

MARGARET (Peggy) JEAN TURK BOYER

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PROFESSIONAL OVERVIEW

With a master of science biology degree, I specialized in marine ecology and have extensive expertise in the Gulf of California ecosystem. I am an accomplished conservation practitioner, having led four decades of actions to empower, engage and organize coastal communities for the protection of endangered and endemic species, ecosystems and to solve urban environmental issues. Conservation of the world's most critically endangered vaquita porpoise (*Phocoena sinus*) has been a focus. I have worked effectively at all levels and with multiple agencies of the Mexican government and with other key players to establish legal conservation and management tools, governance structures, research programs, community development, outreach and education. I led the use of pioneering approaches for integrated fisheries and ecosystem management. My professional communications expertise includes production, editing, and writing of bilingual (Spanish & English) education materials, scientific publications and curriculum for diverse audiences. I am an expert in international institutional development and an accomplished fundraiser and grant writer.

ACCOMPLISHMENTS

- Instrumental in establishing 2 Mexican and UNESCO Biosphere Reserves (Upper Gulf of California/Colorado River Delta and Pinacate/Gran Desierto de Altar) and 2 internationally recognized Ramsar sites in Northern Gulf of California wetlands (Bahia Adair and San Jorge in Sonora); developing management plans and meaningful engagement of communities to support these protected areas
- Empowered dozens of local fishing and oyster cooperatives for self-governance and institutional development.
- Produced dozens of bilingual scientific outreach publications and journal articles (newsletters, newspapers, booklets and books, see list below).
- Pioneered the use of the Environmental Impact Study as an Ecosystem and Fisheries Management Tool for small-scale fishermen in the Upper Gulf of California Biosphere Reserve with over 2,000 fishermen in 3 communities participating actively to mitigate impacts to fisheries and endangered species.
- Pioneered the use of Coastal Marine Spatial Planning in Mexico as a tool for Ecosystem & Fisheries Management in a Biological Corridor from Puerto Peñasco to Puerto Lobos, Sonora, culminating in a proposal for Integrated Management, approved by 70% of region's 2,000 small-scale fisheries from 6 communities.
- Directed implementation of comprehensive education programs for over 3,000 small-scale fishermen of the Northern Gulf of California: UGBR (154 training sessions, 87.3% participation of 906 boats in at least one workshop) and Puerto Peñasco Corridor (66 training sessions, 1,000 participants).
- Developed various curriculum and conducted field-based training on Upper Gulf of California Reserve and vaquita and totoaba for teachers in 3 communities of the Upper Gulf Reserve.
- Directed implementation of Environmental contest for 20 years engaging school children from 9 communities to understand and propose community solutions for local environmental issues.
- Founded and directed 3 award-winning not for profit environmental organizations in two countries (CEDO Inc., CEDO, A.C. and MacCEDO, A.C.),
- Developed financial and human resources to maintain a growing and thriving institution for 40 years.

TECHNICAL & PERSONAL SKILLS

- Grant writing
- Excellent communicator (written and verbal)
- Native English speaker; Fluent Spanish speaker and writer
- Inquisitive, persistent and creative; works well individually or in a team
- Ability to comprehend and manage complex situations; strategic and systems thinker
- Proficient in Microsoft Office suite (word, excel, powerpoint, sharepoint, One Drive)

EDUCATION

University of Arizona, Tucson, AZ Master of Science: Biological Sciences	1981
University of Arizona, Tucson, AZ Bachelor of Science: Biological Sciences	1977
Millsaps College, Jackson, MS Mathematics Major coursework General Biology coursework	1971-75

WORK EXPERIENCE

Independent Consultant / Intercultural Center for the Study of Deserts & Oceans • Executive leadership transition support	July 2019 – April 2020
Research Associate / University of Arizona Ecology & Evolutionary Biology Dept. • Sponsored Project with CEDO Intercultural, Inc. • Research & educational field support & lectures for UA students	July 2011– July 2019
Executive & Program Director-Founder / CEDO Intercultural, www.cedo.org Intercultural Center for the Study of Deserts & Oceans, Inc., Tucson, AZ Centro Intercultural de Estudios de Desiertos y Océanos, A.C. & Medio Ambiente y Comunidad CEDO, A.C., Puerto Penasco, Sonora, MX • Founded 3 legally constituted not for profit environmental organizations in two countries; established boards of directors for each and structured formal collaborations between them • Vision: Vibrant Communities, Sustainable Livelihoods & Resilient Ecosystems • Programs: Marine Conservation, Fisheries Management, Climate Change & Ecosystem Management, Science Education, Public Field Education and Tourism Services, Community Development • Raised and managed annual budgets ca. 1 million+ US dollars in two countries • Managed intercultural staff of 30+ persons	1986 – June 2019
Resident Field Station Director / Desert Development Foundation, Inc. • Managed field station uses for visiting classes in Puerto Peñasco, Sonora, Mexico • Involved visitors in education & research • Developed outreach programs for local community • Raised funds for operations	1980 -1986

HONORS AND AWARDS

1995	Recognition of Ecological Merit. Secretaría del Medio Ambiente y Recursos Naturales y Pesquerías, Sonora, México. (institutional award)
1996	International Excellence Award along the US/MX border. Margarita Mirandas de Mascareñas Foundation, Juárez, Chihuahua, México. (personal award)
1998	PEW Fellows Program in Conservation and the Environment Finalist. (personal nomination)
2002	Special Certificate of Merit for Mexico's efforts to Protect the Vaquita " <i>Phocoena sinus</i> " population for contribution by Turk Boyer, P. and L. Flores-Skydancer. 2002. Setting the Stage for Conservation of Vaquita: Fishermen and Community Involvement. International Whaling Commission 54 th Proceedings. 24 April-10 May, 2002. Shimonoseki, Japan.
2007	National Conservation Award, Civil Society Organization, 27 years in support of conservation of Mexico's biodiversity. Secretaría del Medio Ambiente y Recursos Naturales, Comisión Nacional de Áreas Naturales Protegidas. (institutional award).
2009	National Ecological Merit Award, granted to CEDO, Centro Intercultural de Estudios de Desiertos y Océanos, A.C. for informal environmental education programs. Secretaría del Medio Ambiente y Recursos Naturales, CECADESU. (institutional award).

- 2010 Recognition of CEDO's 30th Anniversary, as an Intercultural organization. Official United States Congressional Record, Statement submitted by Representative Gabriel Gifford, serving Arizona's 2nd Congressional District.
- 2010 Award of Recognition, CEDO's 30th Anniversary 1980-2010, Office of the Mayor of Tucson, Arizona, Robert E. Walkup. 1 May, 2010.
- 2010 Human Diversity in Field Science Award, granted to Intercultural Center for the Study of Deserts and Oceans for involving a diversity of people in field science. Organization of Biological Field Stations. (institutional award).
- 2018 First Place in Sustainable Fisheries Research, National Fisheries and Sustainable Aquaculture Award. Comisión Nacional de Pesca y Acuicultura, SAGARPA, INAPESCA y otras entidades. (institutional award).
- 2019 Recognition of **Peggy J. Turk Boyer**, retiring as Founder and Executive Director of CEDO for 40 years. Official United States Congressional Record, Statement submitted on January 28, 2019 by Representative Ann Kirkpatrick, serving Arizona's 2nd Congressional District.
- 2022 Registration for Scientific or Museum Collections under the name "Colección **Peggy Turk Boyer**, clave DGVS-CC-327-SON/22, bajo titularidad del Centro Intercultural de Estudios de Desiertos y Océanos, 20 de enero, 2022. Secretaría del Medio Ambiente y Recursos Naturales, Subsecretaría de Gestión para la Protección Ambiental, Dirección General de Vida Silvestre.

PUBLICATIONS

JOURNALS

- Morzaria-Luna, H., **P. Turk-Boyer**, J.M. Dorantes-Hernández, E. Polanco-Mizquez, C. Downton-Hoffmann, G. Cruz-Piñón, T. Carrillo-Lammens, R. Loaiza-Villanueva, P. Valdivia-Jiménez, Á. Sánchez-Cruz, V. Peña-Mendoza, A. Montserrat López-Ortiz, V. Koch, L. Vázquez-Vera, J. Alfredo Arreola-Lizárraga, I. G. Amador-Castro, A.N. Suárez Castillo & A. Munguía-Vega. 2020. Fisheries management tools to support coastal and marine spatial planning: A case study from the Northern Gulf of California, Mexico. *MethodsX*. 7: 101108. <https://doi.org/10.1016/j.mex.2020.101108>.
- Morzaria Luna, Hem Nalini, **Peggy Turk-Boyer**, Elia Polanco-Mizquez, Caroline Downton-Hoffmann, Gabriela Cruz-Piñón, Tonatiuh Lammens, Rene Loaiza-Villanueva, Paloma Valdivia-Jiménez, Angeles Sánchez-Cruz, Valeria Peña-Mendoza, Ariadna Montserrat López-Ortiz, Volker Koch, Leonardo Vazquez-Vera, Jose Arreola-Lizarraga, Imelda G. Amador-Castro, Alvin Suarez, Adrian Munguía-Vega. 2020. Coastal and Marine Spatial Planning in the Northern Gulf of California, Mexico: Consolidating Stewardship, Property Rights, and Enforcement for Ecosystem- Based Fisheries Management, *Ocean and Coastal Management* 197:105316. <https://doi.org/10.1016/j.ocecoaman.2020.105316>
- Morzaria-Luna, H, Cruz-Piñón, G, Brusca, RC, López-Ortiz, AM, Moreno-Báez, M, Reyes-Bonilla, H, & **Turk-Boyer, P**. 2018. Biodiversity hotspots are not congruent with conservation areas in the Gulf of California. *Biodiversity and Conservation*, 1-24. <https://doi.org/10.1007/s10531-018-1631-x>
- Munguía-Vega, A., Green, A.L., Suarez-Castillo, A.N., Espinosa-Romero, M.J., Aburto-Oropeza, O., Cisneros-Montemayor, A.M., Cruz-Piñón, G., Danemann, G., Giron-Nava, A., Gonzalez-Cuellar, O., Lasch, C., Mancha-Cisneros, M. del M., Marinone, S.G., Moreno-Baez, M., Morzaria-Luna, H.N., Reyes-Bonilla, H., Torre, J., **Turk-Boyer, P.**, Walther, M., Hudson Weaver, A., 2018. Ecological guidelines for designing a network of marine reserves in the unique biophysical environment of the Gulf of California. *Ecological Applications* 28:749. <https://doi.org/10.1007/s11160-018-9529-y>
- Munguía-Vega, A., J. Torre, **P. Turk-Boyer**, S. G. Marinone, M. F. Lavín, T. Pfister, W. Shaw, G. Danemann, P. Raimondi, A. Castillo-López, A. Cinti, J. N. Duberstein, M. Moreno-Báez, M. Rojo, G. Soria, L. Sánchez-Velasco, H.N. Morzaria-Luna, L. Bourillón, K. Rowell, and R. Cudney-Bueno. 2015. PANGAS: An Interdisciplinary Ecosystem-Based Research Framework for Small-Scale Fisheries in the Northern Gulf of California. *Journal of the Southwest* 57:337–390. DOI: [10.1353/jsw.2015.0003](https://doi.org/10.1353/jsw.2015.0003)
- Morzaria-Luna, H., **P.Turk-Boyer**, and M. Moreno-Baez. 2014. Social indicators of vulnerability for fishing communities in the Northern Gulf of California, Mexico: Implications for climate change. *Marine Policy* 45:182–193. <http://dx.doi.org/10.1016/j.marpol.2013.10.013>
- Morzaria-Luna, Hem Nalini, A. Castillo-Lopez, G. Danemann, and **P.J. Turk Boyer**. 2014. Conservation strategies for coastal wetlands in the Gulf of California, Mexico, *Wetlands Ecology and Management* 22:267-288 DOI 10.1007/s11273-013-9328-0
- Morzaria-Luna, H N, **Turk-Boyer P**, Alyssa Rosemartin, and Victor F. Camacho-Ibar. 2014. Vulnerability to climate change of coastal wetlands of the Gulf of California, *Ocean and Coastal Management* 93:37–50.
- Ainsworth, CH, Morzaria-Luna H, Kaplan IC, Levin PS, Fulton EA, Cudney-Bueno R, **Turk-Boyer P**, Torre J, Danemann GD, Pfister T . 2012. Effective ecosystem-based management must encourage regulatory compliance: A Gulf of California case study. *Mar Policy* 36:1275-1283. <http://dx.doi.org/10.1016/j.marpol.2012.03.016>

- Sánchez-Velasco L, Lavín MF, Jiménez-Rosenberg SPA, Montes JM, **Turk-Boyer PJ**. 2012. Larval fish habitats and hydrography in the Biosphere Reserve of the Upper Gulf of California (June 2008). *Cont Shelf Res* 33:89–99 DOI: 10.1016/j.csr.2011.11.009
- Cudney-Bueno R, Bourillón L, Sáenz-Arroyo A, Torre-Cosío J, **Turk-Boyer PJ**, Shaw WW. 2009. Governance and effects of marine reserves in the Gulf of California, Mexico. *Oce & Coast Manag* 52:207–218.
- Brusca, R.C., J. Campoy Fabela, C. Castillo Sánchez, R. Cudney-Bueno, L.T. Findley, J. Garcia-Hernández, E. Glenn, I. Granillo, M.E. Hendrickx, J. Murrieta, C. Nagel, M. Román, and **P. Turk Boyer**. 2001. A Case Study of Two Mexican Biosphere Reserves. The Upper Gulf of California/Colorado River Delta and Pinacate/Gran Desierto de Altar Biosphere Reserves. 2000 UNESCO Conference on Biodiversity and Society, Columbia University Earthscape www.earthscape.org/rr1/cbs01.html
- Vidal, O., L.T. Findley, **P. Turk**, and R.E. Boyer. 1987. Recent records of pygmy sperm whales in the Gulf of California, México. *Marine Mammal Science* 3(4): 354-356.

BOOKS & BOOK CHAPTERS

- Valdivia-Jiménez, Paloma, **Peggy Turk-Boyer**, Nérida Barajas-Acosta, Christine Flanagan, Debra Colodner, Ángeles Sánchez; Chapter 16. *Embracing Nature, Meaningful Experiences for Teaching and Learning Endeavors: Lessons from the Northern Gulf of California*; in Jan Cîncera, Bruce Johnson, Daphne Goldman, Iris Alkaher & Michal Medek. (Eds.). *Outdoor Environmental Education in the Contemporary World, International Explorations in Outdoor and Environmental Education* 12, https://doi.org/10.1007/978-3-31-29257-6_16. Springer Nature. Switzerland AG. 2023.
- Turk Boyer, P.J.**, P. Valdivia Jiménez, E.I. Polanco Mizquez, H. Morzaria-Luna, A. Sánchez Cruz and N. Barajas Acosta. 2022. [Gender principle 3: Validating and utilizing different capacities and knowledge of women and men. Participatory coastal-marine spatial planning in the Puerto Peñasco-Puerto Lobos biological and fisheries corridor, Sonora, Mexico.](#) Gender Mainstreaming in Coastal and Marine Ecosystems Management Principles, Case Studies and Lessons Learned. Amani A. & A. Hanson (Eds.). United Nations Environment Programme. p 24-39.
- Turk-Boyer, P. J.**, H. Peña-Bonilla, H.N. Morzaria-Luna, P. Valdivia-Jiménez, H. Tovar-Vázquez, and A. Castillo-López. 2014. Wetland conservation in Northern Sonora, Mexico: Legal tools and active communities. Pages 181–204 in F. Amezcua and B. Bellgraph, editors. *Fisheries Management of Mexican and Central American Estuaries*. Springer Verlag.
- Turk-Boyer, P. J.**, H. Morzaria-Luna, I. Martínez, C. A. Downton-Hoffman, and A. Munguia-Vega. 2014a. Ecosystem-based Fisheries Management of a Biological Corridor along Northern Sonora Coastline. Pages 155–180 in F. Amezcua and B. Bellgraph, editors. *Fisheries Management of Mexican and Central American Estuaries*. Springer Verlag.
- Munguia-Vega, A, Torre J, **Turk-Boyer P**, Marinone S G, Lavin MF , Pfister T, Shaw W, Danemann G, Raimondi P, Castillo-López A, Cinti A, Duberstein JN, Moreno-Báez M, Rojo M, Soria G, Sánchez-Velasco L, Morzaria-Luna H N, Bourillón , Rowell K, Cudney-Bueno R. 2015. PANGAS: An Interdisciplinary Ecosystem-Based Research Framework for Small-Scale Fisheries in the Northern Gulf of California. *Journal of the Southwest* 57: 337-390, DOI:10.1353/jsw.2015.0003
- Turk Boyer, P.** 2007. Growing a Conservation Community: The CEDO Story, in *Dry borders: great natural reserves of the Sonoran Desert*, R.E. Felger and B. Broyles, ed, The University of Utah Press, Pp. 548-559.
- Cudney-Bueno, R. and **P.Turk-Boyer**. 1998. Pescando Entre Mareas del Alto Golfo de California – Una Guía Sobre la Pesca Artesanal, su Gente y sus Propuestas de Manejo, CEDO, Serie Técnica No. 1. Centro Intercultural de Estudios de Desiertos y Océanos, Puerto Peñasco, Sonora.
- Turk, P.** 1981. Intertidal migration and formation of breeding clusters of labial-spine morphs of the Thaid gastropod, *Acanthina angelica*. M.S. Thesis. University of Arizona, Tucson.

TECH MEMOS, REPORTS, SYMPOSIUM

- Centro Intercultural de Estudios de Desiertos y Océanos y Representantes del Grupo Intercomunitario Ribereño. Mayo 2018. Propuesta: Manejo Integral y Ordenamiento Espacio-Temporal de la Pesca Ribereña en el Corredor Biológico Puerto Peñasco – Puerto Lobos, Sonora, 113 pp. Sometido a SAGARPA/CONAPESCA.
- Centro Intercultural de Estudios de Desiertos y Océanos y Representantes del Grupo Intercomunitario Ribereño. Mayo 2018, Propuesta Sometido a SAGARPA/CONAPESCA. Estudio Técnico Justificativo: Propuesta de Red de Zonas de Refugio Pesquero en el Corredor Bilógico y Pesquero Puerto Peñasco-Puerto Lobos, Sonora.
- Mancha-Cisneros, M.M., Lasch-Thaler, C., Vázquez-Vera, L., Suárez-Castillo, A.N., Walther-Mendoza, M.Espinosa-Romero, M.J., Carrillo, T., **Turk-Boyer, P.J.**, Morzaria-Luna, H. 2016. *Regional profile of Gulf of California, Mexico: Socio-economic and governance considerations for marine conservation and fisheries management*. La Paz, México: The Nature Conservancy/Comunidad y Biodiversidad A.C.

- Turk Boyer, Peggy J.**, C. Brown Mayoral and I, Martinez Tovar. 2014. Advancing Sustainable Livelihoods for Small-Scale Fishermen: Lessons from a Divers' Cooperative in the Northern Gulf of California, Mexico. Technical Report RARE/CEDO.
- Turk Boyer, P.** and Juan Carlos Barrera. 2012. Indicadores y mecanismos para la evaluación de la efectividad del programa de protección de la vaquita dentro del área de refugio ubicada en la porción occidental del Alto Golfo de California. Órgano de Evaluación y Seguimiento del Programa de Protección de la Vaquita. OES/CONANP/CEDO Intercultural. 24 pp.
- Pérez-Valencia SA, Gorostieta-Monjaraz M, Castañeda-Fernández de Lara V, Polanco-Mizquez E, Rodríguez-Uceda A, Onan Quintero M, Loaiza-Villanueva RD, **Turk-Boyer PJ**, Downton-Hoffmann CA. 2012. MIA-R para la Pesca Ribereña responsable en la Reserva de la Biosfera Alto Golfo de California y Delta del Río Colorado: Costa Oeste. Centro Intercultural de Estudios de Desiertos y Océanos, A.C. Puerto Peñasco, Sonora, México
- Ainsworth, C., I. C. Kaplan, P. S. Levin, R. Cudney-Bueno, E. A. Fulton, M. Mangel, **P. J. Turk Boyer**, J. Torre, A. Pares-Sierra, and **H. Morzaria-Luna**. 2011. [Atlantis model development for the Northern Gulf of California](#). 293 pp. NOAA Technical Memorandum NMFS-NWFSC-110, U.S. Department of Commerce. National Oceanic and Atmospheric Administration. National Marine Fisheries Service, Seattle, WA.
- Ainsworth CH, Kaplan IC, Levin PS, Cudney-Bueno R, Fulton EA, Mangel M, **Turk-Boyer P**, Torre J, Pares-Sierra P, Morzaria Luna HN. 2011. Atlantis model development for the northern Gulf of California. US Dept Commer NOAA Tech Memo NMFS-NWFSC-110, 293.
http://www.nwfsc.noaa.gov/assets/25/7784_08012011_125850_AtlantisModelTM110WebFinal.pdf
- Turk Boyer, P.** and L. Flores-Skydancer. 2002. Setting the Stage for Conservation of Vaquita: Fishermen and Community Involvement. Proceedings 54th International Whaling Commission, 24 April-10 May, 2002. Shimonoseki, Japan.
- Turk-Boyer, P.** 2001. Community Participation in the Management of Fisheries Resources in the Upper Gulf of California. *in* Proceedings United States-Mexico Colorado River Delta Symposium, Sept. 11-12, 2001. Mexicali, Baja California. Pp. 57-58.
- Turk Boyer, P.** and G. K. Silber. 1990. Estimate of vaquita, *Phocoena sinus*, mortality in the Northern Gulf of California, Mexico. P. 49. IWC Symposium: Mortality of Cetaceans in Passive Fishing Nets and Traps. International Whaling Commission, La Jolla, CA.
- Instituto Nacional de Ecología – CEDO, **P.J. Turk Boyer**, participating author. 1995. Programa de Manejo de la Reserva de la Biosfera del Alto Golfo de California y Delta del Río Colorado. Secretaría del Medio Ambiente, México, D.F. 97 pp.
- Instituto Nacional de Ecología – CEDO, **P.J. Turk Boyer**, participating autor. 1995. Programa de Manejo de la Reserva de la Biosfera El Pinacate y Gran Desierto de Altar. Secretaría del Medio Ambiente, México, D.F. 113 pp.

SCIENTIFIC DISSEMINATION & OUTREACH

- Turk Boyer, Peggy J.** Intercultural Center for the Study of Deserts and Oceans. 30 Sept. 2020. MSP for integrated fisheries management in the Northern Gulf of California, Phase I. Panorama Solutions for a Healthy Planet.
<https://panorama.solutions/en/solution/msp-integrated-fisheries-management-northern-gulf-california-phase-i>
- Intercultural Center for the Study of Deserts and Oceans. 2019. A new path forward for ecosystem and fisheries management in Mexico: coastal-marine spatial planning and integrated management in the Puerto Penasco-Puerto Lobos biological and fisheries corridor, Sonora, Mexico. **Turk Boyer, P.J.** & Valdivia-Jimenez, P.A. (Eds). CEDO Intercultural, Puerto Penasco, Sonora, Mexico. 24 pp. (Spanish version also)
- Valdivia-Jiménez P., Pérez-Valencia S. A., **Turk-Boyer P.**, López-Herrera L., Polanco-Mizquez E., Wong-López Cuellar, E. 2015. Manifestación de Impacto Ambiental para la Pesca Ribereña Responsable en la Reserva de la Biosfera Alto Golfo de California y Delta del Río Colorado: Una Herramienta de Planeación y Manejo Ecosistémico Participativo, Logros, Retos y Lecciones Aprendidas. Centro Intercultural de Estudios de Desiertos y Océanos, A.C., Puerto Peñasco, Sonora. 27 pp.
- Intercultural Center for the Study of Deserts and Oceans. Valdivia-Jimenez, P. and **Turk Boyer, P.** (eds). Bilingual Field Guide Series. Puerto Peñasco, Sonora and Tucson, Arizona.
- 2008. Aves de los Esteros de Peñasco / Birds of Peñasco Estuaries. 11 pp.
 - 2013. Aves marinas del norte del Golfo de California / Seabirds of the northern Gulf of California. 18 pp.
 - 2013. Tortugas y mamíferos marinos del norte del Golfo de California / Sea turtles and marine mammals of the northern Gulf of California. 12 pp.
 - 2015. Valdivia-Jimenez P., Barrera F., **Turk-Boyer P** and Downton-Hoffman C. Peces del norte del Golfo de California: Captura incidental de pesquerías artesanales. Fishes of the northern Gulf of California: Small scale fisheries' bycatch. 30 pp.

- PANGAS 2012. **P. Turk Boyer, ed.** Centro Intercultural de Estudios de Desiertos y Océanos. Puerto Peñasco, Sonora. Serie: Fichas Informativas de la Pesca Ribereña del Norte del Golfo de California. 1. Callo de escarlopa (*Spondylus limbatus*), 2. Caracol chino (Familia Muricidae), 3. Pulpo (*Octopus bimaculatus*), 4. Jaiba (*Callinectes bellicosus*), 7. Baqueta (*Hypporthodus acanthistius*), 4 pp. Cada uno.
- Boyer, R. and **P. Turk Boyer, ed.** 2003-2010. CEDO Currents: The Intercultural Center for the Study of Deserts and Oceans, Tucson, Arizona.
- Turk Boyer, P. K.** Castañeda, T. Edmonson. 2005. La Vaquita del Norte del Golfo de California: Introducción y Un Cuaderno de Actividades. CEDO Intercultural, Puerto Peñasco, Sonora, 34 pp.
- Flores-Skydancer, L. and **P. Turk Boyer.** 2002. La Vaquita en el Golfo de California Norte: Un folleto informativo para los habitantes, visitantes y todos los interesados por la conservación de los recursos del Golfo de California Norte. CEDO Bilingual Educational Series. Centro Intercultural de Estudios de Desiertos y Océanos, Puerto Peñasco, Sonora, México.
- P. Turk Boyer** and R. Boyer, ed. 1991-2004. CEDO News: A bilingual journal of the Northern Gulf of California and surrounding Sonoran Desert, Intercultural Center for the Study of Deserts and Oceans, Tucson, Arizona.
- R. Boyer and **P. Turk Boyer, ed.** 1987-1991. CEDO News: A bilingual journal of the Northern Gulf of California and surrounding Sonoran Desert, Intercultural Center for the Study of Deserts and Oceans, Tucson, Arizona.

TRAINING / CERTIFICATIONS

- Pandemic Stress and Stressors & Compassion Fatigue and Self-Care Workshop. 20 June, 2020.
Medical Reserve Core Southern Arizona Public Health Team/Pima County Health.
- COVID-19 Contact Tracing, Johns Hopkins University. 31 May-5 June, 2020
- Leadership Training, Carlos Tizano/UTOPIAS, Fall 2015, Spring 2016
- Coastal & Marine Spatial Planning Training, Duke University: Nicholas School of the Environment. 2 March-1 May 1, 2015
- Capacity Works Workshop, GIZ - Ministerio Federal Alemán de Medio Ambiente, 9 –11 June, 2015
Construcción y Seguridad Nuclear.
- Marine Spatial Planning in Practice Workshop, United Nations Development Program 6-8 May, 2014
Scientific and Technical Advisory Panel of the Global Environmental Facility, Cambridge, United Kingdom.
- Programa Pescadero – Institutional Strengthening for NGOs of Northwestern Mexico. 2012-2014
Fondo Mexicano para la Conservación de la Naturaleza/
Fondo Regional del Noroeste de México (FONNOR), A.C.

CURRENT PROFESSIONAL AFFILIATIONS

- Executive Director Emerita. Intercultural Center for the Study of Deserts and Oceans/ July 2019 – present
Centro Intercultural de Estudios de Desiertos y Océanos (CEDO).
- Associate Board Member. Centro Intercultural de Estudios de Desiertos y Océanos July 2019-present
Puerto Peñasco, Sonora.
- Elected Precinct Committee Person (PC) Democratic Party, LD18, Precinct 61, Nov. 2021- present
Pima County, Arizona.