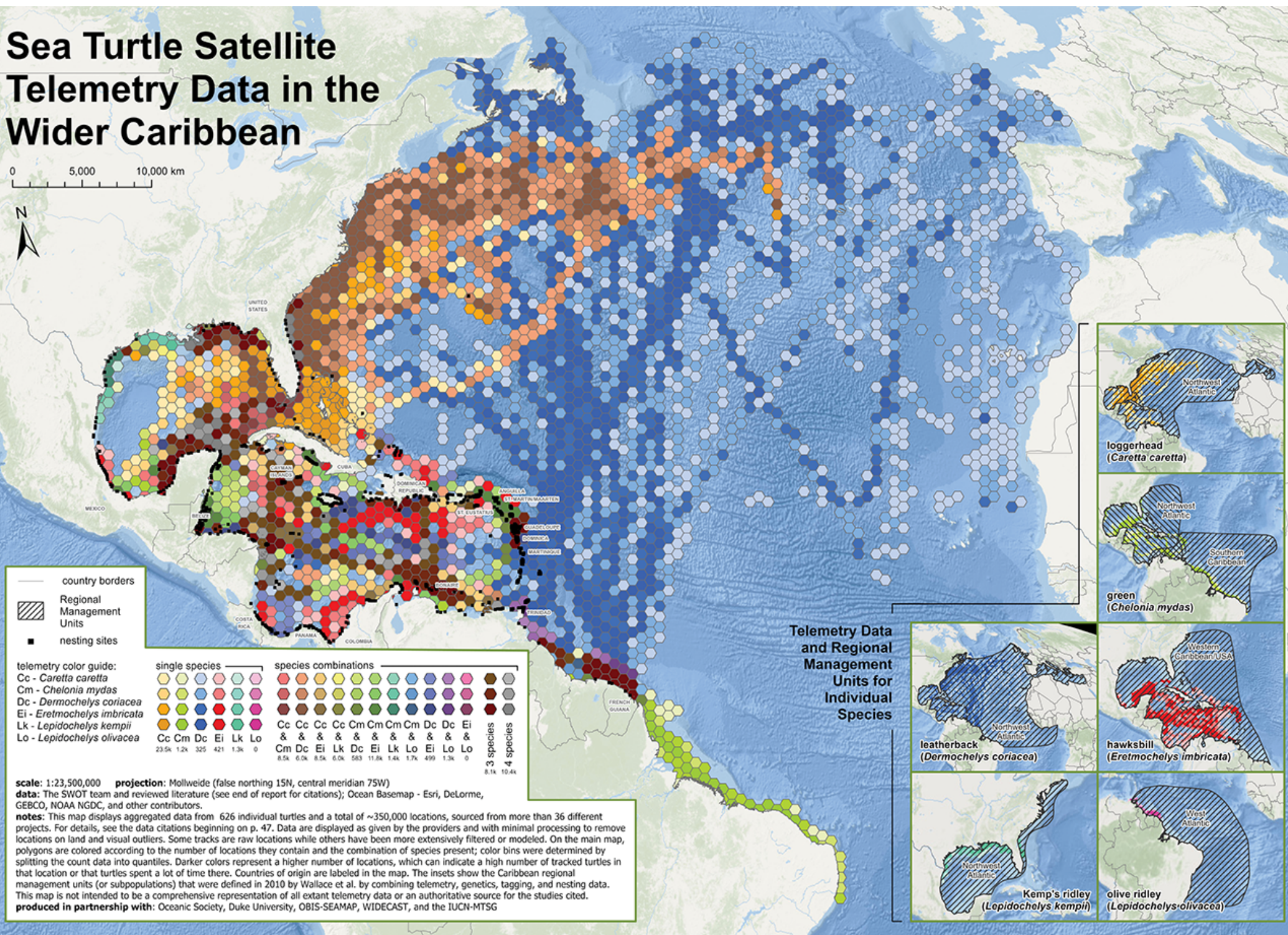


Sea Turtle Satellite Telemetry Data in the Wider Caribbean

0 5,000 10,000 km



- country borders
- ▨ Regional Management Units
- nesting sites

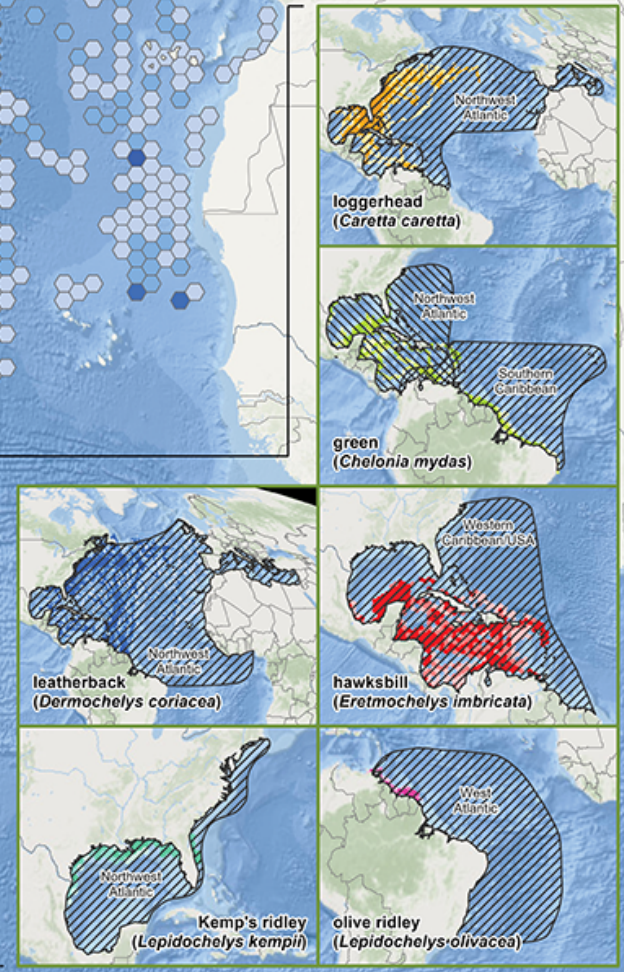
telemetry color guide:

- Cc - *Caretta caretta*
- Cm - *Chelonia mydas*
- Dc - *Dermochelys coriacea*
- Ei - *Eretmochelys imbricata*
- Lk - *Lepidochelys kempii*
- Lo - *Lepidochelys olivacea*

single species	species combinations																																											
<table border="1"> <tr><td>Cc</td><td>Cm</td><td>Dc</td><td>Ei</td><td>Lk</td><td>Lo</td></tr> <tr><td>23.5k</td><td>1.2k</td><td>325</td><td>421</td><td>1.3k</td><td>0</td></tr> </table>	Cc	Cm	Dc	Ei	Lk	Lo	23.5k	1.2k	325	421	1.3k	0	<table border="1"> <tr> <td>Cc Cc</td><td>Cc Cc</td><td>Cm Cm</td><td>Cm Cm</td><td>Cm Cm</td><td>Cm Cm</td><td>Dc Dc</td><td>Dc Dc</td><td>Ei Ei</td><td>Ei Ei</td> </tr> <tr> <td>& &</td><td>& &</td><td>& &</td><td>& &</td><td>& &</td><td>& &</td><td>& &</td><td>& &</td><td>& &</td><td>& &</td> </tr> <tr> <td>8.5k</td><td>6.0k</td><td>8.5k</td><td>6.0k</td><td>583</td><td>11.8k</td><td>1.4k</td><td>1.7k</td><td>499</td><td>1.3k</td><td>0</td> </tr> </table>	Cc Cc	Cc Cc	Cm Cm	Cm Cm	Cm Cm	Cm Cm	Dc Dc	Dc Dc	Ei Ei	Ei Ei	& &	& &	& &	& &	& &	& &	& &	& &	& &	& &	8.5k	6.0k	8.5k	6.0k	583	11.8k	1.4k	1.7k	499	1.3k	0
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8.5k	6.0k	8.5k	6.0k	583	11.8k	1.4k	1.7k	499	1.3k	0																																		
	<table border="1"> <tr><td>3 species</td><td>4 species</td></tr> <tr><td>8.1k</td><td>10.4k</td></tr> </table>	3 species	4 species	8.1k	10.4k																																							
3 species	4 species																																											
8.1k	10.4k																																											

scale: 1:23,500,000 **projection:** Mollweide (false northing 15N, central meridian 75W)
data: The SWOT team and reviewed literature (see end of report for citations); Ocean Basemap - Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors.
notes: This map displays aggregated data from 626 individual turtles and a total of ~350,000 locations, sourced from more than 36 different projects. For details, see the data citations beginning on p. 47. Data are displayed as given by the providers and with minimal processing to remove locations on land and visual outliers. Some tracks are raw locations while others have been more extensively filtered or modeled. On the main map, polygons are colored according to the number of locations they contain and the combination of species present; color bins were determined by splitting the count data into quantiles. Darker colors represent a higher number of locations, which can indicate a high number of tracked turtles in that location or that turtles spent a lot of time there. Countries of origin are labeled in the map. The insets show the Caribbean regional management units (or subpopulations) that were defined in 2010 by Wallace et al. by combining telemetry, genetics, tagging, and nesting data. This map is not intended to be a comprehensive representation of all extant telemetry data or an authoritative source for the studies cited.
produced in partnership with: Oceanic Society, Duke University, OBIS-SEAMAP, WIDECAS, and the IUCN-MTSG

Telemetry Data and Regional Management Units for Individual Species



SWOT Data Citations

WIDER CARIBBEAN

The data citations that follow correspond directly to the maps of Wider Caribbean sea turtle biogeography on pp. 24–27. To use these data for research or publication, you must obtain permission from the data providers.

NESTING DATA CITATIONS: WIDER CARIBBEAN

The map of sea turtle nesting biogeography in the Wider Caribbean Region (pp. 24–25) was produced in partnership with WIDECAS (Wider Caribbean Sea Turtle Conservation Network), and the data were sourced almost exclusively from WIDECAS's 2019 publication: Eckert, K. L., and A. E. Eckert. 2019. *An Atlas of Sea Turtle Nesting Habitat for the Wider Caribbean Region*. Rev. ed. WIDECAS Technical Report 19, Godfrey, IL.

Following is a list of all of the data providers to the WIDECAS Atlas and, therefore, to the nesting biogeography map on pp. 24–25, with names organized by territory. In addition to the data sourced from the WIDECAS Atlas, supplementary data were used from the SWOT network for four nesting sites with very high nesting abundance (in Costa Rica, Mexico, Trinidad and Tobago, and the United States) to better differentiate among those sites. Those four data citations are listed at the end of this section.

For detailed nesting data citations and metadata, please refer directly to the WIDECAS Atlas, available online at <http://www.widecast.org/management/nesting-beach-atlas/>.

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ADDITIONAL NESTING DATA CITATIONS

COSTA RICA

Data Sources: (1) Harrison, E. 2014. Sea turtle nesting at Tortuguero, Costa Rica. Personal communication. In Kot, C. Y., E. Fujioka, A. DiMatteo, B. P. Wallace, B. J. Hutchinson, J. Cleary, P. N. Halpin, and R. B. Mast. 2015. *The State of the World's Sea Turtles* Online Database. Data provided by the SWOT Team and hosted on OBIS-SEAMAP. Oceanic Society, IUCN Marine Turtle Specialist Group, and Marine Geospatial Ecology Lab, Duke University. <http://seamap.env.duke.edu/swot>. (2) García Varela, R., G. López Torrents, and E. Harrison. 2016. *Report on the 2015 Sea Turtle Program at Tortuguero, Costa Rica*. Unpublished report. San Pedro, Costa Rica: Sea Turtle Conservancy.

Nesting Beach: Tortuguero
Years: 2014–2015
Species and Counts: *Chelonia mydas*—greater than 100,000 crawls per year
SWOT Contact: Emma Harrison

MEXICO

Data Source: Gladys Porter Zoo Sea Turtle Conservation Program. 2013. Sea turtle nesting at Rancho Nuevo, Mexico. Personal communication. In Kot, C. Y., E. Fujioka, A. DiMatteo, B. P. Wallace, B. J. Hutchinson, J. Cleary, P. N. Halpin, and R. B. Mast. 2015. *The State of the World's Sea Turtles* Online Database: Data provided by the SWOT Team and hosted on OBIS-SEAMAP. Oceanic Society, IUCN Marine Turtle Specialist

Group, and Marine Geospatial Ecology Lab, Duke University. <http://seamap.env.duke.edu/swot>.
Nesting Beach: Rancho Nuevo
Year: 2012
Species and Counts: *Lepidochelys kempi*—greater than 10,000 crawls per year
SWOT Contacts: Patrick Burchfield and Luis Jaime Peña

TRINIDAD AND TOBAGO

Data Source: The Northwest Atlantic Leatherback Working Group. 2019. *Dermochelys coriacea* (Northwest Atlantic Ocean subpopulation). *The IUCN Red List of Threatened Species 2019*. e.T46967827A83327767.
Nesting Beach: Grand Riviere

Years: 2009–2017
Species and Counts: *Dermochelys coriacea*—greater than 10,000 crawls per year

UNITED STATES

Data Source: Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute. 2019. <https://myfwc.com/research/wildlife/sea-turtles/monitoring/>. Accessed October 2019.
Nesting Beaches: Brevard County, Martin County, Palm County
Year: 2018
Species and Counts: *Caretta caretta*—greater than 10,000 crawls per year at each location

TELEMETRY DATA CITATIONS: WIDER CARIBBEAN

The following data records refer to satellite telemetry datasets from tags that were deployed on sea turtles in the Wider Caribbean Region and were combined to create the map on pp. 26–27. They are organized by the country of deployment. For information regarding data processing and filtering, see the map introduction on p. 23. These data were generously contributed to SWOT by the people and partners listed subsequently. Records that have a SWOT ID can be viewed in detail in the SWOT online database and mapping application at <http://seamap.env.duke.edu/swot>, which contains additional information about the projects and their methodologies.

To save space, we have used the following abbreviations in the data source fields: (1) “STAT” refers to Coyne, M. S., and B. J. Godley. 2005. Satellite Tracking and Analysis Tool (STAT): An integrated system for archiving, analyzing, and mapping animal tracking data. *Marine Ecology Progress Series* 301: 1–7. (2) “SWOT Online Database” refers to Kot, C. Y., E. Fujioka, A. DiMatteo, B. P. Wallace, B. J. Hutchinson, J. Cleary, P. N. Halpin, and R. B. Mast. 2015. *The State of the World's Sea Turtles* Online Database. Data provided by the SWOT Team and hosted on OBIS-SEAMAP. Oceanic Society, IUCN Marine Turtle Specialist Group, and Marine Geospatial Ecology Lab, Duke University. <http://seamap.env.duke.edu/swot>. (3) “OBIS-SEAMAP” refers to Halpin, P. N., A. J. Read, E. Fujioka, B. D. Best, B. Donnelly, L. J. Hazen, C. Kot, K. Urian, E. LaBrecque, A. DiMatteo, J. Cleary, C. Good, L. B. Crowder, and K. D. Hyrenbach. 2009. OBIS-SEAMAP: The world data center for marine mammal, sea bird, and sea turtle distributions. *Oceanography* 22 (2): 104–115. When listed, these sources indicate that the dataset was contributed online through STAT, SWOT, or OBIS-SEAMAP.

ANGUILLA

Data Record 1

Project Title: Anguilla Marine Turtle Tracking
Project Partners: Anguilla Department of Fisheries and Marine Resources and Anguilla National Trust, funded by the European Union Voluntary Scheme for Biodiversity and Ecosystem Services in Territories of Europe Overseas
Metadata: 7 adult and 1 juvenile *Eretmochelys imbricata*; 14 juvenile *Chelonia mydas*
Data Source: Soanes, L. 2019. Anguilla marine turtle tracking. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XV (2020).
SWOT Contact: Louise Soanes

BELIZE

Data Record 2 | SWOT ID: 1284

Project Title: Hawksbill Turtle Tracking at Lighthouse Reef Atoll, Western Caribbean—MarAlliance
Metadata: 1 adult female, 1 female subadult, and 2 juvenile *Eretmochelys imbricata*
Data Sources: (1) Graham, R. 2019. Hawksbill turtle tracking at Lighthouse Reef Atoll, Western Caribbean—MarAlliance. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1284>). (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Rachel Graham

BONAIRE

Data Record 3

Project Title: Bonaire Turtles
Metadata: 5 female nesting *Caretta caretta*; 5 *Chelonia mydas*; 13 *Eretmochelys imbricata*
Data Sources: (1) Nava, M. I., and Sea Turtle Conservation Bonaire. 2019. Tracking marine turtles off of Bonaire. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XIV (2019). (2) Becking, L. E., M. J. A. Christianen, M. I. Nava, N. Miller, S. Willis, and R. P. van Dam. 2016. Post-breeding migration routes of marine turtles from Bonaire and Klein Bonaire, Caribbean Netherlands. *Endangered Species Research* 30: 117–124.
SWOT Contact: Mabel Nava

CAYMAN ISLANDS

Data Record 4 | SWOT ID: 349

Project Title: Cayman Islands 2003: Loggerhead and Green Turtles
Project Partner: Marine Turtle Research Group, Cayman Islands Department of Environment
Metadata: 1 adult *Caretta caretta*; 2 *Chelonia mydas*
Data Sources: (1) Blumenthal, J. 2018. Cayman Islands 2003: Loggerhead and Green Turtles. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/349>) on December 4, 2018. (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Janice Blumenthal

Data Record 5 | SWOT ID: 349

Project Title: Cayman Islands 2004: Loggerhead and Green Turtles
Project Partner: Marine Turtle Research Group, Cayman Islands Department of Environment
Metadata: 2 adult *Caretta caretta*; 3 *Chelonia mydas*
Data Sources: (1) Blumenthal, J. 2018. Cayman Islands 2004: Loggerhead and Green Turtles. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/349>) on December 4, 2018. (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Janice Blumenthal

Data Record 6 | SWOT ID 929

Project Title: Cayman Islands 2005: Green Turtles
Project Partner: Marine Turtle Research Group, Cayman Islands Department of Environment
Metadata: 3 adult female *Chelonia mydas*
Data Sources: (1) Blumenthal J. 2018. Cayman Islands 2005: Green Turtles. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/929>) and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=92). (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Janice Blumenthal

Data Record 7 | SWOT ID: 930

Project Title: Cayman Islands 2006: Green Turtles
Project Partner: Marine Turtle Research Group, Cayman Islands Department of Environment
Metadata: 1 adult female *Chelonia mydas*
Data Sources: (1) Blumenthal J. 2018. Cayman Islands 2006: Green Turtle. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/930>) and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=175). (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Janice Blumenthal

COLOMBIA

Data Record 8 | SWOT ID: 1292

Project Title: Caribbean Colombian Sea Turtle Satellite Tracking
Project Partners: Sea Turtles and Mammal Conservation Program, UTADEO—Colombian Caribbean, Universidad Jorge Tadeo Lozano (UTADEO), and Mundo Marino Aquarium, Museo del Mar Foundation
Metadata: 1 neonate, 1 juvenile, and 1 adult *Caretta caretta*; 1 adult, 1 subadult, and 3 juvenile *Eretmochelys imbricata*
Data Sources: (1) Sea Turtles and Mammal Conservation Program (ProCTMM). 2018. Caribbean Colombian Sea Turtle Satellite Tracking. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1292>) on December 4, 2018. (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: ProCTMM

Data Record 9 | SWOT ID: 1312

Project Title: Juveniles de la Guajira
Project Partners: College of Arts and Sciences and Department of Biology, University of Miami
Metadata: 1 juvenile *Chelonia mydas*
Data Sources: (1) Vásquez C. 2016. Juveniles de la Guajira. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1312>) and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=1132). (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Catalina Vásquez

COSTA RICA

Data Record 10

Project Title: Costa Rica Leatherback Tracking between 2004 and 2015
Metadata: 1 adult female *Dermochelys coriacea*
Data Source: Evans, D. 2020. Sea Turtle Conservancy leatherback tracking in Costa Rica: Personal Communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XV (2020).
SWOT Contact: Daniel Evans

CUBA

Data Record 11

Project Title: Cuban Hawksbills
Metadata: 1 adult male and 20 adult female *Eretmochelys imbricata*
Data Source: Moncada, F., L. Hawks, B. Godley, S. Manolis, Y. Medina, G. Nodarse, and G. Webb. 2012. Patterns of dispersal of hawksbill turtles from the Cuban shelf inform scale of conservation and management. *Biological Conservation* 148: 191–199.
SWOT Contact: Félix Moncada

DOMINICA

Data Record 12 | SWOT ID: 890

Project Title: Sea Turtles of Dominica
Project Partners: Dominica Sea Turtle Conservation Organization, International Fund for Animal Welfare, and Disney's Friends for Change Project Green
Metadata: 7 adult *Dermochelys coriacea*; 2 juvenile *Eretmochelys imbricata*
Data Sources: (1) Levenson, J. 2018. Sea Turtles of Dominica. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/890>) and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=773). (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Jacob Levenson

DOMINICAN REPUBLIC

Data Record 13

Project Title: Dominican Republic Hawksbills
Metadata: 9 nesting female *Eretmochelys imbricata*
Data Sources: (1) 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. (2) Revuelta, O., L. A. Hawkes, Y. M. León, B. J. Godley, J. A. Raga, and J. Tomás. 2015. Evaluating the importance of Marine Protected Areas for the conservation of hawksbill turtles (*Eretmochelys imbricata*) nesting in the Dominican Republic. *Endangered Species Research* 27: 169–180.
SWOT Contact: Lucy Hawkes

FRENCH GUIANA (FRANCE)

Data Record 14

Project Title: French Guiana Marine Turtle Tracking
Project Partner: CNRS
Metadata: 10 adult *Chelonia mydas*; 20 adult *Lepidochelys olivacea*; 19 adult *Dermochelys coriacea*

Data Sources: (1) Chevallier, D. 2020. Satellite tracking of marine turtles in French Guiana. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XV (2020). (2) Chambault, P., B. de Thoisy, M. Huguin, J. Martin, M. Bonola, D. Etienne, J. Gresser, G. Hiélaud, J. Mailles, F. Védie, C. Barnerias, E. Sutter, B. Guillemot, E. Dumont-Dayot, S. Regis, N. Lecerf, F. Lefebvre, C. Frouin, N. Aubert, C. Guimera, R. Bordes, L. Thieulle, M. Duru, M. Bouaziz, A. Pinson, F. Flora, P. Queneherve, T. Woignier, J. P. Allenou, N. Cimiterra, A. Benhalilou, C. Murgale, T. Maillet, L. Rangon, N. Chanteux, B. Chanteur, C. Béranger, Y. Le Maho, O. Petit, and D. Chevallier. 2018. Connecting paths between juvenile and adult habitats in the Atlantic green turtle using genetics and satellite tracking. *Ecological Evolution* 8 (24): 1–13. <https://doi.org/10.1002/ece3.4708>.
SWOT Contacts: Damien Chevallier and Phillipine Chambault

GUADELOUPE (FRANCE)

Data Record 15 | SWOT ID: 1022

Project Title: SEATAG—Guadeloupe and Saint-Martin, French West Indies
Project Partners: French State, Guadeloupe Region, European Union, and private sponsors
Metadata: 4 adult female and 5 juvenile *Chelonia mydas*; tags deployed in Guadeloupe
Data Sources: (1) Delcroix, E. 2018. SEATAG—Guadeloupe and Saint-Martin, French West Indies. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1022>) and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=942). (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Eric Delcroix

MARTINIQUE (FRANCE)

Data Record 16

Project Title: Martinique Marine Turtle Tracking
Metadata: 2 adult *Dermochelys coriacea*
Data Source: Chevallier, D. 2020. Satellite tracking of marine turtles in Martinique. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XV (2020).
SWOT Contacts: Damien Chevallier and Phillipine Chambault

MEXICO

Data Record 17 | SWOT ID: 1197

Project Title: Movimiento Migratorio de la Tortuga Carey, Islas del Parque Nacional Sistema Arrecifal Veracruzano; Acuario de Veracruz A.C.
Metadata: 2 adult female *Eretmochelys imbricata*
Data Sources: (1) Mirón, R. 2016. Movimiento migratorio de la tortuga carey, Islas del Parque Nacional Sistema. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1197>) and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=1023). (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Raúl Mirón

Data Record 18

Project Title: Yucatan Marine Turtle Tracking
Metadata: 12 adult female *Eretmochelys imbricata*; 6 adult female *Chelonia mydas*
Data Source: Cuevas, E. 2020. Hawksbill and green turtle tracking off of the Yucatan. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XV (2020).
SWOT Contacts: Eduardo Cuevas, Abigail Uribe-Martínez, and Melania C. López-Castro

PANAMA

Data Record 19

Project Title: Panama Leatherback Tracking
Metadata: 7 adult female *Dermochelys coriacea*; tags deployed between 2004 and 2015
Data Source: Evans, D. 2020. Sea Turtle Conservancy tracking of leatherbacks in Panama. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XV (2020).
SWOT Contact: Daniel Evans

PUERTO RICO (UNITED STATES)

Data Record 20

Project Title: Puerto Rico Leatherback Tracking
Metadata: 1 adult female *Dermochelys coriacea*; tags deployed between 2004 and 2015
Data Source: Evans, D. 2020. Leatherback satellite tracking in Puerto Rico. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XV (2020).
SWOT Contact: Daniel Evans

SAINT MARTIN (FRANCE)

Data Record 22 | SWOT ID: 1022

Project Title: SEATAG—Guadeloupe and Saint-Martin, French West Indies

Project Partners: French State, Guadeloupe Region, European Union, and private sponsors
Metadata: 2 juvenile *Chelonia mydas*; tags deployed in Saint Martin
Data Sources: (1) Delcroix, E. 2018. SEATAG—Guadeloupe and Saint-Martin, French West Indies. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1022>) and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=942). (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Eric Delcroix

SINT EUSTATIUS (THE NETHERLANDS)

Data Record 21

Project Title: Dutch Antilles Marine Tracking
Metadata: 3 adult female *Chelonia mydas*; 2 adult female *Eretmochelys imbricata*
Data Source: Esteban, N., R. van Dam, E. Harrison, A. Herrera, and J. Berkel. 2015. Green and hawksbill turtles in the Lesser Antilles demonstrate behavioral plasticity in inter-nesting behavior and post-nesting migration. *Marine Biology* 162: 1153–1163.
SWOT Contact: Nicole Esteban

TRINIDAD

Data Record 23

Project Title: Trinidad Leatherbacks
Metadata: 8 nesting female *Dermochelys coriacea*
Data Source: Eckert, S. 2020. Satellite tracking of adult leatherback turtles off of Trinidad. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XV (2020).
SWOT Contact: Scott Eckert

UNITED STATES

Data Record 24

Project Title: Lost Year Neonates
Metadata: 17 juvenile *Caretta caretta*; tags deployed at sea
Data Source: Mansfield, K. L., J. Wyneken, W. Porter, and J. Luo. 2014. First satellite tracks of neonate sea turtles redefine the “lost years” oceanic niche. *Proceedings of the Royal Society B* 281 (1781): 20133039.
SWOT Contact: Kate Mansfield

Data Record 25

Project Title: Mote Marine Lab Loggerheads
Metadata: 127 *Caretta caretta*; tags deployed on nesting females
Data Source: Tucker, T., and K. Mazzarella. 2018. Mote Marine Lab loggerhead tracking. Personal communication. In *SWOT Report—State of the World's Sea Turtles*, vol. XIV (2019).
SWOT Contacts: Tony Tucker and Kristen Mazzarella

Data Record 26 | SWOT ID: 1342

Project Title: Florida Loggerhead Migrations
Project Partner: National Marine Fisheries Service Office of Protected Resources
Metadata: 38 adult *Caretta caretta*; tags deployed between 1998 and 2000
Data Sources: (1) Schroeder, B. 2018. Florida Loggerhead Migrations. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1342>) on December 4, 2018. (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Barbara Schroeder

Data Record 27 | SWOT ID: 960

Project Title: Movement Patterns of Kemp's Ridley Sea Turtles in the Northwestern Gulf of Mexico, 2004–2007
Project Partner: Sea Turtle and Fisheries Ecology Research Laboratory, Department of Marine Biology, Texas A&M University at Galveston
Metadata: 7 adult female and 15 juvenile *Lepidochelys kempi*
Data Sources: (1) Seney, E. 2013. Movement patterns of Kemp's ridley sea turtles in the northwestern Gulf of Mexico, 2004–2007. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/960>). (2) OBIS-SEAMAP.
SWOT Contact: Erin Seney

Data Record 28 | SWOT ID: 1280

Project Title: Institute for Marine Mammal Studies Kemp's Ridley Tracks
Metadata: 51 juvenile, 16 subadult, and 1 adult *Lepidochelys kempi*; 2 juvenile *Caretta caretta*; 2 juvenile *Chelonia mydas*
Data Sources: (1) Eric Pulis. 2018. IMMS Ridley datasets 8 and 9. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1083>) and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=1280). (2) Coleman, A. 2017. IMMS Ridley datasets 1–7. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1083>) and originated from Satellite

Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=678). (3) STAT. (4) OBIS-SEAMAP.
SWOT Contacts: Andy Coleman and Eric Pultz

Data Record 29 | SWOT ID: 1142
Project Title: Northeast Florida Green Turtle Tracking Project
Project Partners: Guana Tolomato Matanzas National Estuarine Research Reserve, Friends of the GTM Reserve, Keepers of the Coast, and Eastman Environmental.
Metadata: 3 juvenile *Chelonia mydas*
Data Sources: (1) Eastman S. 2017. Northeast Florida Green Turtle Tracking Project. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1142>) and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=620). (2) OBIS-SEAMAP.
SWOT Contact: Erin Seney

Data Record 30
Project Title: Cape Canaveral Sea Turtle Tagging
Metadata: 32 male *Caretta caretta*; 3 *Lepidochelys kempii*
Data Sources: (1) Arendt, M. D., A. L. Segars, J. I. Byrd, J. Boynton, J. D. Whitaker, L. Parker, D. W. Owens, G. Blainvillain, J. M. Quattro, and

M. A. Roberts. 2012a. Distributional patterns of adult male loggerhead (*Caretta caretta*) sea turtles in the vicinity of Cape Canaveral, Florida, USA, during and after a major annual breeding aggregation. *Marine Biology* 159 (1): 101–112. (2) Arendt, M. D., A. L. Segars, J. I. Byrd, J. Boynton, J. Schwenter, J. D. Whitaker, and L. Parker. 2012b. Migration, distribution, and dive behavior of adult male loggerhead sea turtles (*Caretta caretta*) following dispersal from a major breeding aggregation in the North Western Atlantic. *Marine Biology* 159 (1): 113–125.
SWOT Contact: Mike Arendt

Data Record 31
Project Title: Archie Carr Green Turtles
Metadata: 19 male and 8 female adult *Chelonia mydas*
Data Sources: Bagley, D. 2019. Tracking of male and female green turtles. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XV (2020).
SWOT Contact: Dean Bagley

Data Record 32
Project Title: Archie Carr Interesting Loggerheads
Metadata: 14 adult female *Caretta caretta*
Data Sources: (1) Ceriani, S. 2019. Tracking

interesting loggerhead turtles. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XV (2020). (2) Evans, D. R., R. R. Carthy, and S. A. Ceriani. 2019. Migration routes, foraging behavior, and site fidelity of loggerhead sea turtles (*Caretta caretta*) satellite tracked from a globally important rookery. *Marine Biology* 166: 134.
SWOT Contact: Simona Ceriani

Data Record 33 | SWOT ID: 658
Project Title: Loggerhead Marinelifelife Center Tracking
Metadata: 7 adult, 3 juvenile, and 6 subadult *Caretta caretta*
Data Sources: (1) Manire, C. 2019. Loggerheads rehabilitated at Loggerhead Marinelifelife Center. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/658>). (2) OBIS-SEAMAP.
SWOT Contacts: Sarah Hirsch and Charles Manire

Data Record 34
Project Title: Gulf of Mexico Kemp’s and Green Turtles
Metadata: 9 *Lepidochelys kempii*; 15 *Chelonia mydas*
Data Source: Metz, T. 2019. Tracking Kemp’s and green turtles in the Gulf of Mexico. Personal

communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XV (2020).
SWOT Contact: Tasha Metz

Data Record 35
Project Title: Mote Additional Loggerheads
Metadata: 7 adult male *Caretta caretta*
Data Sources: (1) Mazzarella, K., R. Hardy, and D. Evans. Satellite tagged sea turtle movements associated with red tide. Poster presentation at the Annual Symposium on Sea Turtle Conservation and Biology, February 2019. (2) Mazzarella, K. Unpublished data from the Mote Marine Lab. http://www.seaturtle.org/tracking/index.shtml?project_id=1325. (3) STAT.
SWOT Contact: Kristen Mazzarella

Data Record 36
Project Title: Green Turtles from Southwest Florida
Metadata: 10 adult female *Chelonia mydas*
Data Source: Sloan, K. 2020. Tracking green turtles from southwest Florida. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XV (2020).
SWOT Contact: Kelly Sloan

GLOBAL LOGGERHEAD SATELLITE TELEMETRY

The following data records refer to satellite telemetry datasets from tags that were deployed on loggerhead turtles worldwide and were combined to create the map on pp. 32–33. The data are organized first by ocean basin and then by country of deployment. For information regarding data processing and filtering, see the note on the map on p. 32. These data were generously contributed to SWOT by the people and partners listed subsequently. Records that have a SWOT ID can be viewed in detail in the SWOT online database and mapping application at <http://seamap.env.duke.edu/swot>, which contains additional information about the projects and their methodologies.

To save space, we have used the following abbreviations in the data source fields: (1) “STAT” refers to Coyne, M. S., and B. J. Godley. 2005. Satellite Tracking and Analysis Tool (STAT): An integrated system for archiving, analyzing, and mapping animal tracking data. *Marine Ecology Progress Series* 301: 1–7. (2) “SWOT Online Database” refers to Kot, C. Y., E. Fujioka, A. DiMatteo, B. P. Wallace, B. J. Hutchinson, J. Cleary, P. N. Halpin, and R. B. Mast. 2015. The State of the World’s Sea Turtles Online Database. Data provided by the SWOT Team and hosted on OBIS-SEAMAP. Oceanic Society, IUCN Marine Turtle Specialist Group, and Marine Geospatial Ecology Lab, Duke University. <http://seamap.env.duke.edu/swot>. (3) “OBIS-SEAMAP” refers to Halpin, P. N., A. J. Read, E. Fujioka, B. D. Best, B. Donnelly, L. J. Hazen, C. Kot, K. Urian, E. LaBrecque, A. DiMatteo, J. Cleary, C. Good, L. B. Crowder, and K. D. Hyrenbach. 2009. OBIS-SEAMAP: The world data center for marine mammal, sea bird, and sea turtle distributions. *Oceanography* 22 (2): 104–115. When listed, these sources indicate that the dataset was contributed online through STAT, SWOT, or OBIS-SEAMAP.

ATLANTIC OCEAN

ARGENTINA

Data Record 1
Metadata: 6 *Caretta caretta*; tags deployed in Argentina
Data Source: González Carman, V., I. Bruno, S. Maxwell, K. Álvarez, D. Albareda, E. M. Acha, and C. Campagna. 2016. Habitat use, site fidelity, and conservation opportunities for juvenile loggerhead sea turtles in the Río de la Plata, Argentina. *Marine Biology* 163: 1–13.
SWOT Contact: Victoria González Carman

BONAIRE

Data Record 2
Metadata: 5 female *Caretta caretta*; tags deployed on nesting turtles
Data Sources: (1) Nava, M. I., and Sea Turtle Conservation Bonaire. 2019. Tracking marine turtles off of Bonaire. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XIV (2019). (2) Becking, L. E., M. J. A. Christianen, M. I. Nava, N. Miller, S. Willis, and R. P. van Dam. 2016. Post-breeding migration routes of marine turtles from Bonaire and Klein Bonaire, Caribbean Netherlands. *Endangered Species Research* 30: 117–124.
SWOT Contact: Mabel Nava

BRAZIL

Data Record 3
Metadata: 19 juvenile *Caretta caretta*; tags deployed at sea
Data Source: Mansfield, K. L., M. L. Mendilaharsu, N. F. Putman, M. A. G. dei Marcovaldi, A. E. Sacco, G. Lopez, T. Pires, and Y. Swimmer. 2017. First satellite tracks of South Atlantic sea turtle “lost years”: Trans-equatorial and seasonal implications for population connectivity. *Proceedings of the Royal Society B* 284: 20171730.
SWOT Contact: Kate Mansfield

Data Record 4
Metadata: 10 nesting *Caretta caretta*
Data Source: Marcovaldi, M. Á., G. G. Lopez,

L. S. Soares, E. S. H. M. Lima, J. C. A. Thomé, and A. P. Almeida. 2010. Satellite-tracking of female loggerhead turtles highlights fidelity behavior in northeastern Brazil. *Endangered Species Research* 12: 263–272.
SWOT Contact: Neca Marcovaldi

Data Record 5
Metadata: 13 *Caretta caretta*; tags deployed in Brazil
Data Source: Marcovaldi, M. Á. 2018. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XIV (2019).
SWOT Contact: Neca Marcovaldi

Data Record 6 | SWOT ID: 951
Project Title: Brazil Trawl-Caught Turtles
Project Partners: Fisheries Bycatch Research Group; Danielle Monteiro, Universidade Federal do Rio Grande (FURG); and Projeto TAMAR
Metadata: 3 adult and 5 juvenile *Caretta caretta* tagged after being caught in trawl fisheries and released on the continental shelf of southern Brazil in 2013 and 2014
Data Sources: (1) Monteiro, D. 2018. Brazil Trawl-Caught Turtles. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/951>) on December 4, 2018. (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Danielle Monteiro

Data Record 7 | SWOT ID: 1148
Project Title: Neonates Tagged Off Brazil
Project Partners: Fisheries Bycatch Research Group; Yonat Swimmer, Projeto TAMAR; and NOAA, University of Central Florida
Metadata: 4 juvenile *Caretta caretta*; tags deployed in 2013
Data Sources: (1) Swimmer, Y. 2017. Neonates tagged off Brazil. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1148>) on December 4, 2018. (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Yonat Swimmer

Data Record 8 | SWOT ID: 984
Project Title: Study of the Biology of Sea Turtles in Brazil through Satellite Telemetry
Project Partner: Projeto TAMAR-IBAMA

Metadata: 15 adult *Eretmochelys imbricata*; 5 adult *Dermochelys coriacea*; 10 adult *Caretta caretta*; 10 adult *Lepidochelys olivacea*; tags deployed in Brazil in 2005 and 2006
Data Sources: (1) Lopez, G. 2018. Study of the Biology of Sea Turtles in Brazil through Satellite Telemetry. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/984>) on February 10, 2020, and originated from Satellite Tracking and Analysis Tool (STAT; http://www.seaturtle.org/tracking/index.shtml?project_id=63). (2) STAT. (3) SWOT Online Database.
SWOT Contact: Gustavo Lopez

Data Record 9
Project Title: Study of Habitat Use by Loggerhead Turtles in Southern Brazil
Project Partner: Danielle Monteiro, Projeto TAMAR—NEMA/FURG
Metadata: 16 *Caretta caretta*; tags deployed in southern Brazil
Data Source: Monteiro, D. 2016. Satellite tracking of loggerhead turtles in southern Brazil. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XI (2016).

CABO VERDE

Data Record 10 | SWOT ID: 346
Project Title: Cabo Verde (Proyecto Aegina): Males and Females
Project Partners: Instituto Canario de Ciencias Marinas (ICCM), Gobierno de Canarias; Instituto Nacional de Desenvolvimento das Pescas (INDP); Direcção Geral do Ambiente; and Ministerio de Ambiente, Agricultura e Pescas
Metadata: 3 adult *Caretta caretta*
Data Sources: (1) Cruz, N. 2018. Cabo Verde (Proyecto Aegina): Males and females. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/346>) on December 4, 2018. (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Nuria Cruz

Data Record 11 | SWOT ID: 1442
Project Title: Cabo Verde: LIFE *Caretta caretta*
Project Partner: LIFE *Caretta caretta*
Metadata: 4 adult *Caretta caretta*; tags deployed in 1999

Data Sources: (1) Cruz, N. 2018. Cabo Verde. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/1442>) on December 4, 2018. (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Nuria Cruz

CANADA

Data Record 12
Metadata: 11 *Caretta caretta*; tags deployed at sea
Data Source: James, M., and Sea Turtle Unit, Fisheries and Oceans Canada. 2019. Personal communication. In *SWOT Report—State of the World’s Sea Turtles*, vol. XIV (2019).
SWOT Contact: Mike James

CANARY ISLANDS (SPAIN)

Data Record 13 | SWOT ID: 496
Project Title: Canary Islands: OAG
Project Partners: Observatorio Ambiental Granadilla; Sociedad de Estudio de Cetáceos en el Archipiélago Canario; Centro de Gestión de Biodiversidad, Departamento de Biología, Universidad de Las Palmas de Gran Canaria; and Centro de Recuperación de Fauna Silvestre, Cabilido Insular de Gran Canaria
Metadata: 18 juvenile and 1 subadult *Caretta caretta*; tags deployed between 2008 and 2010
Data Sources: (1) Machado, A. 2017. Canary Islands: OAG. Data downloaded from OBIS-SEAMAP (<http://seamap.env.duke.edu/dataset/496>) on December 4, 2018. (2) STAT. (3) OBIS-SEAMAP.
SWOT Contact: Antonio Machado

Data Record 14
Project Title: Juvenile Loggerheads (1999–2000) tagged in the Canary Islands
Project Partners: Universidad de Las Palmas de Gran Canaria and Sociedad Herpetológica Española
Metadata: 5 juvenile *Caretta caretta*; tags deployed in the Canary Islands
Data Source: Universidad de Las Palmas de Gran Canaria and Sociedad Herpetológica Española. 2017. Program number 01602: Proyecto Life B4-3200/97/247 de apoyo a la conservación del