

Detecting, counting and following the giants of the sea: a review of monitoring methods for aquatic megavertebrates in the Caribbean

D. N. Castelblanco-Martínez^{A,C}, M. P. Blanco-Parra^{A,C,E}, P. Charruau^D, B. Prezas^B, I. Zamora-Vilchis^A and C. A. Niño-Torres^{B,C}

^ACONACyT–University of Quintana Roo, Boulevard Bahía s/n esquina. Ignacio Comonfort, Colonia Del Bosque, Chetumal, Quintana Roo, 77019, México.

^BUniversity of Quintana Roo, Boulevard Bahía s/n esquina. Ignacio Comonfort, Colonia Del Bosque, Chetumal, Quintana Roo, 77019, México.

^CInternational Foundation for Nature and Sustainability (FINS), Calle Larún M75 L4, Andara, Chetumal, Quintana Roo, 77014, México.

^DCentro del Cambio Global y la Sustentabilidad Civil Association, Calle Centenario del Instituto Juárez, S/N, Colonia Reforma, Villahermosa, Tabasco, 86080, México.

^ECorresponding author. Email: mpblancop@gmail.com

Table S1. Methods applied for marine mammals monitoring in the Caribbean

UAVs = Unmanned aerial vehicles, PAM = Passive acoustic monitoring, Si = Sirenians, Ce = Cetaceans

Country	Interviews	Review	Aerial Surveys	Boat based surveys	Land-based surveys	Mark-recapture	Citizen science	UAVs	PAM	Telemetry	Source
All Caribbean (Ce)		•		•							[1-3]
Belize (Si, Ce)		•	•	•		•		•		•	[4-23]
Colombia (Si, Ce)	•	•	•	•	•	•				•	[24-33]
Costa Rica (Si, Ce)	•	•	•								[34-37]
Cuba (Si, Ce)	•	•	•	•							[38-42]
Deutch Antilles (Ce)		•	•	•			•				[43-48]
French Guiana (Si, Ce)	•		•	•							[49-51]
Guatemala (Si)			•	•							[21, 52, 53]
Honduras (Si, Ce)	•		•			•					[54-57]
Lesser Antilles (Si)				•					•		[43, 51, 58-63]
Mexico (Si, Ce)		•	•	•	•	•	•	•		•	[4, 14, 21, 64-77]
Nicaragua (Si)	•		•								[37, 78]
Panamá (Si)	•		•	•		•		•	•	•	[79-84]
Puerto Rico and Virgin Islands (Si)	•	•	•	•		•			•	•	[42, 85-90]
Suriname (Ce)				•							[91]
Venezuela (Si, Ce)	•	•	•	•	•				•		[92-97]

Table S2. Methods applied for elasmobranchs monitoring in the Caribbean

UVC = Underwater visual census, BRUV = Baited remote underwater video

Country	Reviews, Interviews fisheries monitoring	Aerial Survey	Boat-based surveys	UVC	BRUV	Photo-identification	Capture, tagging and telemetry	Citizen monitoring	Source
Belize (<i>Cp, Da, Gic, Rt</i>)	•			•	•	•	•		[98-107]
Central America							•		[108]
Colombia (<i>Cl</i>)	•						•		[109-112]
Dutch Caribbean					•				[113]
Greater Caribbean (<i>Uj</i>)								•	[114-116]
Honduras (<i>Rt</i>)			•			•	•		[117, 118]
Mexico (<i>Rt, Mb</i>)	•	•	•		•	•	•	•	[119-130]
Venezuela (<i>Cp, Nb, Pg</i>)	•					•			[131-137]
Virgin Islands (<i>Cl, Gac, Nb</i>)							•		[138-141]

Cl: *Carcharhinus limbatus*, Cp: *C. perezi*, Da: *Dasyatis americana*, Gac: *Galeocerdo cuvier*, Gic: *Ginglymostoma cirratum*, Mb: *Manta birostris*, Nb: *Negaprion brevirostris*, Pg: *Prionace glauca*, Pp: *Pristis pectinata*, Rt: *Rhincodon typus*, Uj: *Urobatis jamaicensis*.

Table S3. Methods applied for marine reptiles monitoring in the Caribbean

Country	Interviews, reviews	Spotlight surveys	Daylight surveys	Aerial surveys	Catching and sacrifice	Monitoring nesting grounds	Monitoring feeding grounds	Telemetry	Mark-recapture	Source
Belize (Ca, Cm)	•	•	•					•	•	[142-156]
Cayman islands (Cm, Ei)						•		•	•	[157, 158]
Colombia (Cc, Ca, Cca, Cm, Dc, Ei)	•	•	•			•	•	•	•	[159-168]
Costa Rica (Cm, Dc, Ei)	•		•			•	•	•	•	[169-176]
Cuba (Cc, Ca, Cr, Cca, Cm)		•		•	•	•			•	[177-190]
Dominican Republic (Ca, Cm, Ei)		•	•			•			•	[191-194]
French Guiana (Dc ,Mn)		•				•		•	•	[173, 195-198]
Lesser Antilles (Dc, Ei)						•		•		[199-202]
Guatemala (Cm)		•							•	[203]
Honduras (Cc, Ca)		•								[204]
Mexico (Cm, Ca, Cca, Cm, Ei))		•				•		•	•	[203, 205-214]
Nicaragua (Cc, Ca)		•								[204]
Puerto Rico (Ei)									•	[215]
Suriname (Cm, Dc)						•				[216, 217]
Venezuela (Cc, Ca, Cca, Dc, Ei)	•	•	•	•		•	•		•	[166, 218-235]

Cc: *Caiman crocodilus*, Ca: *Crocodylus acutus*, Cm: *Crocodylus moreletii*, Ci: *Crocodylus intermedius*, Cr: *Crocodylus rhombifer*, Mn: *Melanosuchus niger*, Cca: *Caretta caretta*, Cm: *Chelonia mydas*, Dc: *Dermochelys coriacea*, Ei: *Eretmochelys imbricata*.

References

1. Vidal, O., K. Van Waerebeek, and L. Findley (2013). Cetaceans and gillnet fisheries in Mexico, Central America and the Wider Caribbean: a preliminary review. Rep. Int. Whal. Com. No 15, No.
2. Pardo, M., A. Mejía-Fajardo, S. Beltrán-Pedreros, F. Trujillo, I. Kerr, and D. Palacios (2009). Odontocete sightings collected during offshore cruises in the western and southwestern Caribbean Sea. Latin American Journal of Aquatic Mammals 7, 57-62.
3. Bolaños-Jiménez, J., A.A. Mignucci-Giannoni, J. Blumenthal, A. Bogomolni, J.J. Casas, A. Henriquez, M. Iniguez Bessega, J. Khan, N. Landrau-Giovannetti, and C. Rinaldi (2014). Distribution, feeding habits and morphology of killer whales *Orcinus orca* in the Caribbean Sea. Mammal Review 44, 177-189.
4. Morales-Vela, B., L.D. Olivera-Gomez, J.E. Reynolds III, and G.B. Rathbun (2000). Distribution and habitat use by manatees (*Trichechus manatus manatus*) in Belize and Chetumal Bay, Mexico. Biological Conservation 95, 67-75.
5. Self-Sullivan, C., G.W. Smith, J.M. Packard, and K.S. LaCommare (2003). Seasonal occurrence of male Antillean manatees (*Trichechus manatus manatus*) on the Belize Barrier Reef. Aquatic Mammals 29, 342-354.
6. Auil-Gomez, N.E. (2004) Abundance and distribution trends of the West Indian manatee in the coastal zone of Belize: Implications for conservation. Master Thesis. (Texas A&M University: Texas.)
7. Holguin, S.B.P. (2004) Contextual Conservation: Antillean Manatees (*Trichechus manatus manatus*) of Turneffe Atoll, Belize. Master Thesis. (San Francisco State University: Geography: Resource Management and Environmental Planning.)
8. LaCommare, K.S., C. Self-Sullivan, and S. Brault (2008). Distribution and habitat use of Antillean manatees (*Trichechus manatus manatus*) in the Drowned Cayes area of Belize, Central America. Aquatic Mammals 34, 35-43.
9. Bacchus, M.L.C., S.G. Dunbar, and C. Self-Sullivan (2009). Characterization of resting holes and their use by the Antillean manatee (*Trichechus manatus manatus*) in the Drowned Cayes, Belize. Aquatic Mammals 35, 62-71.
10. Castelblanco Martínez, D.N., J. Powell, J. Galves, and N. Auil Gomez (2013). Preliminary information from first tagged manatees in Turneffe Atoll (Belize) reveal regular travel patterns to the mainland. Sirennews 60, 12-13.
11. Castelblanco-Martínez, D.N., H. Edwards, E. Hines, and S.B.P. Stone West Indian manatees in Turneffe Atoll, Belize: pros and cons of living in paradise. In 'Proceedings of the International Sirenian Symposium', 2013, Dunedin, NZ.
12. LaCommare, K.S., S. Brault, C. Self-Sullivan, and E.M. Hines (2012). Trend detection in a boat-based method for monitoring sirenians: Antillean manatee case study. Biological Conservation 152, 169-177.

13. Jenko, K., D.N. Castelblanco Martínez, J. Chapman, and C. Gough (2014). Preliminary analysis of opportunistic sightings data shows year-round presence and seasonality in habitat use by manatees in Bacalar Chico, Belize. In 'Simposio Latinoamericano para la Investigación y Conservación de manatíes, 16 Reunión de Trabajo de Especialistas en Mamíferos Acuáticos de América Latina, SOLAMAC, IV Congreso Colombiano de Zoología'. (Ed.^^(Eds pp.: Cartagena, Colombia.)
14. Ramos, E.A., D.N. Castelblanco Martínez, S. Landeo-Yauri, C. Niño-Torres, M. Magnasco, and D. Reiss (2017). Small drones: a tool to study, monitor, and manage free-ranging Antillean manatees in Belize and Mexico. *Sirenews* 67, 13-16.
15. Edwards, H.H., S.B. Stone, E.M. Hines, N.A. Gomez, and B.E. Winning (2014). Documenting manatee (*Trichechus manatus manatus*) presence at Turneffe Atoll, Belize, Central America and its conservation significance. *Caribbean Journal of Science* 48, 71-75.
16. Ramos, E.A., D.N. Castelblanco-Martínez, C.A. Niño-Torres, K. Jenko, and N.A. Gomez (2016). A review of the aquatic mammals of Belize. *Aquatic Mammals* 42, 476-493.
17. Campbell, G.S., B.A. Bilgre, and H. Defran (2002). Bottlenose dolphins (*Tursiops truncatus*) in Turneffe Atoll, Belize: occurrence, site fidelity, group size, and abundance. *Aquatic Mammals* 28, 170-180.
18. Dick, D.M. and E.M. Hines (2011). Using distance sampling techniques to estimate bottlenose dolphin (*Tursiops truncatus*) abundance at Turneffe Atoll, Belize. *Marine Mammal Science* 27, 606-621.
19. Garcia, J., C. Self-Sullivan, and N.A. Funicelli (2017). Changes in Bottlenose Dolphin (*Tursiops truncatus*) Distribution and Behavior in the Drowned Cayes, Belize, and Correlation to Human Impacts. *Aquatic Mammals* 43, 661-672.
20. Kerr, K.A., R.H. Defran, and G.S. Campbell (2005). Bottlenose dolphins (*Tursiops truncatus*) in the Drowned Cayes, Belize: group size, site fidelity and abundance. *Caribbean Journal of Science* 41, 172-177.
21. Quintana-Rizzo, E., N. Casteblanco-Martínez, H. Edwards, B. Morales-Vela, A. Ubeda, and Z. Walker First regional aerial survey of Antillean manatees (*Trichechus manatus manatus*) in the Mexico-Belize-Guatemala region of Central America. 2015, San Francisco, CA.
22. Self-Sullivan, C. (2007). Non-lethal boat scars on manatees in Belize as a tool for evaluation of a Marine Protected Area – Preliminary Results. Gulf and Caribbean Fisheries Institute 59.
23. Rojas-Arias, J. (2013) Establecimiento de la línea de información de base para la especie *Tursiops truncatus* en la Reserva Marina de Puerto Honduras, Belice. Thesis. (El Colegio de la Frontera Sur / Universidad de Sherbrooke.)
24. Fariás-Curtidor, N.E. (2008) Distribución del manatí *trichechus manatus manatus* y percepción de la comunidad local con respecto a la especie en la Cuenca Media y Baja del río Atrato (Chocó, Colombia). Bachelor Thesis. (Pontificia Universidad Javeriana: Bogotá.)
25. Góngora-Correa, N. (2009) Liberación y monitoreo de manatíes (*Trichechus manatus*) a la cuenca baja del río Sinú, Colombia, como una estrategia de conservación. Bachelor Thesis. (Fundación Universidad Jorge Tadeo Lozano: Bogotá, Colombia.)

26. Arévalo-González, K., N. Castelblanco-Martínez, P. Sánchez-Palomino, and H. López-Arévalo (2014). Complementary methods to estimate population size of Antillean manatees (Sirenia:Trichechidae) at La Ciénaga de Paredes, Santander, Colombia. *Journal of Threatened Taxa* 6, 5830-5837.
27. Caicedo-Herrera, D., Y. Mona-Sanabria, R. Espinosa-Forero, J. Barbosa-Cabanzo, N. Farias-Curtidor, N. Gongora-Correa, C. Alvarez-Cardenas, A.C. Gonzalez-López, A.M.- Giannoni, and F. Trujillo-Gonzalez (2013). Aplicación de tecnologías VHF y satelital para seguimiento de manatíes *Trichechus manatus* como una estrategia para su manejo y conservación en la cuenca baja y media del río Sinú, departamento de Córdoba. In 'Diagnóstico del estado de conocimiento y conservación de los mamíferos acuáticos en Colombia'. (Ed.^Eds F. Trujillo, et al.) pp. 273-312. (Ministerio de Ambiente y Desarrollo Sostenible, Fundación Omacha, Conservación Internacional y WWF: Bogotá, Colombia.)
28. Rincón, N.M. and A.J. Romero (2012). Cetáceos presentes en el Caribe nororiental colombiano (2004-2012). *Revista Mutis* 2, 60-75.
29. Palacios, D.M., N. Farías-Curtidor, C. Jiménez-Pinedo, L. Castellanos, A. Gärtner, C. Gómez-Salazar, D. Caicedo-Herrera, and F. Trujillo Range extension for the long-beaked common dolphin (*Delphinus capensis*) to the Colombian Caribbean. 2012. (SC/64/SM20. Report presented to the Scientific Committee, 64st Annual Meeting of the International Whaling Commission, Panama City: Panama.)
30. Pardo, M.A. and D.M. Palacios (2006). Cetacean occurrence in the Santa Marta region, Colombian Caribbean, 2004-2005. *Latin American Journal of Aquatic Mammals* 5, 129-134.
31. Jiménez-Pinedo, C., C. Domínguez-García, M.A. Pardo, F. Trujillo, J.M. Ávila, and D.M. Palacios (2014). Cetacean occurrence in the Tayrona National Park, a marine protected area in the Colombian Caribbean. *Latin American Journal of Aquatic Mammals* 9, 154-159.
32. Castelblanco-Martínez, D.N., A.L. Bermúdez-Romero, I.V. Gómez-Camelo, F.C.W. Rosas, F. Trujillo, and E. Zerda-Ordoñez (2009). Seasonality of habitat use, mortality and reproduction of the Vulnerable Antillean manatee *Trichechus manatus manatus* in the Orinoco River, Colombia: implications for conservation. *Oryx* 43, 235-242.
33. Farías-Curtidor, N., D.C. Barragán-Barrera, P.A. Chávez-Carreño, C. Jiménez-Pinedo, D.M. Palacios, D. Caicedo, F. Trujillo, and S. Caballero (2017). Range extension for the common dolphin (*Delphinus sp.*) to the Colombian Caribbean, with taxonomic implications from genetic barcoding and phylogenetic analyses. *PloS one* 12, e0171000.
34. Reynolds, J.E., W.A. Szelistowski, and M.A. Leon (1995). Status and conservation of manatees *Trichechus manatus manatus* in Costa Rica. *Biological Conservation* 71, 193-196.
35. Smethurst, D. and B. Nietschmann (1999). The distribution of manatees (*Trichechus manatus*) in the coastal waterways of Tortuguero, Costa Rica. *Biological Conservation* 89, 267-274.
36. Rodríguez-Fonseca, J. and P. Cubero-Pardo (2001). Cetacean strandings in Costa Rica (1966-1999). *Revista de Biología Tropical* 49, 667-672.
37. Jiménez-Perez, I. (2005). Development of predictive models to explain the distribution of the West Indian manatee *Trichechus manatus* in tropical watercourses. *Biological Conservation* 125, 491-503.
38. Alvarez-Alemán, A., J.A. Angulo-Valdés, E. García Alfonso, J.A. Powell, and C.R. Taylor (2016). Occurrence of the Endangered Antillean manatee *Trichechus manatus manatus* in a marine protected area, Isla de la Juventud, Cuba. *Oryx In Press*.

39. Whitt, A.D., T.A. Jefferson, M. Blanco, D. Fertl, and D. Rees (2014). A review of marine mammal records of Cuba. Latin American Journal of Aquatic Mammals 9, 65-122.
40. Alvarez-Alemán, A., E.G. Alfonso, Y. Forneiro Martin-Vianna, Z. Hernández Gonzalez, R.E. Domenech, A. Hurtado, J. Powell, C.A. Jacoby, and T.K. Frazer (2018). Status and conservation of manatees in Cuba: historical observations and recent insights. Bulletin of Marine Science 94, 313-327.
41. Escalona-Domenech, R.Y. (2006) Bases para el Manejo Integrado del *Trichechus manatus manatus* (manatí antillano) en el sector costero Ensenada de Mora-Cabo Cruz del Parque Nacional “Desembarco del Granma”. Thesis. (UNIVERSIDAD DE ORIENTE: Santiago de Cuba.)
42. Roden, C.L. and K.D. Mullin (2000). Sightings of cetaceans in the northern Caribbean Sea and adjacent waters, winter 1995. Caribbean Journal of Science, 280-288.
43. Luksenburg, J.A. (2011). Three new records of cetacean species for Aruba, Leeward Antilles, southern Caribbean. Marine Biodiversity Records 4, e4.
44. Debrot, A.O. and N.B. Barros (1994). Additional cetacean records for the Leeward Dutch Antilles. Marine Mammal Science 10, 359-368.
45. Barros, N. and A. Debrot (2006). Status of small cetaceans in the Leeward Dutch Antilles. Reports of the International Whaling Commission.
46. Geelhoed, S., N. Janinhoff, J. Verdaat, R. van Bemmelen, and M. Scheidat (2014). Aerial surveys of marine mammals and other fauna around Aruba, Curaçao and Bonaire, November 2013. IMARES, No.
47. Debrot, A., J. De Meyer, and P. Dezentjé (1998). Additional records and a review of the cetacean fauna of the Leeward Dutch Antilles. Caribbean Journal of Science 34, 204-210.
48. Debrot, A.O., N. Esteban, T. Bervoets, P.C. Hoetjes, and M. Scheidat (2013). Marine mammals of the Northeastern Caribbean Windward Dutch Islands: Saba, St. Eustatius, St. Maarten, and the Saba Bank. Caribbean Journal of Science 47, 159-172.
49. de Thoisy, B., T. Spiegelberger, S. Rousseau, G. Talvy, I. Vogel, and J.C. Vie (2003). Distribution, habitat, and conservation status of the West Indian manatee *Trichechus manatus* in French Guiana. Oryx 37, 431-436.
50. Castelblanco-Martínez, D.N., V. dos Reis, and B. de Thoisy (2018). How to detect an elusive aquatic mammal in complex environments? A study of the Endangered Antillean manatee *Trichechus manatus manatus* in French Guiana. Oryx 52, 382-392.
51. Ridoux, V., G. Certain, G. Doremus, S. Laran, O. van Canneyt, and P. Watremez (2010). Mapping diversity and relative density of cetaceans and other pelagic megafauna across the tropics: general design and progress of the REMMOA aerial surveys conducted in the French EEZ and adjacent waters. SC/62, No.
52. Quintana-Rizzo, E. (1992) Distribution and abundance of the Antillean Manatee (*Trichechus manatus manatus*) in Guatemala. Bachelor Thesis. (Universidad de San Carlos de Guatemala: Ciudad de Guatemala.)

53. Corona-Figueroa, M.F. (2012) Uso y preferencia de hábitat del manatí antillano (*Trichechus manatus manatus*) en el Parque Nacional Río Dulce, Izabal, Guatemala. Bachelor Thesis. (Universidad de San Carlos de Guatemala.)
54. Carr, T. (1993). Manatee surveys. Miskito Marine and Coastal Reserve -- Manatee Census Trip Report. No.
55. Quintana-Rizzo, E. (2005). Estudio sinóptico de la distribución y abundancia relativa del manatí (*Trichechus manatus*) en el Golfo de Honduras en el periodo de Mayo-Junio 2005. Comitato Internazionale per lo Sviluppo del Popoli (CISP), No. (Saint Petersburg, FL.)
56. Kuczaj II, S.A. and D.B. Yeater (2007). Observations of rough-toothed dolphins (*Steno bredanensis*) off the coast of Utila, Honduras. Journal of the Marine Biological Association of the United Kingdom 87, 141-148.
57. Gonzalez-Socoloske, D., C.R. Taylor, and O.R. Rendon Thompson (2014). Distribution and conservation status of the Antillean manatee (*Trichechus manatus manatus*) in Honduras. Latin American Journal of Aquatic Mammals 9, 123-131.
58. Jérémie, S., A. Gannier, S. Bourreau, and J.-C. Nicolas (2006). Cetaceans of Martinique Island (Lesser Antilles): Occurrence and distribution obtained from a small boat dedicated survey. Scientific Committee of the International Whaling Commission: SC/58/SM23.
59. Boisseau, O., R. Leaper, A. Moscrop, A. Embankment, and L. SE (2006). Observations of small cetaceans in the Eastern Caribbean. Paper SC/58/SM24 presented to the IWC Scientific Committee, St. Kitts & Nevis.[Available from IWC Secretariat, Cambridge, UK], No.
60. Gero, S. and H. Whitehead Opportunistic sightings of small cetaceans off the leeward shore of the Commonwealth of Dominica. In 'Proceedings of the 58th annual meeting of the International Whaling Commission', 2006, St. Kitts and Nevis.
61. Rinaldi, C., R. Rinaldi, and P. Sahagian (2006). Report of surveys conducted on small cetaceans off Guadeloupe 1998 to 2005. Working document SC/58/SM17 presented to the IWC Scientific Committee. St. Kitts and Nevis.[Available from IWC Secretariat, Cambridge, UK].
62. Weir, C.R., S. Calderan, M. Unwin, and M. Paulatto (2011). Cetacean encounters around the island ofMontserrat (Caribbean Sea) during 2007 and 2010, including new species state records. Marine Biodiversity Records 4, e42.
63. Yoshida, H., J. Compton, S. Punnett, T. Lovell, K. Draper, G. Franklin, N. Norris, P. Phillip, R. Wilkins, and H. Kato (2010). Cetacean sightings in the eastern Caribbean and adjacent waters, spring 2004. Aquatic Mammals 36, 154.
64. Áxis-Arroyo, J., B. Morales-Vela, D. Torruco-Gómez, and M.E. Vega-Cendejas (1998). Factors associated with habitat use by the Caribbean manatee (*Trichechus manatus*), in Quintana Roo, Mexico (Mammalia). Revista de Biología Tropical 46, 791-803.
65. Olivera-Gómez, L.D. and E. Mellink (2002). Spatial and temporal variation in counts of the Antillean manatee (*Trichechus m. manatus*) during distribution surveys at Bahia de Chetumal, Mexico. Aquatic Mammals 28, 285-293.

66. Castelblanco-Martínez, D.N., J. Padilla-Sáldivar, H.A. Hernández-Arana, D. Slone, J. Reid, and B. Morales-Vela (2013). Movement patterns of Antillean manatees in Chetumal Bay (Mexico) and coastal Belize: A challenge for regional conservation. *Marine Mammal Science* 29, 166-182.
67. Morales-Vela, B., J.A. Padilla-Saldivar, and A.A. Mignucci-Giannoni (2003). Status of the manatee (*Trichechus manatus*) along the northern and western coasts of the Yucatan Peninsula, Mexico. *Caribbean Journal of Science* 39, 42-49.
68. Olivera-Gómez, L.D. and E. Mellink (2005). Distribution of the Antillean manatee (*Trichechus manatus manatus*) as a function of habitat characteristics, in Bahia de Chetumal, Mexico. *Biological Conservation* 121, 127-133.
69. Zacarías-Araujo, F.J. (1992) Distribución espacial y temporal de *Tursiops truncatus* en la zona sur del Caribe Mexicano, durante los años 1987 y 1988. Tesis de Licenciatura Thesis. (Universidad Nacional Autónoma de México: Mexico.)
70. Delgado-Estrella, A. (1996). Ecología poblacional de las toninas *Tursiops truncatus*, en la laguna de Yalahau, Quintana Roo, México. Maestro en Ciencias (Biología). Facultad de Ciencias UNAM. México, DF.
71. Delgado-Estrella, A. (2015). Patrones de residencia y movimientos a largo plazo de las toninas *Tursiops truncatus*, en la región sureste del Golfo de México. *Therya* 6, 297-314.
72. Zacarías-Araujo, F.J. (1999) Distribución y fotoidentificación de delfines *Tursiops truncatus* en el norte de Quintana Roo, México, durante 1993 y 1994. Thesis. (Universidad Nacional Autónoma de México: Mexico D.F.)
73. Ávila-Canto, J.G., C. Velázquez-Mendoza, N. Castelblanco-Martínez, C. Niño-Torres, and F. Córdova-Tapia (2017). Is the Antillean manatee (*Trichechus manatus manatus*) back in town? Presence of the species at the “Área de Protección de Flora y Fauna Yum Balam”, Quintana Roo, Mexico. *Revista Mexicana de Biodiversidad* 88, 999-1002.
74. Díaz-Ortiz, M., C. Nourisson, and D.N. Castelblanco Martínez (2014). Presence and persistence of the West Indian manatee (*Trichechus manatus manatus*) after 15 years in the north of Quintana Roo, Mexico. *Sirennews* 61, 7.
75. Landero, M., M. De Los Ángeles Liceaga-Correa, and B. Morales-vela (2014). Ecological distribution of manatee (*Trichechus manatus manatus*) in Bahía de la Ascensión, Mexico. *Marine Mammal Science* 30, 1581-1588.
76. Morales-Vela, B. and L.D. Olivera-Gómez (1997). Distribución del Manatí (*Trichechus manatus*) en la costa norte y centro-norte del estado de Quintana Roo, México. *Anales del Instituto de Biología Universidad Nacional Autonoma de Mexico Serie Zoología* 68, 153-167.
77. Niño-Torres, C.A., M.d.C. Garcia-Rivas, D.N. Castelblanco-Martinez, J.A. Padilla-Saldivar, M.d.P. Blanco-Parra, and R.d.l. Parra-Venegas (2015). Aquatic mammals from the Mexican Caribbean; a review. *Hidrobiológica* 25, 127-138.
78. Jiménez-Pérez, I. (2002). Heavy poaching in prime habitat: the conservation status of the West Indian manatee in Nicaragua. *Oryx* 36, 272-278.

79. Mou-Sue, L., D.H. Chen, R. Bonde, and T. O'Shea (1990). Distribution and status of manatees (*Trichechus manatus*) in Panamá. *Marine Mammal Science* 6, 234-241.
80. Castro, J.M., M. Rivera, and A. Camacho Automatic manatee count using passive acoustics. In 'Proceedings of Meetings on Acoustics 169ASA', 2015 p. 010001. (ASA.)
81. Rivera-Chavarria, M.R., H. Guzman, and J. Castro (2014). Detecting and locating manatees in a zero visibility environment. *The Journal of the Acoustical Society of America* 135, 2333-2333.
82. Guzman, H.M. and R. Condit (2017). Abundance of manatees in Panama estimated from side-scan sonar. *Wildlife Society Bulletin* 41, 556-565.
83. Gonzalez-Socoloske, D., J.P. Reid, C. Espinoza-Marin, K.E. Ruiz, K.E. Glander, and L.D. Olivera-Gomez (2015). First successful capture and satellite tracking of a West Indian manatee (*Trichechus manatus*) in Panama: feasibility of capture and telemetry techniques. *Latin American Journal of Aquatic Mammals* 10, 52-57.
84. Muschett, G. and J. Vianna (2015). Distribution and abundance of the West Indian manatee (*Trichechus manatus*) in the Panama Canal. *bioRxiv*, 026724.
85. Mignucci-Giannoni, A.A., N.M. Jiménez-Marrero, M. Vargas-Gómez, J.E. Saliva, J.P. Reid, and R. Bonde Radiotracking manatees off the West Coast of Puerto Rico. In 'Proceedings of the 13th Biennial Conference on the Biology of Marine Mammals', 1999, Maui, Hawaii p. 125.
86. Swartz, S.L., A. Martinez, J. Stamates, C. Burks, and A. Mignucci-Giannoni (2002). Acoustic and visual survey of cetaceans in the waters of Puerto Rico and the Virgin Islands: February-March 2001. NOAA Tech. Memo. NMFS-SEFSC 463, 62.
87. Cardona-Maldonado, M.A. and A.A. Mignucci-Giannoni (1999). Pygmy and dwarf sperm whales in Puerto Rico and the Virgin Islands, with a review of *Kogia* in the Caribbean. *Caribbean Journal of Science* 35, 29-37.
88. Mignucci-Giannoni, A.A. (1998). Zoogeography of cetaceans off Puerto Rico and the Virgin Islands. *Caribbean Journal of Science* 34, 173-190.
89. Swartz, S.L., T. Cole, M.A. McDonald, J.A. Hildebrand, E.M. Oleson, A. Martinez, P.J. Clapham, J. Barlow, and M.L. Jones (2003). Acoustic and visual survey of humpback whale (*Megaptera novaeangliae*) distribution in the eastern and southeastern Caribbean Sea. *Caribbean Journal of Science* 39, 195-208.
90. Mignucci-Giannoni, A.A., C. Iglesias-Escabí, R.J. Rosario-Delestre, and M. Alsina-Guerrero (2018). Variación en la distribución del manatí antillano (*Trichechus manatus manatus*) en la costa sur de Puerto Rico a través de censos aéreos en helicóptero. *Revista Ciencias Marinas y Costeras*, 97-121.
91. de Boer, M.N. (2015). Cetaceans observed in Suriname and adjacent waters. *Latin American Journal of Aquatic Mammals* 10, 2-19.
92. Acevedo-Galindo, R. (2007). Potential geographical distribution of seven species of marine cetaceans reported in Venezuela, Southeast Caribbean. *Current Zoology (Formerly Acta Zoologica Sinica)* 53, 853-864.

93. Oviedo, L. and N. Silva (2005). Sighting frequency and relative abundance of bottlenose dolphins (*Tursiops truncatus*) along the northeast coast of Margarita Island and Los Frailes Archipelago, Venezuela. *Revista de Biología Tropical* 53, 595-600.
94. Smultea, M.A., M. Holst, W.R. Koski, S.S. Roi, A.J. Sayegh, C. Fossati, H.H. Goldstein, J.A. Beland, S. MacLean, and S. Yin (2013). Visual-acoustic survey of cetaceans during a seismic study in the Southeast Caribbean Sea, April—June 2004. *Caribbean Journal of Science* 47, 273-283.
95. Rivas-Rodríguez, B.A., A.F. Pérez, and G. Colonnello (2012). Distribución, uso de hábitat y status poblacional del manatí (*Trichechus manatus*) en el tramo central del bajo Orinoco, Venezuela. *Memoria de la Fundación La Salle de Ciencias Naturales* 173-174, 155-172.
96. Villapol, L.A.B., A.J. Sayegh, M.S. Rangel, M.C.R. Londoño, and N. Vera (2018). Notes on the presence of Risso's Dolphin, *Grampus griseus* Cuvier 1812 (Cetacea: Delphinidae), in Venezuelan waters. *UDO Agrícola* 8.
97. Correa-Viana, M. and T.J. O'Shea (1992). El manatí en la tradición y folklore de Venezuela. *Revista Unellez de Ciencia y Tecnología* 10, 7-13.
98. Tilley, A. and S. Strindberg (2013). Population density estimation of southern stingrays *Dasyatis americana* on a Caribbean atoll using distance sampling. *Aquatic Conservation: Marine and Freshwater Ecosystems* 23, 202-209.
99. Graham, R.T. and C.M. Roberts (2007). Assessing the size, growth rate and structure of a seasonal population of whale sharks (*Rhincodon typus* Smith 1828) using conventional tagging and photo identification. *Fisheries Research* 84, 71-80.
100. Heyman, W.D., R.T. Graham, B. Kjerfve, and R.E. Johannes (2001). Whale sharks *Rhincodon typus* aggregate to feed on fish spawn in Belize. *Marine Ecology Progress Series* 215, 275-282.
101. Bond, M.E., E.A. Babcock, E.K. Pikitch, D.L. Abercrombie, N.F. Lamb, and D.D. Chapman (2012). Reef sharks exhibit site-fidelity and higher relative abundance in marine reserves on the Mesoamerican Barrier Reef. *PLoS One* 7, e32983.
102. Chapman, D.D., E.K. Pikitch, E.A. Babcock, and M.S. Shivji (2007). Deep-diving and diel changes in vertical habitat use by Caribbean reef sharks *Carcharhinus perezi*. *Marine Ecology Progress Series* 344, 271-275.
103. Pikitch, E.K., D.D. Chapman, E.A. Babcock, and M.S. Shivji (2005). Habitat use and demographic population structure of elasmobranchs at a Caribbean atoll (Glover's Reef, Belize). *Marine Ecology Progress Series* 302, 187-197.
104. Chapman, D.D., E.K. Pikitch, E. Babcock, and M.S. Shivji (2005). Marine reserve design and evaluation using automated acoustic telemetry: a case-study involving coral reef-associated sharks in the Mesoamerican Caribbean. *Marine Technology Society Journal* 39, 42-55.
105. Tilley, A., J. López-Angarita, and J.R. Turner (2013). Effects of scale and habitat distribution on the movement of the southern stingray *Dasyatis americana* on a Caribbean atoll. *Marine Ecology Progress Series* 482, 169-179.

106. Bond, M.E., J. Valentin-Albanese, E.A. Babcock, D. Abercrombie, N.F. Lamb, A. Miranda, E.K. Pikitch, and D.D. Chapman (2017). Abundance and size structure of a reef shark population within a marine reserve has remained stable for more than a decade. *Marine Ecology Progress Series* 576, 1-10.
107. Clementi, G. (2017) Assessing the primary drivers of the abundance and diversity of elasmobranchs on Caribbean coral reefs. Thesis. (Stony Brook University: Ann Harbor.)
108. Benavides, R., C.L. Brenes, and A. Márquez (2014). Análisis de la población de condriictios (Vertebrata: Chondrichthyes) de aguas demersales y profundas del Caribe centroamericano, a partir de faenas de prospección pesquera con redes de arrastre. *Revista de Ciencias Marinas y Costeras* 6, 9-27.
109. Paramo, J., D. Perez, and A. Acero (2015). Structure and distribution of deep-water chondrichthyans in the Colombian Caribbean. *Latin American Journal of Aquatic Research* 43, 691-699.
110. García, C.B. (2017). What do we know about soft-bottom elasmobranch species richness in the Colombian Caribbean and of its spatial distribution? *Regional Studies in Marine Science* 9, 62-68.
111. Acevedo, K., J. Bohórquez-Herrera, F. Moreno, C. Moreno, E. Molina, M. Grijalba-Bendeck, and P. Gómez-Canchong (2007). Tiburones y rayas (subclase Elasmobranchii) descartados por la flota de arrastre camaronero en el Caribe de Colombia. *Acta Biológica Colombiana* 12.
112. Gaitan-Espitia, J. and A. Lopez-Pena (2008). Presence of young blacktip sharks *Carcharhinus limbatus* (Carcharhiniformes: Carcharhinidae) in the north area of the Tayrona ecoregion, Colombian Caribbean. *Latin American Journal of Aquatic Research* 36, 115-120.
113. de Graaf, M., I. van Beek, W. van Looijengoed, T. van Kuijk, T. Stoffers, and L. Nagelkerke (2014). Diversity, spatial distribution and relative abundance of reef sharks using stereo baited remote underwater video around the windward islands of the Caribbean Netherlands. 2014, Christ Church, Barbados pp. 48-48. (Gulf and Caribbean Fisheries Institute: Christ Church, Barbados.)
114. Ward-Paige, C.A., C. Mora, H.K. Lotze, C. Pattengill-Semmens, L. McClenachan, E. Arias-Castro, and R.A. Myers (2010). Large-scale absence of sharks on reefs in the greater-Caribbean: a footprint of human pressures. *PloS one* 5, e11968.
115. Ward-Paige, C.A., C. Pattengill-Semmens, R.A. Myers, and H.K. Lotze (2011). Spatial and temporal trends in yellow stingray abundance: evidence from diver surveys. *Environmental Biology of Fishes* 90, 263-276.
116. McKinney, J.A., E.R. Hoffmayer, J. Holmberg, R.T. Graham, W.B. Driggers, III, R. de la Parra-Venegas, B.E. Galván-Pastoriza, S. Fox, S.J. Pierce, and A.D.M. Dove (2017). Long-term assessment of whale shark population demography and connectivity using photo-identification in the Western Atlantic Ocean. *PLOS ONE* 12, e0180495.
117. Fox, S., I. Foisy, R. De La Parra Venegas, B. Galván Pastoriza, R. Graham, E. Hoffmayer, J. Holmberg, and S. Pierce (2013). Population structure and residency of whale sharks *Rhincodon typus* at Utila, Bay Islands, Honduras. *Journal of Fish Biology* 83, 574-587.
118. Gifford, A., L.J. Compagno, M. Levine, and A. Antoniou (2007). Satellite tracking of whale sharks using tethered tags. *Fisheries Research* 84, 17-24.

119. Cárdenas-Palomo, N., J. Herrera-Silveira, I. Velázquez-Abunader, O. Reyes, and U. Ordonez (2015). Distribution and feeding habitat characterization of whale sharks *Rhincodon typus* in a protected area in the north Caribbean Sea. *Journal of fish biology* 86, 668-686.
120. de la Parra Venegas, R., R. Hueter, J.G. Cano, J. Tyminski, J.G. Remolina, M. Maslanka, A. Ormos, L. Weigt, B. Carlson, and A. Dove (2011). An unprecedented aggregation of whale sharks, *Rhincodon typus*, in Mexican coastal waters of the Caribbean sea. *PloS one* 6, e18994.
121. Martínez Urrea, D.A. (2016) Influencia de factores ambientales sobre la distribución de la manta gigante *Manta birostris* en Holbox, Quintana Roo. Master Thesis. (Instituto Politécnico Nacional: La Paz, B.C.S., México.)
122. Hacohen-Domené, A., R.O. Martínez-Rincón, F. Galván-Magaña, N. Cárdenas-Palomo, R. de la Parra-Venegas, B. Galván-Pastoriza, and A.D. Dove (2015). Habitat suitability and environmental factors affecting whale shark (*Rhincodon typus*) aggregations in the Mexican Caribbean. *Environmental Biology of Fishes* 98, 1953-1964.
123. Martínez-Urrea, D. (2013) Foto Identificación de manta gigante (*Manta birostris*; Walbaum, 1792) en las áreas naturales protegidas del Caribe mexicano. Bachelor Thesis. (Universidad Autónoma de Baja California: La Paz, B.C.S., México.)
124. Hueter, R.E., J.P. Tyminski, and R. de la Parra (2013). Horizontal movements, migration patterns, and population structure of whale sharks in the Gulf of Mexico and northwestern Caribbean Sea. *PLoS One* 8, e71883.
125. Ramírez-Macías, D., M. Meekan, D. La Parra-Venegas, F. Remolina-Suárez, M. Trigo-Mendoza, and R. Vázquez-Juárez (2012). Patterns in composition, abundance and scarring of whale sharks *Rhincodon typus* near Holbox Island, Mexico. *Journal of Fish Biology* 80, 1401-1416.
126. Graham, R.T., M.J. Witt, D.W. Castellanos, F. Remolina, S. Maxwell, B.J. Godley, and L.A. Hawkes (2012). Satellite tracking of manta rays highlights challenges to their conservation. *PloS One* 7, e36834.
127. Bonfil, R., M. Ricaño-Soriano, O.U. Mendoza-Vargas, I. Méndez-Loeza, J.C. Pérez-Jiménez, N. Bolaño-Martínez, and P. Palacios-Barreto (2018). Tapping into local ecological knowledge to assess the former importance and current status of sawfishes in Mexico. *Endangered Species Research* 36, 213-228.
128. Cerutti-Pereyra, F., K. Bassos-Hull, X. Arvizu-Torres, K. Wilkinson, I. García-Carrillo, J. Perez-Jimenez, and R. Hueter (2018). Observations of spotted eagle rays (*Aetobatus narinari*) in the Mexican Caribbean using photo-ID. *Environmental Biology of Fishes* 101, 237-244.
129. Marcos-Camacho, S.A., E. Nalessio, J.A. Caamal-Madrigal, and S. Fulton (2016). Caracterización de la pesquería de tiburón en el norte de Quintana Roo, México. *Ciencia pesquera* 24, 153-156.
130. Blanco-Parra, M.d.P., C.A. Niño-Torres, A. Ramírez-González, and E. Sosa-Cordero (2016). Tendencia histórica de la pesquería de elasmobranquios en el estado de Quintana Roo, México. *Revista de Ciencia Pesquera* 24, 125-137.
131. Arocha, F., R. Tavares, J. Silva, and L.A. Marcano (2005). Blue shark, *Prionace glauca*, length composition from the Venezuelan longline fleet in the northwestern Atlantic: Period 1994-2003. *Collective Volume of Scientifics Papers* 58, 942-950.

132. Tavares, R. (2005). Abundance and distribution of sharks in Los Roques Archipelago National Park and other Venezuelan oceanic islands, 1997-1998. *Ciencias Marinas* 31, 441-454.
133. Tavares, R. (2009). Fishery biology of the Caribbean reef sharks, *Carcharhinus perezi* (Poey, 1876), in a Caribbean insular platform: Los Roques Archipelago National Park, Venezuela. *Pan-American Journal of Aquatic Sciences* 4, 500-512.
134. Tavares, R. Preliminary results from tag-recapture procedures applied to lemon sharks, *Negaprion brevirostris* (Poey 1868), at Los Roques Archipelago, Venezuela. In 'Proceedings of the 62nd Gulf and Caribbean Fisheries Institute Conference', 2010, Cumaná, Venezuela pp. 450-454.
135. Tavares, R. and F. Arocha (2008). Species diversity, relative abundance and length structure of oceanic sharks caught by the Venezuelan longline fishery in the Caribbean Sea and western-central Atlantic. *Zootecnia Tropical* 26, 489-503.
136. Tavares, R., M. Ortiz, and F. Arocha (2012). Population structure, distribution and relative abundance of the blue shark (*Prionace glauca*) in the Caribbean Sea and adjacent waters of the North Atlantic. *Fisheries Research* 129, 137-152.
137. Tavares, R., J.P. Rodriguez, and M. Morales (2016). Nursery area and size structure of the lemon shark population, *Negaprion brevirostris* (Poey, 1868), in Los Roques Archipelago National Park, Venezuela. *Universitas Scientiarum* 21, 33-52.
138. DeAngelis, B.M., C.T. McCandless, N.E. Kohler, C.W. Recksiek, and G.B. Skomal (2008). First characterization of shark nursery habitat in the United States Virgin Islands: evidence of habitat partitioning by two shark species. *Marine Ecology Progress Series* 358, 257-271.
139. Vaudo, J.J., B.M. Wetherbee, G. Harvey, R.S. Nemeth, C. Aming, N. Burnie, L.A. Howey-Jordan, and M.S. Shivji (2014). Intraspecific variation in vertical habitat use by tiger sharks (*Galeocerdo cuvier*) in the western North Atlantic. *Ecology and evolution* 4, 1768-1786.
140. Legare, B., J. Kneebone, B. DeAngelis, and G. Skomal (2015). The spatiotemporal dynamics of habitat use by blacktip (*Carcharhinus limbatus*) and lemon (*Negaprion brevirostris*) sharks in nurseries of St. John, United States Virgin Islands. *Marine Biology* 162, 699-716.
141. Pickard, A.E., J.J. Vaudo, B.M. Wetherbee, R.S. Nemeth, J.B. Blondeau, E.A. Kadison, and M.S. Shivji (2016). Comparative use of a Caribbean mesophotic coral ecosystem and association with fish spawning aggregations by three species of shark. *PLOS ONE* 11, e0151221.
142. Hunt, R.H., L. Perkins, and J. Tamarack (1994). Assessment of Cox Lagoon, Belize, Central America as a Morelet's crocodile sanctuary. In 'Proceedings of the 12th Working Meeting of the Crocodile Specialist Group', 1994, Pattaya, Thailandia pp. 117-130. (IUCN - The World Conservation Union: Gland, Switzerland.)
143. Platt, S., T. Rainwater, and S. Nichols (2004). A recent population assessment of the American crocodile (*Crocodylus acutus*) in Turneffe Atoll, Belize. *Herpetological Bulletin*, 26-32.
144. Meerman, J. (1992). The status of crocodiles in the eastern Corozal District. *Occasional Papers of the Belize Natural History Society* 1, 1-5.

145. Platt, S. and J. Thorbjarnarson Preliminary assessment of the status of the American crocodile (*Crocodylus acutus*) in the coastal zone of Belize. 1996 pp. 184-206. (IUCN - The World Conservation Union: Gland, Switzerland.)
146. Platt, S.G. (1996) The ecology and status of Morelet's crocodile in Belize. PhD Thesis. (Clemson University.)
147. Platt, S.G. and J.B. Thorbjarnarson (2000). Status and conservation of the American crocodile, *Crocodylus acutus*, in Belize. Biological Conservation 96, 13-20.
148. Platt, S.G. and J.B. Thorbjarnarson (2000). Population status and conservation of Morelet's crocodile, *Crocodylus moreletii*, in northern Belize. Biological Conservation 96, 21-29.
149. Platt, S.G., J.B. Thorbjarnarson, and T. Rainwater (1999). Occurrence of the American Crocodile in Lighthouse Atoll, Belize. Caribbean Journal of Science 35, 316-317.
150. Platt, S.G., J.B. Thorbjarnarson, and T.R. Rainwater (1999). Distribution of Morelet's crocodile (*Crocodylus moreletii*) in southern Belize. The Southwestern Naturalist 44, 395-398.
151. Rainwater, T. and S. Piatt (2009). Possible decline of an American Crocodile (*Crocodylus acutus*) population on Turneffe Atoll, Belize. Herpetological Bulletin, 3.
152. Stafford, P.J., S.T. McMurtry, T.R. Rainwater, D.A. Ray, L.D. Densmore, and B. Barr (2003). Morelet's crocodile (*Crocodylus moreletii*) in the Macal River watershed, Maya mountains, Belize. Herpetological Bulletin, 15-23.
153. Tellez, M., B. Arevalo, I. Paquet-Durand, and S. Heflick (2017). Population status of Morelet's Crocodile (*Crocodylus moreletii*) in Chiriquibul Forest, Belize. Mesoamerican Herpetology 4, 8-21.
154. Chevis, M.G., B.J. Godley, J.P. Lewis, J.J. Lewis, K.L. Scales, and R.T. Graham (2017). Movement patterns of juvenile hawksbill turtles *Eretmochelys imbricata* at a Caribbean coral atoll: long-term tracking using passive acoustic telemetry. Endangered Species Research 32, 309-319.
155. Tellez, M., M. Boucher, and K. Kohlman (2016). Population status of the American crocodile (*Crocodylus acutus*) in Caye Caulker, Belize. Mesoam Herpetol 3, 450-460.
156. Tellez, M. and M. Boucher (2018). The lessons of history and the future of American Crocodile conservation in Belize. Herpetological Review 49, 492-498.
157. Wood, F. and J. Wood (1993). Release and recapture of captive-reared green sea turtles, *Chelonia mydas*, in the waters surrounding the Cayman Islands. The Herpetological Journal 3, 84-89.
158. Blumenthal, J.M., T.J. Austin, C.D.L. Bell, J.B. Bothwell, A.C. Broderick, G. Ebanks-Petrie, J.A. Gibb, K.E. Luke, J.R. Olynik, M.F. Orr, J.L. Solomon, and B.J. Godley (2009). Ecology of Hawksbill Turtles, *Eretmochelys imbricata*, on a Western Caribbean foraging ground. Chelonian Conservation and Biology 8, 1-10.
159. Abadia, G. (1996). Population dynamics and conservation strategies for *Crocodylus acutus* in Bahia Portete, Colombia. In '13th Working Meeting of the Crocodile Specialist Group', 1996, Santa Fé, Argentina pp. 176-183. (IUCN-The World Conservation Union: Gland, Switzerland.)

160. Balaguera Reina, S.A. (2017) Distribución espacial y descripción del hábitat de los Crocodylia del Parque Nacional Natural Vía Isla Salamanca, Caribe colombiano. Bachelor Thesis. (Universidad de Bogotá Jorge Tadeo Lozano.)
161. Balaguera-Reina, S.A., J. Barbosa-Cabanzo, Y. Moná-Sanabria, N. Farias-Cutidor, D. Caicedo-Herrera, R. Martínez-Palacios, and J.F. González-Maya (2010). Estado poblacional de *Caiman crocodilus* en la cuenca baja y media del río Atrato, Departamento de Chocó, Colombia. Revista Latinoamericana de Conservación 1, 131-135.
162. Barahona, S., P. Bonilla, A. Martínez, and H. Naranjo (1996). Estado, distribución, sistemática y conservación de los Crocodylia colombianos. In. (Ed.^Eds pp. (Ministerio del Medio Ambiente, Santa Fe de Bogota, Colombia.)
163. de la Ossa-Velásquez, J. Colonización y ocupación territorial de lagunas artificiales por *Caiman crocodilus fuscus* (Cope, 1868) Crocodylia: Alligatoridae. In '13 th Working Meeting of the Crocodile Specialist Group', 1996, Santa Fe, Argentina pp. 117-130. (UCN-The World Conservation Union: Gland, Switzerland.)
164. Forero-Medina, G., G. Castaño-Mora, and M. Rodríguez Melo (2006). Ecología de caiman *Crocodilus fuscus* en San Andrés Isla, Colombia; un estudio preliminar. Caldasia 28, 115-124.
165. Morales-Betancourt, M.A., C.A. Lasso, J. De La Ossa-Velasquez, and A. Fajardo-Patiño (2013) 'Biología y conservación de los Crocodylia de Colombia.' edn. (Instituto de Investigación de Recursos Biológicos Alexander von Humboldt (IAvH): Bogotá, D.C., Colombia.)
166. Ceballos-Fonseca, C. (2004). Distribución de playas de anidación y áreas de alimentación de tortugas marinas y sus amenazas en el Caribe Colombiano. Boletín de Investigaciones Marinas y Costeras 33, 79-99.
167. Rincón-Díaz, M.P. and C.J. Rodríguez-Zárate (2004). Caracterización de playas de anidación y zonas de alimentación de tortugas marinas en el archipiélago de San Bernardo, Caribe Colombiano. Boletín de Investigaciones Marinas y Costeras 33, 137-158.
168. Pabon-Aldana, K., C.L. Noriega-Hoyos, and G.A. Jauregui (2012). First satellite track of a head-started juvenile Hawksbill in the Colombian Caribbean. Marine Turtle Newsletter, 4-7.
169. Bjorndal, K.A., J.A. Wetherall, A.B. Bolten, and J.A. Mortimer (1999). Twenty-six years of green turtle nesting at Tortuguero, Costa Rica: An encouraging trend. Conservation Biology 13, 126-134.
170. Chacón-Chaverri, D. and K.L. Eckert (2007). Leatherback sea turtle nesting at Gandoca Beach in Caribbean Costa Rica: management recommendations from fifteen years of conservation. Chelonian Conservation and Biology 6, 101-110.
171. Rivas, M.L., C. Fernandez, and A. Marco (2016). Nesting ecology and population trend of leatherback turtles *Dermochelys coriacea* at Pacuare Nature Reserve, Costa Rica. Oryx 50, 274-282.
172. Troëng, S., P. H Dutton, and D. Evans (2005). Migration of hawksbill turtles *Eretmochelys imbricata* from Tortuguero, Costa Rica. Ecography 28, 394-402.

173. Chevalier, J., M.H. Godfrey, and M. Girondot (1999). Significant difference of temperature-dependent sex determination between French Guiana (Atlantic) and Playa Grande (Costa-Rica, Pacific) leatherbacks (*Dermochelys coriacea*). *Annales des Sciences Naturelles Zoologie et Biologie Animale* 20, 147-152.
174. Gatto, C.R., A. Rotger, N.J. Robinson, and P.S. Tomillo (2018). A novel method for photo-identification of sea turtles using scale patterns on the front flippers. *Journal of Experimental Marine Biology and Ecology* 506, 18-24.
175. Murray, C.M., M. Easter, S. Padilla, M.S. Marin, and C. Guyer (2016). Regional warming and the thermal regimes of American crocodile nests in the Tempisque Basin, Costa Rica. *Journal of Thermal Biology* 60, 49-59.
176. Velez-Espino, A., H. Pheasey, A. Araújo, and L.M. Fernández (2018). Laying on the edge: demography of green sea turtles (*Chelonia mydas*) nesting on Playa Norte, Tortuguero, Costa Rica. *Marine Biology* 165, 53.
177. Berovides, A., V. Mendez, and R. Rodriguez Análisis de la explotación del caimán común o Babilla (*Caiman crocodilus*) en la Isla de la Juventud, Cuba. In 'Proceedings of the 15th Working Meeting of the IUCN-SSC Crocodile Specialist Group', 2000, Varadero, Cuba pp. 249-261. (IUCN - The World Conservation Union: Gland, Switzerland.)
178. López, D., R. Soberon, and A. Berovides Distribución y abundancia del cocodrilo americano (*Crocodylus acutus* Cuvier) en el sector costero sur de la Isla de la Juventud, Cuba. In 'Proceedings of the 15th Working Meeting of the Crocodiles Specialist Group', 2000 pp. 59-70. (IUCN, World Conservation Union: Gland, Switzerland.)
179. Ramos, R. Estimados poblacionales comparativos del cocodrilo cubano *Crocodylus rhombifer* realizados en 1993 y 1996 en la Ciénaga de Zapata, Matanzas, Cuba. In 'Proceedings of the 15th Working Meeting of the IUCN-SSC Crocodile Specialist Group', 2000 pp. 1-16. (IUCN - The World Conservation Union: Gland, Switzerland.)
180. Ramos, R. (2014). Protocolo para el monitoreo del cocodrilo cubano (*Crocodylus rhombifer*). Proyecto GEF/PNUD. Aplicación de un enfoque regional al manejo de las áreas marino-costeras protegidas, en la región Archipiélago del Sur de Cuba. Centro Nacional de Áreas Protegidas, La Habana, Cuba. 52p.
181. Ramos, R., V. de Buffrenil, and J. Ross Current status of the Cuban crocodile, *Crocodylus rhombifer*, in the wild. In 'Proceedings of the 12th Working Meeting of the Crocodile Specialist Group', 1994 pp. 113-140. (IUCN - The World Conservation Union: Gland, Switzerland.)
182. Rodríguez-Soberón, R. Situación actual de *Crocodylus acutus* en Cuba. In 'Proceedings of the 15th Working Meeting of the Crocodile Specialist Group', 2000 pp. 17-32. (IUCN - The World Conservation Union: Gland, Switzerland.)
183. Rodriguez-Soberón, R.A. (2009) Situación, estrategia de conservación y uso sostenible de *Crocodylus acutus* en Cuba. PhD Thesis. (Universidad de Alicante, España. Universidad de Pinar del Río, Cuba.)
184. Alonso-Tabet, M., R. Rodríguez-Soberón, V. Berovides-Álvarez, Y. Alonso-Jiménez, and M. López-Salcedo (2014) 'Protocolo para el monitoreo del cocodrilo americano (*Crocodylus acutus*)'. Proyecto GEF/PNUD. Aplicación de un enfoque regional al manejo de las áreas marino-costeras protegidas, en la región Archipiélago del Sur de Cuba.' edn. (Centro Nacional de Áreas Protegidas: La Habana, Cuba.)

185. Azanza Ricardo, J. (2015). El Centro de Investigaciones Marinas y la conservación de las tortugas marinas en Cuba. Revista de Investigaciones Marinas 35, 41-54.
186. Azanza-Ricardo, J., R. Borrego, N. Same-Vargas, E.C. Sosa, E.S. Cabrera, R. Pantoja, L.G. López, and A.R. García (2010). Anidación de tortugas marinas en Punta Francés, Isla de la Juventud, Cuba. Revista de Investigaciones Marinas 31, 108-114.
187. Azanza-Ricardo, J., J.L. Gerhartz-Muro, Y. Forneiro Martín-Viaña, and F. Moncada-Gavilán (2015). Efectividad del monitoreo de la anidación de tortugas marinas para determinar el éxito reproductivo en playas del sur de Cuba. Latin American Journal of Aquatic Research 43, 548-556.
188. Azanza-Ricardo, J., M.E. Ibarra, G. Espinosa, R. Díaz, and G. González-Sansón (2003). Conducta de anidación de la tortuga verde (*Chelonia mydas*) en las playas Antonio y Caleta de los Piojos de la Península de Guanahacabibes, Pinar del Río, Cuba. Revista de Investigaciones Marinas 24, 231-240.
189. Almaguer-Valdés, Y., J. Azanza-Ricardo, F. Bretos-Trelles, and O. Espada-Abad (2014). Primer ensayo de la foto-identificación en una población anidadora de tortugas marinas. Revista de Investigaciones Marinas 34, 43-51.
190. Sánchez, Y.F., R. Díaz-Fernández, and R.D. Fernández (2007). Características de la anidación de la tortuga verde *Chelonia mydas* (Testudinata, Cheloniidae) en la playa Caleta de los Piojos, Cuba, a partir de marcaciones externas. Animal Biodiversity and Conservation 30, 211-218.
191. Schubert, A., W. James, H. Mendez, and G. Santana Headstarting and translocation of juvenile *Crocodylus acutus* in Lago Enriquillo, Dominican Republic. In 'Proceedings of the 13th Working Meeting of the Crocodile Specialist Group', 1996 pp. 166-175. (IUCN-The World Conservation Union Gland, Switzerland: Gland, Switzerland.)
192. Schubert, A. and H. Méndez Métodos para estimar el tamaño de la población del Cocodrilo Americano (*Crocodylus acutus*) en el Lago Enriquillo, República Dominicana. In 'Proceedings of the 15th Working Meeting of the Crocodile Specialist Group', 2000 pp. 372-381. (IUCN - The World Conservation Union: Gland, Switzerland.)
193. Hawkes, L.A., J. Tomás, O. Revuelta, Y.M. León, J.M. Blumenthal, A.C. Broderick, M. Fish, J.A. Raga, M.J. Witt, and B.J. Godley (2012). Migratory patterns in hawksbill turtles described by satellite tracking. Marine Ecology Progress Series 461, 223-232.
194. Ministerio de Medio Ambiente y Recursos Naturales (2014). Resultados del monitoreo de tortugas marinas en la Playa Oeste de la Isla Catalina, Provincia La Romana, Temporada 2013. Santo Domingo, República Dominicana, No.
195. de Thoisy, B., A. Lavergne, M. Blanc, and A. Joly Status of the french guianan black caiman (*Melanosuchus niger*) population. In 'Proceedings of the 16th Meeting of the Crocodile Specialist Group', 2002, Gainesville, FL, US p. 223. (IUCN – The World Conservation Union: Gland, Switzerland.)
196. Girondot, M. and J. Fretey (1996). Leatherback turtles, *Dermochelys coriacea*, nesting in French Guiana, 1978-1995. Chelonian Conservation and Biology 2, 204-208.
197. Fossette, S., P. Gaspar, Y. Handrich, Y.L. Maho, and J.Y. Georges (2008). Dive and beak movement patterns in leatherback turtles *Dermochelys coriacea* during internesting intervals in French Guiana. Journal of Animal Ecology 77, 236-246.

198. Caut, S., E. Guirlet, P. Jouquet, and M. Girondot (2006). Influence of nest location and yolkless eggs on the hatching success of leatherback turtle clutches in French Guiana. Canadian Journal of Zoology 84, 908-915.
199. Dutton, D.L., P.H. Dutton, M. Chaloupka, and R.H. Boulon (2005). Increase of a Caribbean leatherback turtle *Dermochelys coriacea* nesting population linked to long-term nest protection. Biological Conservation 126, 186-194.
200. Eckert, S.A. (2006). High-use oceanic areas for Atlantic leatherback sea turtles (*Dermochelys coriacea*) as identified using satellite telemetered location and dive information. Marine Biology 149, 1257-1267.
201. Sims, M., R. Bjorkland, P. Mason, and L.B. Crowder (2008). Statistical power and sea turtle nesting beach surveys: How long and when? Biological Conservation 141, 2921-2931.
202. Walker, G., B. Cawley, H. Pepe, A. Robb, S. Livingstone, and R. Downie (2015). The creation of a map of Hawksbill Turtle (*Eretmochelys imbricata*) nesting in Tobago, West Indies. Marine Turtle Newsletter, 3-9.
203. Sánchez Herrera, O., G.L. Segurajáuregui, G.N.O.d.l. Huerta, and B. Díaz (2011). Programa de Monitoreo del Cocodrilo de Pantano (*Crocodylus moreletii*) México-Belice-Guatemala. México. Comisión Nacional para el Conocimiento y Uso de la Biodiversidad. México. 270 pp. In. (Ed.^(Eds pp.)
204. King, F., J. Ross, and L. Gutierrez Survey of the status of the crocodilians of Nicaragua. In 'Proceedings of the 12th Working Meeting of the Crocodile Specialist Group', 1994, Pattaya, Thailand pp. 121-161. (IUCN - The World Conservation Union: Gland, Switzerland.)
205. Cedeño-Vázquez, J.R., J.P. Ross, and S. Calmé (2006). Population status and distribution of *Crocodylus acutus* and *C. moreletii* in southeastern Quintana Roo, Mexico. Herpetological Natural History 10, 17-30.
206. Charruau, P., J. Cedeño-Vázquez, and S. Calmé (2005). Status and conservation of the American crocodile (*Crocodylys acutus*) in Banco Chinchorro Biosphere Reserve, Quintana Roo, Mexico. Herpetological Review 36, 390-394.
207. Domínguez-Laso, J. (2002) Análisis poblacional de *Crocodylus acutus* (Cuvier 1807) y *Crocodylus moreletii* (Duméril 1851) en el sistema lagunar norte de la Reserva de la Biosfera Sian Ka'an, Quintana Roo, México. Bachelor Thesis. (Universidad Autónoma Metropolitana.)
208. González-Cortés, H. (2007). Estudio poblacional de *Crocodylus acutus* (Cuvier, 1807) en el Refugio Estatal de Flora y Fauna Laguna de Colombia, Cozumel, Quintana Roo, México. Córdoba (México): Universidad Veracruzana.
209. Merediz-Alonso, G. (1999) Ecology, sustainable use by local people, and conservation of Morelet's crocodile(*Crocodylus moreletii*) in Sian Ka'an Biosphere Reserve, Quintana Roo, Mexico. Master Thesis. (State University of New York. College of Environmental Science and Forestry, Syracuse, NY.)
210. Sigler, L., F. León-O, J. Domínguez-L, P. Lavín, and O. Hinojosa Monitoreo de poblaciones silvestres del cocodrilo de Morelet *Crocodylus moreletii* en varios estados de la República Mexicana. In 'Proceedings of the 15th Working Meeting of the Crocodile Specialist Group', 2002, Gland, Switzerland and Cambridge, UK p. 222. (IUCN - The World Conservation Union: Gland, Switzerland.)

211. Villegas Castillo, A. (2006) Ecología trófica del cocodrilo americano (*Crocodylus acutus*) en la costa sur de Quintana Roo, México. Master Thesis. (El Colegio de la Frontera Sur.)
212. Cuevas, E., F.A. Abreu-Grobois, V. Guzmán-Hernández, M. Liceaga-Correa, and R.P. Van Dam (2008). Post-nesting migratory movements of hawksbill turtles *Eretmochelys imbricata* in waters adjacent to the Yucatan Peninsula, Mexico. Endangered Species Research 10, 123-133.
213. Zurita, J., R. Herrera, and B. Prezas (1993). Tortugas marinas del Caribe. Biodiversidad Marina y costera de México, 735-750.
214. Zurita, J.C., R. Herrera, A. Arenas, M.E. Torres, C. Calderon, L. Gomez, J.C. Alvarado, and R. Villavicencio Nesting loggerhead and green sea turtles in Quintana Roo, Mexico. In 'Proceedings of the Twenty-Second Annual Symposium on Sea Turtle Biology and Conservation', 2003 pp. 125-127.
215. Diez, C.E. and R.P. van Dam (2002). Habitat effect on hawksbill turtle growth rates on feeding grounds at Mona and Monito Islands, Puerto Rico. Marine Ecology Progress Series 234, 301-309.
216. Godfrey, M.H., N. Mrosovsky, and R. Barreto (1996). Estimating past and present sex ratios of sea turtles in Suriname. Canadian Journal of Zoology 74, 267-277.
217. Godfrey, M.H. and N. Mrosovsky (2006). Pivotal temperature for green sea turtles, *Chelonia mydas*, nesting in Suriname. The Herpetological Journal 16, 55-61.
218. Arteaga, A. and S. Sánchez (1996). Conservación y manejo de *Crocodylus acutus* en la Cuenca Baja del Río Yaracuy, Venezuela. 1996, Santa Fé, Argentina pp. 153-161. (IUCN - The World Conservation Union: Gland, Switzerland.)
219. Barros, T., A. Urdaneta, A. Lander, R. López, and T. Gutiérrez (2005). Reforzamiento y seguimiento de la población de Caimanes de la Costa (*Crocodylus acutus*) en la Ciénaga de Los Olivitos, Estado Zulia, Venezuela. Ciencia 13.
220. González-Fernández, M.J. (1999). Conservación del caiman de la costa (*Crocodylus acutus*) en la Bahía de Turiamo, Estado Aragua, Venezuela (1995-1998). Informe mimiografico MARNR-PROFAUNA. 39 p., No.
221. Lander-García, A. (2003). Seguimiento de la población del caiman de la costa (*Crocodylus acutus* Cuvier, 1807) en la Bahía de Turiamo, Estado Aragua, Venezuela. ONDB, No. (Maracay.)
222. Seijas, A.E. (1996). Coexistencia de babas y caimanes en la región costera venezolana. Herpetología Neotropical 2, 217-253.
223. Thorbjarnarson, J.B. and G. Hernández (1993). Reproductive ecology of the Orinoco crocodile (*Crocodylus intermedius*) in Venezuela. I. Nesting ecology and egg and clutch relationships. Journal of Herpetology, 363-370.
224. Urdaneta, A. and T. Barros (2006). Evaluación poblacional del caimán de la costa (*Crocodylus acutus*) en el Embalse Pueblo Viejo, Estado Zulia, Venezuela. Boletín del Centro de Investigaciones Biológicas 40.
225. Velasco, A. and V. Blanco Population evaluation of the spectacle caiman (*Caiman crocodilus*) in the Orinoco delta. In 'Proceedings of the 13th Working Meeting of the Crocodile Specialist Group', 1996, Gland, Switzerland pp. 107-110. (IUCN - The World Conservation Union: Gland, Switzerland.)

226. Velasco, A. and A. Lander Evaluation of the reintroduction program for American Crocodiles (*Crocodylus acutus*) in the Cuare wildlife refuge, Falcon State, Venezuela. In 'Proceedings of the 14 th Working Meeting of the Crocodile Specialist Group-IUCN', 1998 pp. 320-324. (IUCN - The World Conservation Union: Gland, Switzerland.)
227. Wildermann, N., N. Espinoza, M. Montiel-Villalobos, and H. Barrios-Garrido Analysis of the artisanal longline fishing gear at Zapara Island: a threat for subadults loggerhead sea turtles? In 'Proceedings of the WorkshopTackling Fisheries Bycatch: Managing and reducing sea turtle bycatch in gillnets', 2008 p. 32.
228. Espinoza-Rodríguez, N., P. Vernet, L. Morán, H.B. Garrido, and N. Wildermann (2014). Primer reporte de la actividad de anidación de tortugas marinas en la costa nor-occidental del Golfo de Venezuela. Boletin del Centro de Investigaciones Biologicas Universidad del Zulia 47, 86-95.
229. Fajardo, E., H. Guada, and J. Hernández (2010). Estimación de la población de hembras anidadoras y esfuerzo reproductivo de la tortuga cardón (*Dermochelys coriacea*) en playa Querepare, península de Paria, durante la temporada 2004. Ciencia 18, 165 - 174.
230. Fish, M.R., I.M. Cote, J.A. Gill, A.P. Jones, S. Renshoff, and A.R. Watkinson (2005). Predicting the impact of sea-level rise on Caribbean Sea turtle nesting habitat. Conservation biology 19, 482-491.
231. Garcia-Cruz, M.A., M. Lampo, C.L. Penaloza, W.L. Kendall, G. Sole, and K.M. Rodriguez-Clark (2015). Population trends and survival of nesting green sea turtles *Chelonia mydas* on Aves Island, Venezuela. Endangered Species Research 29, 103-116.
232. González-Rivero, M.F., H.J. Guada, M. de los Ángeles Rondón, and L.G. Morales (2015). Anidación de tortugas marinas en el sector noroccidental del Parque Nacional Morrocoy, estado Falcón, Venezuela. Anartia 25, 17-31.
233. Hernández, R., J. Buitrago, and H. Guada (2005). Evaluación de la anidación de la tortuga cardón, *Dermochelys coriacea* (Vandelli, 1761)(Reptilia: Dermochelyidae), en playa Parguito, isla de Margarita, durante la temporada 2001. Memorias de la Fundación La Salle de Ciencias Naturales, 161-162.
234. Hunt, L.E. (2009) Characterization of habitat for hawksbill turtle (*Eretmochelys imbricata*) in los Roques Archipelago National Park, Venezuela. Master Thesis. (Texas A&M University.)
235. Thorbjarnarson, J., F. Mazzotti, E. Sanderson, F. Buitrago, M. Lazcano, K. Minkowski, M. Muñiz, P. Ponce, L. Sigler, and R. Soberon (2006). Regional habitat conservation priorities for the American crocodile. Biological Conservation 128, 25-36.