



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

Guatemala

## Annual Report 2020

### IAC Annual Report General Instructions

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

The submission deadline for this Annual Report is **June 30<sup>th</sup>, 2020**.

### Part I (General Information)

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

#### a.\_ Focal Point

Institution	Consejo Nacional de Áreas Protegidas
Name	M.S.c Abraham Estrada Rossal
Submission Date	June 2020

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

Name of Agency or Institution	Consejo Nacional de Áreas Protegidas
Name of the person preparing this report	Airam Andrea López Roulet
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### c.\_ Others who participated in the preparation of this report

Name	Agency or Institution	E-mail
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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 related to sea turtles implemented by governmental, non-governmental, and private institutions.*

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

	YES/NO/ In Progress	Comments
Does your country have a national action plan in accordance with Article XVIII?	YES	National Strategy for the Management and Conservation of Sea Turtles 2014-2024, - ENTM-. Regulations on management and conservation of sea turtles.
Does your country have policies and programs at local and regional scales in accordance with Article XVIII	YES	National Strategy for the Management and Conservation of Sea Turtles 2014-2024, - ENTM-. Regulations on management and conservation of sea turtles.
Does your country have monitoring programs in accordance with Article IX?	YES	Updating of the regulation for cetaceans and other marine fauna watching in tourist activities. Aimed at observation activities on the high seas, including sea turtles <b>Fishing</b> The fisheries authority in Guatemala, Directorate of Fisheries and Aquaculture Regulations -DIPESCA- of the Ministry of Agriculture, Livestock and Food - MAGA-, is the agency responsible for regulating and inspecting the use of fishing gear, specifically the use of Sea Turtle Excluder Devices (TED's) in compliance with the regulations for the protection of Sea Turtles. <b>Management and Conservation</b> Aimed at conservation and education



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### ***b.\_ National legislation and international instruments related to sea turtles adopted during the preceding year***

*Describe any national regulations, international agreements, and other legal instruments related to sea turtles and/or relevant activities that were adopted during the preceding year (April 30<sup>th</sup>, 2019 – June 30<sup>th</sup>, 2020). Please provide a literature 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 the legal instrument (No.)	Description (Range of application)	Sanctions(s) Imposed
<b>International Instruments</b>		
Treaty, Convention, Agreements, Memorandum of Understanding		Year signed and/or ratified

**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. For countries that have previously submitted a complete Annual Report, please provide information for any changes that have occurred since the most recent previously submitted Report.*



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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. If a Resolution does not apply to your country, please mark the box as “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:

RESOLUTION DOES NOT APPLY				
IS COMPLIANT 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?	X		Moratorium for the trade of Leatherback turtle eggs at the national level.	
1b) Are you implementing these conservation plans and monitoring programs?	X		Compilation of the records of leatherback nests relocated in legally authorized hatcheries	
2. Have you taken conservation measures to eliminate poaching of leatherback turtles?	X		Through awareness talks to sea turtle egg collectors and local communities	
3. If your country has Eastern Pacific leatherback turtle nesting beaches: Have you taken conservation measures to protect the nesting sites and their associated habitats?		X	There are no Leatherback natural nesting beaches. The nesting area identified is 100 km of coastline, from the border with El Salvador to the center of Guatemala’s Pacific Coast.	
4. Has your country adopted fishing techniques that reduce incidental capture and mortality of leatherbacks?	X		The use of the Sea Turtle Excluders (TEDs). The Directorate of Fishing and Aquaculture Regulations - DIPESCA- of the Ministry of Agriculture, Livestock and Food - MAGA-, prepares reports addressed to NOAA reporting verification of the activity.	

(\*) 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-COP8-2017-R2:** Conservation of the Hawksbill Turtle (*Eretmochelys imbricata*)

**ACCORDING TO RESOLUTION CIT-COP8-2017-R2, REPORT WHETHER YOUR COUNTRY:**

RESOLUTION DOES NOT APPLY					
IS COMPLIANT WITH THE FOLLOWING:	YES	NO	DESCRIBE ACTION (*)	DOES NOT APPLY	
1. Are you strengthening monitoring of the illegal use and trade of hawksbill turtles and their products		X			
2. Are you enforcing pertinent hawksbill legislation?		X			
3. Are activities being carried out 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		Protected Area. There is patrolling in the area.	
	b) Protection of feeding habitats	X		Protected Area. There is patrolling in the area.	

(\*) 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-COP7-2015-R3:** Resolution on the Conservation of the Loggerhead Sea Turtle (*Caretta caretta*)

**ACCORDING TO RESOLUTION CIT-COP7-2015-R3, REPORT WHETHER YOUR COUNTRY:**

RESOLUTION DOES NOT APPLY				
IS COMPLIANT WITH THE FOLLOWING:	YES	NO	DESCRIBE ACTION (*)	DOES NOT APPLY
1. Has your country created national action plans and/or monitoring programs to promote loggerhead sea turtle conservation?		X		
2. State if there are plans or recovery programs, or bilateral or regional cooperation.		X		
3. Are these action plans or monitoring programs being implemented?		X		
4. Is there protection of the species at a state or federal level?	X		The country's general regulations on Sea Turtle management and Conservation.	
5. If your country has loggerhead turtle nesting beaches:		X		
5a. Has your country taken conservation actions to protect nesting beaches and their associated habitats?		X		
5b. Are there laws on turtle-friendly lighting in areas impacted by coastal development?		X		
5c. Is there a long-term (minimum 10 years) standardized data available for population trend studies?		X		
6. Is there exploitation or direct harvest of loggerhead turtles in your country?		X		

(\*) 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-COP9-2019-R2: Conservation of the Northwest Atlantic Leatherback

#### ACCORDING TO RESOLUTION CIT-COP9-2019-R2, REPORT WHETHER YOUR COUNTRY:

IS COMPLIANT WITH THE FOLLOWING:	YES	NO	DESCRIBE ACTION (*)	Res. DOES NOT APPLY
<b>Note: Question 1 must be answered by all IAC Parties, please skip the other questions if the Resolution is not applicable in your country.</b>				
1. Has reached out to Canada, Guyana, French Guiana, Trinidad & Tobago, and/or Suriname to inform these nations about the critical situation of the population and priority actions for the conservation of leatherbacks in the NW Atlantic?		X		X
<b>IS COMPLIANT WITH THE FOLLOWING:</b>	<b>YES</b>	<b>NO</b>	<b>DESCRIBE ACTION (*)</b>	<b>DOES NOT APPLY</b>
2. Has implemented techniques to reduce leatherback bycatch and mortality in fisheries, following the UN-FAO Guidelines to Reduce Sea Turtle Mortality in Fishing Operations?				
3. Have fishery observer programs that comply with the minimum standards for scientific observer coverage that have been established by pertinent Regional Fishery Management Organizations?				
4. Has implemented laws and regulations related to Northwest Atlantic leatherback conservation, particularly related to fisheries bycatch and marine protected areas?				
5. If your country has Northwest Atlantic (NWA) leatherback turtle nesting beaches:				
5.1. Has your country implemented conservation measures for the protection of the NWA leatherback nesting beaches and associated habitats?				
5.2. Does your country have a monitoring and tagging program at the NWA leatherback nesting beaches?				
6. Is your country collecting data on interactions of the NWA leatherback with fishing fleets? Report data of interactions of the species with industrial longline vessels in Annex 3 of this report.				

(\*) 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:**

In the column for “species” please use: Cm (*Chelonia mydas*), Lo (*Lepidochelys olivacea*), Dc (*Dermochelys coriacea*), Cc (*Caretta caretta*), Lk (*Lepidochelys kempii*), Ei (*Eretmochelys imbricata*)

IS COMPLYING WITH THE FOLLOWING:	YES	NO	DESCRIBE ACTION (*)	SPECIES	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:					
A. Research and monitoring of the adverse impact of fisheries on sea turtles					
i) Collect information by fishery		X			
ii) Observer programs		X			
iii) Research on sea turtle/fishery interactions		X			
iv) Information on non-Party vessels		X			
v) Cooperation with non-Party states to obtain information		X			
B. Mitigation measures for the following fisheries:					
i) Long-line		X			
ii) Gillnets		X			
iii) Trawling (e.g., 1. TEDs: specify legally approved TEDs, their dimensions, material, and target species for that fishery, 2. time-area closures: specify a geographical area, time of closure and target species for that fishery, 3. tow times and/or 4. other measures)	X		The Fisheries and Aquaculture Regulation Directorate - DIPESCA- is in charge of control and monitoring of appropriate use of fishing gear		
iv) Other fishing gear (indicate which one(s))		X			
v) Fisher training programs about best practices for safe handling and release of incidentally-caught sea turtles	X		Through educational talks addressed to those in charge of the hatcheries; and to egg collectors (parlameros), who also carry out fishing activities, therefore there is emphasis on the negative impacts that fishing gear could have when sea turtles are caught.		
C. Socio-economic considerations					
i) Support socio-economic activities that help mitigate		X			



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adverse impacts of fisheries on sea turtles					
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(\*) 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.)*

Regarding fisheries, the following is reported:

- The Directorate of Fisheries and Aquaculture Regulations -DIPESCA- submits annual reports to NOAA, on the inspections carried out to vessels to verify the use of TED'S. Attached is Annex 1, which refers to the inspections carried out on June 20, 2019.
- CONAP Regional Directorates (Southeast, South Coast and Northeast) plan, coordinate and implement actions through road inspections and patrols on beaches and final consumption point, to verify compliance with the delivery of the Conservation Quota to registered hatcheries, to prevent illegal trade. Additionally, we work in coordination with local CONAP personnel and the Division of Nature Protection -DIPRONA- of the National Civil Police -PNC-.

However, the support of NGOs is vital. In the Pacific region, WCS provided logistical and financial support for these patrols; with the main objective of supervising the delivery of leatherback sea turtle eggs corresponding to the Conservation Quota from the nesting sites in the area.

### 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.*

The table refers to the list of hatcheries and the management of eggs, as well as the releases of hatchlings conducted. In compliance with the exception, a Conservation Quota of 20% of the total nest is implemented for *L. olivacea*. Other species are exempt from this program.

The data presented in the following table is collected by field technicians from various hatcheries. They request that the responsible individuals provide annual data for the current season, year 2020. At the end of the season, the technicians submit an official report of the activities carried out, to the central headquarters. The data collected from across the country is presented in the original report, [in Spanish](#).



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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)		Actions
Lo	<input checked="" type="checkbox"/> Coastal development <input type="checkbox"/> Incidental capture <input checked="" type="checkbox"/> Direct use	<input checked="" type="checkbox"/> Contamination <input type="checkbox"/> Pathogens <input checked="" type="checkbox"/> Climate change	Advocacy with local municipalities, education for children from local schools and the community in general, talks to collectors locally called <i>parlameros</i> , talks for tourists.
Dc	<input checked="" type="checkbox"/> Coastal development <input type="checkbox"/> Incidental capture <input type="checkbox"/> Direct use	<input checked="" type="checkbox"/> Contamination <input type="checkbox"/> Pathogens <input type="checkbox"/> Climate change	
Ei	<input checked="" type="checkbox"/> Coastal development <input type="checkbox"/> Incidental capture <input type="checkbox"/> Direct use	<input checked="" type="checkbox"/> Contamination <input type="checkbox"/> Pathogens <input type="checkbox"/> Climate change	
Cm	<input checked="" type="checkbox"/> Coastal development <input type="checkbox"/> Incidental capture <input type="checkbox"/> Direct use	<input checked="" type="checkbox"/> Contamination <input type="checkbox"/> Pathogens <input type="checkbox"/> Climate change	
Cc	<input checked="" type="checkbox"/> Coastal development <input type="checkbox"/> Incidental capture <input type="checkbox"/> Direct use	<input checked="" type="checkbox"/> Contamination <input type="checkbox"/> Pathogens <input type="checkbox"/> Climate change	



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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 species.

Research	Specie (s) (Lo, Lk, Cm, Ei, Cc, Dc)
<b>Tagging</b>	
<b>Migration</b>	
<b>Habitat monitoring</b>	<i>Lo</i>
<b>Fisheries interactions</b>	
<b>Genetics</b>	

Main researcher	Berta Alejandra Morales Mérida					
Partners	María Rene Contreras Mérida / Salome Hernández Pelen / Andrea Sofía Pozuelos Castillo José Ricardo Gil / Astrid Alejandra Morales Cabrera / José Jorge Ubico					
Registry number	DRSO-001-2019					
Title	Parlama turtle ( <i>Lepidochelys olivacea</i> ) hatchling performance and its relationship with management factors in nests at Hatcheries in the Pacific of Guatemala in Hawaii and Monterrico.					
Objectives	General objective	Identify the management factors that affect the performance of hatchlings ( <i>Lepidochelys olivacea</i> ) in hatcheries and <i>in situ</i> nests in the Pacific of Guatemala.				
	Specific objectives	Evaluate the conditions and management practices of hatcheries in the Pacific of Guatemala.	Characterize the natural nests and nesting habitat of <i>L. olivacea</i>	Examine hatching success and estimated sex ratio of <i>L. olivacea</i>	To estimate the stress to which <i>L. olivacea</i> hatchlings were subjected during embryonic development.	To evaluate the performance of <i>L. olivacea</i> hatchlings when emerging from natural nests and hatchery nests.
Relevant information	The research assesses the performance of hatchlings of <i>Lepidochelys olivacea</i> and its relationship with management factors in nests in the Pacific of Guatemala.					



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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.*

The corresponding Regional Offices (South Coast, South East, North East) carried out educational activities for schools in the area (children and teenagers), tourists and the general public. At the beginning of each season, talks were provided to hatchery managers and people who collect eggs, emphasizing on the correct techniques for handling them. In the case of strandings, a form was standardized and distributed so that local people could collect recent data on the event prior to the arrival of the personnel in charge.



Figure 1. Talk by the staff of the South East Regional Office, at the ARCAS facilities, Parque Hawaii, Aldea Hawaii, Chiquimulilla, Santa Rosa, with young people from Aldea el Obraje, Chiquimulilla, Santa Rosa.



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Figure 2. Awareness activities through games, carried out by the staff of the South East Regional Office, in the facilities of the Mixed Rural Official School of Aldea La Curvina, Chiquimulilla, Santa Rosa.



Figure 3. Inauguration of the 2019-2020 sea turtle season by staff of the South East Regional Office, with hatchery and community managers, in Aldea Las Lisas, Chiquimulilla, Santa Rosa.



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Figure 4. Different activities carried out by the South Coast Regional Office (season opening press conference, environmental education and hatchlings release).



Figure 5. Inauguration of the 2019-2020 sea turtle season by the staff of the South East Regional Office, with hatchery and community managers, in Aldea Monterrico, Taxisco, Santa Rosa.



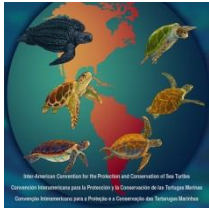
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Figure 6. Inauguration of the 2019-2020 sea turtle season, with *parlameros*, in Aldea Monterrico, Taxisco, Santa Rosa, a talk is provided by the staff of the South East Regional Office, indicating the correct handling of the eggs collected and their transfer to the hatchery.



Figure 7-8. Talk by the staff of the South East Regional Office, during the Inauguration of the 2019-2020 sea turtle season, in Aldea La Barrona, Moyuta, Jutiapa.



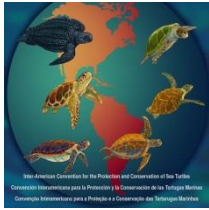
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Figure 9. The South East Regional Office, together with the Banco Hatchery, carried out the symbolic release of hatchling sea turtles with community members and the national media.



Figure 10. Visit to the Banco hatchery, Taxisco, Santa Rosa; where the field inspection was carried out for the registration of the hatchery.



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Figure 11. Work with the environmental police authorities and CONAP, inspecting possible points of consumption of eggs, in the Guatemalan Caribbean area.



Figure 12. CONAP made an approach with children from different schools in the Caribbean Region, with the purpose of making crafts on mother's day, using the sea turtle to create citizen awareness.



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Figures 13 and 14. Visit to the Vivero Guatemala hatchery located in the Caribbean, verification of leatherback (*Dermochelys coriacea*) nests where hatching was not successful.



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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	X		X
Dc	X		X
Ei	X		X
Cm	X		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. Please use the index sites that your country has selected included in the document circulated with this report as Table 4. Also available on the [IAC website](#).*
- 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 a 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 Nesting Site or Beach	Nesting Season		Monitoring Period		Survey Frequency	Geographic Location (Lat/Lon) in Decimal Degrees		Extension of beach monitored (km)	Declared Protected Area (Yes/No)	Annual Nesting Abundance			Tagging Program (FT, 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	Hawaii	2019	2020	Jun 2019	Feb 2020	Daily	13°52'0 2.1"	90°25'10.4 "	7.74 km							
	La Barrona	2019	2020	Jun 2019	Feb 2020	Daily	13°46'2. 66"N	90°11'0.7 0"W	7.73km							
	El Banco	2019	2020	Jun 2019	Feb 2020	Daily	13°46'1 1.7"	90°11'08.3 "	7km							
Lk																
Dc																
Ei																
Cm																
Cc																

**Table 3: IAC Form to report interactions of sea turtles with industrial longline fisheries**

a. This form is intended to report the annual summary of the number of sea turtle incidentally caught by industrial longline vessels (>20 m) during fishing operations in 2019.

**b. Countries without this type of fishery will mark with X the “does not apply” box.**

**c. Target Species:** Indicate the target species (scientific and common name) of the industrial longline fisheries during the last year. Indicate if the catch was using shallow or deep sets.

**Fleet Information** (Examples are provided in blue in the form)

**d. Period covered:** Starting and end date of the fishing operations of the year

**e. Area fished:** Indicate the area coordinates where shallow set and deep sets fishing operations were carried out during the last year.

**f. No. of vessels that fished:** Indicate the total number of vessels in the fleet in each case (deep set and shallow set), the number of vessels with observers on board, and the corresponding percentage of vessels with observers (% observed)

**g. No. of trips:** Indicate the total number of trips in each case (deep set and shallow set), the number of trips with observers on board, and the corresponding percentage of trips with observers onboard (% observed)

**h. No. of effective fishing days:** Indicate the total number of fishing days in each case (deep set and shallow set) when fishing took place, the number of fishing days with observers on board, and the corresponding percentage of fishing days with observers onboard (% observed)

**i. No. of sets:** Indicate the total annual number of sets in each case (deep set and shallow set), the annual number of sets with observers on board, and the corresponding annual percentage of sets with observers onboard (% observed)

**j. No. of hooks (in thousands):** Indicate the total annual number of hooks in each case (deep set and shallow set), the annual number of hooks with observers on board, and the corresponding annual percentage of hooks with observers onboard (% observed). It refers to the number of hooks per basket (HPB) or the number of hooks between floats (HBF). If the number is unknown include an approximate number of hooks/sets, using an asterisk (\*) to indicate that it is an approximation.

**k. Predominant hook type/size:** Using the [IATTC codes](#) indicate the most common hooks (> 50%) used throughout the year as a total, and in vessels with onboard observers in each case (deep sets and shallow sets).

**l. Predominant bait type:** Indicate the most common bait used throughout the year as a total, and in vessels with observers in each case (deep sets and shallow sets) using the following bait codes: SQ – squid (e.g. Cephalopods), M – mackerel (e.g. Scomber spp.), A – artificial lure (e.g. plastic jig), O-other, and specify.

**Sea Turtles Species** (Units expressed in the number of individuals observed)

**m. Released alive:** Total number of each sea turtle species released alive in each case (shallow and deep sets)

**n. Released dead:** Total number of individuals of each sea turtle species released dead in each case (shallow and deep sets)

**o. Released condition unknown:** Total number of each sea turtle species released under unknown conditions as the individual could not be brought onboard or close enough to verify the condition dead or alive.

**p. Notes:** Include additional information such as turtles caught that had tags (flipper tags or satellite transmitter), in each case (shallow and deep sets), if applicable.

**Note:** this information could not be collected during this year.

**Table 3: IAC Form to report interactions of sea turtles with industrial longline fisheries (vessels >20m)**

<b>Member country</b>	Country name	<b>The form does not apply</b>	
<b>Target Species</b>	e.g. Multiple		

**FLEET INFORMATION (vessels >20m)**

	Shallow sets (<15 HPB/HBF <sup>1</sup> or <100m max hook depth)			Deep sets (≥15 HPB/HBF or ≥100m max hook depth)		
<b>Period covered</b>	date range mm/dd/yyyy–mm/dd/yyyy			date range mm/dd/yyyy–mm/dd/yyyy		
<b>Area fished</b>	from (XXX)°W to (XXX)°W and from (XXX)°S/N to (XXX)°S/N			from (XXX)°W to (XXX)°W and from (XXX)°S/N to (XXX)°S/N		
	Total Fleet	Observed	% observed	Total Fleet	Observed	% observed
<b>No. of vessels that fished</b>	60	3	5	90	8	8.9
<b>No. of trips</b>	150	15	10	300	10	3.3
<b>No. of effective fishing days</b>	3700	238	6.4	800	22	2.8
<b>No. of sets</b>	4000	800	20	1000	25	2.5
<b>No. of hooks (in thousands)<sup>1</sup></b> <i>If unknown, approx. no. of hooks/set, using a *</i>	700	120	17	300	12	4
<b>Predominant<sup>2</sup> hook type/size (IATTC code)</b>	C-40	J-02		C-33	C-33	
<b>Predominant bait type<sup>3</sup></b>	SQ	SQ		M	M	

**SEA TURTLE SPECIES (vessels >20m)**

	No. of Individuals Observed					
	Shallow sets (<15 HPB/HBF <sup>4</sup> or <100m max hook depth)			Deep sets (≥15 HPB/HBF or ≥100m max hook depth)		
	Released Alive	Released Dead	Released Condition Unknown	Released Alive	Released Dead	Released Condition Unknown
<b>Taxa - Sea turtles</b>						
Leatherback ( <i>Dermochelys coriacea</i> )						
Loggerhead ( <i>Caretta caretta</i> )						
Green ( <i>Chelonia mydas</i> )						
Olive ridley ( <i>Lepidochelys olivacea</i> )						
Kemp's ridley ( <i>Lepidochelys kempii</i> )						
Hawksbill ( <i>Eretmochelys imbricata</i> )						
<b>Notes</b> (e.g. Tagged turtles, etc.)						

<sup>1</sup> Hooks per Basket / Hooks Between Float (HPB/HBF)

<sup>2</sup> "Predominant" indicates most common, e.g. >50%

<sup>3</sup> Bait code: SQ – squid (e.g. Cephalopods), M – mackerel (e.g. Scomber spp.), A – artificial lure (e.g. plastic jig)

<sup>4</sup> Hooks per Basket / Hooks Between Float (HPB/HBF)

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

List of index sites for each sea turtle species for each IAC country within which sea turtle nesting occurs. Use the index beaches in this table to provide information for Table 2 index nesting sites.

Name of Beach	DC	CM	EI	CC	LO	LK	Responsible
<b>Belize (2)</b>		<b>(1)</b>	<b>(1)</b>	<b>(1)</b>			
Gales Point			X				
Bacalar Chico Marine Reserve		X		X			
<b>Brazil (18)</b>	<b>(2)</b>	<b>(1)</b>	<b>(7)</b>	<b>(12)</b>	<b>(3)</b>		
Comboios	X			X			
Povoação	X			X			
Busca Vida			X	X			
Santa Maria				X			
Barra Jacuipe			X	X			
Guarajuba			X	X			
Itacimirim			X	X			
Praia do Forte			X	X			
Barra do Furado				X			
Farol				X			
Farolzinho				X			
Maria Rosa				X			
Berta			X				
Pipa			X				
Mangue Seco					X		
Coqueiros					X		
Pirambu					X		
Trindade Island		X					

Name of Beach	DC	CM	EI	CC	LO	LK	Responsible
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<b>Caribbean Netherlands (2)</b>	<b>(1)</b>	<b>(2)</b>	<b>(1)</b>	<b>(1)</b>			
Klein Bonaire, Bonaire		X	X	X			Sea Turtle Conservation Bonaire
Zeelandia, St. Eustatius	X	X					St Eustatius Sea Turtle Conservation
<b>Costa Rica /Pacific (9)</b>	<b>(1)</b>	<b>(5)</b>			<b>(4)</b>		
Isla Murcielago		X					
Nancite*					X		
Naranjo		X			X		
Cabuyal		X					
Nombre de Jesús		X					
Punta Pargos		X					
Playa Grande	X						
Ostional*					X		
Hermosa					X		
<b>Costa Rica/Atlantic (4)</b>	<b>(3)</b>	<b>(1)</b>	<b>(1)</b>				
Tortuguero	X	X					
Pacuare Norte	X						
Mondonguillo	X						
Cahuita			X				
<b>Ecuador (9)</b>		<b>(6)</b>	<b>(1)</b>		<b>(5)</b>		
San Lorenzo					X		MAE (Pacoche)
La Botada					X		MAE (Pacoche)
Playa Chocolatera		X			X		MAE (REMACOPSE)
Playa Tres Cruces		X			X		MAE(REMACOPSE)
PlayaMar Bravo		X			X		MAE(REMACOPSE)
Playita (Machalilla)			X				MAE (PNM/ Equilibrio
Quinta Playa (Galapagos)		X					MAE (DPNG)
Barahona (Galapagos)		X					MAE (DPNG)
Las Bachas (Galapagos)		X					MAE (DPNG)

Name of Beach	DC	CM	EI	CC	LO	LK	Responsible
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<b>Guatemala (2)</b>	<b>(1)</b>				<b>(2)</b>		
Hawaii	X				X		ARCAS
La Barrona					X		
<b>Honduras/Atlantic (3)</b>	<b>(1)</b>		<b>(2)</b>				
Pumkin Hill, Utila			X				
Plaplaya	X						
Cayos Cochinos			X				
<b>Honduras/Pacific (2)</b>					<b>(2)</b>		
Punta Ratón					X		
El Venado					X		
<b>México/Atlantic (12)</b>		<b>(11)</b>	<b>(4)</b>	<b>(8)</b>		<b>(7)</b>	
Rancho Nuevo, Tamps		X		X		X	CONANP
Barra del Tordo, Tamps		X		X		X	CONANP
Altamira, Tamps		X		X		X	CONANP
Mirama, Tamps						X	CONANP
Lechuguillas, Ver		X	X			X	CONANP
Isla Aguada-Xicalango-Victoria, Camp		X	X			X	CONANP
Chenkán, Camp		X	X			X	CONANP
Las Coloradas/Rio Lagartos, Yuc		X	X	X			CONANP
Xcabel, Q.Roo		X		X			Reserve Estatal
Chemuyil, Q. Roo		X		X			
Xel Ha, Q. Roo		X		X			
Puerto Aventuras, Q. Roo		X		X			
<b>México/Pacific (13)</b>	<b>(6)</b>	<b>(5)</b>			<b>(9)</b>		
El Verde, Sin	X				X		CONANP
Platanitos, Nay					X		CONANP
Nuevo Vallarta, Nay					X		CONANP
Mismaloya, Jal					X		CONANP
Chalacatepec, Jal					X		CONANP
El Chupadero, Col							CONANP

Name of Beach	DC	CM	EI	CC	LO	LK	Responsible
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Mexiquillo, Mich	X	X			X		CONANP
Tierra Colorada, Gro	X	X			X		CONANP
Cahuitán, Oax	X						CONANP
Escobilla, Oax*	X				X		CONANP
Barra de la Cruz, Oax	X	X			X		CONANP
Maruata, Mich		X					Univ. Michoacana SNH
Colola, Mich		X					Univ. Michoacana SNH
<b>Panamá/Atlantic (3)</b>	<b>(2)</b>	<b>(1)</b>	<b>(3)</b>	<b>(1)</b>			
Cayos Zapatillas (B. del Toro)			X				
Playa Chiriqui (B. del Toro)	X	X	X	X			
Playa Armita o Pito (Guna Yala)	X		X				
<b>Panamá/Pacific (2)</b>		<b>(2)</b>			<b>(2)</b>		
RVS Isla Cañas		X			X		
Playa La Marinera		X			X		
<b>United States/Atlantic (7)</b>	<b>(5)</b>	<b>(4)</b>	<b>(3)</b>	<b>(4)</b>		<b>(1)</b>	
Culebra Island, Puerto Rico	X						
Vieques Island, Puerto Rico	X	X	X				
Mona Island, Puerto Rico			X				
Buck Island Reef National Monument, U.S. Virgin Islands	X	X					
Sandy Point NWR, U.S. Virgin Islands	X	X	X				
Florida Index Beaches	X	X		X			
Georgia Index Beaches				X			
North Carolina Index Beaches				X			
South Carolina Index Beaches				X			
Texas (South Padre Island)						X	
<b>United States/Pacific (2)</b>		<b>(1)</b>	<b>(1)</b>				
French Frigate Shoals (HI)		X					
Hawaii			X				

Name of Beach	DC	CM	EI	CC	LO	LK	Responsible
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Venezuela (11)	(6)	(4)	(6)	(6)			
Querepare (Edo. Sucre)	X			X			CICTMAR
Cipara (Edo. Sucre)	X			X			CICTMAR
Macuro (varias playas cercanas, Edo. Sucre)	X	X	X				ONDB-MPPA
El Agua - Parguito Beach (Edo. Nueva Esparta)	X						ONDB-MPPA
Parque Nacional Archipiélago Los Roques (varios cayos)			X	X			INPARQUES, Fundación Científica
La Sabana (Edo. Vargas)	X						ONDB-MPPA, Consejo de Pescadores
Parque Nacional Henri Pittier (Playas Cuyagua, Uricaro y otros)		X	X	X			INPARQUES, Fundación Ecodiversa, Líderes de la
Playas entre las bocas del Río Morón Y Río Yaracuy			X	X			Palmichal S.C.
Parque Nacional Morrocoy (Cayo Borracho, Varadero y Playas Mayorquina)		X	X				CICTMAR, INPARQUES
Paraguana Peninsula	X		X	X			UNEFM (Universidad Nacional)
RFS Isla de Aves		X					ONDB-MPPA