

Enrique Montes

Curriculum Vitae

Ocean Chemistry & Ecosystems Division
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National Oceanic and Atmospheric Administration - NOAA
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Education:

- Ph.D in Oceanography. University of South Florida, College of Marine Science. Advisor: Frank Muller-Karger
- B.S. in Biology. Universidad Central de Venezuela (UCV), Caracas, Venezuela. Advisor: Mario Ortaz.

Appointments:

- 2021-present: **Assistant Scientist** at the U. Miami Cooperative Institute for Marine & Atmospheric Studies (CIMAS) and NOAA Atlantic Oceanographic and Meteorological Laboratory.
- 2015-2021: **Research Associate** at the College of Marine Science, University of South Florida.
- 2012-2015: **Postdoctoral Researcher** at the Institute for Marine Remote Sensing. University of South Florida.
- 2009- 2011: **Research Assistant** for the CARIACO Ocean Time-series Program. University of South Florida.
- 2008-2009: **Research Assistant** at the Marine Biogeochemistry Lab, School of Marine Science and Technology, University of Massachusetts Dartmouth.
- 2006-2008: **Fulbright fellow** at the Marine Science Ph.D. program of USF.
- 1998-2006: Environmental consulting and research assistant at UCV.

Research Interests:

Drivers of marine ecosystems; plankton ecology; satellite biogeography; marine biodiversity; marine carbon, nitrogen and oxygen cycling; water quality; machine learning and computer vision applications for biodiversity science; collaborative research networks; capacity building and marine literacy.

Research Grants:

Past:

Funding source: National Ocean Partnership Program (NOPP), NASA, and NOAA.

Project Title: National Marine Sanctuaries as Sentinel Sites for a Demonstration Marine Biodiversity Observation Network.

Role: Co-Principal Investigator

Award Period: 08/01/2014 – 07/31/2019

Funding source: 2018 University of South Florida Nexus Initiative (UNI) Award

Project Title: Marine Biodiversity Workshop: from the Sea to the Cloud.

Role: Principal Investigator

Award Period: 08/02/2018 – 06/30/2019

Funding source: National Oceanographic Partnership Program (NOPP), National Oceanic and Atmospheric Administration (NOAA) and Office of Naval Research (ONR).

Project Title: Implementing a Marine Biodiversity Observation Network (MBON) in South Florida to Advance Ecosystem-Based Management. South Florida MBON

Role: Co-Principal Investigator

Award Period: 09/06/2019 – 09/05/2022

Current:

Funding source: National Aeronautics and Space Administration (NASA)

Project Title: Laying the foundations of the Pole-to-Pole Marine Biodiversity Observation Network of the Americas.

Role: Principal Investigator

Award Period: 01/02/2018 – 01/01/2022 (Continuing under a No Cost Extension)

Funding source: Southeast Coastal Ocean Observing Regional Association (SECOORA) of the U.S. Integrated Ocean Observing System (IOOS).

Project title: Augmenting Ocean Observing through Artificial Intelligence: Annotation, Data Standards, and Applications.

Role: Co-Investigator

Award Period: 06/01/2021 - 05/31/2026

Funding source: National Aeronautics and Space Administration (NASA).

Project title: Advancing the Science of the Marine Biodiversity Observation Network Pole-to-Pole in the Americas – MBON Pole to Pole.

Role: Principal Investigator

Award Period: 09/01/2021- 08/31/2024

Funding source: National Aeronautics and Space Administration (NASA).

Project title: The Southeast US Marine Biodiversity Observation Network (MBON): Toward Operational Marine Life Data for Conservation and Sustainability.

Role: Co-Principal Investigator

Award Period: 09/01/2022- 08/31/2027

Funding source: National Oceanic and Atmospheric Administration (NOAA).

Project title: Merging eDNA observations with concurrent satellite remote sensing data and plankton imagery to support biodiversity monitoring.

Role: Principal Investigator

Award Period: 10/01/2022- 09/30/2025

Funding source: National Oceanic and Atmospheric Administration (NOAA).

Project title: Characterizing and forecasting coastal ecosystem responses to multiple stressors for management applications in South Florida.

Role: Co-Principal Investigator

Award Period: 09/01/2023- 08/31/2027

Awards, Honors, and Scholarships:

- Fulbright Fellowship, May 2006 – 2008.
- Outstanding Student Paper Award – American Geophysical Union (AGU) Fall Meeting 2007.
- Successful Latino Student Award – USF 2009.
- Aquatic Science Meeting Student Travel Award – ASLO 2011. \$1,000.
- Ocean Carbon and Biogeochemistry (OCB) travel award for the IMBER ClimECO3 Summer School in Ankara, Turkey, July 23 – 28, 2012. \$5,000.
- USF Postdoctoral Research Grant, December 4, 2012. \$1,000.
- IMBER travel award for the IMBIZO III meeting in Goa, India, January 28 – 31, 2013. \$2,500.

- Excellence in Partnership Award (2016), National Ocean Partnership Program (NOPP), May 26, 2017.
- Visiting Scholar Fellowship, Scientific Committee on Oceanic Research (SCOR), 2021.

Workshops and Conferences Invitations:

1. Invited participant to the Ocean Biogeochemistry Time-series Scoping Workshop, Sea change: Charting the course for ecological and biogeochemical ocean time-series research – Honolulu, HI, September 2010.
2. Invited participant to the Global Ocean Acidification Observing Network (GOA-ON) in St Andrews, UK, July 24 – 26, 2013.
3. Invited speaker to the seminar series of Woods Hole Oceanographic Institution (WHOI). Presentation title: Six decades (and counting) of ocean exploration in the Cariaco Basin, Venezuela: insights from surface waters to the sediments in a tropical continental margin. Woods Hole, MA, April 26, 2016.
4. Invited speaker to the 3rd Science for Biodiversity Forum of the Convention on Biological Diversity (CBD) Conference of the Parties 13 (COP13) in Cancun, Mexico, December 1-2, 2016.
5. Invited participant to the National Oceanic and Atmospheric Administration (NOAA) Office of Ocean Exploration and Research (OER) workshop titled “From Seafloor to Surface: Exploration of the Water Column”, Honolulu, HI, March 4-5, 2017.
6. Invited speaker to the Group on Earth Observations (GEO) XIV Plenary for the Side Event titled “Marine Biodiversity Observation Network (MBON) products to support Sustainable Development Goals”, Washington DC., October 24, 2017.
7. Invited participant to the Group on Earth Observations Biodiversity Observation Network (GEO BON) BON Development Working Group workshop, Leipzig, Germany, November 22-24, 2017.
8. Invited participant to the Global Ocean Observing System (GOOS) South American Regional Workshop - Regional projects and national strategies on marine monitoring, INVEMAR, Santa Marta, Colombia, June 12, 2018.
9. Invited participant to the 4th Group on Earth Observations Biodiversity Observation Network (GEO BON) All Hands Meeting, Beijing, China, July 9-12, 2018.
10. Invited speaker at the Second Technical Meeting of the Latin American and Caribbean Initiative for Sustainable Development (ILAC) Caribbean Working Group on Environmental Indicators, UN Environment. Kingston, Jamaica, September 4-7, 2018.
11. Invited participant to the Keck Institute for Space Studies workshop titled “Unlocking a New Era in Biodiversity Science: Linking Integrated Space Based and In-Situ Observations, California Institute of Technology (Caltech), Pasadena, California, October 1-5, 2018.
12. Invited speaker at the “1^a Reunión Académica de Colecciones del Instituto de Ciencias del Mar y Limnología, de la Universidad Nacional Autónoma de México” in Ciudad de México, México, November 8-9, 2018.
13. Invited participant to the Keck Institute for Space Studies workshop titled “Unlocking a New Era in Biodiversity - Part II”, California Institute of Technology (Caltech), Pasadena, California, March 17-22, 2019.
14. Invited instructor on ocean satellite remote sensing at the “Seagrass Monitoring Methods Workshop (Taller Métodos de Estudio de Fanerógamas Marinas)”, Santa Marta, Colombia, May 13-17, 2019.
15. Invited participant to the “Planetary Health Watch Workshop” of Our Planet, Our Health Programme; London, UK, 9-10 July, 2019.
16. Invited participant to the “Essential Biodiversity Variables and Nature Futures Indicators (IPBES) for 2020 and Beyond (EBVs 2020)” workshop, Smithsonian Environmental Research Center, MD, USA, October 15-18, 2019.
17. Invited speaker to the “Gulf of Mexico Coral Reef Report Card” workshop, Harte Research Institute and the Universidad Nacional Autónoma de México, Mérida, Yucatan, Mexico, November 14-15, 2019.

18. Invited speaker to the 2020 AGU Fall Meeting session titled “Use of Earth Observations in Mitigating Major Environmental Challenges in the Americas”, San Francisco, California, December 12, 2019.
19. Invited speaker to the webinar series of the Instituto de Biodiversidad of Ecuador titled "Presente y futuro de la conservación y manejo de recursos y ecosistemas marinos", July 8, 2020.
20. Invited speaker to the Society for Conservation GIS (SCGIS) Virtual Conference Series of the Conservation Remote Sensing Network (CRSNet), July 20, 2020.
21. Invited speaker to the MarineGEO Seminar Series of the Smithsonian Environmental Research Center (SERC) for the presentation titled "When is it enough? Optimizing large-scale biodiversity sampling effort", July 28, 2020.
22. Invited speaker to the Marine Science Seminar of the University of Connecticut for the presentation titled " From microbes to mammals: Merging in situ and spaceborne observations for monitoring life in the sea", November 19, 2020.
23. Invited speaker to the Seminar Series of the Marine Science Center of Northeastern University for the presentation titled " From microbes to mammals: Merging in situ and spaceborne observations for monitoring life in the sea", November 20, 2020.
24. Invited speaker to the Seminar Series of the Escuela Superior Politécnica del Litoral (ESPOL) of Ecuador for the presentation titled "A Marine Biodiversity Observation Network Pole-to-Pole of the Americas in support of conservation and sustainable use of living resources in the sea", November 9, 2021.
25. Invited speaker to the Seminar Series of the Centro de Investigación Científica y de Educación Superior de Ensenada, Baja California, Mexico (CICESE, Unidad La Paz) for the presentation titled " From microbes to mammals: Merging in situ and spaceborne observations for monitoring life in the sea", March 10, 2022.
26. Invited speaker to the All-Atlantic Ocean Research Forum 2022 (Brasilia, Brazil), Scientific Event (Virtual). Presentation title: The Marine Biodiversity Observation Network Pole-to-Pole of the Americas. May 30th – June 2nd.
27. Invited speaker to the Ocean Best Practice Workshop VI: Marine Biodiversity session “Sustaining long-term marine biodiversity observations in under-resourced regions of the world”. Presentation title: The MBON Pole to Pole: Developing a community of practice dedicated to observing marine life for the benefit of society. October 12-18, 2022.
28. Invited speaker to the joint PICES-SCOR symposium titled “Developing better capacity for Early Career Ocean Professionals (ECOPs)” organized by the Korea Institute of Ocean Science and Technology (KIOST), in Busan, Korea. Presentation title: The MBON Pole to Pole: Developing a community of practice dedicated to observing marine life for the benefit of society. October 3rd, 2022.
29. Invited speaker to the workshop titled ‘Trends and patterns in marine biodiversity in the West Pacific’, organized by the Asia Pacific Marine Biodiversity Observation Network (AP MBON) and the China-Norway Marine University Consortium Alliance (Ocean University of China and Nord University), October 31st to November 4th, 2022.
30. Invited speaker to the Plenary Session titled “Sustained observations of global ocean biology” of the Ocean Carbon and Biogeochemistry Workshop (OCB) on June 15th, 2023, at Woods Hole Oceanographic Institution (WHOI). Presentation title: From microbes to vertebrates: A Marine Biodiversity Observation Network for monitoring life in the sea.

Publications:

1. Djurhuus, A., I. Salter, E. Andruszkiewicz Allan, **E. Montes**, F. Mueller-Karger, and R. Kelly (*in prep*). How to make sense of environmental DNA data for multicellular organisms in aquatic environments.
2. Helen, P., S. J. Lim, J. Cosme, K. O'Connell, J. Sandeep, F. Gayanilo, G. R. Cutter Jr., **E. Montes**, C. Nitikitpaiboon, S. Fisher, H. Moustahfid, and L. R. Thompson (*Accepted*). Investigation of Machine Learning Algorithms for Taxonomic Classification of Marine Metagenomes. *Microbiol. Spectr.*

3. Valente, A., S. Sathyendranath, V. Brotas, S. Groom, M. Grant, T. Jackson, A. Chuprin, M. Taberner, R. Airs, D. Antoine, R. Arnone, W. M. Balch, K. Barker, R. Barlow, S. Bélanger, J.-F. Berthon, Ş. Beşiktepe, Y. Borsheim, A. Bracher, V. Brando, R. J. W. Brewin, E. Canuti, F. P. Chavez, A. Cianca, H. Claustre, L. Clementson, R. Crout, A. Ferreira, S. Freeman, R. Frouin, C. García-Soto, S. W. Gibb, R. Goericke, R. Gould, N. Guillocheau, S. B. Hooker, C. Hu, M. Kahru, M. Kampel, H. Klein, S. Kratzer, R. Kudela, J. Ledesma, S. Lohrenz, H. Loisel, A. Mannino, V. Martinez-Vicente, P. Matrai, D. McKee, B. G. Mitchell, T. Moisan, **E. Montes**, F. Muller-Karger, A. Neeley, M. Novak, L. O'Dowd, M. Ondrusek, T. Platt, A. J. Poulton, M. Repecaud, R. Röttgers, T. Schroeder, T. Smyth, D. Smythe-Wright, H. M. Sosik, C. Thomas, R. Thomas, G. Tilstone, A. Tracana, M. Twardowski, V. Vellucci, K. Voss, J. Werdell, M. Wernand, B. Wojtasiewicz, S. Wright, and G. Zibordi (2022). A compilation of global bio-optical in situ data for ocean colour satellite applications – version three, *Earth Syst. Sci. Data*, 14, 5737–5770, <https://doi.org/10.5194/essd-14-5737-2022>, 2022.
4. Lizcano-Sandoval, L., C. Anastasiou, **E. Montes**, G. Raulerson, E. Sherwood, F. E. Muller-Karger (2022). Seagrass distribution and changes (1990–2021) in coastal waters off West-Central Florida, USA. *Estuar. Coast. Shelf S.*, 279, 108134, doi: 10.1016/j.ecss.2022.108134.
5. Muller-Karger, F. E., G. Canonico, C. Baron Aguilar, N. J. Bax, W. Appeltans, K. Yarincik, V. Leopardas, I. Sousa-Pinto, M. Nakaoka, J. Giddens, H. Heslop, **E. Montes**, E. Duffy (2022). Marine Life 2030: Building global knowledge of marine life for local action in the Ocean Decade. *ICES J. Mar. Sci.*, 2, 355-357, <https://doi.org/10.1093/icesjms/fsac084>.
6. Grigoratou, M., **E. Montes**, A. J. Richardson, J. D. Everett, E. Acevedo-Trejos, C. Anderson, B. Chen, T. Guy-Haim, J. Hinnert, C. Lindemann, T. M. Garcia, K. O. Möller, F. M. Monteiro, A. R. Neeley, T. D. O'Brien, A. P. Palacz, A. J. Poulton, A. E. Friederike Prowe, A. E. Rodríguez-Santiago, C. S. Rousseaux, J. Runge, J. F. Saad, I. Santi, R. Stern, A. Soccodato, S. Vage, M. Vogt, S. Zervoudaki, and F. Muller-Karger (2022). The Marine Biodiversity Observation Network (MBON) plankton workshops: “Plankton ecosystem function, biodiversity, and forecasting - research requirements and applications. *Limnol. Oceanog. Bull.*, doi: <https://doi.org/10.1002/lob.10479>.
7. Pelletier, D., J. C. Azofeifa-Solano, **E. Montes**, F. E. Muller-Karger (2022). Editorial: Marine Biodiversity Observation Network (MBON). *Front. Mar. Sci.* 8:832328. doi: 10.3389/fmars.2021.832328.
8. **Montes, E.**, J. S. Lefcheck, E. Guerra Castro, E. Klein, A. C. A. Mazzuco, G. Bigatti, C. A. M. M. Cordeiro, N. Simoes, E. C. Macaya, N. Moity, E. Londoño-Cruz, B. Helmuth, F. Choi, E. H. Soto, P. Miloslavich, F. E. Muller-Karger (2021). Optimizing large-scale biodiversity sampling effort: towards an unbalanced survey design. *Oceanog. Mag.*, 34(2), <https://doi.org/10.5670/oceanog.2021.216>.
9. Kavanaugh, M. T., T. Bell, D. Catlett, M. Cimino, S. C. Doney, W. Klajbor, M. Messie, **E. Montes**, F. E. Muller Karger, D. Otis, J. A. Santora, I. D. Schroeder, J. Trinanes and D. A. Siegel (2021). Satellite remote sensing and the Marine Biodiversity Observation Network (MBON): Current science and future steps. *Oceanog. Mag.*, 34(2), <https://doi.org/10.5670/oceanog.2021.215>.
10. Satterthwaite, E. V., N. J. Bax, P. Miloslavich, L. Ratnarajah, G. Canonico, D. Dunn, S. E. Simmons, R. J. Carini, K. Evans, V. Allain, W. Appeltans, S. Batten, L. Benedetti-Cecchi, A. T. F. Bernard, S. Bristol, A. Benson, P. L. Buttigieg, L. Cavaleri Gerhardinger, S. Chiba, T. E. Davies, J. E. Duffy, A. Giron-Nava, A. J. Hsu, A. C. Kraberg, R. M. Kudela, D. Lear, **E. Montes** et al. (2021). Establishing the foundation for the global observing system for marine life. *Front. Mar. Sci.* 8:737416. doi: 10.3389/fmars.2021.737416.
11. Medina, M., C. Estes, B. Best, C.D. Stallings, **E. Montes**, L.G. McEachron, and F.E. Muller-Karger (2021). Reef-fish abundance, biomass, and biodiversity inside and outside no-take marine zones in the Florida Keys National Marine Sanctuary: 1999–2018. *Oceanog. Mag.*, 34(2), <https://doi.org/10.5670/oceanog.2021.214>.
12. Bravo, G.*, N. Moity, E. Londoño-Cruz, F. E. Muller-Karger, G. Bigatti, F. Choi, L. Parmalee, B. Helmuth, **E. Montes*** (2021). Robots versus humans: automated annotation accurately quantifies

- Essential Ocean Variables of rocky intertidal functional groups and habitat state. *Front. Mar. Sci.* 8:691313. doi: 10.3389/fmars.2021.691313.
13. Benson, A., T. Murray, G. Canonico, **E. Montes**, F. Muller-Karger, M.T. Kavanaugh, J. Trinanes, and L.M. deWitt (2021). Data management and interactive visualizations for the evolving Marine Biodiversity Observation Network (MBON). *Oceanog. Mag.*, 34(2), <https://doi.org/10.5670/oceanog.2021.220>
 14. Vaz, S. A., O. Selomane, L. Jones, A. S. Gosal, G. Ziv, F. Muller-Karger, **E. Montes**, and M. Vallejos (2021). The journey to monitoring ecosystem services in GEO BON: Are we there yet?. *Ecosyst. Serv.*, 50, 101313, <https://doi.org/10.1016/j.ecoser.2021.101313>.
 15. Estes, M., C. Anderson, W. Appeltans, N. Bax, N. Bednaršek, G. Canonico, S. Djavidnia, E. Escobar, P. Fietzek, M. Gregoire, E. Hazen, M. Kavanaugh, F. Lejzerowicz, P. Miloslavich, K. O. Möller, J. Monk, **E. Montes** et al. (2021). Enhanced Monitoring of Life in the Sea Is a Critical Component of Conservation Management and Sustainable Economic Growth. *Mar. Policy*, 132, 104699. <https://doi.org/10.1016/j.marpol.2021.104699>.
 16. Muller-Karger, F., M. Kavanaugh, K. Iken, **E. Montes**, F. Chavez, H. Ruhl, R. Miller, et al. (2021). Marine Life 2030: Forecasting Changes to Ocean Biodiversity to Inform Decision-Making: A Critical Role for the Marine Biodiversity Observation Network (MBON). *Mar. Tech. Soc. J.* 55 (3): 84–85. <https://doi.org/10.4031/MTSJ.55.3.28>.
 17. Suter, E. A., M. G. Pachiadaki, **E. Montes**, V. P. Edgcomb, M. I. Scranton, C. D. Taylor, G. T. Taylor (2020). Diverse nitrogen cycling pathways across a marine oxygen gradient indicate nitrogen loss coupled to chemoautotrophic activity. *Environ. Microbiol.*, doi:10.1111/1462-2920.15187.
 18. **Montes, E.**, A. Djurhuus, C. Kelble, D. Otis, F. E. Muller-Karger, and M. T. Kavanaugh (2020). Dynamic satellite seascapes as a biogeographic framework for understanding phytoplankton assemblages in the Florida Keys National Marine Sanctuary, USA. *Front. Mar. Sci. - MBON Special Issue*, <https://doi.org/10.3389/fmars.2020.00575>.
 19. Djurhuus, A., C. J. Closek, R. P. Kelly, K. J. Pitz, R. P. Michisaki, H. A. Starks, K. R. Walz, E. A. Andruszkiewicz, E. Olesin, K. Hubbard, **E. Montes**, D. Otis, F. E. Muller-Karger, F. P. Chavez, A. B. Boehm, M. Breitbart (2020). Environmental DNA reveals seasonal shifts and potential interactions in a marine community. *Nat. Commun.* 11, 254, <https://doi.org/10.1038/s41467-019-14105-1>.
 20. Lorenzoni, L., C. Benitez-Nelson, **E. Montes**, F. Muller-Karger, I. Astor, R. Varela (2019). From land to the ocean: the interplay between allochthonous and autochthonous contribution to particles in nepheloid layers of the Cariaco Basin, Venezuela. *J. Geophys. Res. - Biogeosciences*, 124: <https://doi.org/10.1029/2019JG005288>
 21. Duffy, E. J., L. Benedetti-Cecchi, J. A. Trinanes, F. E. Muller-Karger, R. Ambo-Rappe, C. Boström, A. H. Buschmann, J. Byrnes, R. G. Coles, J. Creed, L. Cullen-Unsworth, G. Diaz-Pulido, C. M. Duarte, G. J. Edgar, M. Dino Fortes, G. J. Goni, C. Hu, X. Huang, C. L. Hurd, B. Konar, D. Krause-Jensen, K. Krumhansl, P. I. Macreadie, H. Marsh, L. J. McKenzie, N. Mieszkowska, P. Miloslavich, **E. Montes**, M. Nakaoka, K. M. Norderhaug, L. M. Nordlund, R. J. Orth, A. Prathep, N. F. Putman, J. Samper-Villarreal, E. A. Serrao, F. Short, I. Sousa Pinto, P. D. Steinberg, R. Stuart-Smith, R. K.F. Unsworth, M. van Keulen, B. I. Van Tussenbroek, M. Wang, M. Waycott, L. V. Weatherdon, T. Wernberg and S. M. Yaakub (2019). Toward a coordinated global observing system for marine macrophytes. *Front. Mar. Sci.* 6:317. doi: 10.3389/fmars.2019.00317.
 22. Canonico, G., P. L. Buttigieg, **E. Montes**, C. A. Stepien, D. Wright, A. Benson, B. Helmuth, M. J. Costello, F. E. Muller-Karger, I. Sousa Pinto, H. Saeedi, J. A. Newton, W. Appeltans, N. Bednaršek, L. Bodrossy, B. D. Best, A. Brandt, K. Goodwin, K. Iken, A. Marques, P. Miloslavich, M. Ostrowski, W. Turner, E. P. Achterberg, T. Barry, O. Defeo, G. Bigatti, L. –A. Henry, B. Ramiro Sanchez, P. Durán Muñoz, M. Cuadrado, T. Morato, M. Roberts, A. G. Garcia-Alegre, and B. J. Murton (2019). Global Observational Needs and Resources for Marine Biodiversity. *Front. Mar. Sci.* 6:367. doi: 10.3389/fmars.2019.00367.

23. Muller-Karger, F. E., Y. Astor, C. Benitez-Nelson, K. Buck, K. Fanning, L. Lorenzoni, **E. Montes**, M. Scranton, D. Rueda-Roa, G. Taylor, R. Thunell, E. Tappa, and R. Varela (2018). Scientific Legacy of the CARIACO Oceanographic Time-Series Program. *Ann. Rev. Mar. Sci.*, 11, 2019, doi.org/10.1146/annurev-marine-010318-095150.
24. Muller-Karger, F. E., P. Miloslavich, N. Bax, S. Simmons, M. J. Costello, I. Sousa Pinto, G. Canonico, W. Turner, M. Gill, **E. Montes**, B. Best, J. Pearlman, P. Halpin, D. Dunn, A. Benson, C. S. Martin, L. V. Weatherdon, W. Appeltans, P. Provoost, E. Klein, C. Kelble, R. J. Miller, F. Chavez, K. Iken, S. Chiba, D. Obura, L. M. Navarro, H. M. Pereira, V. Alain, S. Batten, L. Benedett-Checchi, J. E. Duffy, R. Kudela, L.-M. Rebelo, Y. Shin, G. Geller (2018). Advancing Marine Biological Observations linking the Essential Ocean Variables (EOVs) and Essential Biodiversity Variables (EBVs) Frameworks. *Front. Mar. Sci.*, doi: 10.3389/fmars.2018.00211.
25. Montero, E., A. M. Francisco, **E. Montes**, and A. Herrera (2018). Salinity induction of crassulacean acid metabolism and salt tolerance in plants of *Talinum triangulare*. *Ann. Bot.*, doi: 10.1093/aob/mcy030
26. Djurhuus, A., K. Pitz, N. A. Sawaya, J. Rojas-Márquez, B. Michaud, **E. Montes**, F. E. Muller-Karger¹, and M. Breitbart (2018). Evaluation of marine zooplankton community structure through DNA metabarcoding. *Limnol. Oceanogr.* doi:10.1002/lom3.10237
27. Lorenzoni, L., D. Rueda, **E. Montes**, R. Varela, J. Rojas, L. Guzman, Y. Astor, and F. Muller-Karger (2017). Spatial variability in factors that control the sinking flux of organic and inorganic particles in the Cariaco Basin: a vision from space. *Int. J. Remote Sens.*, 38, 6206-6218, doi: 10.1080/01431161.2017.1350305.
28. **Montes, E.**, F. E. Muller-Karger, A. Cianca, M. W. Lomas, L. Lorenzoni, and S. Habtes (2016). Decadal variability in the oxygen inventory of North Atlantic Subtropical Underwater captured by sustained, long-term oceanographic time-series observations. *Global Biogeochem. Cycles*, 30, 460-478, doi: 10.1002/2015GB005183
29. Lorenzoni, L., G. Toro-Farmer, R. Varela, L. Guzman, J. Rojas, **E. Montes**, and F. Muller-Karger (2015). Characterization of phytoplankton variability in the Cariaco Basin using spectral absorption, taxonomic and pigment data. *Remote Sens. Environ.*, 167, 259-268, doi: https://doi.org/10.1016/j.rse.2015.05.002.
30. Levin, L. A., K. K. Liu, K. C. Emeis, D. L. Breitburg, J. Cloern, C. Deutsch, M. Giani, A. Goffart, E. Hoffman, Z. Lachkar, K. Limburg, S. M. Liu, **E. Montes**, W. Naqvi, O. Ragueneau, C. Rabouille, S. K. Sarkar, D. P. Swaney, P. Wassman, and K. F. Wishner (2015). Comparative biogeochemistry-ecosystem-human interactions on dynamic continental margins. *J. Marine Syst.*, 141, 3 – 17, doi: https://doi.org/10.1016/j.jmarsys.2014.04.016.
31. Herrera, A., C. N. Ballestrini, and **E. Montes** (2015). What is the potential for dark CO₂ fixation in the facultative crassulacean acid metabolism species *Talinum triangulare*? *J. Plant Physiol.*, 174, 55 – 61, doi:10.1016/j.jplph.2014.10.006.
32. Muller-Karger, F. E., M. T. Kavanaugh, **E. Montes**, W. M. Balch, M. Breitbart, F. P. Chavez, S. C. Doney, E. M. Johns, R. M. Letelier, M. W. Lomas, H. M. Sosik, and A. E. White (2014). A framework for a marine biodiversity observing network within changing continental shelf seascapes. *Oceanog. Mag.*, 27, 18 – 23, doi: https://doi.org/10.5670/oceanog.2014.56.
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35. **Montes, E.**, M. Altabet, F.E. Muller-Karger, R. C. Thunell, C. Benitez-Nelson, L. Lorenzoni and Y. Astor (2013). Biogenic nitrogen gas production at the oxic-anoxic interface in the Cariaco Basin, Venezuela. *Biogeosciences*, 10, 267 – 279, doi: <https://doi.org/10.5194/bg-10-267-2013>.
36. **Montes, E.**, R. Thunell, F.E. Muller-Karger, E. Tappa, L. Lorenzoni, L. Troccoli, Y. Astor, and R. Varela (2013). Sources of $\delta^{15}\text{N}$ variability in sinking particulate nitrogen in the Cariaco Basin, Venezuela. *Deep Sea-Res. II*, 93, 96 – 107, doi: <https://doi.org/10.1016/j.dsr2.2013.01.006>.
37. **Montes, E.**, F.E. Muller-Karger, R. Thunell, D. Hollander, Y. Astor, R. Varela, I. Soto and L. Lorenzoni (2012). Vertical fluxes of particulate biogenic material through the euphotic and twilight zones in the Cariaco Basin, Venezuela. *Deep-Sea Res. I*, 67, 73 – 84, doi: <https://doi.org/10.1016/j.dsr.2012.05.005>.
38. González, E., M. Ortaz, C. Peñaherrera, **E. Montes**, M. L. Matos, and J. Mendoza (2003), Phytoplankton of five reservoirs in Venezuela with different trophic conditions. *Limnetica*, 23, 15-35.

Technical Reports, Workshop Proceedings, Non Peer-Review Publications:

1. **Montes, E.**, G. Bravo, and G. Bigatti (2023) Sampling protocol for monitoring marine biodiversity on rocky shores. Marine Biodiversity Observation Network Pole to Pole of the Americas. *UNESCO-IOC Ocean Best Practices*, 10pp. DOI: <http://dx.doi.org/10.25607/OBP-1904>.
2. **Montes, E.**, G. Bravo, and G. Bigatti (2023) Protocolo para monitoreo de la biodiversidad marine en costas rocosas. Marine Biodiversity Observation Network Pole to Pole of the Americas. *UNESCO-IOC Ocean Best Practices*, 10pp. DOI: <http://dx.doi.org/10.25607/OBP-1904>.
3. Lorenzoni, L., R. Varela, D. Rueda, F. Muller-Karger, J. Rojas, L. Guzmán, Y. Astor y **E. Montes** (2017). Cambios espaciales y estacionales en la hidrografía y biogeoquímica de la región de la Fosa de Cariaco. *Memoria de la Fundación La Salle de Ciencias Naturales*, 74 (2014), 181-182: 103-124.
4. Muller-Karger, F., L. Lorenzoni, **E. Montes**, G. Taylor, R. Thunell, M. Scranton, C. Benitez-Nelson, Y. Astor, R. Varela, L. Troccoli, and K. Fanning (2013). The CARIACO Ocean Time-Series: 18 years of international collaboration in ocean biogeochemistry and ecological research. *Ocean Carbon and Biogeochemistry Newsletter*, Woods Hole Oceanographic Institution - winter edition.
5. Muller-Karger, F., G. T Taylor, Y. Astor, R. C. Thunell, M. I. Scranton, R. Varela, L. Troccoli Ghinaglia, L. Lorenzoni, **E. Montes**, K. A. Fanning, and C. Benitez-Nelson (2013). From affiliated project: The CARIACO Basin Ocean Time-Series. *Land-Ocean Interactions in the Coastal Zone Newsletter*, 1, ISSN 2070-2442.

Published Abstracts and Conference Presentations

1. **Montes, E.**, M.T. Kavanaugh, T. Christian, R. Cohn, F. Muller-Karger, L.R. Thompson, C. Kelble. **Oral presentation:** Image-based Zooplankton and Phytoplankton Essential Ocean Variables in South Florida Waters Contributed by the U.S. Marine Biodiversity Observation Network Program. 6th World Conference on Marine Biodiversity (VI WCMB) in Penang, Malaysia, on July 2-5 of 2023.
2. **Montes, E.**, M.T. Kavanaugh, T. Christian, R. Cohn, F. Muller-Karger, L.R. Thompson, C. Kelble. **Poster:** Integrating field marine plankton and satellite seascapes observations: Science products for management in the Southeast Marine Biodiversity Observation Network (MBON). NASA Carbon Cycle and Ecosystems Joint Science Workshop, May 8-12, 2023, College Park, MD.
3. **Montes, E.**, M.T. Kavanaugh, M. Messié, F. E. Muller-Karger, J. Trinanes, C. R. Kelble, and L. Escudero-Herrera. **Oral presentation:** Biogeographic shifts in pelagic and coastal fish assemblages of the Peruvian shelf: A Prototype Application of Ecosystem Structure ‘Essential Biodiversity Variables’ derived from dynamic satellite seascapes. Ocean Sciences Meeting (virtual), February 27 – March 4, 2022.
4. **Montes, E.**, Canonico, G., Kavanaugh, M. T., Miloslavich, P., et al. **Oral presentation:** A Marine Biodiversity Observation Network Pole-to-Pole of the Americas in support of conservation and sustainable use of living resources in the sea. 2021 GEO Week Conference, virtual, 23 November, 2021.

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5. **Montes, E.**, M. T. Kavanaugh, F. E. Muller-Karger, J. Trinanes, and L. Escudero-Herrera. **Oral presentation:** Detecting biogeographic shifts within marine ecoregions of the Americas using dynamic satellite seascapes. AmeriGEO Week, Biodiversity and Ecosystems (Session 2), 24 August, 2021.
6. **Montes, E.**, Canonico, G., Kavanaugh, M. T., Miloslavich, P., et al. Poster: The Marine Biodiversity Observation Network Pole to Pole of the Americas: MBON Pole to Pole: Building a Regional Community of Practice for Understanding and Conserving Life in the Ocean. CalCOFI Conference, virtual, 1-2 December, 2020.
7. **Montes, E.**, M. T. Kavanaugh, F. E. Muller-Karger, C. R. Kelble, J. S. Lefcheck. **Oral presentation:** Evaluating long-term change in the biogeography of Large Marine Ecosystems of the Americas derived from dynamic satellite seascapes. AGU Fall Meeting (virtual), December 1-17, 2020.
8. **Montes, E.**, J. S. Lefcheck, E. Guerra Castro, E. Klein, A. C. Mazzuco, G. Bigatti, C. Cordeiro, N. Simoes, E. Macaya, N. Moity, E. Londoño-Cruz, B. Helmuth, E. Soto, P. Miloslavich, F. E. Muller-Karger. **Oral presentation:** Optimizing large-scale biodiversity sampling effort: towards an asymmetric and unbalanced data collection approach. GEO BON Open Science Conference (virtual), July 6, 2020.
9. **Montes, E.**, A. Djurhuus, F. E. Muller-Karger, D. Otis, C. R. Kelble, M. T. Kavanaugh. **Oral presentation:** Dynamic satellite seascapes as a biogeographic framework for understanding phytoplankton phenology of the Florida Keys National Marine Sanctuary, USA. Ocean Science Meeting, San Diego, California, February 16– 20, 2020.
10. **Montes, E.**, A. Djurhuus, F. E. Muller-Karger, D. Otis, C. R. Kelble, M. T. Kavanaugh. **Poster:** Dynamic satellite seascapes as biogeographic framework for tracking seasonal shifts of phytoplankton assemblages in south Florida waters. 2019 AGU Fall Meeting, San Francisco, California, December 9-13, 2019.
11. **Montes, E.**, Canonico, G., Kavanaugh, M. T., Miloslavich, P., *et al.* **Poster and Lighting Talk** (NOAA booth): Laying the foundations of the Marine Biodiversity Observation Network (MBON) Pole-to-Pole of the Americas. OceanObs'19 Meeting, Honolulu, HI, USA, 16-20 September, 2019.
12. **Montes, E.**, G. Canonico, M. T. Kavanaugh, A. C. Marques, B. Best, O. Defeo, A. Gutierrez, E. Duffy, E. Escobar-Briones, P. Miloslavich, E. Klein, G. Bigatti, A. Flores, M. P. Cornejo, C. Cardenas, J. Pizarro, A. Henao, S. Cerdeira, S. Habtes, D. Otis, F. Chavez, and F. Muller-Karger. **Poster:** The Pole-to-Pole Marine Biodiversity Observation Network (MBON) of the Americas: Building a Regional Community of Practice for Understanding and Conserving Life in the Ocean. American Geophysical Union Fall Meeting, Washington D.C., December 10-14, 2018.
13. **Montes, E.**, A. C. Marques, E. Klein; E. Escobar-Briones, G. Bigatti, S. Habtes, I. Chollett, B. D. Best, M. T. Kavanaugh, Daniel Otis, Paul Seymour, and F. E. Muller-Karger. **Oral presentation:** Pole-to-Pole Marine Biodiversity Observation Network (MBON) of the Americas: Building a community. 4th World Conference on Marine Biodiversity, Montreal, May 13-16, 2018
14. **Montes, E.**, M. T. Kavanaugh, D. Otis, A. Djurhuus, L. Visser, F. E. Muller-Karger. **Poster:** Validation of dynamic satellite biogeographic seascapes: scaling phytoplankton community composition observations in the Florida Keys National Marine Sanctuary and adjacent waters. Ocean Science Meeting, Portland, Oregon, February 12– 16, 2018
15. **Montes, E.**, M. T. Kavanaugh, D. Otis, A. Djurhuus, L. Visser, F. E. Muller-Karger. **Poster:** Validation of dynamic satellite biogeographic seascapes: scaling ocean biodiversity observations in the Florida Keys National Marine Sanctuary. Ocean Carbon and Biogeochemistry Workshop, WHOI, MA, June 26-29, 2017.
16. **Montes, E.**, M. T. Kavanaugh, F. E. Muller-Karger, A. Djurhuus, J. A. Santora, F. Chávez, M. Messié, D. Otis, and S. Doney. **Oral presentation:** A Hierarchical and Dynamic Seascape Framework for Scaling and Comparing Ocean Biodiversity Observations. GEO BON Open Science Conference & GEO BON All Hands Meeting, Leipzig, Germany, July 4-8, 2016.
17. **Montes, E.**, M. T. Kavanaugh, J. P. Canizzaro, D. Otis, A. Djurhuus, L. Visser, K. Hubbard, F. E. Muller-Karger. **Poster:** Validation of dynamic satellite seascapes classification for understanding marine

- biogeography and scaling ocean biodiversity observations in the Florida Keys National Marine Sanctuary. NASA Biodiversity and Ecological Forecasting Meeting, Silver Spring, MD, May 3-5, 2016.
18. **Montes, E.**, F. E. Muller-Karger, A. Cianca, M. W. Lomas, L. Lorenzoni, and S. Habtes. **Oral presentation:** Decadal variability in the oxygen inventory of North Atlantic Subtropical Underwater captured by sustained, long-term oceanographic time-series observations. Ocean Science Meeting, February 21– 26, 2016.
 19. **Montes, E.**, F. E. Muller-Karger, A. Cianca, M. W. Lomas, L. Lorenzoni, and S. Habtes. **Oral presentation:** Decadal variability in the oxygen inventory of North Atlantic Subtropical Underwater captured by sustained, long-term oceanographic time-series observations. Congreso Venezolano de Ecología, Porlamar, Venezuela, November 9 – 12, 2015.
 20. **Montes, E.**, F. E. Muller-Karger, F. Chavez, M. Kavanaugh, S. Gittings, M. Hepner, M. Breitbart, J. Brown, D. Anderson, and S. Donahue. **Poster:** National Marine Sanctuaries as Sentinel Sites for a Demonstration Marine Biodiversity Observation Network (MBON): Remote Sensing of Dynamic Biogeographical Seascapes. Trait-based Approaches to Ocean Life, Waterville Valley, NH, October 5 – 8, 2015.
 21. **Montes, E.**, F. E. Muller-Karger, L. Lorenzoni, M. W. Lomas, A. Cianca, S. Habtes, and R. Masserini. **Poster:** Climate-driven changes in the oxygen inventory of North Atlantic Subtropical Underwater captured by oceanographic time-series stations. Ocean Carbon and Biogeochemistry Workshop, WHOI, MA, July 21-24, 2014.
 22. **Montes, E.**, Y. Astor, L. Lorenzoni, and F. Muller-Karger. **Poster:** The CARIACO Ocean Time-Series: a case study of the value of biogeochemical time-series within the Global Ocean Acidification Network. International Workshop of the Global Ocean Acidification Observing Network - GOA-ON (*invitation*) in St Andrews, UK, July 24 – 26, 2013.
 23. **Montes, E.**, F.E. Muller-Karger, G. Taylor, R. C. Thunell, L. Lorenzoni, D. Rueda-Roa, Y. Astor and R. Varela. **Oral presentation:** Climate-induced ecosystem and biogeochemical shifts in the Cariaco Basin (Venezuela - southeastern Caribbean Sea). IMBIZO III Conference, Goa - India, January 27 – 31, 2013.
 24. **Montes, E.**, F.E. Muller-Karger, Lorenzoni, Y. Astor and R. Varela. **Poster:** Major ecosystem and biogeochemical changes in response to climatic variations in the Cariaco Basin (Venezuela - southeastern Caribbean Sea). IMBER ClimECO3 Summer School in Ankara, Turkey, July 23 – 28, 2012.
 25. **Montes, E.**, F.E. Muller-Karger, R. Thunell, E. Tappa, L. Trocoli, L. Lorenzoni, Y. Astor and R. Varela. **Oral presentation:** Environmental controls on the nitrogen isotope signal of sinking particles in the Cariaco Basin, Venezuela. ASLO Meeting, Puerto Rico. February 13-18, 2011.
 26. **Montes, E.**, F. Muller-Karger, R. Thunell, D. Hollander, Y. Astor, R. Varela, I. Soto, L. Lorenzoni, and L. Trocoli. **Poster:** Particulate Biogenic Fluxes within the Euphotic Zone of the Cariaco Basin, Venezuela. Ocean Carbon and Biogeochemistry Workshop, WHOI, MA, July 21-24, 2008.
 27. **Montes, E.**, F.E. Muller-Karger, R. Thunell, D. Hollander, Y. Astor, R. Varela, I. Soto and L. Lorenzoni. **Poster:** Sinking biogenic particulate fluxes and primary production in the euphotic zone of the Cariaco Basin, Venezuela. Ocean Sciences Meeting, Orlando, FL. March 2-7, 2008.
 28. **Montes, E.**, F.E. Muller-Karger, R. Thunell, D. Hollander, Y. Astor, R. Varela, I. Soto and L. Lorenzoni. **Poster:** Sinking biogenic particulate fluxes and primary production in the euphotic zone of the Cariaco Basin, Venezuela. AGU Fall Meeting, San Francisco, CA, December 10-14, 2007.

Synergistic Activities

International Organizations:

- International Association for Biological Oceanography (IABO): President – www.iabo.org.
- International Council for Science (ICSU): Ex-officio member of the Scientific Committee on Oceanic Research (SCOR) Executive Committee (<https://scor-int.org/scor/about/officers/>)

Undergraduate teaching: *Current Topics in World Climate and Atmosphere*; University of South Florida St Petersburg; School of Environmental Science and Policy (EVR 4114 Section 601) – Fall of 2017-2019.

Student mentoring:

- S. Di Geronimo - Ongoing Master's student of the College of Marine Science, USF.
- L. Lizcano-Sandoval - Ongoing Ph.D candidate of the College of Marine Science, USF.
- B. Matheney - Fall 2020, Undergraduate Honors thesis, USF St Pete (USFSP).
- C. Black – ongoing Ph.D. candidate of the Rosenstiel School of Marine, Atmospheric, and Earth Science of the U. Miami.

Workshop organization and participation:

- Pole-to-Pole of the Americas Marine Biodiversity Observation Network (MBON) Workshop: September, 27-29, 2016, Playa del Secreto, Quintana Roo, Mexico. **Organizer.**
- 1st Marine Biodiversity Workshop: From the Sea to the Cloud; August 6-10, 2018, São Sebastião, São Paulo, Brazil. **Organizer.**
- 2nd Marine Biodiversity Workshop: From the Sea to the Cloud; April 2-5, 2019, Playa del Secreto, Quintana Roo, Mexico. **Organizer.**
- MBON/MODIV Workshops: Plankton ecosystem function, biodiversity, and forecasting - research requirements and applications (<https://eqmh.github.io/MBON-Plankton/>). Virtual workshops in November 2020, and October and November of 2021. **Organizer.**
- Freely available oceanographic and satellite data. Coastal Ocean Environment Summer School in Ghana, 6 January, 2021. **Instructor.**
- Ocean satellite remote sensing applications: access, visualize, and analyze satellite data to better understand our ocean ecosystems. Coastal Ocean Environment Summer School in Ghana, 5 August, 2021. **Instructor.**
- Marine Biological Data Mobilization Workshop (https://ioos.github.io/bio_mobilization_workshop/), March 14-15, 2022. **Organizer /Instructor.**
- Ocean Data Bootcamp workshop - Gestão de dados de monitoramento costeiro (https://eqmh.github.io/Ocean_Data_Bootcamp/), July 11-14, Vitória, ES, Brazil. **Organizer.**
- SIMA-NOAA Workshop: Integrating water quality and biodiversity surveys in support of management decisions, November 29th - December 2nd, 2022. US Consulate General in Sao Paulo, Brazil. **Organizer.**
- MBON Pole to Pole Workshop: Implementing image-based and Artificial Intelligence tools for biodiversity monitoring of the rocky intertidal (<https://eqmh.github.io/p2p-argentina-workshop/>) in Camarones, Argentina, on March 27th – 31st of 2023. **Organizer.**

Reviewer for: National Aeronautics and Space Administration (NASA), National Science Foundation (NSF), Limnology & Oceanography, Biogeosciences, Marine Chemistry, Deep-Sea Research I and II, Continental Shelf Research, Marine Ecology Progress Series, Bulletin of Marine Science, Methods in Ecology and Evolution, Coastal Management Journal, FACETS.

Guest Editor for: Frontiers in Marine Science, PeerJ

Research cruises: **R/V Atlantic Explorer**, Bermuda Atlantic Time-series Study (BATS) cruise (September 2006); **R/V Meteor**, Leg M77/4, IFM-GEOMAR, Kiel, Germany (February 2009); **R/V Knorr**, leg KNR 197-4 (February 2010); **R/V Weatherbird II**, University of South Florida (September 2010); **R/V Pelican**, CARTHE cruise (07-10 July 2014) to the Mississippi River mouth and plume, Lumcon, Mississippi; **R/V Walton Smith**, NOAA's South Florida Program, >40 cruises since April 2015; **R/V Manta**, Flower Garden Banks National Marine Sanctuary (August 2016); **R/V Shearwater**, Channel Islands National Marine Sanctuary (October 2016, and May and November 2017); and **R/V Hermano Ginés** from Fundación La Salles de Ciencias Naturales (FLASA), Venezuela, CARIACO Time-series Program (over 20 cruises since 2006).

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Outreach activities: participation in local summer programs at CMS to teach K-12 about satellite oceanography.

Professional Society Memberships:

International Association for Biological Oceanography (IABO), Scientific Committee on Oceanic Research (SCOR), American Association for the Advancement of Science (AAAS), American Geophysical Union (AGU), Association for the Sciences of Limnology and Oceanography (ASLO), Sociedad Venezolana de Ecología (SVE).

Collaborators:

Anni Djurhuus (University of the Faroe Islands); Maria Kavanaugh (OSU); Patricia Miloslavich (SCOR); Eduardo Klein (USB, Venezuela); Emmett Duffy and Jonathan Lefcheck (SERC, Smithsonian I.); Frank Muller-Karger, Daniel Otis, Mya Breitbart, Laura Lorenzoni and David Hollander (USF); Francisco Chavez and Monique Messié (MBARI); Ali Boehm (Stanford U.); Scott Doney (WHOI); Benjamin Best (UCSB); Jarrod Santora and Elliott Hazen (UCSC-SWFSC NOAA); Robert Thunell and Claudia Benitez-Nelson (U. South Carolina); Mary Scranton and Gordon Taylor (Stony Brook U.); Sennai Habtes (UVI); Susanne Neuer (ASU); Gabrielle Canonico, Steve Gittings, Chris Kelble, Elizabeth Johns, Angelica Gutierrez (NOAA); Mark Altabet (U. Massachusetts Dartmouth); Michael Lomas (Bigelow Lab. Oce. Sci.); Larry Peterson (RSMAS – U. Miami); Elva Escobar-Briones (UNAM); Sergio Cerdeira (CONABIO, Mexico); Antonio Marques (USP, Brazil); Gregorio Bigatti (CONICET, Argentina); Erasmo Macaya (U. Concepcion); Nicolas Moity (Charles Darwin Foundation; Galapagos Islands, Ecuador); Ana Carolina Mazzuco (UFES; Brazil); Cesar Cordeiro (UFF; Brazil); Maikon Di Domenico (UFPR; Brazil); Edgardo Londoño-Cruz (U. Cali; Colombia); Brian Helmuth (Northeastern University); Ramón Varela and Yrene Astor (FLASA, Venezuela); Inia Soto (NASA – Goddard).