



# Inter-American Convention for the Protection and Conservation of Sea Turtles

## Ecuador

### Annual Report 2017

#### IAC Annual Report General Instructions

Annex IV of the Convention text states that each Contracting Party shall hand in an Annual Report. To complete this Annual Report, Focal Points should consult with various stakeholders involved in sea turtle issues. If you have any questions regarding this Annual Report, please write to the PT Secretariat at [secretario@iacseaturtle.org](mailto:secretario@iacseaturtle.org)

Please note that the date to submit this Annual Report is **April 30, 2017**.

#### Part I (General Information)

*Please fill out the following tables. Add additional rows if necessary.*

##### a.\_ Focal Point

|                              |   |
|------------------------------|---|
| Institution                  | Ministry of Environment – Galapagos National Park Direction |
| Name                         | Eduardo Espinoza  |
| Date Annual Report submitted | May 5 <sup>th</sup> , 2017                                  |

##### b.\_ Agency or Institution responsible for preparing this report

|   |   |
|---|---|
| Name of Agency or Institution                             | Ministry of Environment – Galapagos National Park Direction |
| Name of the person responsible for completing this report | Eduardo Espinoza  |
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#### c. \_ Others who participated in the preparation of this report

| Name                    | Agency or Institution  | E-mail   |
|-------------------------|--|--|
| Blga. Beatriz Ladines.  | Responsable de REMACOPSE-Ministerio del Ambiente                             | <a href="mailto:beatriz.ladines@ambiente.gob.ec">beatriz.ladines@ambiente.gob.ec</a>       |
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| Carlos Alfredo Cruz     | Refugio de Vida Silvestre Islas Corazón y Fragatas. Ministerio del Ambiente. | <a href="mailto:alfredo.cruz@ambiente.gob.ec">alfredo.cruz@ambiente.gob.ec</a>             |
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| Leonardo Alonzo         | RVSMC Pacoche. Ministerio del Ambiente                                       | <a href="mailto:leonardo.alonzo@ambiente.gob.ec">leonardo.alonzo@ambiente.gob.ec</a>       |



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|                |                           |  |
|----------------|---------------------------|--|
| Felipe Vallejo | Fundación Equilibrio Azul | <a href="mailto:felipe@equilibrioazul.org">felipe@equilibrioazul.org</a> |
|----------------|---------------------------|--|



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#### Part II (Policy and Management)

##### *a. \_ General description of activities carried out for the protection and conservation of sea turtles*

*In accordance with Articles IX and XVIII of the text of the Convention, each Party shall establish monitoring programs, policies and plans for implementation at a national level for the protection and conservation of sea turtles and their habitat.*

*As a result, the Party shall report on the action plans, management plan or other types of instruments, describing their location, the species considered and the actions implemented by governmental, non-governmental and private institutions related to sea turtles.*

*In addition to the above, please fill out the following tables and explain the level of progress in the comments column.*

|   | YES/NO      | Comments   |
|---|-------------|--|
|   | In Progress |  |
| Does your country have a national plan of action in accordance with Article XVIII?                          | Yes         | So far this action plan is being implemented by the SGMC |
| Does your country have policies and programs at local and regional levels in accordance with Article XVIII? | Yes         |  |
| Does your country have monitoring programs in accordance with Article IX?                                   | Yes         |  |



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***b. National legislation and international instruments related to sea turtles adopted in the preceding year***

*Describe any national regulations, international agreements and other legal instruments adopted during the preceding year (April 30, 2015-April 30, 2016) related to sea turtles and/or relevant activities. Provide a reference and attach the digital file for the legislation and its corresponding number. The laws adopting the international legislation should be included, when they exist.*

| <b>National Legislation</b>                                  |  |  |
|--|--|--|
| Type and name of legal instrument (No.)                      | Description (Range of application)   | Sanction(s) Imposed  |
| Ministerial Agreement 067-2016                               | Protection and conservation measures of Ecuador's reefs and coral communities.   | According to each institution competencies, up to developing strategies and action plans.  |
| Environmental Organic Code. Official Record 983-2017         | Regulates the rights, warranties, and principles related to a healthy environment and nature, provided in the Constitution and the international instruments ratified by the Government. | Administrative and criminal sanctions are imposed.<br>For administrative sanctions, the impact and seriousness of the infringement, the offender economic capacity, and existing mitigating and aggravating factors.<br>Criminal sanctions are according to the COIP. Terms of imprisonment are in its article 247, from one to three years. |
| Official Record 694-February 2016.                           | Amendment to fisheries Law and fishing regulations   |  |
| Ministerial Agreement No. 019, Ministerial Agreement No. 114 | Regulations on the purse seine fleet   | Ministerial agreements to regulate the purse seine fleet. Established in 2010, the onboard fisheries observers program was implemented in 2016 in the purse seine fleet.   |
| <b>International Instruments</b>                             |  |  |



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| Treaty, Convention, Agreements, Memorandum of Understanding | Year signed/or ratified |
|---|-------------------------|
| Memorandum of Understanding (MoU) between the IAC and ACAP. | December 2016           |

*Note: If this is the first time a country is submitting this information, please include all pertinent national legislation and international instruments currently in force.*



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#### c.\_ Actions for compliance with national and international legislation

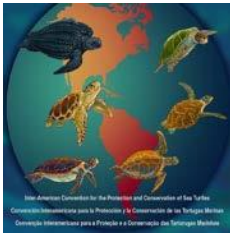
##### c.1 IAC Resolutions

Fill in the following tables for each of the IAC Resolutions listed below. In the case that a Resolution does not apply to your country, please mark the box **RESOLUTION DOES NOT APPLY**, and if a specific question does not apply, please mark the column **DOES NOT APPLY**. If you need more space to describe these actions, please attach additional pages and note the resolution and question number to which you are responding.

**Resolution CIT-COP7-2015- R2:** Conservation of the Eastern Pacific Leatherback Turtle (*Dermochelys coriacea*)

**ACCORDING TO RESOLUTION CIT-COP7-2015-R2, REPORT WHETHER YOUR COUNTRY:**

| IS COMPLYING WITH THE FOLLOWING  | RESOLUTION DOES NOT APPLY |    |   | DOES NOT APPLY |
|--|---------------------------|----|---|----------------|
|  | YES                       | NO | DESCRIBE ACTION (*)   |                |
| 1a) Have you created conservation plans and long-term programs that can reverse the critical situation of the leatherback turtle in the Eastern Pacific?                           | X                         |    | The Sea Turtle Conservation National Plan was developed and endorsed through Ministerial Agreement 234 October 6th, 2014.   |                |
| 1b) Are you implementing these conservation plans and monitoring programs?   | X                         |    | A priority nesting beaches national inventory for conservation at mainland and in Galapagos is currently in preparation   |                |
| 2. Have you taken conservation measures to eliminate poaching of leatherback turtles?  | X                         |    | *Environmental Education Program<br>*Control and Enforcement<br>*Biodiversity Management  |                |
| 3. If your country has leatherback turtle nesting beaches in the Eastern Pacific: Have you taken conservation measures to protect the nesting sites and their associated habitats? | X                         |    | During season 2016-2017 there were records of two strandings in San Pablo beach – Santa Elena – San Vicente Manabí (Puente Alcatraz). There are no reproductive records of this specimen.   |                |
| 4. Has your country adopted fishing techniques that reduce incidental capture and mortality of this species?   | X                         |    | SRP – Implementation of the Fisheries Observer Program on board longline, trawl, and purse seine fleets. Implementation of DETs in 40 trawl fishing vessels and multipurpose fishing. Implementation of the program to exchange “J” hooks for circular hooks.<br>DIGEM – MAE: training for the community and control institutions on the handling of sea turtles stranded. Bay of Caráques and San Vicente. |                |



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**Resolution CIT-COP3-2006 R-1: Hawksbill turtle conservation**  
(*Eretmochelys imbricata*)

**ACCORDING TO RESOLUTION CIT-COP3-2006-R1, REPORT WHETHER YOUR COUNTRY:**

| IS COMPLYING WITH THE FOLLOWING   | YES                               | RESOLUTION DOES NOT APPLY |  | DOES NOT APPLY |
|---|-----------------------------------|---------------------------|--|----------------|
|   |                                   | NO                        | DESCRIBE ACTION (*)  |                |
| 1. Are you strengthening monitoring of the illegal use and trade of hawksbill turtles and their products?   | X                                 |                           | In some coastal provinces through control and surveillance of protected areas, and the Ministry of Environment Province Directions wildlife units. Illegal trade and hawksbill illegal use are inspected in crafts stores. The program of honorific inspectors was implemented, they collaborate with monitoring of sea turtles and hawksbill products trafficking.  |                |
| 2. Are you enforcing pertinent hawksbill legislation?   | X                                 |                           |  |                |
| 3. Are activities being carried out in order to stop the illegal trade of hawksbill products?   | X                                 |                           |  |                |
| 4. Indicate if your country is strengthening the protection of important nesting and foraging habitats by declaring protected areas and regulating anthropogenic activities that adversely impact these habitats. | a) Protection of nesting habitats | X                         | Machalilla National Park in Manabí, “La Playita” area is protected. Equilibrio Azul and PNM. Nests monitoring and protection continue in “Playa Rosada” within the Marine Reserve El Pelado, with the group Ecuador Mundo Ecológico in Santa Elena Province. The Marine and Coastal Management Undersecretary requested the IAC Pro Tempore Secretary collaboration to be part of the scientific committee that will assess the project “Artisanal Fishing Facilities Creation in Puerto Lopez, Manabí”. This technical group will provide its knowledge on sea turtle conservation when required. |                |
|   | b) Protection of feeding habitats | X                         | Feeding grounds in Galapagos are monitored to study site fidelity and residence of specific individuals for several years. Data is collected to start management actions for their protection through the DPNG.  |                |

(\*) Specify actions implemented, the name of the project or relevant document, location, objective(s), institutions responsible, contact, financial or other support (optional), results (both positive and negative) and duration.





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**Resolution CIT-COP3-2006-R2:** Reduction of the adverse impacts of fisheries on sea turtles

**ACCORDING TO RESOLUTION CIT-COP3-2006-R2, REPORT WHETHER YOUR COUNTRY:**

| IS COMPLYING WITH THE FOLLOWING  | YES      | NO       | DESCRIBE ACTION (*)   | DOES NOT APPLY |
|--|----------|----------|---|----------------|
| Adopted the "Guidelines to Reduce Sea Turtle Mortality induced by fisheries operations", of the United Nations Food and Agriculture Organization (FAO), including: |          |          |   |                |
| <b>A. Research and monitoring of adverse impact of fisheries on sea turtles</b>  |          |          |   |                |
| • Collect information by fishery   | <b>X</b> |          | Through the Fishing Resources Undersecretary, an institution related to MAGAP, there is information on the interaction of sea turtles with the longline, trawl, and purse seine fleets.   |                |
| • Observer programs  | <b>X</b> |          | There are three observer programs regulated by the SRP  |                |
| • Research on sea turtle/fishery interactions  |          |          | It is unknown if there is research on this subject, however, the Fishing Resources Undersecretary deals with data on interactions with fisheries which are not official, therefore not available to be shared. The Marine and Coastal Management Undersecretary and CI are implementing fisheries management with the project of integrated coastal management and conservation of biodiversity.                      |                |
| • Information on non-Party vessels   |          |          |   | <b>X</b>       |
| • Cooperation with non-Party states to obtain information  |          |          |   | <b>X</b>       |
| <b>B. Mitigation measures for the following fisheries:</b>   |          |          |   |                |
| i. Long-line   | <b>X</b> |          | American BirdLife is socializing a technique called NISURI, in the communities of Santa Rosa. Santa Elena province. The Fishing Resources Undersecretary has a permanent exchange of hooks, from "J" to circular, to reduce sea turtles bycatch in longline fisheries. The activity is developed within the framework of eco-certification and compliance with the Dorado ( <i>Coryphaena hippurus</i> ) Action Plan. |                |
| ii. Gillnets   |          | <b>X</b> |   |                |
| iii. Trawling (e.g.,<br>1. TEDs: specify legally approved  | <b>X</b> |          | Training lectures are conducted through the MAE Manabí at coastal fishing grounds. Since 2014, Fishing Resources Undersecretary implemented the observer's program on board trawl, hake, and multipurpose fleets. It is mandatory for these vessels to use TEDs, in accordance with the Ministerial Agreement No. 018 and Ministerial Agreement No. 180.  |                |
| iv. TEDs, their dimensions, material, and target species for that fishery,<br>2. time-area closures: specify geographical area, time of closure and                |          |          |   |                |



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|  |          |  |   |  |
|--|----------|--|---|--|
| target species for that fishery., 3.tow times and/or 4. other measures)  |          |  |   |  |
| v. Other fishing gear (indicate which one(s))  |          |  | Since May 2016, the fisheries observers program was implemented on board purse seine vessels, establishing a compliance with 20% of their fishing journeys. Currently, there are 21 fisheries observers, who collect fish's biologic information and record bycatch.  |  |
| vi. Training programs for fishermen about best practices for safe handling and release of sea turtles incidentally caught. | <b>X</b> |  | The Ministry of Environment protected areas Isla Corazón Wildlife Refuge and Pacoche Wildlife Refuge, carried out training for civilians and governmental institutions about handling and release of terrestrial and marine fauna along with the General Direction of Maritime Interests.<br>The SRP has a permanent training program through fisheries observers on handling and release of sea turtle for the crew on trawl, purse seine, and longline vessels. |  |
| <b>C. Socio-economic considerations</b>  |          |  |   |  |
| • Support socio-economic activities that help mitigate adverse impacts of fisheries on sea turtles                         | <b>X</b> |  | Awareness campaigns at an institutional level including MAE and the SRP, with the local community   |  |

(\* Specify actions implemented, the name of the project or relevant document, location, objective(s), institutions responsible, contact, financial or other support (optional), results (both positive and negative) and duration.

#### **c.2 National and International Mandates**

*List actions that are being carried out to comply with national and international mandates (Ex: inspections, confiscations, sanctions, etc.)*

#### **d. Application[submission] of exceptions established in the Convention**

*Describe in detail the exceptions allowed in accordance with article IV, item 3(a,b,d) and Annex IV of the text of the Convention, in accordance with the procedure established by the COP (Doc. CIT-COP5-2011-R2). Attach management program.*



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#### Part III (Research information)

##### a. Threats

Indicate threats (*Coastal development, incidental capture, direct use, contamination and pathogens, and climate change*) by species, with information on the area and activities taken to control them in the following table. Lo = *Lepidochelys olivacea*; Lk = *Lepidochelys kempii*; Dc = *Dermochelys coriacea*; Ei = *Eretmochelys imbricata*; Cc = *Caretta caretta*; Cm = *Chelonia mydas*.

| Species | Threat (s)  | Action(s)  |
|---------|---|--|
| Lo      | <input checked="" type="checkbox"/> Coastal development <input type="checkbox"/> Contamination<br><input checked="" type="checkbox"/> Incidental capture <input type="checkbox"/> Pathogens<br><input type="checkbox"/> Direct use <input checked="" type="checkbox"/> Climate change | <p>(Coastal development, Contamination, Climate Change) Research jointly with the PNG to understand and be able to mitigate these threats.</p> <ul style="list-style-type: none"> <li>Sea turtle nesting beaches control to reduce threats from tourism and coastal development in Pacoche.</li> <li>Sea Turtles Awareness and Conservation program CEPA at Pacoche Protected Area and its area of influence.</li> </ul> <p>Program for monitoring beaches profile and climate change, to generate information for the nesting beaches management at Pacoche Protected Area and its area of influence<br/>Protected Areas: Muisne River, Esmeraldas River, and Galera San Francisco:<br/>Control and monitoring of</p> |



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|    |  |  |
|----|--|--|
|    |  | <p>nesting beaches in Las Palmas, Galerita, and Portete.</p> <p>Protected Area: Isla Corazón and Fragatas</p> <p>RVS does control patrols in Cantón Sucre, beach from Bahía to Punta Gorda. Cantón San Vicente, from Punta Nato to Canoa.</p> <p>SRP continues the fisheries observer program in trawl, purse seine, and longline fleet. SRP continues the exchange of “J” hooks for circular hooks in the longline fleet. It is compulsory to use DETs in the trawl fleet.</p>  |
| Lk | <input type="checkbox"/> Coastal development<br><input type="checkbox"/> Incidental capture<br><input type="checkbox"/> Direct use <input type="checkbox"/> Contamination<br><input type="checkbox"/> Pathogens<br><input type="checkbox"/> Climate change                       |  |
| Dc | <input type="checkbox"/> Coastal development<br><input checked="" type="checkbox"/> Incidental capture<br><input type="checkbox"/> Direct use <input type="checkbox"/> Contamination<br><input type="checkbox"/> Pathogens<br><input checked="" type="checkbox"/> Climate change | <p><i>(Coastal development, Contamination, Climate Change) Research jointly with the PNG to understand and be able to mitigate these threats.</i></p> <p>Protected Areas: Muisne River, Esmeraldas River, and Galera San Francisco:</p> <p>Control and monitoring of nesting beaches in Las Palmas, Galerita, and Portete.</p> <p>Protected Area: Isla Corazón and Fragatas</p> <p>RVS does control patrols in Cantón Sucre, beach from Bahía to Punta Gorda. Cantón San Vicente, from Punta Nato to Canoa.</p> <p>SRP continues the</p> |



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|    |  |   |
|----|--|---|
|    |  | <p>fisheries observer program in trawl, purse seine, and longline fleet. SRP continues the exchange of “J” hooks for circular hooks in the longline fleet. It is compulsory to use DETs in the trawl fleet.</p>   |
| Ei | <p> <input checked="" type="checkbox"/> Coastal development      <input type="checkbox"/> Contamination<br/> <input checked="" type="checkbox"/> Incidental capture      <input type="checkbox"/> Pathogens<br/> <input checked="" type="checkbox"/> Direct use      <input checked="" type="checkbox"/> Climate change         </p> | <p><i>(Coastal development, Contamination, Climate Change) Research jointly with the PNG to understand and be able to mitigate these threats. Within protected areas, there is a record of strandings and their respective causes analysis.</i></p> <p>SRP continues the fisheries observer program in trawl, purse seine, and longline fleet. SRP continues the exchange of “J” hooks for circular hooks in the longline fleet. It is compulsory to use DETs in the trawl fleet.</p> |
| Cm | <p> <input checked="" type="checkbox"/> Coastal development      <input type="checkbox"/> Contamination<br/> <input checked="" type="checkbox"/> Incidental capture      <input type="checkbox"/> Pathogens<br/> <input type="checkbox"/> Direct use      <input checked="" type="checkbox"/> Climate change         </p>            | <p><i>(Coastal development, Contamination, Climate Change) Research jointly with the PNG to understand and be able to mitigate these threats.</i></p> <ul style="list-style-type: none"> <li>• Sea turtle nesting beaches control to reduce threats from tourism and coastal development in Pacoche.</li> <li>• Sea Turtles Awareness and Conservation program CEPA at Pacoche Protected</li> </ul>   |



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|    |   |  |
|----|---|--|
|    |   | <p>Area and its area of influence.</p> <ul style="list-style-type: none"> <li>• Program for monitoring beaches profile and climate change, to generate information for the nesting beaches management at Pacoche Protected Area and its area of influence</li> </ul> <p>SRP continues the fisheries observer program in trawl, purse seine, and longline fleet. SRP continues the exchange of “J” hooks for circular hooks in the longline fleet. It is compulsory to use DETs in the trawl fleet.</p> |
| Cc | <p><input type="checkbox"/> Coastal development      <input type="checkbox"/> Contamination</p> <p><input checked="" type="checkbox"/> Incidental capture      <input type="checkbox"/> Pathogens</p> <p><input type="checkbox"/> Direct use      <input type="checkbox"/> Climate change</p> | <p>SRP continues the fisheries observer program in trawl, purse seine, and longline fleet. SRP continues the exchange of “J” hooks for circular hooks in the longline fleet. It is compulsory to use DETs in the trawl fleet.</p>  |



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#### ***b. Research***

*Describe scientific research that is being carried out in the country relating to sea turtle population assessments including tagging, migration, and genetic studies, as well as those relating to conservation issues including habitat monitoring, fisheries interactions, disease, etc. Provide a list of references for the information used in this report and note how to obtain them when needed.*

*In addition to the above, please fill out the following table on the types of research being carried out in the country and with what specie(s).*

| <b>Research</b>   | <b>Species (Lo, Lk, Cm, Ei, Cc, Dc)</b> |
|---|---|
| <i>Sea turtle (C. mydas) nesting monitoring in Galapagos</i>  | <i>Cm</i>                               |
| <i>Habitats characterization in Galapagos. USFQ-GSC-PNG</i>   | <i>Cm, Ei</i>                           |
| <i>Nesting monitoring and nests protection on the Ecuadorian coast (MAE)</i>                              | <i>Cm, Ei, Lo</i>                       |
| <i>Disease and health condition of sea turtles in Galapagos. USFQ – GSC-PNG</i>                           | <i>Cm, Ei</i>                           |
| <i>Hawksbill nesting monitoring at Playa Rosada, Santa Elena</i>  | <i>Ei</i>                               |
| <i>Migration and movements (satellite tags) USFQ-GSC-PNG and Equilibrio Azul</i>                          | <i>Cm, Ei</i>                           |
| <i>Genetics analysis – Black Turtle Project USFQ-GSC-PNG and Equilibrio Azul</i>                          | <i>Cm, Ei</i>                           |
| <i>Diet analysis with stable isotopes in foraging grounds USFQ-GSC-PNG</i>                                | <i>Cm, Ei</i>                           |
| <i>Photo-identification (individuals residence and sites philopatry) USFQ-GSC-PNG</i>                     | <i>Cm, Ei</i>                           |
| <i>Interaction with pollutants analysis and impact of marine debris Black Turtle Project USFQ-GSC-PNG</i> | <i>Cm, Ei</i>                           |
| <i>Sex radio studies, climate change indicator in foraging grounds USFQ-GSC-PNG</i>                       | <i>Cm</i>                               |



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|   |  |
|---|--|
| <i>Beach profile and climate change<br/>monitoring in the nesting beaches<br/>San Lorenzo and La Botada</i> |  |
|---|--|

*Lo, Cm*

#### *c.\_ Other activities*

*Include information on environmental education activities, programs to establish and manage protected areas, and cooperative activities with other Party countries.*





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#### Part IV: Annexes

**Table 1: Species Present**

Place an X in the box when the species listed is present in the oceanographic basins of your country as established in Article III of the text of the Convention. Lo = *Lepidochelys olivacea*; Lk = *Lepidochelys kempii*; Dc = *Dermochelys coriacea*; Ei = *Eretmochelys imbricata*; Cm = *Chelonia mydas*; Cc = *Caretta caretta*.

| Species | Pacific Ocean | Atlantic Ocean | Caribbean Sea |
|---------|---------------|----------------|---------------|
| Lo      | X             |                |               |
| Lk      |               |                |               |
| Dc      | X             |                |               |
| Ei      | X             |                |               |
| Cm      | X             |                |               |
| Cc      | X             |                |               |

**Table 2: Index nesting sites or beaches for sea turtle conservation**

- a. This table is intended to report information on index nesting sites or beaches for each species. For beaches that have multiple species nesting, enter that beach under the list for the primary nesting species. When entering information on nesting site or beaches, information is to be entered for each species independently. Indicate the names of index nesting sites. On a separate sheet of paper, indicate the selection criteria used for identifying the index beach, for example, because it hosts a significant proportion of the overall nesting population within a region or other defined unit or genetic importance.
- b. Nesting season: Indicate the starting and finishing date of the nesting season.
- c. Monitoring period: Indicate the starting and finishing date of monitoring efforts.
- d. Survey frequency: Indicate the frequency with which the surveys are done (daily, weekly, bi-weekly, monthly, among others).
- e. Geographic location: Specify latitude and longitude in decimal degrees.
- f. Extension of beach monitored: Provide the total length (in Kilometers) of the nesting beach.
- g. Declared protection area: Indicate (yes or no) if the area is declared as some type of protected area.
- h. Annual nesting abundance: Provide information on the total number of females and/or clutches or nests deposited at the nesting site or beach in real numbers. Provide the exact count of females based on tagged or uniquely identified individuals. If the exact number of clutches is unknown provide total number of nests.



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- i. *Information from tagging program: Indicate if there have been any tagging activities at the nesting beach by using the letters of the type of tagging being done: flipper tagging (FT), passive integrated transponder (PIT) tagging, and satellite telemetry (ST) programs. If possible, on a separate sheet or as attached reference provide greater detail about the type of tagging efforts conducted. Also, provide satellite telemetry maps or flipper tag recovery information if available.*
- j. *Tissue sampling: Indicate if there has been tissue sampling conducted at this site. This includes skin, blood, and other body tissues. On a separate sheet, or as attached references describe these tissue sampling programs in greater detail. For example, were samples collected for genetic, contaminant, and/or stable isotope studies?*
- k. *Indicate what organization or entity is providing the data.*
- l. *When inserting new rows, please copy and paste the drop-down menus when applicable.*



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| Spp | Name of Index Nesting Site or Beach     | Nesting Season |            | Monitoring period   |                     | Survey Frequency | Geographic Location (Lat/Lon) |                              |                     | monito red | Declared Protected Area (Yes/No) | Annual Nesting Abundance |                 |     | Tagging Program (FS, ST, PIT) | Tissue Sampling (Yes/No) | Organization or entity providing data |                                   |
|-----|---|----------------|------------|---------------------|---------------------|------------------|-------------------------------|------------------------------|---------------------|------------|----------------------------------|--------------------------|-----------------|-----|-------------------------------|--------------------------|---------------------------------------|-----------------------------------|
|     |   | Start          | Finish     | Start               | Finish              |                  | Latitude                      | Longitude                    | Females Exact Count |            |                                  | Clutches Exact Count     | Number of Nests |     |                               |                          |                                       |                                   |
| Lo  | San Lorenzo                             | 01/09/2015     | 30/11/2015 | 01/06/2015          | 31/05/2016          | Daily            | -1.068554 °                   | -80.907768 °                 |                     | 2,40       | Yes                              |                          |                 | 170 | 4 (FS)                        | No                       | RVSMC-Pacocha                         |                                   |
|     | La Botada                               | 01/09/2015     | 30/11/2015 | 01/06/2015          | 31/05/2016          | Daily            | -1.050000 °                   | -80.904193 °                 |                     | 1,00       | Yes                              |                          |                 | 120 | 1(FS)                         | No                       | RVSMC-Pacocha                         |                                   |
|     | Sta. Marianita                          | 01/09/2015     | 30/09/2016 | 01/06/2015          | 31/05/2016          | Weekly           | -0.962986 °                   | -80.832935 °                 |                     | 2,00       | No                               |                          |                 | 28  | 0                             | No                       | RVSMC-Pacocha                         |                                   |
|     | Liguiqui                                | 01/09/2015     | 30/10/2015 | 01/06/2015          | 31/05/2016          | Daily            | -1.027514 °                   | -80.883110 °                 |                     | 0,80       | Yes                              |                          |                 | 5   | 0                             | No                       | RVSMC-Pacocha                         |                                   |
|     | El Murciélago                           | 01/11/2015     | 30/12/2015 | 01/06/2015          | 31/05/2016          | Monthly          | -0.940283 °                   | -80.733805 °                 |                     | 1,00       | No                               |                          |                 | 2   | 0                             | No                       | RVSMC-Pacocha                         |                                   |
|     | Caña River                              | 01/09/2015     | 30/09/2016 | 01/06/2015          | 31/05/2016          | Daily            | -1.085000 °                   | -80.900531 °                 |                     | 0,50       | Yes                              |                          |                 | 1   | 0                             | No                       | RVSMC-Pacocha                         |                                   |
| Ei  | La Playita                              | 11/16          | 04/17      | Throughout the year | Throughout the year | Daily            | 1°33'53.8"S °                 | 80°50'09.9"W °               |                     | 0.800      | Yes                              | 8                        |                 | 33  | FS and PIT                    | Yes                      | Equilibrio Azul                       |                                   |
|     | Puerto Lopez                            | 11/16          | 04/17      | Throughout the year | Throughout the year | Daily            |                               |                              |                     |            | No                               | 2                        |                 | 3   | FS and PIT                    | Yes                      | Equilibrio Azul                       |                                   |
|     | Salango                                 | 11/16          | 04/17      | Throughout the year | Throughout the year | Once a week      | 1°34'38.3"S °                 | 80°50'25.8"W °               |                     |            | Yes                              |                          |                 | 2   | None                          | No                       | Equilibrio Azul                       |                                   |
|     | Los Frailes                             | 11/16          | 04/17      | Throughout the year | Throughout the year | Once a week      | -1.49534, °                   | -80.7938 °                   |                     |            | Yes                              |                          |                 | 1   | None                          | No                       | Equilibrio Azul                       |                                   |
|     | Playa de Oro and Playa Punta Carola     |                |            |                     |                     | Daily            | -0.899364 °<br>-0.890529 °    | -89.609461 °<br>-89.612071 ° |                     |            |                                  |                          |                 | 1   |                               |                          |                                       | Black Turtle Project USFQ-GSC-PNG |
|     | Floreana and Española, Manzanillo Beach |                |            |                     |                     | Monthly          | -1.352136 °<br>-1.232737 °    | -89.703617 °<br>-90.438257 ° |                     |            |                                  |                          |                 |     |                               |                          |                                       | Black Turtle Project USFQ-GSC-PNG |



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|    |             |            |            |                     |                     |       |             |              |           |     |   |   |   |    |     |                 |
|----|-------------|------------|------------|---------------------|---------------------|-------|-------------|--------------|-----------|-----|---|---|---|----|-----|-----------------|
| Cm | San Lorenzo | 01/10/2015 | 31/12/2015 | 01/06/2015          | 31/05/2016          | Daily | -1.068554   | -80.907768   | 2,40      | Yes |   |   | 3 | 0  | No  | RVSMC - Pacoche |
|    | La Playita  |            |            | Throughout the year | Throughout the year | Daily | 1°33'53.8"S | 80°50'09.9"W | 0.80<br>0 | Yes | 1 | 6 | 4 | FS | Yes | Equilibrio Azul |
|    | La Botada   | 01/10/2015 | 31/12/2015 | 01/06/2015          | 31/05/2016          | Daily | -1.050000   | -80.904193   | 1,00      | Yes |   |   | 3 | 0  | No  | RVSMC - Pacoche |



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## Table 3. Important foraging sites for sea turtle conservation

**NOTE:** This section of the report has been removed by the decision of the IAC Scientific Committee during its 13th meeting. Instead, the information about foraging sites will become part of a technical document, making the information easier to access for the users. The document will include the following:

- a) List of foraging sites per Party, b) People working in the corresponding foraging areas, c) Threats in foraging areas, among others. This document will be updated every 5 years.

**NOTE:** ATTACHED TO THE SPANISH VERSION OF THIS REPORT IS THE ANNUAL REPORT OF ACTIONS FOR SEA TURTLES CONSERVATION IN ECUADOR.