

**IDENTIFYING INFORMATION:**

NAME: Olascoaga, Maria Josefina

POSITION TITLE: Professor

PRIMARY ORGANIZATION AND LOCATION: Rosenstiel School University of Miami,  
Miami, Florida, United States**Professional Preparation:**

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
CICESE, Ensenada, Baja California, Mexico	PHD	02/2001	Physical Oceanography
CICESE, Ensenada, Baja California, Mexico	MS	01/1997	Physical Oceanography
ITBA, Buenos Aires, Buenos Aires, Argentina	Licentiate	03/1994	Oceanography

**Appointments and Positions**

2018 - present Professor, Rosenstiel School University of Miami, Miami, Florida, United States

2022 - present Adjunct Professor, CICESE, Ensenada, Baja California, Mexico

2013 - 2018 Associate Professor, University of Miami, Miami, Florida, United States

2008 - 2013 Assistant Professor, University of Miami, Miami, Florida, United States

2004 - 2008 Assistant Scientist, University of Miami, Miami, Florida, United States

**Products****Products Most Closely Related to the Proposed Project**

- Olascoaga MJ, Beron-Vera FJ, Beyea RT, Bonner G, Castellucci M, Goni GJ, Guigand C, Putman N. Physics-informed laboratory estimation of Sargassum windage. *Phys. Fluids*. 2023; 35.
- Fiorentino LA, Olascoaga MJ, Reniers A. Analysis of water quality and circulation of four recreational Miami beaches through the use of Lagrangian Coherent Structures. *Mar Pollut Bull*. 2014 Jun 15;83(1):181-9. PubMed PMID: [24768263](https://pubmed.ncbi.nlm.nih.gov/24768263/).
- Bonner G, Beron-Vera FJ, Olascoaga MJ. Charting the course of Sargassum: Incorporating nonlinear elastic interactions and life cycles in the Maxey-Riley model. *PNAS Nexus*. 2024 Oct;3(10):pgae451. PubMed Central PMCID: [PMC11492490](https://pubmed.ncbi.nlm.nih.gov/PMC11492490/).
- Reniers A.J.H.M., MacMahan J.H., Beron-Vera F.J., Olascoaga M.J.. Rip-current pulses tied to Lagrangian coherent structures. *Geophysical Research Letters*. 2010; 37(5). DOI: 10.1029/2009GL041443
- Fiorentino L.A., Olascoaga M.J., Reniers A., Feng Z., Beron-Vera F.J., MacMahan J.H.. Using Lagrangian Coherent Structures to understand coastal water quality. *Continental Shelf Research*. 2012; 47:145-149. DOI: 10.1016/j.csr.2012.07.009

*Other Significant Products, Whether or Not Related to the Proposed Project*

1. Beron-Vera FJ, Olascoaga MJ, Putman N, Trinanes J, Goni GJ, Lumpkin R. Dynamical geography and transition paths of Sargassum in the tropical Atlantic. *AIP Advances*. 2022; 12.
2. Putman N.F., Lumpkin R., Olascoaga M.J., Trinanes J., Goni G.J.. Improving transport predictions of pelagic Sargassum. *Journal of Experimental Marine Biology and Ecology*. 2020; 529. DOI: 10.1016/j.jembe.2020.151398
3. Trinanes, J., Hu, C., Putman, N.F., Olascoaga, M.J., Beron-Vera, F.J., Zhang, S., Goni, G.J.. An Integrated Observing Effort for Sargassum Monitoring and Warning in the Caribbean Sea, Tropical Atlantic, and Gulf of Mexico. *Oceanography*. 2021; 34(4):68-69. DOI: 10.5670/oceanog.2021.supplement.02-26
4. Andrade-Cano F, Beron-Vera FJ, Goni GJ, Karrasch D, Olascoaga MJ, Trinanes J. Carriers of Sargassum and mechanism for coastal inundation in the Caribbean Sea. *Physics of Fluids*. 2022; 34.
5. Olascoaga MJ, et al. Observation and quantification of inertial effects on the drift of floating objects at the ocean surface. *Phys. Fluids*. 2020; 32.

**Certification:**

I certify that the information provided is current, accurate, and complete. This includes but is not limited to information related to domestic and foreign appointments and positions.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Olascoaga, Maria Josefina in SciENcv on 2025-07-14 19:49:00