

SHARON Z HERZKA

CURRICULUM VITAE

PERSONAL INFORMATION

Peruvian and Canadian citizenship

CONTACT INFORMATION

University of Texas at Austin
Marine Science Institute
Department of Marine Science
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POSITION

08-2023- date	Associate Professor Department of Marine Science University of Texas at Austin
01-2022- 07-2023	Full Researcher Level D Department of Biological Oceanography Center for Scientific Research and Higher Education of Ensenada (CICESE, a CONACYT Center of Excellence)
2021-2022	Sabbatical leave Texas A&M University Galveston Department of Marine and Coastal Environmental Science 1001 Texas Clipper Road Galveston, TX 77554
2018-2021	Head of the Department of Biological Oceanography
2015-2021	Full Researcher Level C
2010-2014	Full Researcher Level B
2006-2009	Full Researcher Level A, TENURED
2001-2005	Associate Researcher Level C
1994-1998	Research Assistant, Department of Marine Science, University of Texas at Austin
1993-1996	Teaching Assistant, Department of Marine Science, University of Texas at Austin (Introduction to Oceanography, Estuarine Ecology, Marine Botany, Cell and Molecular Biology)

EDUCATION

- 2000 Ph.D. Marine Science
University of Texas at Austin
Thesis: Characterization of the recruitment patterns of red drum (*Sciaenops ocellatus*) larvae to estuarine nursery habitat using stable isotopes as natural tracers of settlement
Advisor: Dr G. Joan Holt
- 1996 M.A. Marine Science
University of Texas at Austin
Thesis: "Photosynthetic performance and carbon balance of the seagrass *Thalassia testudinum* in Texas"
Advisor: Dr. Kenneth H. Dunton
- 1993 B.S. Environmental Science and Resource Management (1993), minor in Science Writing, Lehigh University

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SCOPUS ID: 6506986974

H-INDEX: 18

WEB OF SCIENCE RESEARCHER ID: [E-1507-2015](https://www.researcherid.org/rid/E-1507-2015)

RECOGNITION AND AWARDS

- 2021-date Member of the Mexican National Academy of Sciences
2022-2026 SNI Level III (Fellow of the National Researcher System; SNI CONACYT).
- 2018-2021 SNI Level II
2003-2017 SNI Level I
2001-2002 SNI Candidate
- 2000 **Outstanding Dissertation Award University of Texas at Austin College of Natural Sciences**
- 2000 Best Student Presentation Award, 2nd International Conference on Applications of Stable Isotope Techniques to Ecological Studies, Braunschweig, Germany
- 2000 E.J. Lund Scholarship, Department of Marine Sciences, University of Texas, Austin, 1999-2000.
- 1999 Finalist, J. Frances Allen Scholarship to a female Ph.D. student, American Fisheries Society, 1999.
- 1999 Finalist, Sally Richardson Award for Best Student Presentation, American Fisheries Society, 23rd Larval Fish Conference, Beaufort, North Carolina,
- 1998-1999 Julian C. Barton Scholarship, Department of Marine Sciences, University of Texas, Austin
- 1998 Sally Richardson Award for Best Student Presentation, American Fisheries Society 22nd Larval Fish Conference, Ann Arbor, Michigan
- 1997 Scholarship to attend the International Conference of the Estuarine Research Federation, Providence, Rhode Island
- 1992 Best Scientific Report Award: Department of Journalism, Lehigh University

GRADUATE STUDENT AND POSDOCTORAL FELLOW SUPERVISOR

POSDOCTORAL FELLOWS

2021-2022	Miguel Martínez
2016-2020	Jesús C Compaire
2017-2021	Rigel Alfonso Zaragoza Álvarez

Nadia López Tejada

PhD Autonomous University of Baja California, (co-supervised with Dr. Nancy Ramirez)

Tentative graduation date: December 2026

Thesis: Origin of coastal ichthyoplankton and water column hydrocarbons in the deep-water region of the Bay of Campeche, southern Gulf of Mexico

PAST STUDENTS IN THE MARINE ECOLOGY PROGRAM AT CICESE

2023	Gonzalo Dauden-Bengoa	PhD
2022	Óscar Hernández-Sánchez	PhD (co-supervised with Dr. Víctor Camacho Ibar, UABC)
2020	Meliza Le Alvarado	MS (co-supervised with Dr. Alfonsina Romo Curiel, CICESE)
2018	Aurora Gaona Hernández	MS (co-supervised with Dr. Eduardo Suarez ECOSUR Chetumal)
2018	María Teresa Nuche Pascual	PhD
2017	Gonzalo Dauden Bengoa	MS
2017	Karina Chávez Martínez	MS (co-supervised with Dr. Eduardo Morteo, Univ. Veracruzana)
2015	Maite Erauskin Extramiana	MS (co-supervised with Dr. Octavio Aburto, SIO-UCSD)
2015	Laura Echeverri García	MS
2015	Alfonsina E. Romo Curiel	PhD (co-supervised with Dr. Chugey Sepulveda, Pflieger Institute)
2014	Oscar Hernández Sánchez	MS (co-supervised with Dr. Víctor Camacho-Ibar, UABC)
2014	Laura Lucio Martínez	MS
2010	Claudia Abigail Iris Maldonado	MS (co-supervised with Dr. Hem Morzaria Luna, CEDO)
2010	Jorge Alejandro Cerón Gómez	MS
2010	Anelena Campuzano Hernández	MS
2008	Luis Malpica Cruz	MS (co-supervised with Dr.

		Oscar Sosa Nishizaki, CICESE)
2008	Sonia Valle Rubio	PHD (co-supervised with Dr. Tim Baumgartner, CICESE)
2006	Vanessa Francisco Ramos	MS
2006	Francisco López Rasgado	MS
2005	Clarisa Rendón Ibarra	MS

Served on 55 master's and 14 PhD student committees.

COURSES TAUGHT (GRADUATE PROGRAM IN MARINE ECOLOGY, CICESE)

Development of Thesis Proposals (2021, 2020, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2010, 2006) Co-taught.

Isotope Ecology/Special Topics in Isotope Ecology (2015, 2013, 2012, 2011, 2008)

Marine Ecology (2007, 2008, 2004, 2003, 2002)

Recruitment of Marine Fishes (2003)

Scientific Presentations (2009, 2007, 2006)

Seminar in Marine Science (2007, 2004, 2004, 2003)

COURSES, WORKSHOPS AND PARTICIPATION IN ACADEMIC ACTIVITIES AT EXTERNAL INSTITUTIONS

Organizer, POGO Working Group: Workshop of the Gulf of Mexico Oceanographic and Meteorological Observation Group (*Grant number: POGO-2022-WG-6233*). Ensenada, Baja California April 26-27 2023

Co-Organizer, with Dr. Jorge Brenner, Executive Director, Gulf of Mexico Ocean Observing System (GCOOS) Spring Webinar Series 2022. <https://gcoos.org/spring-webinar-series/> Series title: Southern Gulf of Mexico Marine Observations, Research and Technology: Opportunities for Gulf-Wide Synergies and Cooperation.

Steering Committee for Network-to-Network Gulf of Mexico ([N2N GoM](#)) Initiative (2022-date).

Planning Committee, N2N Gulf of Mexico Initiative “*An international network-to-network approach to assess and manage multi-sectoral states of risk for the Gulf of Mexico to secure optimal resilience and adaptation strategies due to climate variability and other emerging threats*”) Drs. Zenón Medina-Cetina y Jack Baldauf, PI, Texas A&M University. <http://n2ngom.net>. (2019-date).

Planning Committee for the Network-to-Network Gulf of Mexico (N2N GoM) Initiative (NSF-funded) workshop held in Mérida, Yucatán, Mexico. 2019.

Trophodynamics, Universidad Peruana Cayetano Heredia (UPCH), Lima, Peru. 2015. Taught with Drs. Dimitri Gutiérrez and José Espinoza.

Isotope Geochemistry and Oceanographic Applications, Universidad Peruana Cayetano Heredia (UPCH), Lima, Peru. 2011.

Participant, Workshop for developing the second work group on analysis "Small Pelagics and Climate Change" (Small Pelagics and Climate Change SPACC II) SPACC-GLOBEC. La Paz, Baja California, Mexico. 2010

Gave a workshop on Stable Isotopes, Trophic Structure and Migration (20 h). Center for Biological Studies of the Northwest (CIBNOR), La Paz, Baja California Sur, Mexico. 2009.

INSTITUTIONAL AND DEPARTMENTAL COMMITTEES

Science and Technology Council for the [Research Consortium for the Gulf of Mexico](#) (CIGOM; 2015-2022)

Council for the Graduate Program in Marine Ecology (2002-2004; 2011-2014; 2018 to 2021)

Internal Council, Division of Oceanography (2012-2014; 2018-2021). **Served as Department Head 2018-2021.**

Reviewer for CONACYT proposals (ongoing) and pre-evaluation of applications for membership in the National Council of Investigators (2020)

Ethics Committee, CICESE (2018-2021)

Substitute Representative of the Division of Oceanography before CICESE's Director's Technical Advisory Council (2012-2015)

Committee for Graduate Program Evaluation (2002-2009)

Small Boat and Research Ship Committee (2007-2010, 2018-2021)

SELECT ADDITIONAL ACTIVITIES (2015-DATE)

2023-date Co-Editor in Chief, Ciencias Marinas, <https://www.cienciasmarinas.com.mx/>. Universidad Autonoma de Baja California

2022 Mentors in Science Training Program, British Council Mexico (April – Nov).

2022 Session Co-Chair (with Juan Carlos Herguera and Paula Pérez-Brunius), Ocean Sciences Meeting, Linking the mesoscale circulation, geochemistry, and ecology of the Gulf of Mexico. Virtual meeting, February 2022.

2019 Co-Chair, Scientific Program Committee, Coastal and Estuarine Research Federation (CERF) Biennial Meeting held in Mobile, Alabama, November 2019.

2019 Special Session Convener, Coastal and Estuarine Research Federation (CERF) Biennial Meeting to be held in Mobile, Alabama, November 2019. Population and Community Ecology.

2014-2017 Member of the Governing Board, Coastal and Estuarine Research Federation (2012-2014 as CAERS President, 2014-2017 as Member-at-Large, elected position).

- 2012-2013 International Relations Committee, Coastal and Estuarine Research Federation Governing Board
- 2013 Convener, Special Session and Central and South American Estuaries, 22nd Biennial Conference of the Coastal and Estuarine Research Federation, San Diego, California.
- 2012 Co-organizer Annual Meeting of the California Estuarine Research Federation (CAERS, A CERF Affiliate) California State University Long Beach.
- 2011-2013 President-California Estuarine Research Society (CAERS), CERF Affiliate
- 2009 Co-convener (with Drs. John Largier, Paul Montagna, and José Alvarez-Salgado), Special Session on Arid and Seasonally Arid Estuaries, Coastal and Estuarine Research Federation 20th Biennial Conference, Portland, Oregon
- 2009 Co-Chair, Special Session on Application of Stable Isotopes to Coastal and Estuarine Ecosystems, Coastal and Estuarine Research Federation, 20th Biennial Conference, Portland
- 2008 Co-organizer with Dr. Víctor Camacho (IIO-UABC) of the Annual Meeting of the California Estuarine Research Society (CAERS), Ensenada, Baja California, April 2008.
- 2006-2008 Member at Large, California Estuarine Research Society, CAERS
- 2007, 2009 Scientific Co-Chair Trinational Sardine Forum, 2007, 2009.
- 2005-2011 Executive Committee, Trinational Sardine Forum
- 2005 Co-organizer (with Dr. Nancy Lo, SWFSC-NOAA) of the 6th Trinational Sardine Forum. Ensenada, Baja California.

PUBLICATIONS (*SZ HERZKA AS CORRESPONDING AUTHOR, SZ HERZKA'S STUDENTS OR POSDOCS IN ITALICS)

Contreras-Pacheco YV, Herzka SZ, Herguera García* JC (2023) Particulate organic carbon in the deep-water region of the Gulf of Mexico. *Frontiers in Marine Science*, 10. <https://doi.org/10.3389/fmars.2023.1095212>.

Herguera García JHC, Peters EM, Sheinbaum J, Pérez-Brunius P, Herzka SZ, Licea-Navarro AF, Ocampo-Torres FJ, Aguirre-Macedo ML, Vidal-Martínez WM, García-Nava H, Salgado T, Romero-Centeno R, Zavala-Hidalgo J, Pardo-López L, Gracia A. (2023) Ocean Monitoring, Observation Network and Modelling of the Gulf of Mexico by CIGOM. *Frontiers in Marine Science*. <https://www.frontiersin.org/articles/10.3389/fmars.2023.1095212/full>

Amon R, Ochoa J, Candela J, Herguera JC, Herzka SZ, Pérez-Brunius P, Sheinbaum J, Hernández-Ayon M, Camacho-Ibar VF, and Key RM. (2023) Ventilation of the deep Gulf of Mexico and potential insights to the Atlantic Meridional Overturning Circulation *Science Advances*. 9, eade1685. <https://www.science.org/doi/10.1126/sciadv.ade1685>

Ramírez-León MR, Sosa-Nishizaki O, Pérez-Brunius O, Romo-Curiel AE, Ramírez-Mendoza Z, Fajardo-Yamamoto A, Herzka SZ, García-Aguila MC (2023) Semi-quantitative risk assessment of marine mammal oil exposure: A case study in the western Gulf of Mexico. *Frontiers in Marine Science*. <https://www.frontiersin.org/articles/10.3389/fmars.2023.1034647/full>

Daudén-Bengoa G, Jiménez-Rosenberg SPA, Fernández Alamo MA, Ordoñez-López U, Echeverri-García LP, and Herzka SZ*. (2023) Distribution and abundance of ichthyoplankton species with contrasting life histories as a function of oceanographic variables in the deep-water region of the southern Gulf of Mexico. *PLOSone*. <https://doi.org/10.1371/journal.pone.0280422>

Gasca-Pineda J, Galindo CE, Martínez M, Jiménez-Rosenberg SPA, Hereu C, Nakamura Y, Compaire J, Gómez-Reyes REC, Robles-Flores J, Saavedra-Flores A, Herzka SZ, Arteaga MA. (2023) Community structure and diversity of five groups of zooplankton in the Perdido region of the Gulf of Mexico using DNA metabarcoding. *Aquatic Ecology*. <https://doi.org/10.1007/s10452-022-10002-w>

Hernández-Sánchez OG, Camacho-Ibar VF, Herguera JCH, Barbero L and Herzka SZ* (2023) A gulf-wide synoptic isoscape of zooplankton isotope ratios reveals the importance of nitrogen fixation in supporting secondary production in the central Gulf of Mexico. *Frontiers in Marine Science*. <https://doi.org/10.3389/fmars.2022.1025387>

Mohan JA, Romo-Curiel A, Herzka SZ*, Wells RJD, Sosa-Nishizaki O, García-Rodríguez E. (2023) Inferring habitat use of the Pacific White Shark using vertebral chemistry. *Frontiers in Marine Science*. <https://www.frontiersin.org/articles/10.3389/fmars.2022.1082219/full>

LaFreniere BR, Sosa-Nishizaki O, Herzka SZ, Snodgrass O, Dewar H, Miller N, Wells RJD, Mohan JA (2023) Vertebral chemistry distinguishes nursery habitats of juvenile shortfin mako (*Isurus oxyrinchus*) in the eastern North Pacific Ocean. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science*15:e10234. <https://afspubs.onlinelibrary.wiley.com/doi/epdf/10.1002/mcf2.10234>

Morales-Pulido JM, Galindo-Sánchez CE, Arteaga CM, Batta-Lona PG, Herzka SZ, and Jiménez-Rosenberg SPA. (2022) Identification of *Bothus ocellatus* and *Bothus robinsi* larvae using morphological and molecular approaches leads to a distribution record for two summer cruises in the Gulf of Mexico. *Journal of Marine Systems*. <https://doi.org/10.1007/s10641-022-01370-1>

Karina Chávez-Martínez, Eduardo Morteo, Isabel Hernández-Candelario, Sharon Z Herzka, Christian A. Delfin-Alfonso. (2022) Opportunistic gillnet predation by common bottlenose dolphins in the southwestern Gulf of Mexico: testing the relationship with ecological, trophic, and nutritional characteristics of their prey. *Frontiers in Marine Science*. <https://doi.org/10.3389/fmars.2022.8700>

Romo-Curiel AE, Ramírez-Mendoza Z, Fajardo-Yamamoto Z, Ramírez-León MR, García-Aguilar MC, Herzka SZ, Pérez-Brunius P, Saldaña-Ruiz LE, Sheinbaum J, Koztakoulakis K, Rodríguez-Outereño J, Medrano F, and Sosa-Nishizaki O. (2022) Assessing the ecological risk of large pelagic fish to oil spills scenarios in the deep waters of the Gulf of Mexico. *Marine Pollution Bulletin*. <https://doi.org/10.1016/j.marpolbul.2022.113434>

Echeverri-García LP, Daudén-Benagoa G, Compaire JC, Jiménez-Rosenberg SPA, Pérez-Brunius P, Ferreira-Bartrina V, and Herzka SZ.* (2022) Variability of fish larvae assemblages relative to mesoscale features in the deepwater region of the southern Gulf of Mexico. *Hydrobiologia*. <https://doi.org/10.1007/s10750-022-04797-w>

Hernández-Sánchez OG, Camacho-Ibar VF, Fernández-Alamo MA, and Herzka SZ*. (2022) Nitrogen sources (NO₃ vs N₂ fixation) inferred from bulk δ¹⁵N values of zooplankton from the deep water region of the Gulf of Mexico (2022). *Journal of Plankton Research*. <https://doi.org/10.1093/plankt/fbab089>

Cervantes-Díaz GY, Hernández-Ayón JM, Zirino A, Herzka SZ, Camacho-Ibar VF, Norzagaray O, Montes I, Sudre J, Delgado JA (2022). Understanding upper water mass dynamics in the Gulf of Mexico by linking physical and biogeochemical features. *Journal of Marine Systems*. <https://doi.org/10.1016/j.jmarsys.2021.103647>

Cicala F, Arteaga MC, Herzka SZ, Hereu C, Jiménez-Rosenberg SPA, Saavedra-Flores A, Robles-Flores J, Gómez R, Batta-Lona P, and Galindo C (2021). Environmental conditions drive zooplankton community structure in the deep-water region of the southern Gulf of Mexico: a molecular approach. *Molecular Ecology*. <https://doi.org/10.1111/mec.16251>

Malpica-Cruz L, Abadía-Cardoso A, Aquino-Baleytó M, Beas-Luna R, Becerril-García E, Castillo-Géniz J, Galván-Magaña F, García-Rodríguez E; Herzka SZ; Hoyos-Padilla E, Lara-Mendoza R, Lorda J, Oñate-González E, Pérez-Weil R, Saavedra-Sotelo N, Santana-Morales O, Towns V, Zepeda-Domínguez J (2021). Empowering fishers for Great White Shark stewardship: Reply to Madigan et al. 2021. *Conservation Letters*. e12828. <https://doi.org/10.1111/conl.12828>

García-Rodríguez E, Herzka SZ*, Sosa-Nishizaki O*, Lowe CG, O'Sullivan JB (2021). Stable isotope analysis of juvenile white sharks inside a nursery area reveals foraging in demersal-inshore habitats and trophic overlap with sympatric sharks. *Frontiers in Marine Science*. 8:687738. <https://doi.org/10.3389/fmars.2021.687738>

Martínez MA, Hereu C, Saavedra-Flores A, Robles-Flores A, Gómez R, Batta-Lona P, Gasca J, Galindo-Sánchez G, Arteaga M, Jiménez-Rosenberg PSA and Herzka SZ (2021). Epipelagic zooplankton diversity in the deep-water region of the Gulf of Mexico: a metabarcoding survey. *ICES Journal of Marine Science*. [doi:10.1093/icesjms/fsab090](https://doi.org/10.1093/icesjms/fsab090)

Ursella L, Pensieri S, Pallàs-Sanz E, Herzka SZ, Bozzano R, Tenreiro M, Cardin V, Candela J and Sheinbaum S (2021). Diel, lunar and seasonal vertical migration in the deep western Gulf of Mexico evidenced from a long-term data series of acoustic backscatter. *Progress in Oceanography*. <https://doi.org/10.1016/j.pocean.2021.102562>.

Compaire JC, Pérez-Brunius P, Jiménez-Rosenberg SPA, Rodríguez-Outerelelo J, Echeverri-García LP and Herzka SZ* (2021). Connectivity of coastal and neritic fish larvae to the deep waters of the Perdido region (western Gulf of Mexico) inferred from in situ sampling and ocean circulation modelling. *Limnology and Oceanography*. 9999:1–19. <https://doi.org/10.1002/lno.11762>

Dirani K, Wowk K, Medina-Centina Z, Bandaulf J, Herzka SZ, Bello-Bolio R, Gutiérrez-Martínez V and Muñoz-Ubando LA (2021). Learning organization as a framework for networks' collaboration and knowledge sharing. *The Learning Organization*. <https://doi.org/10.1108/TLO-05-2020-0089>

Nuche-Pascual MT, Ruiz-Cooley RI and Herzka SZ* (2021). Effect of macronutrients, feeding regimes, life stage and habitat type on amino acid $\delta^{15}\text{N}$ trophic enrichment factors in teleost fish: a meta-analysis. *Ecosphere*. 12:e03570 <https://doi.org/10.1002/ecs2.3570>

Ochoa J, Ferreira V, Candela V, Sheinbaum J, López M, Pérez-Brunius P, Herzka SZ and Amon R (2021). Last decade warming in the abyssal Gulf of Mexico *Journal of Physical Oceanography*. DOI: <https://doi.org/10.1175/JPO-D-19-0295.1>.

Le-Alvarado M, Romo-Curiel AE, Sosa-Nishizaki O, Hernández-Sánchez O, Barbero L, Herzka SZ* (2021). Yellowfin tuna (*Thunnus albacares*) foraging habitat and trophic position in the Gulf of Mexico based on intrinsic isotope tracers. *PLOS One*. <https://doi.org/10.1371/journal.pone.0246082>

Hereu CM, Arteaga MC, Galindo-Sánchez CE, Herzka SZ, Batta-Lona PG and Jimenez-Rosenberg SPA (2021). Zooplankton summer composition in the southern Gulf of Mexico with emphasis on salp and hyperiid amphipod assemblages. *Journal of the Marine Biological Association of the United Kingdom*. 100: 665-680. <https://doi.org/10.1017/S0025315420000715>

Juárez-Rodríguez M, Heckel G, Herguera-García JC, Elorriaga-Verplancken FR, Herzka-Llona SZ, Schramm Y (2020). Trophic ecology of Mexican Pacific harbor seal colonies using carbon and nitrogen stable isotopes. *PLoS ONE* 15(1): e0225889. <https://doi.org/10.1371/journal.pone.0225889>

Daudén-Bengoa G, Jiménez-Rosenberg SPA, Compaire-Cano J, Echeverri-García LP, Pérez-Brunius P, Herzka SZ (2019). Larval fish assemblages of myctophids in the deep water region of the southern Gulf of Mexico linked to oceanographic conditions. *Deep-Sea Research Part I* <https://doi.org/10.1016/j.dsr.2019.103181>

Vidal-Martínez VM, Velázquez-Abunader I, Pech-Pool, D, Mariño-Tapia I, Enriquez-Ortiz C, Herrera-Silveira, J, Herzka, SZ, Ordoñez-López, U, Aguirre-Macedo ML (2019). Metazoan parasite infracommunities of the dusky flounder (*Syacium papillosum*) as bioindicators of environmental conditions in the continental shelf of the Yucatan Peninsula, Mexico. *Parasites and Vectors*. 12:277. doi.org/10.1186/s13071-019-3524-6

Mohan JR, Miller NR, Herzka SZ, Sosa-Nishizaki O, Kohin S, Dewar H, Kinney M, Snodgrass O, Wells RJD (2018). Elements of time and place: Manganese and barium in shark vertebrae reflect age and upwelling histories. *Proceedings of the Royal Society B* 285: 20181860. <http://dx.doi.org/10.1098/rspb.2018.1760>

Nuche-Pascual MT, Lazo JP, Ruiz-Cooley RI, Herzka SZ (2018). Amino acid- specific $\delta^{15}\text{N}$ trophic enrichment factors in fish fed with formulated diets varying in protein quantity and quality. *Ecology and Evolution*. <https://doi.org/10.1002/ece3.4295>

González-Medina E, Castillo-Guerrero JA, Herzka SZ, Fernández-Aceves GJ (2018). High quality diet improves lipid metabolic profile and breeding performance in the blue-footed booby, a long-lived seabird. *PLoS ONE*. doi.org/10.1371/journal.pone.0193136

Erauskin-Extramiana M, Herzka SZ*, Hinojosa-Arango G, Aburto-Oropeza O (2017). An interdisciplinary approach to evaluate the status of large-bodied Serranid fisheries: The case of Magdalena-Almejas Bay lagoon complex, Baja California Sur, Mexico. *Ocean & Coastal Management* 145:21-34. <https://doi.org/10.1016/j.ocecoaman.2017.05.005>

González-Medina E, Castillo-Guerrero JA, Herzka SZ, Fernández G (2017). Flexibility in food resource allocation in parents and selectivity for offspring: variations in $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ values during breeding of the Blue-footed Booby. *Marine Biology*. 164:38. DOI: [10.1007/s00227-017-3070-8](https://doi.org/10.1007/s00227-017-3070-8)

Oñate-González EC, Sosa-Nishizaki O, Herzka SZ, Lowe CG, Lyons K, Santana-Morales O, Sepulveda C, Guerrero-Ávila C, García-Rodríguez E, O'Sullivan J (2017). Importance of Bahía Sebastián Vizcaino as a nursery area for white sharks (*Carcharodon carcharias*) in the northeastern Pacific: A fishery dependent analysis. *Fisheries Research*. 188:125-137. [10.1016/j.fishres.2016.12.014](https://doi.org/10.1016/j.fishres.2016.12.014)

López-Rasgado FJ, Herzka SZ, Balart, E.F., Lluch-Cota, SE (2016). Comparison of trophic niche of three mangrove fish communities from the Gulf of California, Mexico based on stable isotopes ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$). *Bulletin of Marine Science* 92:399-422. DOI: [10.5343/bms.2015.1100](https://doi.org/10.5343/bms.2015.1100)

Mohan JA, Smith SA, Connelly TL, Attwood ET, McClelland JW, Herzka SZ, Walther BD (2016). Tissue-specific isotope turnover and discrimination factors are affected by diet quality and lipid content in an omnivorous consumer *Journal of Experimental Marine Biology and Ecology* 479:35-45. DOI: [10.1016/j.jembe.2016.03.002](https://doi.org/10.1016/j.jembe.2016.03.002)

Romo-Curiel A, Herzka SZ, Sepulveda CA, Aalbers SA (2016). Rearing conditions and habitat use of white seabass (*Atractoscion nobilis*) in the Northeastern Pacific based on otolith isotopic composition. *Estuarine, Coastal and Shelf Science* 170:134-144 DOI: [10.1016/j.ecss.2016.01.016](https://doi.org/10.1016/j.ecss.2016.01.016)

Badillo D, Lazo JP, Herzka SZ, Viana MT (2015). The effect of substituting fishmeal with poultry by-product meal in diets for *Totoaba macdonaldi* juveniles. *Aquaculture Research* 6:1778-1789. <https://doi.org/10.1111/are.12636>

Romo-Curiel AE, Herzka SZ, Sosa-Nishizaki O, Sepulveda C, Aalbers SA (2015). Otolith-based growth estimates and insights into population structure of white seabass, *Atractoscion nobilis*, off the Pacific coast of North America. *Fisheries Research* 161: 374-383 <https://doi.org/10.1016/j.fishres.2014.09.004>

Badillo D, Herzka SZ, Viana MT (2014). Protein retention assessment of four levels of poultry by-product substitution of fishmeal in rainbow trout (*Oncorhynchus mykiss*) diets

using stable isotopes of nitrogen ($\delta^{15}\text{N}$) as natural tracers. *PLOS ONE* 9(9):e107523 <https://doi.org/10.1371/journal.pone.0107523>

Malpica-Cruz L, Herzka SZ, Sosa-Nishizaki O, Escobedo-Olvera MA (2013). Tissue-specific stable isotope ratios of shortfin mako and white sharks as indicators of size-based differences in foraging habitat and trophic level. *Fisheries Oceanography* 22:429-455. <https://doi.org/10.1111/fog.12034>

Fodrie FJ and Herzka SZ (2013). A Comparison of Otolith Geochemistry and Stable Isotope Markers to Track Fish Movement: Describing Estuarine Ingress by Larval and Post-larval Halibut *Estuaries and Coasts* 36:906-917 DOI: [10.1007/s12237-013-9612-5](https://doi.org/10.1007/s12237-013-9612-5)

Herzka SZ, Mellink E, Talley DM, Huxel GR and Dayton PK (2013). Stable isotope ratios of egg albumen of three waterbird species nesting in the Colorado River Delta indicate differences in foraging ground and isotopic niche breadth. *Aquatic Conservation: Freshwater and Marine Systems*. 23: 546–563. DOI: [10.1002/aqc.2326](https://doi.org/10.1002/aqc.2326)

López-Rasgado F, Herzka SZ, del Monte-Luna P, Serviere-Zaragoza S, Balart-Paez E, Lluch-Cota S (2012). Fish assemblages from three arid mangrove systems of the Gulf of California: contrasting observations from 1980 and 2010. *Bulletin of Marine Science*. 88:919-945. DOI: [10.5343/bms.2011.1111](https://doi.org/10.5343/bms.2011.1111)

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Martínez-Porchas M, Hernández-Rodríguez M, Herzka SZ and Gutierrez-Millán LE (2011). Evaluation of the physiological status of the Pacific sardine, *Sardinops sagax caeruleus*, acclimated to different thermal regimes based on blood parameters. *Environmental Biology of Fishes*. 91-39-49.

Francisco V and Herzka SZ (2010). Regulation of feeding mode by the sand dollar *Dendraster excentricus* in a shallow estuarine habitat. *Journal of Experimental Marine Biology and Ecology* 383-145-157. DOI: [10.1016/j.jembe.2009.11.016](https://doi.org/10.1016/j.jembe.2009.11.016)

López-Rasgado F and Herzka SZ (2009). Assessment of habitat quality for juvenile California halibut (*Paralichthys californicus*). *Fishery Bulletin*. 107:343-358. WOSUID: WOS:000268440700009

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Fodrie FJ and Herzka SZ (2008). Tracking juvenile fish movement and nursery contribution within arid coastal embayments via otolith microchemistry. *Marine Ecology Progress Series* 61:253-265. DOI: [10.3354/meps07390](https://doi.org/10.3354/meps07390)

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Fodrie FJ, Herzka SZ, Lucas AJ and Francisco V (2007). Intraspecific density regulates positioning and feeding mode selection of the sand dollar *Dendraster excentricus*. *Journal of Experimental Marine Biology and Ecology*. 340:169-183. DOI: [10.1016/j.jembe.2006.09.009](https://doi.org/10.1016/j.jembe.2006.09.009)

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Herzka SZ, Holt GJ and Holt SA (2002). Stable isotope ratios as tracers of migration during the early life stages of marine fishes. *Fisheries Science*. Vol. 68, No. 1, pp 182-185.

Herzka SZ, Holt SA and Holt GJ (2002). Characterization of settlement patterns of red drum (*Sciaenops ocellatus*) larvae to estuarine nursery habitat: a stable isotope approach. *Marine Ecology Progress Series*. 226:143-156. DOI: [10.3354/meps226143](https://doi.org/10.3354/meps226143)

Herzka SZ, Holt SA and Holt GJ (2001). Documenting the settlement history of individual fish larvae using stable isotope ratios: Model development and validation. *Journal of Experimental Marine Biology and Ecology*. 265:49-74. DOI: [10.1016/S0022-0981\(01\)00324-0](https://doi.org/10.1016/S0022-0981(01)00324-0)

Herzka SZ and Holt GJ (2000). Changes in isotopic composition of red drum (*Sciaenops ocellatus*) larvae in response to dietary shifts: Potential applications to settlement studies. *Canadian Journal of Fisheries and Aquatic Sciences*. 57:137-147. DOI: [10.1139/cjfas-57-1-137](https://doi.org/10.1139/cjfas-57-1-137)

Herzka SZ and Dunton KH (1998). Light and carbon balance in the seagrass *Thalassia testudinum*: Evaluation of current production models. *Marine Biology*. 132:711-721. DOI: [10.1007/s002270050435](https://doi.org/10.1007/s002270050435)

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Submitted manuscripts:

Ramírez-Mendoza Z, Sosa-Nishizaki O, Pardo MA, Sharon Z, Herzka, R. J. David Wells, Jay R. Rooker, Brett J. Falterman, Michael J. Dreyfus-León
Mesoscale features in the Gulf of Mexico drive the habitat suitability of yellowfin tuna: Seasonal and interannual predictions. *Submitted to ICES Journal of Marine Science*.

Gaona-Hernández A, Suárez-Morales E, Linacre L, Lara-Lara R, Compaire JC and SZ Herzka* Calanoid copepod community structure in two hydrographically contrasting regions of the Gulf of Mexico. *Submitted to Journal of Plankton Research*

Samperio-Ramos G, Vidal-Nieves C, García-Esquivel Z, Herzka S. Z., Sandoval-Gil J.M., Camacho-Ibar V.F. Environmental influence on feeding and biodeposition rates of Pacific oysters (*Crassostrea gigas*) throughout its culture cycle in a coastal lagoon with upwelling influence. *Submitted to Estuaries and Coasts*

Manuscripts in prep:

Miguel A. Martínez-Mercado, Clara M. Hereu, Aurora Gaona-Hernández, Anaid Saavedra-Flores, Javier-Robles-Flores, Eduardo Suárez-Morales, Clara E. Galindo-Sánchez, Sharon Z. Herzka: Multilocus metabarcoding reflects calanoid copepod diversity variations in tropical Gulf of Mexico. *Submitted to Journal of Plankton Research*.

Daudén-Bengoá G, Ordoñez, Uriel, Herzka S. Z. Relationship between oceanographic variables and fish larval abundance and distribution of two commercially important species (*Auxis* spp. and *Caranx crysos*) over the Yucatan shelf. *To be submitted to Estuarine, Coastal and Shelf Science*.

Romo-Curiel AE, Herzka SZ, López-Rasgado FJ, Pérez-Espinosa I, Sánchez-Cruz, AK, Gaona-Hernández A and Gallegos-Martínez ME. Seagrass landscape relative to fish assemblages in an extensive meadow of the southern Gulf of Mexico. *To be submitted to Estuaries and Coasts*.

Daudén-Bengoá G*, Compaire JC*, Echeverri-García LP, Jiménez-Rosenberg SPA, Herzka SZ. Larval fish assemblages and a Lagrangian dynamical geography of the Gulf of Mexico: Testing Miron's almost-invariant regions of attraction hypothesis.

Herzka SZ* and Nuche Pascual MT. Is C and N isotope turnover of amino acids a function of dietary protein and protein-to-energy ratios in marine fishes? *To be submitted to Scientific Reports*.

GUEST EDITOR

Research Topic for *Frontiers in Marine Science*. 'Novel Insights into the Circulation, Biogeochemistry, and Ecosystem Function of the Gulf of Mexico: A Perspective from Mexican Waters in Support of Oil Spill Preparedness' (2022).

Guest editors: M. Josefina Olascoaga (Univ. of Miami), Sharon Z. Herzka (CICESE), M. Leopoldina Aguirre-Macedo (CINEVSTAV) and Francisco Delgadillo-Hinojosa (IIO-UABC).

BOOK CHAPTERS (TRANSLATION IN BRACKETS)

Pérez-Brunius P and Aguirre-Macedo L (2020) Regiones, especies y ecosistemas vulnerables ante escenarios de derrames de gran escala en el golfo de México. [Regions, species and ecosystems vulnerable to large-scale spill scenarios in the Gulf of Mexico] Research Consortium for the Gulf of Mexico]. <https://escenarios.cigom.org/>. Four volumes collection.

Rocha-Olivares A, Compaire JC, Herzka SZ, y Pérez-Brunius P. (2020) Introducción. En: Pérez-Brunius, Compaire JC, García Carillo P. (Eds) *Regiones, especies y ecosistemas vulnerables ante derrames de petróleo de gran escala en el golfo de México Tomo III. Efectos de derrames de petróleo en la región de Perdido sobre la conectividad biológica del golfo de México. Consorcio de Investigación del Golfo de México (CIGOM)*. Pgs 9-14.

[Introduction, Volume III. Effects of oil spills in the Perdido region on the biological connectivity of the Gulf of Mexico].

Compaire HJC, Pérez-Brunius P, Rodríguez-Outerele J, Herzka SZ, Olascoaga MJ, Miron P, y Berón-Vera FJ. (2020) Capítulo 1. Posibles rutas de transporte larval entre regiones de la plataforma continental del golfo de México. En: Pérez-Brunius, Compaire JC, García Carillo P. (Eds) *Regiones, especies y ecosistemas vulnerables ante derrames de petróleo de gran escala en el golfo de México Tomo III. Efectos de derrames de petróleo en la región de Perdido sobre la conectividad biológica del golfo de México. Consorcio de Investigación del Golfo de México (CIGOM)*. Pgs 15-36.

[Chapter 1. Possible larval transport routes between regions of the continental shelf of the Gulf of Mexico.]

Compaire JC, Herzka SZ, Pérez-Brunius P, Jiménez- Rosenberg SPA, Rodríguez Outerele J, y Echeverri-García LP (2000) Capítulo 2. Larvas de peces como trazadores de transporte desde la plataforma continental hacia la zona profunda. En: Pérez-Brunius, Compaire JC, García Carillo P. (Eds) *Regiones, especies y ecosistemas vulnerables ante derrames de petróleo de gran escala en el golfo de México Tomo III. Efectos de derrames de petróleo en la región de Perdido sobre la conectividad biológica del golfo de México. Consorcio de Investigación del Golfo de México (CIGOM)*. Pgs 37-50.

[Chapter 2. Fish larvae as tracers of transport from the continental shelf to the deep-water region].

Rocha-Olivares A, Compaire JCC, Pérez-Brunius P, y Herzka SZ (2020) Sección 2. Efectos de derrames en el cinturón plegado Perdido sobre la conectividad biológica del golfo de México. En: Pérez-Brunius, Compaire JC, García Carillo P. (Eds) *Regiones, especies y ecosistemas vulnerables ante derrames de petróleo de gran escala en el golfo de México Tomo III. Efectos de derrames de petróleo en la región de Perdido sobre la conectividad biológica del golfo de México. Consorcio de Investigación del Golfo de México (CIGOM)*. Pgs 71-84.

[Section 2. Effects of spills in the Perdido fold belt region on the biological connectivity of the Gulf of Mexico.]

Compaire JC, Pérez-Brunius P, Herzka SZ, Rocha-Olivares (2020). Conclusiones generales y recomendaciones. *Consorcio de Investigación*

del En: Pérez-Brunius, Compaire JC, García Carillo P. (Eds) *Regiones, especies y ecosistemas vulnerables ante derrames de petróleo de gran escala en el golfo de México Tomo III. Efectos de derrames de petróleo en la región de Perdido sobre la conectividad biológica del golfo de México. Consorcio de Investigación del Golfo de México (CIGOM)*. Pgs 85-89.

[General conclusions and recommendations.]

OTHER PUBLICATIONS (TRANSLATION IN BRACKETS)

Supervisor/scientific editor of the Environmental Baseline Atlas for the Gulf of Mexico (an 11 volume collection), as well as volume editor of two volumes.
<https://atlascigom.cicese.mx>

- Introduction
- I. Meteorology
- II. Circulation and waves
- III. Part A: Hydrography, biogeochemistry and remote sensing: Part B: Communities
- IV. Hydrocarbons
- V. Contaminants and biomarkers
- VI. Seagrass ecosystems
- VII. Marine turtles
- VIII. Cetaceans
- IX. Large pelagic fish and sharks
- X. Bacteria

Collection:

Herzka, S.Z., Zaragoza Álvarez, R.A., Peters, E.M., y Hernández Cárdenas, G. (Coord. Gral.) (2021). *Atlas de línea base ambiental del Golfo de México*. México: Consorcio de Investigación del Golfo de México.

Volumes as editor:

Peters, E. M., Zaragoza Álvarez, R. A., Herzka, Sharon Z., y Herguera García, J. C. (Eds.) (2021). Introducción. En S. Z. Herzka, R. A. Zaragoza Álvarez, E. M. Peters y G. Hernández Cárdenas. (Coord. Gral.). *Atlas de línea base ambiental del golfo de México*, México: Consorcio de Investigación del Golfo de México.

[Introduction]

Herzka, Sharon Z. (Ed.) (2021). Comunidades marinas. En S. Z. Herzka, R. A. Zaragoza Álvarez, E. M. Peters y G. Hernández Cárdenas. (Coord. Gral.). *Atlas de línea base ambiental del golfo de México (tomo III, segunda parte)*, México: Consorcio de Investigación del Golfo de México.

[Marine Communities]

DIPLOMAS/CERTIFICATES:

Women Mentors in Science (2nd generation). March-November 2022. British Council. Program executed by Innova Consultancy, in coordination with Mexico's National Council for Science and Technology (CONACYT).

Network Leadership Workshop on Design, Skills and Approaches, Collective+Mind, May 2021

Women in Leadership Certificate Program, Cornell University 2018

Diploma in Senior Management of Public Research Centers, 3rd Edition. 120 hours Economic Research and Development Center (CIDE), Mexico City. September-December 2016

OCEANOGRAPHIC CRUISES:

XIXIMI-01	R/V Justo Sierra (UNAM), Participant
XIXIMI-02	R/V Justo Sierra (UNAM), Participant
XIXIMI-03	R/V Justo Sierra (UNAM), Chief Scientist
XIXIMI-04	R/V Justo Sierra (UNAM), Chief Scientist
DWDE-1	R/V Pelican (LUMCON) Participant
DWDE-2	R/V Pelican (LUMCON) Participant
XIXIMI-06	R/V Justo Sierra (UNAM), Chief Scientist
LBA050913	R/V Justo Sierra (UNAM), Chief Scientist
XIXIMI-07	R/V Justo Sierra (UNAM), Chief Scientist
PhytoEddyBloom:	R/C Pelican (LUMCON) Participant

FUNDED RESEARCH PROJECTS AS PI OR CO-PI:

Project: Gulf of Mexico Oceanographic and Meteorological Observation Group
POGO (Partnership for Observation of the Global Ocean)
Principal Investigator: Dr. Sharon Z Herzka
Dates: October 2022-November 2023
Amount funded: Euros 10,000

Project: Connectivity of large apex predators in the California Current Large Marine Ecosystem (CCLME) using natural geochemical tracers
Texas A&M-CONACYT Collaborative Research Grant Program
Principal Investigator: Dr. Sharon Z Herzka, Dr. David Wells
Dates: October 2016-March 2018
Amount funded: \$12,550 CICESE, \$11,200 TAMUG

Project: Oceanographic observation platforms, baseline, simulation models, and scenarios of natural response capacity to large-scale spills in the Gulf of Mexico.
Fondo CONACYT-SENER Hidrocarburos (No. 201441)
Principal Investigator: Dr. Juan Carlos Herguera
Dr. Sharon Herzka, Line of Action Coordinator 2 (Baseline and environmental monitoring)
Dates: March 2015 – March 2021
Amount funded: 1,547,000,000 MN (Approximately \$100,000,000 when approved)

As Coordinator of Working Group 2 (one of five) S. Herzka coordinated 9 subprojects executed by CICESE, CINVESTAV, ICML-UNAM and other national and international institutions collaborate with a budget of approximately 300 million pesos (15 million US). Responsible for coordinating a total of 19 cruises and 12 monitoring events in seagrass meadows off Yucatan and Campeche, from which an integrated and curated database of hydrographic, biogeochemical, hydrocarbon and biological data that holds over 11.5 million records.

Project: Carbon and nitrogen isotopic analyzes of amino acids in fish tissues to infer trophic relationships: Evaluation of the premises associated with their application
Ciencia básica CONACYT (000000000241789)
Dates: October 2015 – September 2018
Amount funded: 1,903,305 MN (ca. \$110,000)

Project: Phase III for environmental monitoring in deep waters of the Gulf of Mexico in response to the oil spill associated with the Deepwater Horizon platform
Instituto Nacional de Ecología, SEMARNAT Comisión Nacional para el Conocimiento de la Biodiversidad (CONABIO), Fondo para la Biodiversidad
Co-principal investigators: Sharon Z. Herzka, Juan Carlos Herguera, Alexei Licea, Julio Sheinbaum.
Dates: November 2012 – April 2014
Amount funded: 6,225,912 MN (ca. \$500,000)

Project: Phase II for the establishment of the deepwater baseline of the Gulf of Mexico in response to the oil spill associated with the Deepwater Horizon platform
Instituto Nacional de Ecología, SEMARNAT, Comisión Nacional para el Conocimiento de la Biodiversidad (CONABIO), Fondo para la Biodiversidad
Co-principal investigators: Sharon Z. Herzka, Juan Carlos Herguera, Alexei Licea, Julio Sheinbaum.
Dates: February 2012 – November 2012
Amount funded: 5,000,000 MN (ca. \$416,000)

Project: Establishment of a deep-water region baseline in the Gulf of Mexico in response to the oil spill associated with the Deepwater Horizon platform
Instituto Nacional de Ecología, SEMARNAT, Comisión Nacional para el Conocimiento de la Biodiversidad (CONABIO), Fondo para la Biodiversidad
Co-principal investigators: Sharon Z. Herzka, Juan Carlos Herguera, Alexei Licea, Julio Sheinbaum.
Dates: November 2010 – March 2012
Amount funded: 4,000,000 MN (ca. \$333,000)

Project: Establishment of a deep water region baseline in the Gulf of Mexico in response to the oil spill associated with the Deepwater Horizon platform
Fondo Institucional, CONACYT
Co-principal investigators: Sharon Z. Herzka, Juan Carlos Herguera, Alexei Licea, Julio Sheinbaum.
Dates: September 2010-December 2011
Amount funded: 8,000,000 MN (ca. \$666,000)

Basic Research Grants, SEP-CONACYT 2007

Project name: Evaluation of the natal origin, stock structure and migration of the Pacific sardine by means of isotopic analysis of the otoliths.

Collaborators: Manuel Nevárez-Martínez, Regional Center for Fisheries Research-INP Guaymas, Sonora; Paula Pérez-Brunius, Department of Physical Oceanography-CICESE Ensenada, Baja California; Casimiro Quiñónez-Válazquez, Interdisciplinary Center for Marine Sciences (CICIMAR) -IPN

Project number: 83575

Dates: Oct 2008-August 2012

Amount funded: 1,000,000 MN (ca. \$90,000)

Internacional Foundation for Science 2005

Project name: Evaluation of the relative contributions of estuarine and coastal nursery habitats to the production of late juvenile California halibut along the coast of Baja California, Mexico

Dates: 2006-2007

Amount funded: \$12,000

Convocatoria UC-Mexus CONACYT 2004

Project name: Evaluation of otolith microchemistry as a natural tracer of natal origin of *Sardinops sagax caeruleus*.

Sharon Z. Herzka (CICESE) and Dr. Paul Smith (SIO-UCSD) Co-PIs

Collaborators: Nevárez Martínez, Manuel, Vetter, Russell, Baumgartner, Timothy,

Número de proyecto: 7259

Dates: Agosto 2004-Diciembre 2005

Amount funded: \$25,000

Basic Research Grants, SEP-CONACYT 2002.

Project name: Recruitment of early juveniles of the California sole, *Paralichthys californicus*, to an estuarine system in Baja California.

Collaborators: Juan Pablo Lazo, Oscar Sosa-Nishizaki, G. Joan Holt

Número de proyecto: 39571

Vigencia: Marzo 2001-Septiembre 2006

Amount funded: 1,240,315.00 MN (ca. \$120,000)

SERVICE PROJECTS:

Responsible for Contract No. 640218852 CICESE-PEMEX "Environmental Baseline Study for the Exploration and Extraction of Hydrocarbons by PEP (PEMEX Exploration and Production), Second Stage." December 2018-July 2020. 64,383,412 MN (\$ 3,000,000)

Chief scientist, Oceanographic Cruise LBA050913. R/V Justo Sierra.

Technical reports presented to PEP

Herzka SZ (2019) Oceanographic cruise report for lease AC AS-CS13 in shallow waters of the southeast basin. 43 pgs

Herzka SZ (2019) Oceanographic cruise report for lease AC AP-P-G05 (-A and -B) in the deep waters of the Perdido fold belt. 33 pgs

Herzka SZ (2019) Oceanographic cruise report for lease AC AP-COM-G09 in the southeastern deep waters. 43 pgs

Environmental baseline study for lease AC 29-AS-CS13 in shallow waters of the the southeast basin.

Date: July 2019

734 pgs.

Environmental baseline study for lease AC AP-P-G05 (-A and -B) in the deep waters of the Perdido fold belt

Date: June 2019

642 pgs.

Environmental baseline study for lease AP-CM-G09 in the southeastern deep waters.

Date: June 2019

642 pgs.

SELECT PRESENTATIONS AND PUBLICATIONS FOR THE PUBLIC (2015-DATE):

Participated as part of the Editorial Committee of the Environmental Baseline Atlas of the Gulf of Mexico (Drs. Eduardo Peters (CICESE, CIGOM), Rigel Zaragoza (CICESE, CIGOM), MC Gilberto Hernández (UAM, CIGOM), Editor MC Raúl Marcó del Pont (UNAM), and Dr. Horacio de la Cueva (CICESE) in the preparation of a special issue of La Jornada Ecológica (national-level newspaper). Contributed two articles for the public. (https://issuu.com/lajornadaonline/docs/ecologica_250).

Peninsula BC 4 June 2021. <https://peninsulabc.com.mx/2021/06/para-cuidar-los-oceanos-debemos-pasar-a-propuestas-de-soluciones-cicese/>

Conversation: "It is for one, it is for all: Breaking glass ceilings in the sciences." March 31, 2021 Secretariat of Substantive Equality between Women and Men of Guadalajara, Jalisco.

Plenary invited talk to PEMEX. Environmental Baseline Atlas of the Gulf of Mexico. World Environment Day. Invited by Lic Adolfo Luis Cid Vázquez, Deputy Director, Deputy Director for Safety, Health at Work and Environmental Protection, within the framework of World Environment Day. June 4, 2021. Estimated attendance: 5,000

TEDx Ensenada, Sharon Z. Herzka. Science and the sea ... and the tragedy that changed everything (November 2019). <https://www.youtube.com/watch?v=ipliYGH6QwQ>

A Voice for Everyone Program, www.canalcatorce.tv. Public programing. Why in Mexico? Second timer.

<https://www.facebook.com/MalcaComunicacion101/photos/a.1586491364933042/1700325410216303/>

ECOAZUL program. www.canalcatorce.tv

Public Program - CIGOM: Science in favor of life.

<http://www.canalcatorce.tv/?c=Programas&p=704&a=Det&t=928&ci=6221&b=ciencia&m2=5>
[CIGOM program](#)

Panelist, Women in Science, A panel discussion to honor the International Women's Day.
https://www.youtube.com/watch?v=fEc_7CjwYnE

Women and girls in science. Radio program "A los 4 vientos" hosted by Javier Cruz on 92.9 FM station. March 2015

CONFERENCE PARTICIPATION (2015-DATE)

* STUDENTS DIRECTED BY SZ HERZKA. THE PRESENTER IS INDICATED IN BOLD

Event: *Latin America and Caribbean Fisheries Congress, American Fisheries Society*

Location and date: Cancun, Mexico, May15-18 2023 August 29-Sept 1 2022

Oral presentation: **Sharon Z. Herzka**

Inferring migration patterns of highly migratory fishes using compound-specific analysis of nitrogen

Event: *45th Annual Larval Fish Conference & 13th International Larval Biology Symposium*

Location and date: Scripps Institution of Oceanography, UCSD, San Diego, CA. August 29-Sept 1 2022

Oral presentation: **Gonzalo Daudén-Bengoa**, Javier Rodríguez-Outerele and Sharon Z. Herzka

Connectivity and larval dispersal of fish species with contrasting life histories in the deep-water region of the southern Gulf of Mexico

Event: *45th Annual Larval Fish Conference & 13th International Larval Biology Symposium*

Location and date: Scripps Institution of Oceanography, UCSD. August 29-Sept 1 2022

Poster presentation: **Miguel A. Martínez**, Sharon Z. Herzka, Sylvia PA Jiménez-Rosenberg, Jesús C. Compaire, Clara E. Galindo-Sánchez and Leticia Barbero

Increasing spawning ground knowledge for marine fishes through metabarcoding.

Event: *Ocean Sciences Meeting*

Location and date: Virtual, February 24-March 4 2022

Oral presentation: **Sharon Z Herzka**, OG Hernández-Sánchez*, VF Camacho-Ibar, L Barbero Isotopic measurements of zooplankton samples collected throughout the Gulf of Mexico basin reflect nitrogen sources

Event: *Ocean Sciences Meeting*

Location and date: Virtual, February 24-March 4 2022

Poster presentation: **Gonzalo Daudén-Bengoa***, Sharon Z Herzka, Silvia Jiménez Rosenberg, María Ana Fernández Alamo, Uriel Ordoñez López, Laura Echeverri García Distribution and abundance of ichthyoplankton species with contrasting life histories as a function of oceanographic variables in the deep water region of the southern Gulf of Mexico

Event: *International Ocean Data Conference – The Data We Need for the Ocean We Want - Intergovernmental Oceanographic Commission of UNESCO*

Location and date: Sopot, Poland and virtual, February 14-16 2022

Oral presentation: **Sharon Z Herzka**, Saúl Delgado-Rodríguez, Carmina Llamas, Paula Ramírez

Novel software for oceanographic cruise planning, execution and results database management

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **Cervantes Gabriela**, Hernandez-Ayon Jose Martin, Zirino Alberto, Herzka Sharon Z, Camacho-Ibar Victor F, Montes Ivonne, Sudre Joël, Delgado Juan.

A New Characterization of the Upper Waters of the central Gulf of México based on Water Mass Hydrographic and Biogeochemical Characteristics

Event: *Larval Fish Conference*

Location and date: Virtual, June 24-26 2021

Poster presentation: **Miguel A. Martínez**, Frank J. Hernández, Sharon Z. Herzka, Glenn Zapfe, Clara E. Galindo-Sánchez, Jesús C. Compairé, Sylvia PA Jiménez-Rosenberg, Leticia Barbero

Comparison of metabarcoding and morphological identification of neritic and oceanic fish larvae from the Gulf of Mexico

Event: *Isotopes in Ecology (ISOECOL)*

Location and date: Virtual, May 19-21 2021

Poster presentation: **Herzka Sharon Z**, Hernández-Sánchez Oscar Gabriel*, Le-Alvarado Meliza*, Camacho-Ibar Victor Froylan, Romo-Curiel Alfonsina, Sosa-Nishizaki Oscar, Barbero, Leticia

Isotopic measurements of zooplankton samples collected throughout the Gulf of Mexico basin reflect nutrient sources and lend insight into fish migration patterns

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **Cervantes Gabriela**, Hernandez-Ayon Jose Martin, Zirino Alberto, Herzka Sharon Z, Camacho-Ibar Victor F, Montes Ivonne, Sudre Joël, Delgado Juan.

A New Characterization of the Upper Waters of the central Gulf of México based on Water Mass Hydrographic and Biogeochemical Characteristics

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **Hernández-Ayón José Martín**, Delgado Juan, Cervantes Gabriela, Tanahara Sorayda, Montes Ivonne, Sudre Joël, Herzka Sharon Z, Camacho-Ibar Victor F.

Increase of Caribbean Water Incursion into the Gulf of Mexico: The Need in Biochemistry Studies of a New Characterization of the Upper Waters of the central Gulf of México

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **García Rodríguez Emiliano**, Herzka Sharon Z, Lowe Christopher G, Sosa-Nishizaki Oscar.

Stable isotope analysis of juvenile white sharks inside a nursery area reveal foraging in demersal-inshore habitats and trophic overlap with sympatric sharks

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **Hernández Oscar***, Herzka Sharon Z, Camacho-Ibar Victor F, Compaire Jesús C, Le-Alvarado Meliza*, Barbero Leticia

OB44A-03A gulf-wide isoscape of zooplankton $\delta^{15}\text{N}$ values reflects regional importance of NO_3 and N_2 fixation as sources of new N in the Gulf of Mexico

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **González-Rejón Joana** , Perez-Brunius Paula, Sheinbaum Julio and Herzka Sharon Z.

Surface Water Exchange Between the Continental Shelf and the Deepwater Region of the Gulf of Mexico

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **Amon Rainer M W**, Ochoa José, Candela Julio, Shienbaum Julio, Herguera Juan Carlos, Herzka Sharon Z, Perez-Brunius Paula, Hernández-Ayón José Martín, Camacho-Ibar Víctor F, Key Robert M.

Novel insights into deep ventilation of the Gulf of Mexico and its linkage to the Labrador Sea

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **Contreras-Pacheco Yéssica V**, Herguera Juan Carlos, Herzka Sharon Z, Bobadilla Doreny, Barradas Maria Reyna, Quintanilla Gerardo.

Elemental and isotopic composition of particular organic carbón and nitrogen in the Gulf of Mexico.

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **Daudén-Bengoa Gonzalo**, Echeverri-García Laura P, Jiménez-Rosenberg Sylvia PA, Herzka Sharon Z.

Characterizing the Potential Habitat of Ichthyoplankton in the Gulf of Mexico for Species with Contrasting Life Histories

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: **González- Rejón Joana**, Perez-Brunius Paula, Sheinbaum Julio, Herzka Sharon Z.

Surface Water Exchange Between the Continental Shelf and the Deepwater Region of the Gulf of Mexico.

Event: *Ocean Sciences Meeting*

Location and date: San Diego, California, 16-21 February 2020

Poster presentation: Compaire Jesús C, Jiménez-Rosenberg Sylvia PA, Rodríguez-Outereho Javier, Echeverri-García Laura P, Pérez-Brunius Paula, Herzka Sharon Z.

Connectivity Patterns of Coastal and Neritic Fish Larvae en Deep Waters in the Western Gulf of Mexico: How Ichthyoplankton Surveys Can Be Helpful to Evaluate the Reliability of the Velocity Fields Provided by the Circulation Models?

Event: *25th Biennial Conference. CERF 2019*

Location and date: Mobile, AL, November 2019

Presentación: **Romo Curiel Alfonsina Eugenia**, López Rasgado Francisco Javier, Herzka Sharon Z, Sanchez Cruz Aline Karen, Gallegos Martínez Margarita, & Pérez Espinosa I.

Seagrass landscape relative to fish assemblages in an extensive meadow, southern Gulf of Mexico.

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Puerto Vallarta, México, October 2019

Presentación: **García-Lucero Angeles B**, Sheinbaum-Pardo Julio, Parés-Sierra Alejandro F, Herzka-Llona Sharon Z.

Análisis de Sensibilidad de Derrames de Petróleo en el Golfo de México a Cambios en los Procesos Advectivos

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Puerto Vallarta, México, October 2019

Presentación: **Rojo-De Anda Georgina**, Pérez-Brunius Paula, López-Mariscal Juan Manuel, Herzka-Llona Sharon Z, Pallas-Sanz Enric.

Caracterización del Flujo a lo Largo de la Costa Oeste del Golfo de México

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Puerto Vallarta, México, October 2019

Presentación: **Herzka-Llona Sharon Z**, Delgadillo-Rodríguez Saúl, Ramírez-Preciado R Paola, Llamas-Valenzuela A Carmina, Combarro-Simón Manuel.

Línea Base Ambiental del Golfo de México del Proyecto CIGoM: Características, Diagnóstico y una Visión a Futuro.

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Puerto Vallarta, México, October 2019

Presentación: **González-Rejón Joana Julieta**, Pérez-Brunius Paula, Herzka-Llona Sharon Z, Sheinbaum-Pardo Julio.

Regionalización del Golfo de México con Base en Flujos de Agua Superficial entre la Plataforma Continental y la Región Profunda

Event: *III Taller de Arqueología e Isótopos en el Sur de Sudamérica*

Location and date: Iquique, Chile, September 2019

Presentación: **Fonseca-Ibarra Enah Montserrat**, Herzka-Llona Sharon Z, Téllez-Duarte Miguel A, Santa Rosa-Del Rio Miguel.

Oxygen Isotope Analysis Lend Insight into Shellfish Harvesting Patterns of Hunter-Gatherer-Fishers from Baja California, Mexico

Event: *70th Tuna Conference*

Location and date: Lake Arrowhead, California, Estados Unidos, May 2019

Presentación: **Le-Alvarado Meliza Lyn***, Herzka-Llona Sharon Z, Romo-Curiel Alfonsina E, Sosa-Nishizaki Oscar.

Trophic ecology of yellowfin tuna (*Thunnus albacares*) in the Gulf of Mexico inferred from stable isotope analysis and CSIA-AA.

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Mérida, México, April 2019

Presentación: **Cano-Compaire Jesus**, Jimenez-Rosenberg Sylvia P, Rodríguez-Outerelelo Javier, Pérez-Brunius Paula, Echeverri-García Laura Del Pilar, Herzka-Llona Sharon Z.

Conectividad ictioplanctónica a través de composición taxonómica y modelado numérico en la región de Perdido del Golfo de México

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Puerto Vallarta, México, October 2019

Presentación: **Gaona-Hernández Aurora***, Herzka-Llona Sharon Z, Suárez-Morales Eduardo, Lara-Lara José R, Ochoa-De La Torre José Luis, Linacre-Rojas Lorena P, Cano-Compaire Jesus.

Estructura de la comunidad de copépodos calanoides en función de condiciones oceanográficas: MMF-01 y 02.

Event: *ASLO Aquatic Sciences Meeting*

Location and date: San Juan, Puerto Rico, February 2019

Presentación: **Gasca-Pineda Jaime**, Galindo-Sánchez Clara Elizabeth, Arteaga-Uribe María Clara, Martínez M, Jimenez-Rosenberg Sylvia PA, Herzka-Llona Sharon Zinah, Nakamura Yosio.

Community structure and diversity of zooplankton in the Perdido región of the Golfo of Mexico, an approach with DNA metabarcoding.

Event: *ASLO Aquatic Sciences Meeting*

Location and date: San Juan, Puerto Rico, February 2019

Presentación: **Amon, Rainer MW**, Herguera-García Juan Carlos, Herzka-Llona Sharon Zinah, Sheinbaum-Pardo Julio, Ochoa-De La Torre José Luis, Candela-Pérez Julio, Pérez-Brunius Paula, Hernández-Ayón J. Martín, Camacho-Ibar Víctor.

Insights into the Deep circulation of the Gulf of Mexico and Northern Caribbean based on DIC radiocarbon depth profiles, hydrography and volume transport estimates.

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: November 2018, Puerto Vallarta, Jalisco

Poster presentation: **Aurora Gaona***, Cano Compañé Jesús, Jiménez Rosenberg Sylvia Patricia, Rodríguez Outerelo Javier, Pérez Brunius Paula, Del Pilar Echeverri Laura, & Herzka Sharon Z.

Caracterización de la estructura de la comunidad de copépodos calanoides del Golfo de México durante los cruceros oceanográficos Malla Fina.

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: November 2018, Puerto Vallarta, Jalisco

Poster presentation: **Hernández Sánchez Oscar Gabriel***, Camacho Ibar Víctor, Pérez Brunius Paula, Cano Compañé Jesús, Fernández Alamo María Ana, & Herzka Sharon Z.

Conectividad entre la plataforma continental y la zona oceánica onferida a partir de la composición isotópica del mesozooplancton.

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: November 2018, Puerto Vallarta, Jalisco

Oral presentation: **Sheinbaum Pardo** Julio, Herzka Sharon Z, Pérez Brunius Paula, Herguera García Juan Carlos, Licea Navarro Alexei Fedorovich, Ocampo Torres Francisco Javier, & Peters Recagno Eduardo M. CIGOM 2015-2020: An attempt of a progress report.

Event: *Reunión Anual 2018 Unión Geofísica Mexicana*

Location and date: November 2018, Puerto Vallarta, Jalisco

Oral presentation: **Amon Rainer**, Herguera García Juan Carlos, Herzka Sharon Z, Ochoa De La Torre José Luis, Sheinbaum Pardo Julio, Candela Pérez Julio, & Pérez Brunius Paula.

Insights into the deep circulation of the Gulf of Mexico based on based on new radiocarbon depth profiles, hydrography and volume transport estimates.

Event: *Reunión Anual 2018 Unión Geofísica Mexicana*

Location and date: November 2018, Puerto Vallarta, Jalisco

Oral presentation: **Cano Compairé Jesús**, Jiménez Rosenberg Sylvia Patricia, Rodríguez Outerelo Javier, Pérez Brunius Paula, Echeverri García Laura Del Pilar, and Herzka Sharon Z.

Composición de la comunidad de larvas de peces de taxones nerítico-costero en relación a procesos de transporte entre la plataforma continental y la zona de aguas profundas de la region de Perdido del Golfo de México.

Event: *Isotope Ecology Conference (ISOECOL)*

Location and date: Viña del Mar, Chile, July 2018

Oral presentation: **Nuche Pascual María Teresa***, Herzka Sharon Z, Lazo Corvera Juan Pablo, & Ruiz Cooley Rocío.

Amino Acid-specific $\delta^{15}\text{N}$ Trophic Enrichment Factor in Fish Fed with Formulated Diets Varying in Protein Quantity and Quality.

Event: *Isotope Ecology Conference (ISOECOL)*

Location and date: Viña del Mar, Chile, July 2018

Poster presentation: Herzka Sharon Z, Nuche Pascual María Teresa* & Ruiz Cooley Rocío
Is C and N isotope turnover of amino acids a function of dietary protein and protein to energy ratios in marine fishes?

Event: *Ocean Sciences Meeting*

Location and date: Portland, OR, EUA. February 2018

Poster presentation: **Nuche Pascual María Teresa***, Herzka Sharon Z, Lazo Corvera Juan Pablo, & Ruiz Cooley Rocío I.

Amino Acid-specific $\delta^{15}\text{N}$ Trophic Enrichment Factor in Fish Fed with Formulated Diets Varying in Protein Quantity and Quality.

Event: *Ocean Sciences Meeting*

Location and date: Portland, OR, EUA. February 2018

Oral presentation: **Herzka Sharon Z**, Jiménez Rosenberg Sylvia Patricia A., Daudén Bengoa Gonzalo, Cano Compairé Jesus, Pérez Brunius Paula, & Sheinbaum Pardo Julio (2018, February).

Does a Lagrangian-Based Dynamic Geography of the Gulf of Mexico's Deepwater Region Match the Larval Fish Assemblage Structure?

Event: *Ocean Sciences Meeting*

Location and date: Portland, OR, EUA. February 2018

Oral presentation: **Mohan John A**, Miller Nathan, Herzka Sharon Z, Sosa Nishizaki Oscar, Kohin S., Dewar Heidi, Kinney Micheal, & Wells David.

Elemental patterns in shark vertebrae reflect age and upwelling histories.

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Puerto Vallarta, Jalisco, October 2017

Poster presentation: **Romo Curiel Alfonsina Eugenia**, López Rasgado Francisco Javier, Sanchez Cruz Aline Karen, Herzka Sharon Z, & Gallegos Martínez Margarita.

Comunidades de peces óseos juveniles asociadas a las praderas de pastos marinos de la península de Yucatán: uso de hábitat esencial.

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Puerto Vallarta, Jalisco, October 2017

Oral presentation: Ramírez Preciado Rosa Paola, **Delgadillo Rodríguez Saúl**, Juárez Jiménez July Antonio, Velázquez Sánchez Ana Karen, Michán Aguirre Layla, Sánchez Torres Tonatiuh Rafael, Licea Navarro Alexei Fedorovich, & Herzka Sharon Z.

Desarrollo e implementación de un Sistema de Información Integral para las Líneas de Acción 2 y 4 del Consorcio de Investigación del Golfo de México (CIGOM)

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Puerto Vallarta, Jalisco, October 2017

Oral presentation: **Cano Compairé Jesus**, Pérez-Brunius Paula, Jiménez-Rosenberg Sylvia Patricia A., Echeverri-García Laura Del Pilar, Rodríguez-Outereño Javier, Domínguez-Guadarrama Alejandro, & Herzka, Sharon Zinah.

Distribución especial, abundancia y conectividad del ictioplancton entre el talud continental y la zona de aguas profundas de la región de Perdido del Golfo de México.

Event: *Reunión Anual Unión Geofísica Mexicana*

Location and date: Puerto Vallarta, Jalisco, October 2017

Oral presentation: **Daudén-Bengoa Gonzalo***, Herzka, Sharon Zinah, Echeverri-García Laura Del Pilar, Jiménez-Rosenberg Sylvia Patricia A., Cano-Compairé Jesus, & Domínguez-Guadarrama Alejandro.

Relación entre las asociaciones de larvas de peces y las condiciones oceanográficas en la región de aguas profundas del golfo de México

Event: *Society for Marine Mammalogy 22nd Biennial Conference*

Location and date: , Halifax, Canadá, October 2017

Oral presentation: **Juárez-Rodríguez Maricela**, Heckel-Dziendzielewski Gisela, Herguera-García Juan Carlos, Elorriaga-Verplancken Fernando R., Herzka, Sharon Zinah, & Schramm-Urrutia Yolanda,

Trophic ecology of Pacific harbor seals (*Phoca vitulina richardii*) in Mexican colonies: an approach based on carbon and nitrogen stable isotopes.

Event: *Coastal and Estuarine Research Federation 24th Biennial Conference*

Location and date: Providence, Rhode Island, EUA, November 2017

Oral presentation: **Herzka, Sharon Zinah**, Erauskin-Extramiana Maite*, Aburto-Oropeza Octavio, Hinojosa-Arando Gustavo, & Cota-Nieto Juan José.

Interdisciplinary evaluation of the status of large-bodied serranid populations off the southern Baja California peninsula.

Event: *VI Congreso Mexicano de Ecología*

Location and date: León, México, July 2017

Poster presentation **Juárez-Rodríguez Maricela**, Heckel-Dziendzielewski Gisela, Herguera-García Juan Carlos, Elorriaga-Verplancken Fernando R., Herzka, Sharon Zinah, & Schramm-Urrutia Yolanda.

Ecología trófica de la foca de puerto del Pacífico (*Phoca vitulina richardii*) en México mediante el análisis de isótopos estables.

Event: *XXIII International Meeting of the Mexican Society of Planktology.*

Location and date: Mérida, México, June 2017

Oral presentation: **Galindo Sánchez Clara Elizabeth**, Morales Pulido José Manuel, Jiménez Rosenberg Sylvia Patricia A., Ordoñez Guillén Fátima Edith, Batta Lona Paola Gabriela, Arteaga Uribe María Clara, & Herzka Sharon Z.

Identificación Morfológica y Molecular de larvas de peces del género *Sparisoma* del golfo de México.

Event: *V Simposio RECORECOS*

Location and date: Chetumal, México, May 2017

Oral presentation: **Romo-Curiel Alfonsina** Eugenia, López-Rasgado Francisco Javier, Sanchez-Cruz Aline Karen, Herzka, Sharon Zinah, & Gallegos-Martínez Margarita.

Praderas de pastos marinos de la península de Yucatán como hábitat esencial para peces óseos juveniles.

Event: *Reunión Anual 2016 UGM*

Location and date: October 2016, Puerto Vallarta, Jalisco

Oral presentation: **Herzka, Sharon Zinah**, Jiménez Rosenberg Sylvia Patricia A., Echeverri García Laura Del Pilar, Cano Comparé Jesus, & Ferreira Bartrina Vicente

Relación entre la abundancia de larvas de peces y condiciones oceanográficas en la zona de aguas profundas del sur del golfo de México

Event: *XV Congreso Nacional / V Simposio Latinoamericano Simposio Internacional de Genómica de Peces*

Location and date: November 2016, Aguascalientes

Poster presentation: **Sanchez Cruz Aline Karen**, Romo Curiel Alfonsina Eugenia, Herzka Sharon Z, & Gallegos Martínez Margarita

Distribución y abundancia de peces óseos juveniles en la vegetación acuática sumergida de la reserva de la biósfera Los Petenes, Campeche

Event: *Gordon Research Conference on Cellular and Molecular Fungal Biology*

Location and date: June 2016, Plymouth, New Hampshire

Poster presentation: **Vargas Gastélum Lluvia Beatriz**, Romero Olivares Adriana Lucía, Catalán Dibene Jovani, Rocha Olivares Axayácatl, Brizuela Rodríguez Carlos Alberto, Herzka Sharon Z, Escalante Hernández Ana Elena, & Riquelme Pérez Meritxell

Unraveling fungal diversity of deep-sea sediments from the Gulf of Mexico

Event: *51st European Biology Symposium*

Location and date: September 2016, Rhodes, Grecia

Oral presentation: **Erauskin Extramiana Maite**, Herzka Sharon Z, Aburto Oropeza Octavio, Hinojosa Arango Gustavo, & Cota Nieto Juan José

Are large-bodied serranid populations decreasing in the Pacific coast of the southern California Peninsula?

Event: *40th Annual Larval Fish Conference*

Location and date: June 2016, Solomons, MD, EUA

Poster presentation: **Echeverri García Laura Del Pilar**, Herzka Sharon Z, Jiménez Rosenberg Sylvia Patricia A., Pérez Brunius Paula, & Ferreira Bartrina Vicente

Variation in Larval Fish Assemblages in Relation to Mesoscale Structures in the Deepwater Region of the Southern Gulf of Mexico

Event: *40th Annual Larval Fish Conference*

Location and date: June 2016, Solomons, MD, EUA

Oral presentation: **Jiménez Rosenberg Sylvia Patricia A.**, Herzka Sharon Z, Echeverri García Laura Del Pilar, & Ferreira Bartrina Vicente

Larval Abundances in the Deepwater Region of the Southern Gulf of Mexico Relative to Oceanographic Conditions

Event: *Gulf of Mexico Oil Spill and Ecosystem Science Conference*

Location and date: Houston, Texas, 16-19 February 2015

Poster presentation: **Sharon Z. Herzka**, Juan Carlos Herguera and Diego López-Veneroni
Temporal and spatial variation in the carbon and nitrogen isotope ratios of mesozooplankton in the central Gulf of Mexico

Event: *Gulf of Mexico Oil Spill and Ecosystem Science Conference*

Location and date: Houston, Texas, 16-19 February 2015

Oral presentation: **Laura del Pilar Echeverri García**, Sharon Z. Herzka, Paula Pérez Brunius, Vicente Ferreira Bartrina, Sylvia Patricia A. Jiménez Rosenberg
Larval fish assemblages associated with mesoscale structures of the deep water region of Mexico's EEZ: a post-oil spill baseline study

Event: *Biennial Conference of Coastal and Estuarine Research Federation*

Location and date: 8-12 November 2015, Portland, Oregon

Oral presentation: **López-Rasgado, Francisco J.** Herzka Sharon Z, Balart Eduardo F, Lluch-Cota Salvador E.

Variation in isotopic niche and fish diversity in mangroves with different levels of habitat modification

Event: *Biennial Conference of Coastal and Estuarine Research Federation*

Location and date: 8-12 November 2015, Portland, Oregon

Oral presentation: **Hernández-López J.**, V. F. Camacho-Ibar, S. Z. Herzka, J. Sandoval-Gil and F. Delgadillo-Hinojosa

Carbon and nitrogen isotopic composition variability of *Zostera marina* and *Ulva* in a coastal lagoon

RECENT SEMINARS BY INVITATION

- 2022 Texas A&M University Corpus Christy. Insight into the deep-water region of the Gulf of Mexico: a perspective from Mexican Waters (2 June)
- 2022 University of Texas Marine Science Institute. Bulk and compound-specific stable isotope analysis-based insights into the Gulf of Mexico's fish ecology, marine biogeochemistry and oceanography. (4 April)
- 2022 University of Alabama (virtual). Insight into the deep-water region of the Gulf of Mexico: a perspective from Mexican Waters. (1 April)
- 2022 SUT-TAMU Gulf of Mexico Marine Observations, Research and Technology Panel. *Contributions of the Research Consortium for the Gulf of Mexico (CIGOM), Mexico* (24 February)
- 2022 Texas A&M University Galveston, Marine Biology Department. Insight into the deep-water region of the Gulf of Mexico: a perspective from Mexican Waters (11 November)

- 2021 University of Texas Marine Science Institute. Insight into the deep water region of the Gulf of Mexico: A perspective from Mexican waters. (24 September)
- 2021 Universidad de las Américas, Puebla. XVIII Congreso Nacional de Ciencias Químicas y Biológicas. Vida a la deriva: Lo que las larvas de peces nos dicen sobre la circulación del golfo de México (What fish larvae tell us about the Gulf of Mexico's circulation). (18 March).

SCIENTIFIC SOCIETY MEMBERSHIPS

Estuarine Research Federation
California Estuarine Research Society
Unión Geofísica Mexicana
American Ecological Society
Association for the Sciences of Limnology and Oceanography

JOURNAL REVIEWER

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Canadian Journal of Zoology
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Coral Reefs
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