



INTER-AMERICAN CONVENTION FOR THE PROTECTION AND CONSERVATION OF SEATURTLES

IAC – ANNUAL REPORT 2022

GUATEMALA

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 at secretario@iacseaturtle.org

The submission deadline for this Annual Report is April 30th, 2022.

Translation by Luz Helena Rodriguez – IAC Secretariat

Part I – General Information

Country

Name of the country reporting

>>> Guatemala

Official Note

If required, please attach here the relevant administrative authority **official note** endorsing the annual report submission.

Are you attaching an official note?

Please select only one option

Yes

No

You have attached the following documents to this answer.

[Oficio SE 0537-2022 entrega Informe Anual.pdf](#) - Note submission of Annual Report 2022 Guatemala

1) Focal Point

1.1 Name

>>> Ing. Agr. Carlos Virgilio Martínez López

1.2 Institution

>>> Consejo Nacional de Áreas Protegidas

1.3 Submission Date

>>> Guatemala, April 29, 2022

2) Agency or Institution responsible for preparing this report

2.1 Name of the person preparing this report

>>> Airam Andrea López Roulet

2.2 Name of Agency or Institution

>>> Consejo Nacional de Áreas Protegidas

2.3 Address

>>> 5 avenida 6-06 zona 1 Ciudad de Guatemala

2.4 Telephone

>>> 22914600 ext. 1703

2.5 E-mail

>>> marinocosteroconap@gmail.com

3) Others who participated in the preparation of this report

3.1 Others who participated in the preparation of this report

Name	Agency or Institution	E-mail
Julio Lemus	Dirección de Normatividad de la Pesca y Acuicultura -DIPESCA	juliolumusdipesca@gmail.com
Rachel Rodas	Dirección de Normatividad de la Pesca y Acuicultura -DIPESCA	ashadud@gmail.com
Marlon Chilín	Consejo Nacional de Áreas Protegidas	marlon.chilin.conap@gmail.com
David Barillas	Consejo Nacional de Áreas Protegidas	david.barillas.conap@gmail.com
Hendryc Acevedo	Consejo Nacional de Áreas Protegidas	obed_acevedo@hotmail.com

Part II – Policy and Management

1) General description of activities

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. The Party shall report on the action plans, management plan or other types of instruments.

Please select the options that best apply for your country and provide the link to the corresponding document if available online. If it is in progress add the date it is expected to be finalized in the corresponding section.

1.1 The country has a national strategy/plan for the conservation of sea turtles in accordance with Article XVIII.

Please upload the file or attach the links to the corresponding documents using the blue box icons beneath each question

Please select only one option

- Yes
 No
 In Progress

You have attached the following documents to this answer.

[Normativo tortugas marinas diseño 23012018](#) - Current document
[Sea Turtle National Strategy](#) - Current document

Species Management Plan

Only applicable to countries that have developed individual management plans for each species.

1.1.1 The country has a **specific strategy/plan** for the conservation of:

Please upload the file or attach the link to the corresponding document using icons below.

- Lepidochelys olivacea*
 Lepidochelys kempii
 Dermochelys coriacea
 Eretmochelys imbricata
 Caretta caretta
 Chelonia mydas

You have attached the following documents to this answer.

[Resolution 01 21 2020 Conservation Quota](#) Current Document, it is pending for publication in the Official Gazette.

1.2 Does your country have policies and programs at local and regional scales in accordance with Article XVIII?

Please attach the list of policies and programs and other information relevant to their adoption or implementation.

Please select only one option

- Yes
 No
 In Progress

You have attached the following documents to this answer.

[Sea turtle regulations 23012018.pdf](#) - Current document

You have attached the following links/URL to this answer

[Guidelines for *L. olivacea* technical management](#) Technical document for trainers and staff in charge of providing support to hatchery managers.

[Advice for the proper management of olive ridley eggs](#) - Mediated version of the technical document: Guidelines for the technical management of the olive ridley sea turtle eggs

1.3 Does your country have monitoring programs in accordance with Article IX?

Please attach the list of programs and other information relevant to their adoption or implementation.

Please select only one option

- Yes
 No
 In Progress

2) National legislation and international instruments related to sea turtles adopted 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 (30 April 2021 – 30 April 2022). 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.

First time a country is submitting this information: please include all pertinent national legislation and international instruments currently in force.

Countries that have previously submitted this information; please provide information for any changes that have occurred since your country's last report submission (2021).

National Legislation

Type and name of the legal instrument (No.)	Description (Range of application)	Sanctions Imposed

International Instruments

Treaty, Convention, Agreements, Memorandum of Understanding	Year signed and/or ratified

3) Actions to comply with National and International Mandate

List actions that are being carried out to comply with national and international mandates.

(Ex: inspections, confiscations, sanctions, etc.)

>>> Monitoring on nesting beaches is ongoing, along the entire Guatemalan Pacific coast. Increased control of the Conservation Quota as well as on the proper handling during the harvest; from collectors to those in charge of the hatcheries, as regulatory mechanism.

Currently, several private institutions and NGOs, offer the opportunity to collectors (locally known as parlameros) to exchange food for whole nests and in this way there is a 100% relocation of the nest in the hatcheries that have this program, ensuring a new conservation mechanism. On the Caribbean coast, operations are also carried out on roads, markets and beaches, but currently there is less support from public and private entities in that place.

4) Efforts to increase IAC membership

4.1 Has your country encouraged non-member states to join the IAC?

Please select only one option

Yes (list countries below)

No

4.2 Has your country reached out to Canada, Guyana, French Guiana, Trinidad and 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?

Please select only one option

Yes (list countries below)

No

5) Exceptions under the Convention

5.1 Implementation and monitoring of exceptions established in the Convention

Describe the progress in the implementation of the exception correspondent to the current year (800 words) according to the current resolutions on exceptions.

Resolutions on Exceptions

CIT-COP5-2011-R2 (PDF)

CIT-COP6-2013-R1 (PDF)

CIT-COP7-2015-R1 (PDF)

>>> Guatemala is waiting to start the next period of the Exception granted, after IAC COP Part II. Present progress on the preparation of the document "Exception Management Plan for Guatemala" is part of the process.

5.2 Have your country presented a 5-year report on the implementation of the Exception Resolution?

Resolution CIT-COP6-2013-R1 Exception Guatemala and Panama (2013-2020).

Resolution CIT-COP7-2015-R1 Exception Costa Rica (2015-2020).

[Attach the five-year report.](#)

Yes

No

5.3. Does your country have a management plan for the exception?

If yes, attach the exception management plan

Yes

No

In progress

5.4 Submission of new exceptions

Should your country present a new exception, please describe in the box below a brief description in accordance with article IV, item 3(a,b,d) and Annex IV of the text of the Convention, using the procedure established by the IAC COP and attach the full report as requested in Resolution CIT-COP5-2011-R2.

>>>

Part III - Compliance with IAC Resolutions

1) Sea Turtle Species Presence

1.1 Sea Turtle Species Present in the Country

Check the box if the species listed is present in the oceanographic basins of your country as established in Article III of the text of the Convention.

	AtlanticOcean	PacificOcean	CaribbeanSea
<i>Lepidochelys olivacea</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Lepidochelys kempii</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Dermochelys coriacea</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Eretmochelys imbricata</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Caretta caretta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Chelonia mydas</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Notes

Include other information, if required

>>>

2) IAC Resolutions

2.1 The following resolutions apply to this country

- Eastern Pacific Leatherback Turtle Resolution
- Hawksbill Resolution
- Loggerhead Resolution
- Northwest Atlantic Leatherback Resolution
- Fisheries Resolution

Resolution CIT-COP7-2015-R2 - Eastern Pacific Leatherback Turtle (*Dermochelys coriacea*)

1. Has your country created conservation plans and/or long-term programs that can reverse the critical situation of the leatherback turtle in the Eastern Pacific?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There are no particular actions for the species, a comprehensive work involving all sea turtle species is carried out.

2. Are you implementing the country EP leatherback conservation plans?

Please select only one option

- Yes
 No
 Does not apply

Please indicate the period of validity of these plans

>>>

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There are no relevant details to provide.

3. Have you taken conservation measures to eliminate poaching of leatherback turtles?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There is no consumption of the species

4. If your country has leatherback turtle nesting beaches in the Eastern Pacific: Have you taken conservation measures to protect the nests and nesting habitat?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There is greater attention to identify nests of this species, although nesting has been sporadic. In the nesting period 2021 to 2022 three nests were reported, with zero hatching success.

5. Has your country adopted fishing techniques that reduce incidental capture and mortality of this species?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There are no specific actions for the species.

Resolution CIT-COP8-2017-R2 - Hawksbill Turtle (*Eretmochelys imbricata*)

1. Is your country strengthening monitoring of the illegal use and trade of hawksbill turtles and their products?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There are no particular actions for the species, a comprehensive work involving all sea turtle species is carried out.

2. Is your country enforcing pertinent hawksbill legislation?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There are no particular actions for the species.

3. Are activities being carried out in your country to stop the illegal trade of hawksbill products?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> The Country Resolution specifies that consumption of parts or byproducts of the species is prohibited.

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

4a. Protection of nesting habitats

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> The area which is habitat for this species was declared a Special Protection Area in 1989. It was declared as Wildlife Refuge Protected Area Punta de Manabique since 2005.

4b. Protection of feeding habitats

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> As a Protected Area, zones are established for different uses and prohibitions, resulting in the area proper management, through the Management Plan.

Resolution CIT-COP7-2015-R3: Resolution on the Conservation of the Loggerhead SeaTurtle (*Caretta caretta*)

1. Has your country created national action plans and/or monitoring programs to promote loggerhead seaturtle conservation?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> No relevant actions for this species have been carried out

2. State if there are plans or recovery programs, or bilateral or regional cooperation in your country.

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> No relevant actions or plans for this species have been carried out

3. Are these action plans or monitoring programs being implemented?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> No relevant actions or plans for this species have been carried out

4. Is there protection of the loggerhead turtle at a state or federal level?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> CONAP Resolution 01-21-2012, prohibits collecting eggs, parts or byproducts of sea turtle species, including *Caretta caretta*, for more than 05 years, which has been used to date to remain valid.

5. Has your country taken conservation actions to protect nesting beaches and their associated habitats?

Please select only one option

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> No relevant actions for this species have been carried out

6. Are there laws on turtle-friendly lighting in areas impacted by coastal development?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> No relevant actions regarding nesting sites of this species have been carried out

7. Is there long-term (minimum 10 years) standardized data available for population trend studies?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There is no data collection for this species population trend studies

8. Is there exploitation or direct harvest of loggerhead turtles in your country?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There is no evidence of exploitation or direct captures.

Resolution CIT-COP3-2006-R2 – Reduce impacts of fisheries on sea turtles

Relating to if your country has 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

1. Does your country collect information by fishery?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There is no relevant data on the interactions between sea turtles and fisheries.

2. Does your country have observer programs?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> Currently there is no onboard observers program in the country

3. Does your country do research on sea turtle/fishery interactions?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> At the moment there are no reports of specific research on the sea turtles and fisheries issue.

4. Does your country have information on non-Party vessels and interactions with sea turtles?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> At the moment there is no information from non-party states.

5. Does your country cooperate with non-party states to obtain information on interactions with sea turtles?

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> At the moment no event has been presented in this regard; however, cooperation and communication with non-party states is always open.

B. Mitigation measures

6. Does your country implement mitigation measures in long-line fisheries?

If the answer is **NO** please justify

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There have been actions to mitigate longline fisheries impact, in terms of:

1. Training for fishermen and technical personnel on best practices for handling sea turtles to improve survival.
2. Actions to exchange traditional hooks for circle hooks with longline fishermen.

7. Does your country implement mitigation measures in gillnets fisheries?

If the answer is **NO** please justify

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> It is regulated within the Fisheries and Aquaculture General Law Decree 80-2002 and its Regulation, Government Agreement 223-2005

8. Does your country implement mitigation measures in trawl fisheries (e.g. TEDs)?

If the answer is **NO** please justify

Please select only one option

- Yes
 No
 Does not apply

Please list the most relevant actions of the year (500 words)

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; or attach any relevant documents

>>> It is regulated within the Fisheries and Aquaculture General Law of Decree 80-2002 and its Regulation, Government Agreement 223-2005. In articles 17, 18, 19, 20, 21 and 22.

ARTICLE 18. Details TED Characteristics.

You have attached the following links/URL to this answer

[Aquaculture and Fisheries General Law Regulation OSP-06-13 on the proper use of Sea Turtle Excluder Devices \(TEDs\)](#)

9. Does your country implement mitigation measure in other fishing gears?

If the answer is **NO** please justify

Please select only one option

- Yes
 No
 Does not apply

If yes, please indicate which fishing gears

>>> As part of International Organizations regulating tuna fisheries in the Eastern Pacific Ocean, Guatemala complies with the following resolutions and recommendations related to sea turtles:

IATTC: [Resolution C-0407](#)

ICAAT: [Resolution 03-11](#)

10. List the fisher training programs about best practices for safe handling and release of incidentally-

caught sea turtles carried out by your country during the last year

>>> There have not been training programs in the last year

C. Socio-economic considerations

11. Does your country support socio-economic activities that help mitigate adverse impacts of fisheries on sea turtles?

Please select only one option

Yes

No

Does not apply

Please list the most relevant actions of the year (500 words)

List the activities, workshops, research, publications, or any other relevant material related to your response. Attach supporting documents, if required.

>>> There have not been socioeconomic activities to reduce impacts in the last year.

Part IV – Research Information

Indicate threats (Coastal development, incidental capture, direct use, contamination, pathogens, and climate change) by species

1) Threats

1.1 Indicate threats

Indicate threats (**Coastal development, incidental capture, direct use, contamination, pathogens, and climate change**) by species

Lo = *Lepidochelys olivacea*

Lk = *Lepidochelys kempii*

Dc = *Dermochelys coriacea*

Ei = *Eretmochelys imbricate*

Cc = *Caretta caretta*

Cm = *Chelonia mydas*.

	<i>Lo</i>	<i>Lk</i>	<i>Dc</i>	<i>Ei</i>	<i>Cc</i>	<i>Cm</i>
Direct Use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incidental Capture	<input type="checkbox"/>					
Coastal development	<input checked="" type="checkbox"/>					
Pathogens	<input type="checkbox"/>					
Contamination	<input checked="" type="checkbox"/>					
Climate Change	<input checked="" type="checkbox"/>					

2) Indicate the mitigation actions that apply for each species

2.1 Habitat loss mitigation actions (i.e. coastal development, pollution, climate change)

	<i>Lo</i>	<i>Lk</i>	<i>Dc</i>	<i>Ei</i>	<i>Cc</i>	<i>Cm</i>
Establishment of Marine Protected Areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lighting regulations in place	<input type="checkbox"/>					
Permits required for construction near nesting sites	<input checked="" type="checkbox"/>					
Permits required for scientific research on feeding/nesting grounds	<input checked="" type="checkbox"/>					
Permits required for recreational activities near nesting sites	<input checked="" type="checkbox"/>					
Beach Cleanups	<input checked="" type="checkbox"/>					
Predator's removal/control	<input type="checkbox"/>					
Use of sea turtle friendly lighting	<input type="checkbox"/>					
None	<input type="checkbox"/>					

2.2 Bycatch mitigation actions (i.e. Incidental Capture)

	<i>Lo</i>	<i>Lk</i>	<i>Dc</i>	<i>Ei</i>	<i>Cc</i>	<i>Cm</i>
Sea Turtle Excluder Devices (TED)	<input type="checkbox"/>					
Time/space closures	<input checked="" type="checkbox"/>					
Research on new fishing gear technology	<input type="checkbox"/>					
Vessel monitoring using VMS	<input type="checkbox"/>					
Marking of fishing gear in commercial vessels	<input type="checkbox"/>					
Fishers trained on sea turtle safe handling and release	<input type="checkbox"/>					
Observers program	<input type="checkbox"/>					
Use of circle hooks	<input type="checkbox"/>					
Nets are banned	<input type="checkbox"/>					
Trawling is banned	<input type="checkbox"/>					
Nets illumination	<input type="checkbox"/>					
None	<input type="checkbox"/>					

2.3 Direct use mitigation actions

	<i>Lo</i>	<i>Lk</i>	<i>Dc</i>	<i>Ei</i>	<i>Cc</i>	<i>Cm</i>
None	<input type="checkbox"/>					
Nests relocation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Night Patrols	<input checked="" type="checkbox"/>					
Day Patrols	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flipper Tagging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Satellite Tracking	<input checked="" type="checkbox"/>					
Poaching regulations in place	<input checked="" type="checkbox"/>					
Environmental education for local communities	<input checked="" type="checkbox"/>					
Seizure of sea turtle products	<input type="checkbox"/>					
Livelihood alternatives for local communities	<input type="checkbox"/>					
Permits required for scientific research	<input checked="" type="checkbox"/>					
Exception management plan (if applies)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3) Research

3.1 Types of research

Please fill out the following table on the types of research being carried out in the country related to each species.

	<i>Lo</i>	<i>Lk</i>	<i>Dc</i>	<i>Ei</i>	<i>Cc</i>	<i>Cm</i>
Tagging	<input type="checkbox"/>					
Migration	<input type="checkbox"/>					
Genetics	<input type="checkbox"/>					
Habitat monitoring	<input type="checkbox"/>					
Fisheries interactions	<input type="checkbox"/>					
Disease	<input type="checkbox"/>					

3.2 Describe scientific research

In addition to the above, please 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.

To report each project, please use the following structure:

- 1) Name of the project
- 2) Objective
- 3) E-mail of the organization/responsible
- 4) Summary (5 lines)
- 5) Annex Number (Use the blue buttons to attach photos and/or the full report, if available)

Describe the file with the same Annex number referenced in the text.

>>> Research in progress:

- 1) Title of the project: "Monitoring of the green turtle (*Chelonia mydas*) in the Posa del Nance, Sipacate, Escuintla, Guatemala"
- 2) Objectives: The objectives are to contribute to the conservation of marine biodiversity in Guatemala through a research and conservation permanent program, produce biotic and physical data on the habitat of sea turtles, the application of standard methodologies to establish demographic data of the population and produce information that makes it possible to link local populations of sea turtles with sites they use to complete their life cycles in other countries, and promote local conservation of the species through activities to raise awareness of the society.
- 3) E-mail of the organization/responsible: researcher Lemuel Alfredo Valle Albizures
- 4) Abstract (5 lines): The green turtle *Chelonia mydas* (Linnaeus, 1758) is a species with a global distribution in tropical waters and to a lesser extent in subtropical waters (Groombridge, 1982). Its main spawning areas are concentrated on beaches in tropical latitudes. Like other species of sea turtles, the green turtle is highly migratory, being able to undertake complex migrations between widely separated habitats. Nesting occurs in more than 80 countries around the world with around 150 nesting colonies, although only 12 have more than 2,000 nesting females per year (Hirth, 1997; Formia, 2002; Seminoff, 2004).

Like other sea turtle species, *C. mydas* is particularly susceptible to population declines due to anthropogenic pressures throughout its life span, from egg to adult (Seminoff 2004). The greatest threats are the overexploitation of which it has been subjected for food (turtle meat is considered an exotic delicacy and it is consumed despite being illegal), the intensive poaching of its eggs, accidental mortality due to the industry fishing and the loss and degradation of nesting beaches due to coastal development (Gibert et al 2010).

Sea turtles spend most of their lives in the sea and come to land only to lay their eggs. In some places, males are found resting on the beach during the breeding season. On the coasts of Guatemala, you can find the following species of sea turtles: Parlama – *Lepidochelys olivacea*, Hawksbill – *Eretmochelys imbricata*, Loggerhead (Atlantic) – *Caretta caretta*, Green – *Chelonia mydas* and Leatherback Turtle – *Dermochelys coriacea*. All species of sea turtles have been declared by international entities or conventions (World Conservation Union IUCN, CITES) as endangered species because their populations have declined by more than 80% worldwide (Monzón H. 2016).

A series of publications, made in this period, are listed below:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8614273/>

4) Other activities

In the case of projects, please include the name of the project, organizations involved, a five lines summary, current status, and contact person.

4.1 Other activities

Include a 500 words summary of information on environmental education activities, programs to establish and manage protected areas, and cooperative activities with other Party countries.

Please attach any other relevant documents using the blue boxes below.

>>> Follow-up is given to the different activities carried out this season,

a. Education and training activities

Every year at the start of the season, CONAP personnel in coastal areas provide educational talks on nests handling, hatcheries and sea turtles, among others, as well as on good practices. These trainings are prepared by the technicians of each Regional Office for those in charge of the hatcheries.

a.1 Environmental Education Workshops

With the support of a local project, CONAP personnel provided training workshops for community leaders, children and youngsters of two local communities to increase awareness in the population on environmental issues and sea turtles.

b. Visit to hatcheries by CONAP

This season a great effort was made to register egg collectors or parlameros, the objective of this registry is to have greater control on the people in the community who are collect this resource, as well as to train them in different aspects, emphasizing on eggs handling.

b.1 Control and surveillance patrols

On some beaches, with the support of the corresponding authorities, night patrols were carried out to verify compliance with the Conservation Quota.

c. Stranding Report

Recording of strandings has been requested, filling specific forms. CONAP personnel have trained the managers of the hatcheries on filling in the Stranding tickets, with the purpose of having said information. At the moment the quality of the filling and the reports has improved, hoping that in the next season the data will be completed with greater accuracy

d. Evidence the main threats

Currently, bodies of dead sea turtles have been found in the sea and on the beach, so it is considered that these deaths are due to mishandling of fishing gear. Therefore, the respective complaint has been filed with the competent authorities. It is considered that on both coasts, non-responsible fishing activities are threatening different sea turtle population species.

You have attached the following links/URL to this answer.

[South, Southeast and Northeast Regional Directions Report](#)

Part V – Nesting Information

Index nesting sites or beaches for sea turtle conservation

Use the following drop down menu to select the index sites which you would like to report information for the latest season corresponding to the year of this report

Index Nesting Sites

Attach here other files relevant to this section, if required

Please describe the content of the attachment in the box below and use the blue button to attach the file.

>>> The table listing all the hatcheries in the Guatemalan Pacific zone was shared, the data includes Nests Seeded- New Seeds- Neonates Released; of reported species.

Guatemala

Hawai

Hawai: Criteria for selection of this index beach/site

Select the guidelines used to identify this site as an index beach based on the IAC document CIT-CC10-2013-Tec.5 “Selecting Index Beaches in the IAC Region and Data Collection Guidelines”.

If your country requires to report a new index beach please send a request based on above guidelines to the IAC Secretariat secretario@iacseaturtle.org

Guidelines for selecting index beaches/sites in the IAC Region

- This is a site where one of the species found in the country nests at any significant level.
- This site hosts a significant proportion of the overall nesting population within the region or the country, even if numbers are small.
- There is significant population structure (e.g. genetics, RMUs), that represent the various segments of the regional population.
- This site includes major nesting sites already under intensive study and long-term monitoring.
- This site remains consistent as index beach from year to year and receives sufficient resources to maintain adequate and consistent monitoring.

Index Nesting Site Information

Geographic Location: Latitude

Specify latitude in decimal degrees

>>> 13°52'05.54'

Geographic Location: Longitude

Specify longitude in decimal degrees

>>> 90°25'10.72"

Declared Protected Area

Indicate if the area is declared as some type of protected area

Please select only one option

- Yes
- No

Tagging Programs

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.

- FT
- ST
- PIT
- None

Additional information on tagging programs (flipper and telemetry)

Please list the references available to the public with information on flipper tagging and telemetry in the box below. If required, 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 and indicate if this data is open for publication in our website or should stay confidential.

>>> At the moment this program is not implemented

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, include a table describing: date, species, type of tissue collected, general purpose (genetics, contaminant, and/or stable isotope studies, etc) and reference or report if available to the public.

Please select only one option

- Yes
 No

Tissue Sampling – additional information

Please list the references available to the public with information on studies based on tissue sampling (genetics, contaminants and/or stable isotope) in the box below.

>>> At the moment this program is not implemented

Organization or entity providing data

Indicate what organization or entity is providing the data

>>> Centro de Rescate de Vida Silvestre de ARCAS

Extension of beach monitored (km)

Provide the total length (in kilometers) of the nesting beach.

>>> 7

Annual Nesting

Hawai

This table is intended to report information per species at the index nesting site.

Nesting season: Indicate the starting and finishing date of the nesting season. **Monitoring**

period: Indicate the starting and finishing date of monitoring efforts.

Survey frequency: Indicate the frequency with which the surveys are done (daily, weekly, bi-weekly, monthly, among others).

Season females/ nests/ clutch count: Provide information on the total number of females and/or nests/ clutches 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.

Please scroll to the right to see all questions >>>>

	Year the nesting season started	Month and day the nesting season started	Year the nesting season ended	Month and day the nesting season ended	Start of monitoring period	End of monitoring period	Survey frequency	Season females exact count	Season clutches exact count	Season number of nests
Lo	2021	June 2021	2022	February	June 2021	February 2022	daily			165
Lk										
Dc										
Ei										
Cc										
Cm										

You have attached the following documents to this answer.

Season [2021](#) [2022](#) – Guatemala 2021-2022

Please indicate if there were any circumstances that impacted monitoring (hurricanes, storms, other natural phenomenon, personnel availability, financial constraints, etc.)

>>> Due to the effects of the pandemic, it was difficult to obtain funds for the payment of personnel; as well as the reception of volunteers who support work in the hatcheries

La Barrona

La Barrona: Criteria for selection of this index beach/site

Select the guidelines used to identify this site as an index beach based on the IAC document CIT-CC10-2013-Tec.5 "Selecting Index Beaches in the IAC Region and Data Collection Guidelines".

If your country requires to report a new index beach please send a request based on above guidelines to the IAC Secretariat secretario@iacseaturtle.org

Guidelines for selecting index beaches/sites in the IAC Region

- This is a site where one of the species found in the country nests at any significant level.
- This site hosts a significant proportion of the overall nesting population within the region or the country, even if numbers are small.
- There is significant population structure (e.g. genetics, RMUs), that represent the various segments of the regional population.
- This site includes major nesting sites already under intensive study and long-term monitoring.
- This site remains consistent as index beach from year to year and receives sufficient resources to maintain adequate and consistent monitoring.

Index Nesting Site Information

Geographic Location: Latitude

Specify latitude in decimal degrees

>>> 13°46'10.72"

Geographic Location: Longitude

Specify longitude in decimal degrees

>>> 90°11'19.95"

Declared Protected Area

Indicate if the area is declared as some type of protected area

Please select only one option

Yes

No

Tagging Programs

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.

FT

ST

PIT

None

Additional information on tagging programs (flipper and telemetry)

Please list the references available to the public with information on flipper tagging and telemetry in the box below. If required, 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 and indicate if this data is open for publication in our website or should stay confidential.

>>> This program is not available

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, include a table describing: date, species, type of tissue collected, general purpose (genetics, contaminant, and/or stable isotope studies, etc) and reference or report if available to the public.

Please select only one option

Yes

No

Tissue Sampling – additional information

Please list the references available to the public with information on studies based on tissue sampling (genetics, contaminants and/or stable isotope) in the box below.

>>> There is no implementation of this type of sampling

Organization or entity providing data

Indicate what organization or entity is providing the data

>>> Centro de Rescate de Vida Silvestre de ARCAS

Extension of beach monitored (km)

Provide the total length (in kilometers) of the nesting beach.

>>> 10

Annual Nesting

La Barrona

This table is intended to report information per species at the index nesting site.

Nesting season: Indicate the starting and finishing date of the nesting season. **Monitoring**

period: Indicate the starting and finishing date of monitoring efforts.

Survey frequency: Indicate the frequency with which the surveys are done (daily, weekly, bi-weekly, monthly, among others).

Season females/ nests/ clutch count: Provide information on the total number of females and/or nests/ clutches 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.

Please scroll to the right to see all questions >>>>

	Year the nesting season started	Month and day the nesting season started	Year the nesting season ended	Month and day the nesting season ended	Start of monitoring period	End of monitoring period	Survey frequency	Season females exact count	Season clutches exact count	Season number of nests
<i>Lo</i>	2021	June 2021	2022	February	June 2021	February 2022	daily			
<i>Lk</i>										
<i>Dc</i>	2021	June	2022	February	June 2021	February 2022	daily			
<i>Ei</i>										
<i>Cc</i>										
<i>Cm</i>										

You have attached the following documents to this answer.

[Season 2021 2022](#) - Guatemala 2021-2022

Please indicate if there were any circumstances that impacted monitoring (hurricanes, storms, other natural phenomenon, personnel availability, financial constraints, etc.)

>>> There was a drop in tourism, which is why the number of nests transferred to the hatchery has probably increased.

Part VI – Fisheries Information

If your country does not have data available to fill out the information on longline fisheries, please contact the IAC Secretariat secretario@iacseaturtle.org

Longline Fisheries (Vessels >20m)

Does your country have industrial longline fisheries with vessels over 20m?

Please select only one option

Yes

No

Longline Fisheries (Vessels <20m)

Does your country have longline fisheries with vessels less than 20m?

Please select only one option

Yes

No

Thank you!

Thank you, you have completed the IAC Online Report questionnaire.

We are very appreciative of the time you have taken to answer all of the questions. The PDF of this document will be published on the Annual Reports section of the IAC website <http://www.iacseaturtle.org/informes-eng.htm>