. **Beron-Vera, F. J.** and P. Ripa (2000). Modelo hamiltoniano balanceado para aguas someras en coordenadas esféricas (Hamiltonian balance model for shallow water in spherical coordinates). *Bol. Soc. Mex. Fís.* 14(3), 152, XXXIX Congreso Nacional de la Sociedad Mexicana de Física (39th National Congress of the Mexican Physical Society), Puebla, Pue., Mexico, October.
 7. **Beron-Vera, F. J.** and P. Ripa (2000). Seasonal mass balance in the Gulf of California. *Eos Trans. AGU* 80(49), Ocean Sci. Meet. Suppl., Abstract OS33, San Antonio, TX, USA, January.
 6. **Beron-Vera, F. J.** and P. Ripa (1998). Balances de calor y sal en el Golfo de California (Heat and salt balances in the Gulf of California). *GEOS* 18 277, Reunión Anual de la UGM (UGM Annual Meeting), Puerto Vallarta, Jal., Mexico, November.
 5. **Beron-Vera, F. J.**, E. Beier and P. Ripa (1998). Dinámica y termodinámica del Golfo de California en la escala anual (Dynamics and thermodynamics of the Gulf of California at the annual scale). XIX Congreso Nacional de Oceanografía (11th National Congress of Oceanography), Ensenada, Baja Cfa., Mexico, April.
 4. Beier, E., **F. J. Beron-Vera** and P. Ripa (1998). Balance de calor anual en el Golfo de California (Annual heat balance in Gulf of California). XIX Congreso Nacional de Oceanografía (11th National Congress of Oceanography), Ensenada, Baja Cfa., Mexico, April.
 3. **Beron-Vera, F. J.** and P. Ripa (1998). Free boundary effects on baroclinic instability, *Eos Trans. AGU* 79(1), Ocean Sci. Meet. Suppl., Abstract OS57, San Diego, CA, USA, February.
 2. **Beron-Vera, F. J.** and P. Ripa (1997). Una descripción simplificada de la dinámica y termodinámica del Golfo de California (A simplified description of the dynamics and thermodynamics of the Gulf of California). *GEOS* 17 239, Reunión Anual de la UGM (UGM Annual Meeting), Puerto Vallarta, Jal., Mexico, November.
 1. **Beron-Vera, F. J.** and P. Ripa (1996). Efectos de una frontera libre en el problema de inestabilidad baroclínica (Free boundary effects on the problem of baroclinic instability). *Bol. Soc. Mex. Fís.* 10(3), 137, XXXVIII Congreso Nacional de la Sociedad Mexicana de Física (38th National Congress of the Mexican Physical Society), Oaxaca, Oax., Mexico, October.

26.7 Invited Programmatic Meetings and Workshops:

3. US–Argentina Ocean Sciences Meeting, and Ocean Data Management Training. Mar del Plata, Buenos Aires, August 2016.
2. SWOT Science Working Group Meeting, San Diego, CA, USA, October 2011.
1. SWOT Science Working Group Meeting, Arlington, VA, USA, March 2010.

26.8 Field Experience:

2. Undergraduate student on the field work “Dinámica Costera en Cabo San Antonio, Río de la Plata” (“Coastal Dynamics at Cape San Antonio, de-la-Plata River”), September, 1993.
1. Undergraduate student on the oceanographic cruise “Corrientes de Contorno del Atlántico Sudoccidental” (“Boundary Currents of the SW Atlantic Ocean”), BIO El Austral (formerly R/V Atlantis I, now BIO Bernardo Houssay), September, 1992.

TEACHING

27. Teaching Awards Received: N/A

28. Teaching Specialization

9. Intensive (2.5 hrs. theory + 2.5 hrs. lab. daily) graduate course on Lagrangian Coherent Structures in geophysical flows. FCEN/DCAO, U. Buenos Aires, Argentina, 5–16 December 2016.
8. Crash course on Lagrangian Coherent Structures. Instituto Tecnológico de Aeronáutica (ITA), Sao Jose dos Campos, Brazil, August 2015.
7. Introduction to Lagrangian Coherent Structures. Graduate Program in Water Resources, National University of Colombia, Medellin, Colombia, September 2014.
6. CSC688/MTH686: Scientific Computation. U. Miami. Fall 2006.
5. Geophysical Fluid Dynamics. CICESE, Mexico. Spring 2000.
4. Geophysical Fluid Dynamics. CICESE, Mexico. Spring 1998.
3. Geophysical Fluid Dynamics. CICESE, Mexico. Spring, 1997.
2. Classical Mechanics. ITBA, Argentina. Spring 1992.
1. Classical Mechanics. ITBA, Argentina. Spring 1993.

29. Thesis and Dissertation Advising/Post-doctoral Student/Other Student Supervision:

PhD Thesis Chair	Yan Wang (RSMAS, U. Miami; co-advised with M. Olascoaga; now postdoc at UCLA)
PhD Committees	Ilya Udovydchenkov (RSMAS, U. Miami; postdoc at WHOI/AOP&E)
Postdocs	Phillip Miron (Sep 2016–present.)
Visiting PhDs	Florian Huhn (U. Compostela, Spain; postdoc at ETH Zurich; now researcher at German Aerospace Center) Qiong Xia (Institute of Oceanology, Chinese Academy of Sciences, Sep 2016–present.)

30. University Committee and Administrative Responsibilities: N/A

31. Community Activities: N/A