



# Inter-American Convention for the Protection and Conservation of Sea Turtles **Caribbean Netherlands** Annual Report 2014

## 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<sup>th</sup> of 2014**.

### Part I (General Information)

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

#### a.\_ Focal Point

|                              |                                                                                    |
|------------------------------|------------------------------------------------------------------------------------|
| Institution                  | Ministry of Economic Affairs (EZ)<br>National Office for the Caribbean Netherlands |
| Name                         | Paul Hoetjes                                                                       |
| Date Annual Report submitted | 01-09-2014                                                                         |

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

|                                                           |                                                                                         |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Name of Agency or Institution                             | Ministry of Economic Affairs,<br>(EZ), National Office for the<br>Caribbean Netherlands |
| Name of the person responsible for completing this report | Paul Hoetjes                                                                            |
| Address                                                   | Kaya International z/n                                                                  |
| Telephone(s)                                              | +599 715 8308                                                                           |
| Fax                                                       | +599 717 8130                                                                           |
| E-mail                                                    | <a href="mailto:paul.hoetjes@rijksdienst.com">paul.hoetjes@rijksdienst.com</a>          |

#### c.\_ Others who participated in the preparation of this report

| Name           | Agency or Institution                      | E-mail                                                               |
|----------------|--------------------------------------------|----------------------------------------------------------------------|
| Mabel Nava     | Sea Turtle Conservation Bonaire            | <a href="mailto:stcb@bonaireturtles.org">stcb@bonaireturtles.org</a> |
| Jessica Berkel | St. Eustatius National Parks<br>Foundation | <a href="mailto:research@statiapark.org">research@statiapark.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.*

|                                                                                                             | <b>YES/NO/<br/>In Progress</b> | <b>Comments</b>              |
|-------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------|
| Does your country have a national plan of action in accordance with Article XVIII?                          | YES                            | Nature Policy Plan 2013-2017 |
| Does your country have policies and programs at local and regional levels in accordance with Article XVIII? | YES                            | Nature Policy Plan 2013-2017 |
| Does your country have monitoring programs in accordance with Article IX?                                   | YES                            | STCB<br>STENAPA              |

### ***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, 2012-April 30, 2013) 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.*



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| <b>National Legislation</b>                                 |                                                        |                                            |
|-------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|
| Type and name of legal instrument (No.)                     | Description (Range of application)                     | Sanctions(s) Imposed                       |
| Nature Conservation Act BES 2011                            | Caribbean Netherlands (Bonaire, St Eustatius and Saba) | Max. 4 yrs custody and/or \$560,000 fine   |
| Fisheries Act BES                                           | Caribbean Netherlands (Bonaire, St Eustatius and Saba) | Max. 3 weeks custody and/or \$560,000 fine |
| <b>International Instruments</b>                            |                                                        |                                            |
| Treaty, Convention, Agreements, Memorandum of Understanding |                                                        | Year signed and/or ratified                |
| SPAW Protocol                                               |                                                        | 1990/1992                                  |
| Convention on Migratory Species (CMS)                       |                                                        | 1983                                       |
| Ramsar Convention                                           |                                                        | 1980                                       |

**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.

## **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-COP2-2004 R1:** Conservation of leatherback turtles (*Dermochelys coriacea*)

**ACCORDING TO RESOLUTION CIT-COP2-2004-R1, REPORT WHETHER YOUR COUNTRY:**

|                                                                                                                                                          |     |    | RESOLUTION DOES NOT APPLY | NA             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|---------------------------|----------------|
| IS COMPLYING WITH THE FOLLOWING:                                                                                                                         | YES | NO | DESCRIBE ACTION (*)       | DOES NOT APPLY |
| 1a) Have you created conservation plans and long-term programs that can reverse the critical situation of the leatherback turtle in the Eastern Pacific? |     |    |                           | NA             |



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|                                                                                                                                                                                                                      |  |  |  |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----|
| 1b) Are you implementing these conservation plans and monitoring programs?                                                                                                                                           |  |  |  | NA |
| 2a) Have you taken conservation measures to significantly reduce the use of leatherback turtle products and by-products?                                                                                             |  |  |  | NA |
| 2b) Do you evaluate these conservation measures?                                                                                                                                                                     |  |  |  | NA |
| 3a) 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?                                  |  |  |  | NA |
| 3b) Do you evaluate the conservation measures taken to protect those nesting sites and their associated habitats?                                                                                                    |  |  |  | NA |
| 4. Has your country adopted fishing techniques that reduce incidental capture and mortality of this species?                                                                                                         |  |  |  | NA |
| 5a) Is your country collecting information on incidental capture of leatherbacks in the following fisheries:                                                                                                         |  |  |  |    |
| Artisanal fisheries                                                                                                                                                                                                  |  |  |  | NA |
| i) Long-line                                                                                                                                                                                                         |  |  |  | NA |
| ii) Gillnets                                                                                                                                                                                                         |  |  |  | NA |
| iii) Other fishing gear (indicate which one(s))                                                                                                                                                                      |  |  |  | NA |
| Industrial fisheries                                                                                                                                                                                                 |  |  |  | NA |
| i) Long-line                                                                                                                                                                                                         |  |  |  | NA |
| ii) Gillnets                                                                                                                                                                                                         |  |  |  | NA |
| iii) Other fishing gear (indicate which one(s))                                                                                                                                                                      |  |  |  | NA |
| 5b) Have you provided the IAC with information on incidental capture of leatherbacks in the following fisheries:                                                                                                     |  |  |  |    |
| Artisanal fishing                                                                                                                                                                                                    |  |  |  | NA |
| i) Long-line                                                                                                                                                                                                         |  |  |  | NA |
| ii) Gillnets                                                                                                                                                                                                         |  |  |  | NA |
| iii) Other fishing gear (indicate which one(s))                                                                                                                                                                      |  |  |  | NA |
| Industrial fisheries                                                                                                                                                                                                 |  |  |  |    |
| i) Long-line                                                                                                                                                                                                         |  |  |  | NA |
| ii) Gillnets                                                                                                                                                                                                         |  |  |  | NA |
| iii) Other fishing gear (indicate which one(s))                                                                                                                                                                      |  |  |  | NA |
| 6. Have you established agreements and/or understandings with countries fishing within international waters to adopt fishing techniques that reduce incidental capture of leatherback turtles? List which countries: |  |  |  | NA |



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|                                                                                                                                                                                                                                |  |  |  |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----|
| 7. Have you encouraged other non-Party states to the IAC, carrying out activities that affect leatherback turtles, to adopt measures in favor of their conservation, by means of bilateral, multilateral or regional contacts? |  |  |  | NA |
| 8. Have any cooperative agreements or alliances been established with pertinent organizations? List:                                                                                                                           |  |  |  | NA |

**(\*) Specify actions implemented, 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.**

**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:                                                                                                                                                                                                          |                                                                       | RESOLUTION DOES NOT APPLY |    |                                                                        | DOES NOT APPLY |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------|----|------------------------------------------------------------------------|----------------|
|                                                                                                                                                                                                                                           |                                                                       | YES                       | NO | DESCRIBE ACTION (*)                                                    |                |
| 1. Has your country promoted synergies with other Conventions, treaties, international organizations, and/or regional fisheries bodies on the management and conservation of hawksbill turtles and their habitats? Indicate which one(s). | Y                                                                     |                           |    | SPAW protocol                                                          |                |
| 2 a) Are you strengthening monitoring of the illegal use and trade of hawksbill turtles and their products?                                                                                                                               |                                                                       |                           |    |                                                                        | NA             |
| 2 b) Are you enforcing pertinent hawksbill legislation?                                                                                                                                                                                   | Y                                                                     |                           |    | Ongoing enforcement of existing laws to protect sea turtles in general |                |
| 2 c) Are activities being carried out in order to stop illegal trade of hawksbill products?                                                                                                                                               |                                                                       |                           |    |                                                                        | NA             |
| 3. Does your country support and strengthen the research and monitoring activities required to improve the scientific basis of conservation measures for the hawksbill turtle? Especially in:                                             | Genetics                                                              | Y                         |    | Sampling during tagging work                                           |                |
|                                                                                                                                                                                                                                           | Migratory behavior                                                    | Y                         |    | Ongoing tagging program, incl. Satellite tagging                       |                |
|                                                                                                                                                                                                                                           | Location and conservation status of foraging habitats.                | Y                         |    | Ongoing monitoring program                                             |                |
|                                                                                                                                                                                                                                           | Location and conservation status of prey species.                     |                           | N  |                                                                        |                |
|                                                                                                                                                                                                                                           | Population dynamics at foraging sites                                 | Y                         |    |                                                                        |                |
|                                                                                                                                                                                                                                           | Integrity of nesting habitats                                         | Y                         |    | Ongoing Monitoring Program                                             |                |
|                                                                                                                                                                                                                                           | Others (specify)                                                      |                           |    |                                                                        |                |
| 4. As indicated in the recommendations from FAO's Technical Meeting on the                                                                                                                                                                | a) Evaluate incidental capture of hawksbill turtles in jurisdictional | Y                         |    | Only artisanal fisheries, incidental capture is rare                   |                |



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|                                                                                                                                                                                                                          |                                                                                                |   |  |                                                                                            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---|--|--------------------------------------------------------------------------------------------|--|
| conservation of marine turtles and fisheries that was held in Bangkok in 2004 and adopted by the 26th Session of FAO's Fisheries Committee (COFI), does your country carry out any activities mentioned in a) and/or b)? | waters.                                                                                        |   |  |                                                                                            |  |
|                                                                                                                                                                                                                          | b) Actions to mitigate incidental capture of hawksbill turtles in their jurisdictional waters. | Y |  | Efforts to introduce circle hooks for the trolling fishery                                 |  |
| 5. Does your country apply the precautionary approach when considering proposals for seismic exploration on priority marine habitats of the hawksbill turtle?                                                            |                                                                                                | Y |  | Permit requests for all marine activities evaluated for possible harmful effects on nature |  |
| 6. 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                                                              | Y |  | All nesting beaches protected                                                              |  |
|                                                                                                                                                                                                                          | b) Protection of feeding habitats                                                              | Y |  | Marine protected areas fully surround each of the three islands                            |  |
| 7. Does your country promote exchange of technical capacity and collaborative research on hawksbill habitats among Parties as well as non Parties and other involved organizations in the Area of the Convention?        |                                                                                                | Y |  | Training to support Curaçao monitoring program<br><br>Participating in WIDECAS             |  |

**(\*) Specify actions implemented, 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.**

**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 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|-----------------------------------------------------------------------|----------------|
| 1. Adopted the "Guidelines to Reduce Sea Turtle Mortality induced by fisheries operations", of the United Nations Food and Agriculture Organization (FAO), including: |     |    |                                                                       | NA             |
| A. Research and monitoring of adverse impact of fisheries on sea turtles                                                                                              |     |    |                                                                       |                |
| • Collect information by fishery                                                                                                                                      | Y   |    | Fisheries monitoring in place on all islands                          |                |
| • Observer programs                                                                                                                                                   |     |    | Only artisanal fisheries, small boats                                 | NA             |
| • Research on sea turtle/fishery interactions                                                                                                                         |     |    | Only artisanal fisheries, practically no interaction with sea turtles | NA             |
| • Information on non-Party vessels                                                                                                                                    |     |    |                                                                       | NA             |



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|                                                                                                                                                                                                                                                                                                                     |   |   |                        |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|------------------------|----|
| • Cooperation with non-Party states to obtain information                                                                                                                                                                                                                                                           |   |   |                        | NA |
| B. Mitigation measures for the following fisheries:                                                                                                                                                                                                                                                                 |   |   |                        |    |
| i) Long-line                                                                                                                                                                                                                                                                                                        |   |   | No long-line fisheries | NA |
| ii) Gillnets                                                                                                                                                                                                                                                                                                        | Y |   | Gillnets prohibited    |    |
| iii) Trawling (e.g., 1. TEDs: specify legally approved TEDs, their dimensions, material, and target species for that fishery, 2. time-area closures: specify geographical area, time of closure and target species for that fishery, 3. tow times and/or 4. other measures)                                         | Y |   | Trawling prohibited    |    |
| iv) Other fishing gear (indicate which one(s))                                                                                                                                                                                                                                                                      |   |   |                        | NA |
| C. Training, education and dissemination                                                                                                                                                                                                                                                                            |   |   |                        |    |
| • Training, education and dissemination activities                                                                                                                                                                                                                                                                  |   | N |                        |    |
| D. Harmonization of policies and legislation                                                                                                                                                                                                                                                                        |   |   |                        |    |
| • Modifications to instruments                                                                                                                                                                                                                                                                                      |   |   |                        | NA |
| E. Capacity building                                                                                                                                                                                                                                                                                                |   |   |                        |    |
| • Creation of a national sea turtle committee/network                                                                                                                                                                                                                                                               | Y |   |                        |    |
| F. Financing                                                                                                                                                                                                                                                                                                        |   |   |                        |    |
| • Financial support obtained to implement guidelines in this resolution                                                                                                                                                                                                                                             |   |   |                        | NA |
| G. Socio-economic considerations                                                                                                                                                                                                                                                                                    |   |   |                        |    |
| • Support socio-economic activities that help mitigate adverse impacts of fisheries on sea turtles                                                                                                                                                                                                                  |   |   |                        | NA |
| H. Other aspects                                                                                                                                                                                                                                                                                                    |   |   |                        |    |
| • Environmental impact studies for mariculture projects                                                                                                                                                                                                                                                             |   |   |                        | NA |
| 2. Sent information and documents on sea turtles created by your country to the Secretariat of the Convention? List documents.                                                                                                                                                                                      |   |   |                        | NA |
| 3. Initiated activities that assist the Convention Secretariat in contacting non Party States through established mechanisms, especially in the area of the Convention, so that they may provide, in a cooperative spirit, the Secretariat with available data on incidental sea turtle catches in their fisheries? |   |   |                        | NA |
| 4. Supports the Convention Secretariat, through established mechanisms, to commence discussions with regional fishery management organizations in order to develop Memorandum of Understandings.                                                                                                                    |   |   |                        | NA |

**(\*) Specify actions implemented, 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-COP4-2009-R5: Adaptation of sea turtle habitats to climate change**

### **ACCORDING TO RESOLUTION CIT-COP4-2009-R5, REPORT WHETHER YOUR COUNTRY:**

| IS COMPLYING WITH THE FOLLOWING:                                                                                                                                                                             | YES | NO | DOES NOT APPLY | DESCRIBE ACTION(S) (*) |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----------------|------------------------|------------------|
| 1) Has your country prepared a plan(s) for adaptation to climate change? If Yes, specify the plan(s). If they are in progress or answer is No, continue to Question 2a.                                      |     | N  |                |                        |                  |
| 1a) Have the marine and coastal habitats on which sea turtles depend been included in the plans and national programs on adaptation to climate change? Specify habitats included:                            |     |    |                |                        |                  |
| Beaches                                                                                                                                                                                                      |     |    |                |                        |                  |
| Mangroves                                                                                                                                                                                                    |     |    |                |                        |                  |
| Coral Reefs                                                                                                                                                                                                  |     |    |                |                        |                  |
| Seagrasses                                                                                                                                                                                                   |     |    |                |                        |                  |
| Others, specify:                                                                                                                                                                                             |     |    |                |                        |                  |
| 1b) Are components of the plan(s) important to the adaptation of critical sea turtle habitat being implemented? Specify habitats:                                                                            |     |    |                |                        |                  |
| Beaches                                                                                                                                                                                                      |     |    |                |                        |                  |
| Mangroves                                                                                                                                                                                                    |     |    |                |                        |                  |
| Coral Reefs                                                                                                                                                                                                  |     |    |                |                        |                  |
| Seagrasses                                                                                                                                                                                                   |     |    |                |                        |                  |
| Others, specify:                                                                                                                                                                                             |     |    |                |                        |                  |
| 2a) Is environmental research/monitoring being conducted to evaluate the potential impacts of climate change on sea turtles? Specify parameters/research:                                                    |     |    |                |                        |                  |
| Sand Temperature                                                                                                                                                                                             | Y   |    |                | On St. Eustatius       |                  |
| Sea Temperature                                                                                                                                                                                              |     | N  |                |                        |                  |
| Coral Bleaching                                                                                                                                                                                              | Y   |    |                |                        |                  |
| Beach Geomorphology                                                                                                                                                                                          | Y   |    |                |                        | On St. Eustatius |
| Storm intensity and frequency                                                                                                                                                                                | Y   |    |                |                        | On St. Eustatius |
| Others, specify:                                                                                                                                                                                             |     |    |                |                        |                  |
| 2b) Is biological research/monitoring being conducted to evaluate the potential impacts of climate change on sea turtles? Specify biological research:                                                       |     |    |                |                        |                  |
| Nesting season                                                                                                                                                                                               | Y   |    |                |                        |                  |
| Hatching success                                                                                                                                                                                             | Y   |    |                |                        |                  |
| Recruitment                                                                                                                                                                                                  | Y   |    |                |                        |                  |
| Sex ratio                                                                                                                                                                                                    |     | N  |                |                        |                  |
| Mortality                                                                                                                                                                                                    | Y   |    |                |                        |                  |
| Others, specify:                                                                                                                                                                                             |     |    |                |                        |                  |
| 3 a) Are corrective measures and measures on adaptation to climate change included within management plans and/or protection and conservation programs for sea turtles and their habitats? Specify measures: |     |    |                |                        |                  |
| Nest relocation                                                                                                                                                                                              | Y   |    |                |                        |                  |
| Hatchery establishment                                                                                                                                                                                       |     | N  |                |                        |                  |
| Use of incubators                                                                                                                                                                                            |     | N  |                |                        |                  |
| Protection of cooler beaches                                                                                                                                                                                 | Y   |    |                |                        |                  |





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|                                                                                                                                                                                                             |   |   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|--|
| Protection of areas landward of nesting sites from coastal development                                                                                                                                      | Y |   |  |
| Planting or removal of vegetation                                                                                                                                                                           | Y |   |  |
| Others, specify:                                                                                                                                                                                            |   |   |  |
| 3 b) Are any of the plan's corrective measures being implemented and/or evaluated? If Yes, please specify.                                                                                                  |   | N |  |
| 4. Have you identified organizations or pertinent expert groups as possible partners to work on the topic of adaptation by sea turtles to climate change? Please list these organizations or expert groups. |   | N |  |
| 5. Has your country hosted capacity building workshops for monitoring techniques and/or adaptation to climate change regarding or focused on Sea turtles and their habitats?                                |   | N |  |

(\*) Specify actions implemented, 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 to the procedure established by the COP (Doc. CIT-COP5-2011-R2). Attach management program.*

## **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)                                                                                                                          | Actions                                                                                                                 |
|---------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Lo      | <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 |
| Lk      | <input type="checkbox"/> Coastal development<br><input type="checkbox"/> Incidental capture                                        | <input type="checkbox"/> Contamination<br><input type="checkbox"/> Pathogens                                            |



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|    |                                                                                      |                                                                                                  |                                                                                                       |
|----|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|    | <input type="checkbox"/> Direct use                                                  | <input type="checkbox"/> Climate change                                                          |                                                                                                       |
| Dc | X Coastal development<br>X Incidental capture<br><input type="checkbox"/> Direct use | X Contamination<br>X Pathogens<br>X Climate change                                               | <b>Monitoring of nests, nesting beach protected</b>                                                   |
| Ei | X Coastal development<br>X Incidental capture<br><input type="checkbox"/> Direct use | <input type="checkbox"/> Contamination<br><input type="checkbox"/> Pathogens<br>X Climate change | <b>Main nesting beaches protected, Ongoing monitoring of foraging Sites, foraging areas protected</b> |
| Cm | X Coastal development<br>X Incidental capture<br><input type="checkbox"/> Direct use | X Contamination<br>X Pathogens<br>X Climate change                                               | <b>Main nesting beaches protected, Ongoing monitoring of foraging Sites, foraging areas protected</b> |
| Cc | X Coastal development<br>X Incidental capture<br><input type="checkbox"/> Direct use | <input type="checkbox"/> Contamination<br><input type="checkbox"/> Pathogens<br>X Climate change | <b>Main nesting beaches protected,</b>                                                                |

### **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.*

Sea Turtle Conservation Bonaire (STCB) is engaged in a long term monitoring program of sea turtles on Bonaire, including a tagging program, tissue sampling, satellite tracking program, in-water surveying of green and hawksbill turtles, including mark and recapture and growth studies, and a nesting beach monitoring program

Reference: STCB, research and monitoring report, 2013. (Attached in annex)

<http://www.bonaireturtles.org/explore/publications/files/STCB%202013%20Annual%20Report.pdf>

St. Eustatius National Parks Foundation (Stenapa) yearly monitors nesting beaches and tags nesting turtles on St. Eustatius.

*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>Specie(s)(Lo, Lk, Cm, Ei, Cc, Dc)</b> |
|-------------------------------|------------------------------------------|
| <b>Tagging</b>                | <b>Cm, Ei, Cc, Dc</b>                    |
| <b>Migration</b>              | <b>Cm, Ei, Cc</b>                        |
| <b>Genetics</b>               | <b>Cm, Ei, Cc</b>                        |
| <b>Habitat monitoring</b>     | <b>Cm, Ei, Cc, Dc</b>                    |
| <b>Disease</b>                | <b>Cm</b>                                |
| <b>Fisheries interactions</b> | <b>Cm, Ei, Cc</b>                        |



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

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

- Environmental education programs on Bonaire by STCB and in Saba, St. Eustatius by the respective protected area management organizations.
- Teaching modules for Dutch language classes in secondary education developed by STCB, based on information about sea turtles, now accepted for official curriculum.
- Sea grass protection activities in main foraging area on Bonaire by STCB
- Ongoing management of marine parks comprising all coastal waters of all three islands

## **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 Incidental  |
| Lk      |               |                |               |
| Dc      |               |                | X             |
| Ei      |               |                | X             |
| Cm      |               |                | X             |
| Cc      |               |                | X             |



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**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.*
- 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<br>Nesting Site or<br>Beach | Nesting season |        | Monitoring period |        | Survey<br>Frequency    | Geographic Location (Lat/Long)<br>in Decimal Degrees |           |         |   | Extension of beach<br>monitored (km) | Declared<br>Protected Area<br>(Yes/No) | Annual Nesting Abundance  |                            |                    | Tagging<br>Program<br>(FT, ST, PIT) | Tissue<br>Sampling<br>(Yes/No) | Organization<br>or entity<br>providing data |
|-----|-------------------------------------------|----------------|--------|-------------------|--------|------------------------|------------------------------------------------------|-----------|---------|---|--------------------------------------|----------------------------------------|---------------------------|----------------------------|--------------------|-------------------------------------|--------------------------------|---------------------------------------------|
|     |                                           | Start          | Finish | Start             | Finish |                        | Latitude                                             | Longitude |         |   |                                      |                                        | Females<br>Exact<br>Count | Clutches<br>Exact<br>Count | Number<br>of Nests |                                     |                                |                                             |
| Lo  |                                           |                |        |                   |        |                        |                                                      | °         |         | ° |                                      | Choose an item.                        |                           |                            |                    | Choose an item.                     | Choose an item.                |                                             |
|     |                                           |                |        |                   |        |                        |                                                      | °         |         | ° |                                      | Choose an item.                        |                           |                            |                    | Choose an item.                     | Choose an item.                |                                             |
| Lk  |                                           |                |        |                   |        |                        |                                                      | °         |         | ° |                                      | Choose an item.                        |                           |                            |                    | Choose an item.                     | Choose an item.                |                                             |
|     |                                           |                |        |                   |        |                        |                                                      | °         |         | ° |                                      | Choose an item.                        |                           |                            |                    | Choose an item.                     | Choose an item.                |                                             |
| Dc  |                                           |                |        |                   |        |                        |                                                      | °         |         | ° |                                      | Choose an item.                        |                           |                            |                    | Choose an item.                     | Choose an item.                |                                             |
|     | Zeelandia                                 | Mar            | Jul    | Mar               | Jul    | Daily                  | 17.508                                               | °         | -62.981 | ° | 1.4                                  | Yes                                    |                           |                            | 5                  | FT & PIT                            | No                             | STENAPA                                     |
| Ei  | Klein Bonaire                             | April          | Jan    | Apri<br>l         | Nov    | 3 times<br>per<br>week | 10.552                                               | °         | 18.381  | ° | 2                                    | Yes                                    |                           |                            | 54                 | None                                | Yes                            | STCB                                        |
|     | Zeelandia                                 | Jul            | Dec    | Jul               | Dec    | Daily                  | 17.508                                               | °         | -62.981 | ° | 1.4                                  | Yes                                    |                           |                            | 9                  | FT                                  | No                             | STENAPA                                     |
| Cm  | Playa Chikitu                             | June           | Nov    | June              | Nov    | 3 times<br>per<br>week | 16.814                                               | °         | 20.919  | ° |                                      | Yes                                    |                           |                            | 34                 | None                                | Yes                            | STCB                                        |
|     | Zeelandia                                 | Jun            | Dec    | Jun               | Dec    | Daily                  | 17.508                                               | °         | -62.981 | ° | 1.4                                  | Yes                                    |                           |                            | 26                 | FT                                  | No                             | STENAPA                                     |
|     |                                           |                |        |                   |        |                        |                                                      | °         |         | ° |                                      | Choose an item.                        |                           |                            |                    | Choose an item.                     | Choose an item.                |                                             |



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|    |               |     |         |       |     |                  |        |   |        |   |    |     |  |  |    |      |     |      |
|----|---------------|-----|---------|-------|-----|------------------|--------|---|--------|---|----|-----|--|--|----|------|-----|------|
| Cc | Klein Bonaire | May | October | April | Nov | 3 times per week | 10.552 | ° | 18.381 | ° | 2K | Yes |  |  | 23 | None | Yes | STCB |
|----|---------------|-----|---------|-------|-----|------------------|--------|---|--------|---|----|-----|--|--|----|------|-----|------|



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**Table 3: Important foraging sites for sea turtle conservation**

- a. This table is intended to contain information for foraging sites being studied for each species. For marine habitats that have multiple species present, enter the specific site under the heading for the priority species at that site.
- b. Name and geographic location: Provide the name of the site and geographic location in decimal degrees in Lat/Long (one reference point).
- c. Area: Indicate the size of the study site (en Kilometers<sup>2</sup>).
- d. Declared protection area: Indicate if the area is declared as some type of protected area.
- e. Life stage: Indicate the life stage or stages found in the study area (juvenile, subadult or adult).
- f. Information from tagging program: Indicate if there have been any tagging activities at the in-water site 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.
- g. 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?
- h. Indicate the organization or entity providing the data.
- i. When adding new rows, please copy and paste the drop down menus when applicable.



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| Species | Name of the Study Site       | Geographic Location (Lat/Long)<br>in Decimal Degrees<br>Latitude Longitude |   |         |   | Area (Km <sup>2</sup> ) | Declared Protection Area (Yes/No) | Life Stages (Juvenile, Sub-adult, Adult) | Tagging Program (FT, ST, PIT) | Tissue Sampling (Yes/No) | Organization or entity providing data |
|---------|------------------------------|----------------------------------------------------------------------------|---|---------|---|-------------------------|-----------------------------------|------------------------------------------|-------------------------------|--------------------------|---------------------------------------|
| Lo      |                              |                                                                            | ° |         | ° |                         | Choose an item.                   | Choose an item.                          | Choose an item.               | Choose an item.          |                                       |
|         |                              |                                                                            | ° |         | ° |                         | Choose an item.                   | Choose an item.                          | Choose an item.               | Choose an item.          |                                       |
| Lk      |                              |                                                                            | ° |         | ° |                         | Choose an item.                   | Choose an item.                          | Choose an item.               | Choose an item.          |                                       |
|         |                              |                                                                            | ° |         | ° |                         | Choose an item.                   | Choose an item.                          | Choose an item.               | Choose an item.          |                                       |
| Dc      |                              |                                                                            | ° |         | ° |                         | Choose an item.                   | Choose an item.                          | Choose an item.               | Choose an item.          |                                       |
|         |                              |                                                                            | ° |         | ° |                         | Choose an item.                   | Choose an item.                          | Choose an item.               | Choose an item.          |                                       |
| Ei      | Bonaire National Marine Park | 13.449                                                                     | ° | 28.005  | ° | 27                      | Yes                               | All of Above                             | All of Above                  | Yes                      | STCB                                  |
|         | Statia National Marine Park  | 17.481                                                                     | ° | -62.995 | ° | 27.5                    | Yes                               | Sub-adult & Adult                        | None                          | No                       | STENAPA                               |
| Cm      | Bonaire National Marine Park | 13.449                                                                     | ° | 28.005  | ° | 27                      | Yes                               | All of Above                             | All of Above                  | Yes                      | STCB                                  |
|         | Statia National Marine Park  | 17.481                                                                     | ° | -62.995 | ° | 27.5                    | Yes                               | Sub-adult & Adult                        | None                          | No                       | STENAPA                               |
| Cc      | Bonaire National Marine Park | 13.449                                                                     | ° | 28.005  | ° | 27                      | Yes                               | Sub-adult & Adult                        | All of Above                  | Yes                      | STCB                                  |
|         |                              |                                                                            | ° |         | ° |                         | Choose an item.                   | Choose an item.                          | Choose an item.               | Choose an item.          |                                       |





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*ANNEX: Sea Turtle Conservation Bonaire (STCB), research and monitoring report 2013*