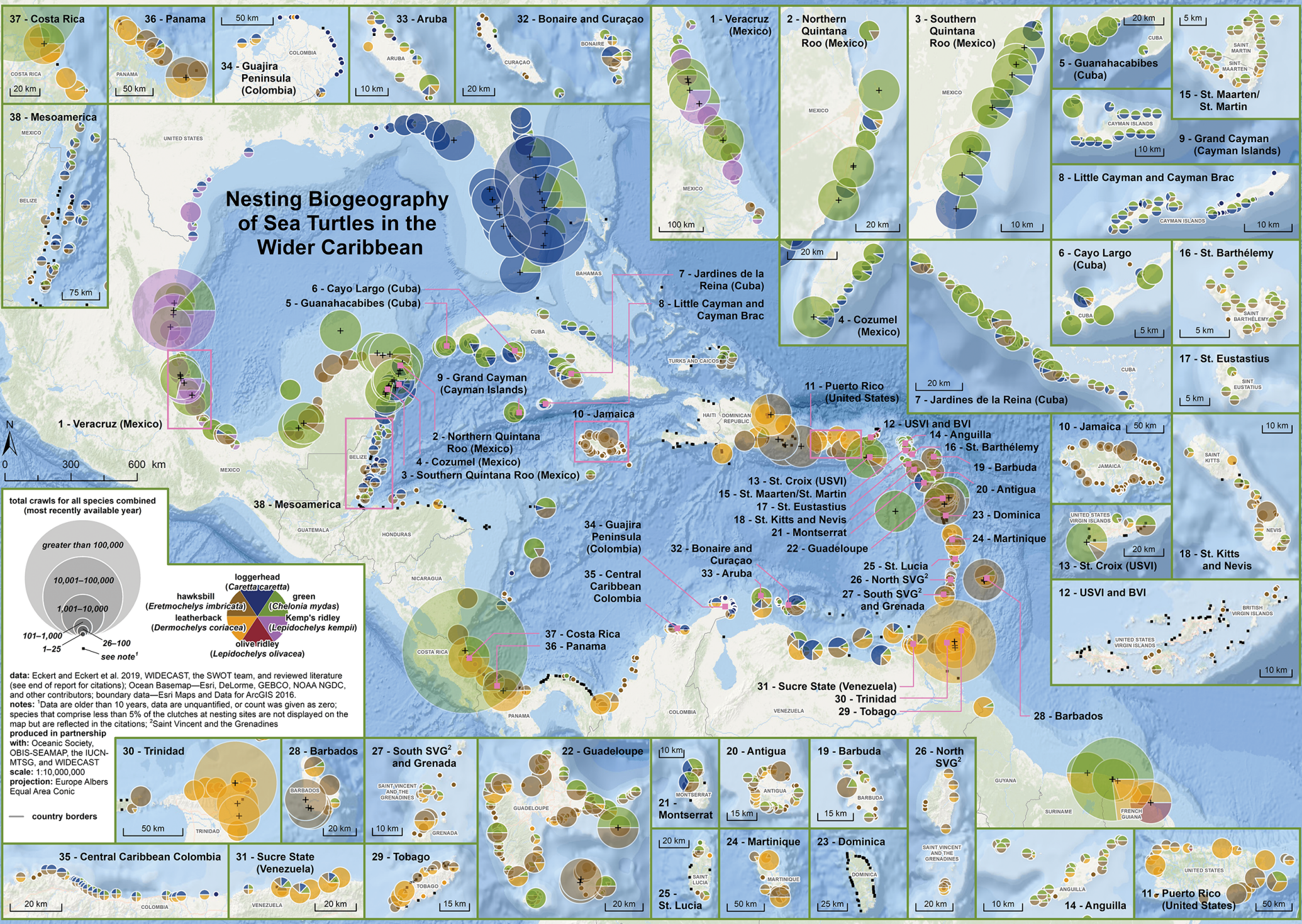
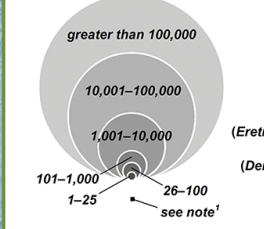


# Nesting Biogeography of Sea Turtles in the Wider Caribbean



total crawls for all species combined (most recently available year)



data: Eckert and Eckert et al. 2019, WIDECAST, the SWOT team, and reviewed literature (see end of report for citations); Ocean Basemap—Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors; boundary data—Esri Maps and Data for ArcGIS 2016.  
 notes: <sup>1</sup>Data are older than 10 years, data are unquantified, or count was given as zero; species that comprise less than 5% of the clutches at nesting sites are not displayed on the map but are reflected in the citations; <sup>2</sup>Saint Vincent and the Grenadines produced in partnership with: Oceanic Society, OBIS-SEAMAP, the IUCN-MTSG, and WIDECAST scale: 1:10,000,000 projection: Europe Albers Equal Area Conic

country borders

- loggerhead (*Caretta caretta*)
- green (*Chelonia mydas*)
- hawksbill (*Eretmochelys imbricata*)
- leatherback (*Dermochelys coriacea*)
- olive ridley (*Lepidochelys olivacea*)
- Kemp's ridley (*Lepidochelys kempi*)

- 37 - Costa Rica
- 36 - Panama
- 34 - Guajira Peninsula (Colombia)
- 33 - Aruba
- 32 - Bonaire and Curaçao
- 31 - Sucre State (Venezuela)
- 30 - Trinidad
- 29 - Tobago
- 28 - Barbados
- 27 - South SVG<sup>2</sup> and Grenada
- 26 - North SVG<sup>2</sup>
- 25 - St. Lucia
- 24 - Martinique
- 23 - Dominica
- 22 - Guadeloupe
- 21 - Montserrat
- 20 - Antigua
- 19 - Barbuda
- 18 - St. Kitts and Nevis
- 17 - St. Eustastius
- 16 - St. Barthélemy
- 15 - St. Maarten/St. Martin
- 14 - Anguilla
- 13 - St. Croix (USVI)
- 12 - USVI and BVI
- 11 - Puerto Rico (United States)
- 10 - Jamaica
- 9 - Grand Cayman (Cayman Islands)
- 8 - Little Cayman and Cayman Brac
- 7 - Jardines de la Reina (Cuba)
- 6 - Cayo Largo (Cuba)
- 5 - Guanahacabibes (Cuba)
- 4 - Cozumel (Mexico)
- 3 - Southern Quintana Roo (Mexico)
- 2 - Northern Quintana Roo (Mexico)
- 1 - Veracruz (Mexico)
- 38 - Mesoamerica

# 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 kempii*—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](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](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](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](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](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](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](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](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](http://www.seaturtle.org/tracking/index.shtml?project_id=678)). (3) STAT. (4) OBIS-SEAMAP.  
**SWOT Contacts:** Andy Coleman and Eric Poulos

**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](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](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](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