

Curriculum Vitae

Personal Information

Name: **Evelia Rivera-Arriaga, PhD**

Work Address: Institute of Ecology, Fisheries and Oceanography of the Gulf of Mexico (EPOMEX), Autonomous University of Campeche, Campus VI, Av. Héroe de Nacozari, 466, Campeche, Cam., 24062, México

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SNI Level II

Perfil PRODEP

Current job: Senior Professor and Researcher at the Institute EPOMEX, Autonomous University of Campeche

Commissions:

- Member of the Advisory Panel of Elsevier
- Former President of the Scientific-Policy Advisory Committee of the Inter-American Institute for the Research of Global Change (2017-2023)
- Lead Author, Chapter 6 of the Special Report on Oceans and Cryosphere, IPCC (2017-2019)
- Member of the GOF Policy Advisory Board of the Global Forum of Oceans, Coasts, and Islands (from 2021 to date)
- National focal point of the IBERMAR Network on Coastal Management (from 2023 to date)
- National coordinator of the International Network of Coasts and Seas, RICOMAR (from 2007 to date)
- Member of Honor of the Stephen Olsen Chair on Coastal Management (from 2022 to date)
- Member of the CND of the PPD/UNDP (from 2024 to date)
- Member of the Mexican Committee of the Oceanic Sciences Decade (from 2024 to date)

Work Experience

- May 1990-present. Professor and Researcher at the Institute of Ecology, Fisheries, and Oceanography of the Gulf of Mexico (EPOMEX), University of Campeche, Mexico
- 10/1997-07/2001 Assistant Researcher at the Center for the Study of Marine Policy, in the College for Marine Studies, University of Delaware
- July-Sep 2008. Midterm evaluation of the National Coastal Resources Management Program (1531/OC-EC). Requested by the Environmental Ministry of Ecuador and the Inter-American Development Bank
- Nov-Dec 2008. Midterm evaluation of the Project ATN/ME 9410-EC. Desarrollo sostenible de los sectores productivos en Galápagos". Requested by the Regional Chamber of Tourism of Santa Cruz, Galápagos, and the Inter-American Development Bank
- Sep/2009-Sep/2015. Minister of the Environment of the Government of the State of Campeche, Mexico
- Sep/2015-December/2016. National Coordinator of the 6th national communication of climate change for the UNFCCC, UNDP-Mexico with the National Institute of Ecology and Climate Change, Semarnat, federal government of Mexico

Education and Training

1983-1987. Bachelor's degree in biology
National University of Mexico (UNAM)
Biology and Ecology of coastal and marine ecosystems
Ecology of mangroves and seagrass beds
Modelling of marine ecosystems using Ecopath

1997-2002. Master and PhD in Marine Policy
University of Delaware, USA
Marine policy
Integrated coastal zone management
Sustainable development and governance of coastal zones and climate change
International affairs for oceans and coasts

Communication skills: Good communication skills gained through my experience in writing publications and giving lectures at various universities and conferences. Proficiency use of data management with Excel and Google sheets through Gemini

Languages:

English: Advanced

French: Advanced

Organisational skills

- Leadership in numerous research projects related to marine and coastal management (30 years of experience)
- -Leadership in coordinating interinstitutional ocean and coastal governance (i.e. within the project of the Gulf of Mexico as a large marine ecosystem)
- -Leadership in developing, implementing, and conducting environmental policies and projects for the State of Campeche, Mexico (as the former Ministry of Environment, 2009-2015)
- Leadership in coordinating the 8 State Ministers of the Environment of the Southern regions of Mexico
- -Leadership in coordinating the 6th National Communication on Climate Change for the UNFCCC (2015-2016)
- Leadership in coordinating the International Network for Oceans and Coasts RICOMAR

Research, analysis and integration skills

- Good capacity for research, analysis, and integration of information to promote policies and programs tackling political, environmental, and socioeconomic issues through an integrated proposal for the coastal and marine zones (i.e. The Climate Change Plan for Campeche State; and the Integrated Coastal Zone Management Plan for the Campeche Bay)
- Good capacity for research analysis and evaluation of coastal zone management programs in Ecuador (2008) and in the Galapagos Islands (2008)
- Good capacity for research, analysis, and integration of information for co-editing books about the “Coastal Management in Mexico” (2004); “Cambio climático en México: un enfoque costero y marino” (2010); “Special Report on Oceans and Chryosphere in a Changing Climate” IPCC (2019); “Gobernanza y manejo de las costas y mares ante la incertidumbre. Una guía para tomadores de decisiones” (2020); “La Década del Océano en México 2021-2030: la ciencia que necesitamos” (2023).

Teaching Experience

Diploma, Bachelor and Graduate courses on Integrated coastal zone management and marine policy for the last 20 years; Environmental legal framework; Conservation management; Governance of socio-ecological coastal systems; Governance for coastal SES: adaptation to climate change; International and national legal framework for climate change.

Publications (from 2019 to 2024)

Books

- 2020. Gobernanza y manejo de las costas y mares ante la incertidumbre. Una guía para tomadores de decisiones. E. Rivera-Arriaga, I. Azuz-Adeath, A. Espinoza, A. Ortega Rubio, R. Silva-Casarín, A. Vazquez-Botello, E. Vega-Serratos y O. Cervantes, (Eds.), Universidad Autónoma de Campeche, RICOMAR, 894 p. ISBN 978-607-8444-58-8 DOI 10.26359/epomex.0120
- 2023. La Década del Océano en México 2021-2030: la ciencia que necesitamos. E. Rivera-Arriaga e Isaac A. Azuz Adeath (Eds) Universidad Autónoma de Campeche, RICOMAR, Instituto Interamericano para la Investigación del Cambio Global. ISBN 978-607-8907-12-0; DOI 10.26359/EPOMEX012023

Book Chapters

- 2019. Extremes, Abrupt changes and managing risks, Collins M., M. Sutherland, L. Bouwer, S.-M. Cheong, T. Frölicher, H. Jacot Des Combes, M. Koll Roxy, I. Losada, K. McInnes, B. Ratter, E. Rivera-Arriaga, R.D. Susanto, D. Swingedouw, and L. Tibig, 2019: Extremes, Abrupt Changes and Managing Risk. In: IPCC Special Report on the Ocean and Cryosphere in a Changing Climate [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)].
- 2019. El reto de la gobernanza para el Objetivo de Desarrollo Sostenible 14. P321-334. In: E. Rivera-Arriaga, P. Sánchez-Gil y J. A. Gutiérrez-Lara (Eds.). *Temas de agenda en la sostenibilidad de las costas y mares mexicanos*. Universidad Autónoma de Campeche, Red RICOMAR, 334 p. ISBN 978-607-8444-57-1. DOI: 10.26359/epomex.0519
- 2019. Zonas Costeras, I.J. Losada, M. Gómez-Erache, C. Lacambra E. Rivera-Arriaga, R. Silva y A. Toimil. Cap. 14 p 573-615. Losada, I.J., M. Gómez-Erache, C. Lacambra, E. Rivera, R. Silva y A. Toimil, 2020: Zonas costeras. En: *Adaptación frente a los riesgos del cambio climático en los países RIOCC – Informe RIOCCADAPT*. [J.M. Moreno, C. Laguna-Defior, V. Barros, E. Calvo Buendía, J.A. Marengo y U. Oswald Spring (eds.)], McGraw Hill, Madrid, España, ISBN 9788448621643, p 782.
- 2020. Diseño de la gobernanza costera. E. Rivera-Arriaga y L. E. Vidal Hernández. P. 3-26. In: E. Rivera-Arriaga, I. Azuz-Adeath, A. Espinoza, A. Ortega Rubio, R. Silva-Casarín, A. Vazquez-Botello, E. Vega-Serratos y O. Cervantes, (Eds.) *Gobernanza y manejo de las costas y mares ante la incertidumbre. Una guía para tomadores de decisiones*, Universidad Autónoma de Campeche, Red RICOMAR, 894 p. ISBN 978-607-8444-58-8 DOI 10.26359/epomex.0120
- 2020. La evaluación gubernamental en México, hacia la planeación y gestión integrada de la zona costera. M. García Chavarría, G. Enriquez, E. Rivera-Arriaga. P. 26-46. In: E. Rivera-Arriaga, I. Azuz-Adeath, A. Espinoza, A. Ortega Rubio, R. Silva-Casarín, A. Vazquez-Botello, E. Vega-Serratos y O. Cervantes, (Eds.) *Gobernanza y manejo de las costas y mares ante la incertidumbre. Una guía para tomadores de decisiones*, Universidad Autónoma de Campeche, Red RICOMAR, 894 p. ISBN 978-607-8444-58-8 DOI 10.26359/epomex.0120
- 2020. A socioeconomic assessment for creating successful resource management policies for protecting the Champotón River in Campeche. L.A. Williams-Beck and E. Rivera-Arriaga. Chap. 30: 603-625 In: Ortega Rubio, A. (ed.) *Socio-Ecological studies in Mexican natural protected areas. Linking local communities development with biodiversity conservation*. SPRINGER ISBN 978-3-030-47263-4 doi: https://doi.org/10.1007/978-3-030-47264-1_30
- 2022. Extremes, Abrupt changes and managing risks, Collins M., M. Sutherland, L. Bouwer, S.-M. Cheong, T. Frölicher, H. Jacot Des Combes, M. Koll Roxy, I. Losada, K. McInnes, B. Ratter, E. Rivera-Arriaga, R.D. Susanto, D. Swingedouw, and L. Tibig, 589-655 p. Chap. 6. In: IPCC Special Report on the Ocean and Cryosphere in a Changing Climate [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. ISBN 978113919877 Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 589-655. <https://doi.org/10.1017/9781009157964.008>.
- Complete Final Report https://www.ipcc.ch/site/assets/uploads/sites/3/2019/12/SROCC_FullReport_FINAL.pdf
- 2022. Cross-Chapter Box 3: Governance of the Ocean; Coasts and the Cryosphere under Climate Change, Anjal Prakash, Sandra Cassotta, J Hinkel, E Holland, S Karim, B Orlove, B Ratter, J Rice, E Rivera-Arriaga, C Sutherland. In: [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. ISBN 978113919877 Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 95-99.
- 2023. Risk management of extreme precipitation: building resilience. E. Rivera-Arriaga, R. Silva Casarín, C.J. Cruz, I. Azuz Adeath, B.E. Vega-Serratos, G. Pozada Vanegas, Chapter 12: 273-302 In: S. Eslamian y F. Eslamian (eds.) *Handbook of Disaster Risk Reduction for Resilience*. Springer, Cham. https://doi.org/10.1007/978-3-031-22112-5_12
- 2023. Mitigación y adaptación al cambio climático. E. Rivera-Arriaga, I. Azuz-Adeath y A.C. Peña Puch, Cap. 9: 279-308, In: Rivera-Arriaga, E. Azuz-Adeath, I. (eds.) 2023. *La Década del Océano en México 2021-2030: La Ciencia que Necesitamos*. RICOMAR, Universidad Autónoma de Campeche, Instituto Interamericano para la Investigación del Cambio Global. 474 p. doi 10.26359/EPOMEX01202309
- 2023. Comunidades costeras y gobernanza. I. Azuz-Adeath, E. Rivera-Arriaga y L. Vidal Hernández, Cap. 10: 309-330, In: Rivera-Arriaga, E. Azuz-Adeath, I. (eds.) 2023. *La Década del Océano en México 2021-2030: La Ciencia que Necesitamos*. RICOMAR, Universidad Autónoma de Campeche, Instituto Interamericano para la Investigación del Cambio Global. 474 p. doi 10.26359/EPOMEX01202310

- 2024. Implementación de los ODS 13 y ODS 14 en la Educación Superior: el caso del Instituto EPOMEX de la Universidad Autónoma de Campeche" E. Rivera-Arriaga, A.C. Peña-Puch y Maurilio Lara-Flores, Cap. 2: 45-74 p. En: Dr. Adrián Alberto Reyes Vázquez y Dr. Omar David Jiménez Ojeda (Coords.). Educación Superior con Responsabilidad Social hacia un Futuro Próximo, 426 p., bajo la coordinación del Consejo Regional Sureste de la ANUIES, ISBN: 978-607-561-284-3

Scientific Papers

- 2019. Implementing the SDG14 in Mexico: diagnosis and ways forward. E. Rivera-Arriaga and I.A. Azuz Adeath; Revista Costas 1(1): 221-244 doi: 10.26359.costas.0112 ISSN: 23040963
- 2020. Global review of IZCM in Mexico, Evelia Rivera-Arriaga, Ileana Espejel Carbajal, Francisco Gutiérrez-Mendieta, Laura Elena Vidal-Hernández, Alejandro Espinoza-Tenorio, Juan Carlos Nava-Flores, Maricarmen García-Chavarría y Atahualpa Sosa López; Revista COSTAS UNESCO/IBERMAR vol. Esp. 1:133-154. ISSN: 23040963 doi: 10.26359/costas.e107
- 2020. Building resilience to abrupt climate change effects in San Francisco de Campeche, Mexico. E. Rivera-Arriaga, B.E. Vega-Serratos, G. Posada Vanegas and E.A. Mangas Che; Revista Atmósfera, UNAM, 33(22): 159-174 ISSN 0187-6236 DOI: 10.20937/ATM.52650
- 2021. Crafting grassroots' socio-environmental governance for a coastal Biosphere rural community in Campeche, Mexico, E. Rivera-Arriaga, L. Williams-Beck L.E. Vidal, and M.E. Arjona García, Jour. Ocean & Coastal Management, vol. 204, ISSN: 09645691 Doi: <https://doi.org/10.1016/j.ocecoaman.2021.105518>
- 2021. Adaptive governance in the Peninsula de Yucatan coasts facing COVID-19, C. Pedroza-Gutiérrez, L. Vidal-Hernández, y E. Rivera-Arriaga Jour. Ocean & Coastal Management, vol. 212 ISSN: 09645691. <https://doi.org/10.1016/j.ocecoaman.2021.105814>
- 2021. Fiscal economic instruments for the management of natural resources in coastal marine areas of the Yucatan Peninsula. Vidal-Hernández Laura, de Yta-Castillo Diana, Castellanos-Basto Blanca, Marco Suárez-Castro y Evelia Rivera-Arriaga. Sustainability Jour. 13(19), 11103. ISSN 2071-1050; <https://doi.org/10.3390/su131911103>
- 2021. Análisis de la propuesta de modificación legal de la Zona Federal Marítimo Terrestre de México. Evelia Rivera-Arriaga, Isaac A. Azuz-Adeath y Salomón Díaz Mondragón, Rev. COSTAS 3(1): 91-110. ISSN: 23040963. Doi: 10.25267/Costas.2021.v2.i3.0403
- 2021. La marginación en los municipios costeros de México en 2020. I. Azuz Adeath y E. Rivera-Arriaga, Rev. COSTAS. 2(1): 39-60 ISSN: 23040963. Doi: 10.25267/Costas.2021. v2.i3.0203
- 2021. Determinación de la capacidad institucional de México para cumplir los compromisos internacionales ante el cambio climático en materia de océanos y costas. Maricarmen García Chavarría, Evelia Rivera-Arriaga, Atahualpa Sosa López, y Beatriz E. Vega Serratos. Rev. COSTAS 2(1): 253-288. ISSN: 23040963. Doi: doi.org/10.25267/Costas.2021. v2.i3.1103
- 2021. Climate change in Latin America and the Caribbean: the perception of policy makers and the urgent need to translate science into action. Mônica M C Muelbert, Margareth Copertino, Leticia Cotrim da Cunha, Mirtha N. Lewis, Andrei Polejack, Angelina del C. Peña Puch, y Evelia Rivera-Arriaga. Frontiers in Climate. ISSN 2624-9553 <https://doi.org/10.3389/fclim.2021.748344>
- 2022. IPCC, Summary for Policy Makers. [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, E. Poloczanska, K. Mintenbeck, M. Tignor, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. In: IPCC Special Report on the Ocean and Cryosphere in a Changing Climate [H.- O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 39–69. ISBN 978-0-521-77572-4 <https://doi.org/10.1017/9781009157964.002>
- Final Summary https://www.ipcc.ch/site/assets/uploads/sites/3/2022/03/01_SROCC_SPM_FINAL.pdf
- 2022. Risk management and adaptation for extremes and abrupt changes in climate and oceans: current knowledge gaps. Laurens M. Bouwer, So-Min Cheong, Hélène Jacot Des Combes, Thomas Frölicher, Kathleen McInnes, Beate Ratter, Evelia Rivera-Arriaga. Frontiers in Climate. ISSN 2624-9553 doi: 10.3389/fclim.2021.785641
- 2023. Exploring governance challenges in coastal communities through key informant perceptions in Campeche, Mexico. A. del C. Peña Puch, E. Rivera-Arriaga y L. Williams-Beck. Jour. Ocean & Coastal Management, vol. 242 ISSN: 09645691 <https://doi.org/10.1016/j.ocecoaman.2023.106722>
- 2024. Coastal management: a review of key elements for vulnerability assessment. Cruz-Ramírez, C.J.; Chávez, V.; Silva, R.; Muñoz-Perez, J.J.; Rivera-Arriaga, E. Jour. Of Marine Science and Engineering, MDPI, vol. 12, Issue 2, (Feb) 366 ISSN 2077-1312, <https://doi.org/10.3390/jmse12030386>
- 2024. Análisis del Manejo Costero Integrado en Cuba. K. A. Aké Turriza y E. Rivera Arriaga, Rev. Jaina Costas y Mares ante el cambio climático, vol especial 1, p. 83-96. ISSN :0188-4700. doi 10.26359/52462.0824

- 2024. Análisis del Manejo Costero Integrado en Haití. K. A. Aké Turriza y E. Rivera Arriaga, Rev. Jaina Costas y Mares ante el cambio climático, vol especial 1, p. 97-106. ISSN :0188-4700. doi 10.26359/52462.0924
- 2024. Sustainability of Gulf of Mexico Coastal Estuaries and Lagoons: Interactions with Hydrocarbon Production—A Review with a Look to the Future. John W. Day, Evelia Rivera-Arriaga, Angelina del Carmen Peña-Puch and Rachael G. Hunter. Sustainability, vol. 16, 8601, Special Issue "Sustainable Coastal and Estuary Management" <https://doi.org/10.3390/su16198601>
- 2024. Ek León, J.L., Manzanero Vázquez, L.D., Méndez Ortiz S.Y., Noh Ortega D.A., Oropeza Ávila I., Patrón Cach A.J., Rodríguez Guerrero O.B., Sánchez Zapata Y.A., Sosa Pech A.A., Rivera-Arriaga E., Peña-Puch A.C. 2024. Captura del Pulpo en Campeche desde una perspectiva socioeconómica. JAINA Costas y Mares ante el Cambio Climático 6(1): 23-38. doi 10.26359/52462.0603
- 2024. Cahuich Poot, F., Cahuich Rodríguez, Y., Chan Allil, Á., Colli de Dios, M., Contreras Bolaños, D., España Ake, D., Muñoz Villasis, E., Ramírez Cruz, C., Rivera-Arriaga, E., Peña-Puch, A.C. 2024. Impacto socioambiental de la pesquería del pulpo maya en San Francisco de Campeche. JAINA Costas y Mares ante el Cambio Climático 6(1): 39-54. doi 10.26359/52462.0604
- Accepted. Challenges for Good Governance in Coastal Socio-ecological Systems of Campeche: Analysis from the Expert Users' Perspective, Peña-Puch A.C. y E. Rivera-Arriaga, Jour. Marine Policy

Current Projects

- Urban Heat Islands in the coastal city of Campeche: EbA strategies for climate change adaptation
- Social perception of climate change effects in the coastal city of Campeche
- Integrated coastal management for climate change adaptation
- EbA for coastal SES to climate change effects
- Governance and risks management for the coastal zone