



# Inter-American Convention for the Protection and Conservation of Sea Turtles Guatemala 2006 Annual Report

## Second Annual Report **[Translation]**

### Directory

Country	Guatemala
Agency or institution responsible for preparing this report	National Council of Protected Areas (CONAP) / Association of Professionals in Biodiversity and Environment PROBIOMA
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### Focal Point

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Date: \_\_\_\_\_



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## 1. Biological Information

### 1.1. Species present

Species	Pacific Ocean	Atlantic Ocean	Caribbean Sea
	Phase(s)	Phase(s)	Phase(s)
<i>Lepidochelys olivacea</i>	R,F		D
<i>Lepidochelys kempii</i>	-		-
<i>Dermochelys coriacea</i>	R		F,R
<i>Eretmochelys imbricata</i>	D		R
<i>Chelonia mydas</i>	R,F		-
<i>Caretta caretta</i>	D		F,R

Phases: R = Reproduction; F = Foraging; M = Migration; D = Phase Unknown

### 1.2. Important sites for sea turtle conservation

	Name of Site	Species (s)	Season	Geographic Location (Lat/Long)	Area (km or hectares, if applicable)	Protection Category	Observations*
<b>NESTING SITE</b>							
<b>PACIFIC</b>	PACIFIC NAVAL BASE	LO	JUN-FEB		ND	NONE	
	EL CONACASTE	LO	JUN-FEB	13°55.887' 90°39.636'	ND	NONE	
	EL NARANJO	LO	JUN-FEB	13°54'30.831" 91°1'26.785"	ND	NATIONAL PARK	
	EL PAREDÓN	LO	JUN-FEB	13°54'51.079" 91°4'30.999"	ND	NATIONAL PARK	
	EPQ	LO	JUN-FEB	13°55.919' 90°46.673'	ND	NONE	
	RAMA BLANCA	LO	JUN-FEB		ND	NONE	
	SIPACATE	LO	JUN-FEB	13°55'15.233" 91°9'5.33"	ND	NATIONAL PARK	
	EL JIOTE	LO,DC	JUN-FEB	13°46.835' 90°12.915'	ND	NONE	
	LA BARRONA	LO, DC	JUN-FEB	13°46.254' 90°11.138'	ND	NONE	
	AQUAMESA-MAR AZUL	LO	JUN-FEB		ND	NONE	
	EL CHICO	LO	JUN-FEB		ND	NONE	
	OCÓS	LO	JUN-FEB		ND	NONE	
TILAPA	LO	JUN-FEB	14°29.69' 92°10.642'	ND	NONE		



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	CANDELARIA	LO, DC	JUN-FEB	13°54.587´ 90°33.260´	ND	NONE	
	EL AHUMADO	LO	JUN-FEB	ND	ND	NONE	
	EL BANCO	LO	JUN-FEB	13°54.161´ 90°31.518´	ND	NONE	
	EL CHAPETÓN	LO, DC	JUN-FEB	13°49.845´ 90°19.938´	ND	NONE	
	EL GARITÓN	LO, DC	JUN-FEB	13°55.184´ 90°36.316´	ND	NONE	
	EL ROSARIO	LO	JUN-FEB	13°50.915´ 90°22.133´	ND	MULTIPLE USE AREA	
	HAWAI	LO, DC	JUN-FEB	13°51.805´ 90°24.349´	ND	MULTIPLE USE AREA	
	LAS LISAS	LO, DC	JUN-FEB	13°48.031´ 90°15.737´	ND	NONE	
	MONTE RICO	LO	JUN-FEB	13°53.377´ 90°28.997´	ND	MULTIPLE USE AREA	
	CHURIRÍN	LO	JUN-FEB	14°07´12.08” 91°39´43.3”	ND	NONE	
	EL TRIUNFO	LO	JUN-FEB		ND	NONE	
	TECOJATE	LO	JUN-FEB		ND	NONE	
<b>ATLANTIC</b>	JALOA	Ei, Cc	ND			WILDLIFE REFUGE	
	VIVERO GUATEMALA	Ei, Cc, Dc	JUN-DIC	15°51´20.9” 88°26´46.8”		WILDLIFE REFUGE	
<b>FORAGING SITE</b>							
<b>PACIFIC</b>	POZA DEL NANCE	CM, Ei	ALL YEAR			NATIONAL PARK	
	TULATE	CM	ALL YEAR			NONE	
<b>ATLANTIC</b>	BAHÍA LA GRACIOA	Ei, Cc	ALL YEAR			WILDLIFE REFUGE	
<b>MIGRATORY ROUTES</b>							



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(See Annex 10.1 for Maps of Hatchery Locations)

Hatchery	Institution	(HS) Dc	(NL) Dc	(% EL) Dc	(HS) Lo	(NL) Paríama	(% EL) Paríama	(HS) Ei	(NL) Carey	(% EL) Carey	(HS) Cm	(NL) Verde	(% EL) Verde	(HS) Cc	(NL) Cabezona	(% EL) Cabezona	(HS) TOTAL	(NL) TOTAL	(% EL) TOTAL	
Hawaii	ARCAS	43	42	98%	22,926	21,131	92%	0	0		0	0		0	0		22,969	21,173	92%	
EL Banco	ICADS/COCODE/MUNICIPALIDAD	709	399	56%	12673	10604	84%	0	0		0	0		0	0		13382	11003	82%	
Las Lisas	AGEXPRONT	267	151	57%	9647	9239	96%	0	0		0	0		0	0		9914	9390	95%	
La Barrona	MILENYA	60	0	0%	6956	6077	87%	0	0		0	0		0	0		7016	6077	87%	
El Chapetón	AGEXPRONT	150	106	71%	6148	5835	95%	0	0		0	0		0	0		6298	5941	94%	
El Rosario	ARCAS	0	0		5370	4940	92%	0	0		0	0		0	0		5370	4940	92%	
El Garitón	Colegio Austriaco	573	487	85%	4506	3975	88%	0	0		0	0		0	0		5079	4462	88%	
Monte Rico	CECON	0	0		4262	3973	93%	0	0		0	0		0	0		4262	3973	93%	
CONAPAC	CONAPAC	0	0		3179	2457	77%	0	0		0	0		0	0		3179	2457	77%	
Rama Blanca	Olmeca	0	0		1950	1800	92%	0	0		0	0		0	0		1950	1800	92%	
Candelaria	Municipalidad de Taxisco	154	88	57%	1300	1000	77%	0	0		0	0		0	0		1454	1088	75%	
Puerto Quetzal	EPQ	0	0		840	0		0	0		0	0		0	0		840	0		
Churirín	CONAP Costa Sur	0	0		809	510	63%	0	0		0	0		0	0		809	510	63%	
El Naranja	CONAP Costa Sur	0	0		749	364	49%	0	0		0	0		0	0		749	364	49%	
Ocos	Amigos del Bosque	0	0		722	600	83%	0	0		0	0		0	0		722	600	83%	
Vivero Guatemala	FUNDARY	60	10	17%	0	0		627	540	86%	0	0		26	22	85%	713	572	80%	
EL Triunfo	CONAP Costa Sur	0	0		484	446	92%	0	0		0	0		0	0		484	446	92%	
Tilapa	Amigos del Bosque	0	0		386	343	89%	0	0		0	0		0	0		386	343	89%	
El Paredon	CONAP Costa Sur	0	0		318	232	73%	0	0		0	0		0	0		318	232	73%	
El Chico	CONAP Costa Sur	0	0		103	76	74%	0	0		0	0		0	0		103	76	74%	
Sipacate	CONAP Costa Sur	0	0		92	42		0	0		0	0		0	0		92	42		
El Conacaste	ICADS	0	0		ND	ND		0	0		0	0		0	0		0	0		
El Jiote	UNIPESCA	0	0		ND	ND		0	0		0	0		0	0		0	0		
<b>Total</b>		<b>0</b>	<b>2,016</b>	<b>1,283</b>	<b>55%</b>	<b>83,420</b>	<b>73,644</b>	<b>83%</b>	<b>627</b>	<b>540</b>	<b>86%</b>	<b>0</b>	<b>0</b>	<b>0%</b>	<b>26</b>	<b>22</b>	<b>85%</b>	<b>86,089</b>	<b>75,489</b>	<b>88%</b>

## SUMMARY OF INFORMATION FROM THE 2005-2006 SEASON

SPECIE	HS	NL	EL	NHU	NHE
LO	83,420	73,644	83%	834,200	3,792
Dc	2,016	1,283	55%	20,160	30
Ei	627	540	86%	6,270	8
Cc	26	22	85%	260	0.5
CM	0	0	0	0	0
<b>TOTAL</b>	<b>86,089</b>	<b>75,489</b>	<b>62%</b>	<b>860,890</b>	<b>6,862</b>



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<b>HS</b> NUMBER OF EGGS RELOCATED TO HATCHERIES
<b>NL</b> NUMBER OF HATCHLINGS RELEASED
<b>EL</b> RELEASE SUCCESS BY SPECIES
<b>NHu</b> TOTAL ESTIMATED NUMBER OF EGGS BY SEASON OR OVIPOSITION. CALCULATED USING HS, WHICH REPRESENTS 10% OFF THE EGGS ON THE BEACH.
<b>NHE</b> ESTIMATED NUMBER OF FEMALES NESTING ON THE COASTS OF GUATEMALA. CALCULATION BASED ON THE AVERAGE NUMBER OF NESTS AND THE NUMBER OF TIMES EACH SPECIES NESTS PER SEASON (SOURCE OF INFORMATION ON NESTING AVERAGES AND AVERAGE NUMBER OF EGGS PER NEST PER SPECIES: CHACÓN 2001).

**NOTE:** THE DATA PRESENTED IN THE PREVIOUS TABLE ARE APPROXIMATE CALCULATIONS SINCE FACTORS EXIST WHICH DO NOT ALLOW THE INFORMATION TO BE MORE PRECISE. THERE IS A HIGH PERCENTAGE OF COST THAT IS NOT COVERED BY HATCHERIES WHICH GENERATES ILLEGAL COMMERCE OF EGGS AND THERE IS A LACK OF COOPERATION WITH EGG COLLECTORS, AMONG OTHERS. UNDER THESE CONDITIONS, WE CONSIDER THAT OUR CALCULATIONS ARE UNDERESTIMATING THE POPULATION OF NESTING FEMALES AND NUMBER OF TOTAL EGGS DEPOSITED ALONG THE GUATEMALAN COSTS.

## 2. Information regarding the use derived from sea turtles

	Types of use	Specie	Products	Ocean Basin	Origin*		Estimated annual quantity	Information source	Actions
					L	I			
<b>Consumptive Use</b>	Domestic	Lo	Eggs	Pacific	L		860,890	See Bibliography	Improved control
	Domestic	Ei, Cc	Meat	Caribbean		I	ND	Field trips	
<b>Non-consumptive</b>	Tourism	Lo, Dc, Ei, Cc		Pacific, Caribbean	L		ND	Tour Operators	

\* L = legal, I = illegal

## 3. Main threats

### 3.1 Habitat and other threats

Threats	Specie(s) Affected	Size of Impact	Geographic Region(s) Affected	Information Source	Actions
Infrastructure development	Lo, Dc, Ei, Cm, Cc	Not quantified	Caribbean and Pacific	Field trips	Apply Environmental Impact Evaluations and Mitigation measures
Spills	Lo, Dc, Ei, Cm, Cc	Area of influence of Port Companies	Caribbean and Pacific	Field trips	Mitigation plans for impacts. ISO Certification for port management.
Vehicles on the beach	Lo, Dc	Not quantified	Mainly Pacific	Field trips	Apply regulations and presence of authorities.



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## 3.2 Capture (Intentional/incidental)

Threats	Specie(s) Affected	Size of Impact	Geographic Region(s) Affected	Information Source	Actions
Inadequate use of TEDs	Dc, Lo	EEZ	Pacific	See Bibliography	Better control in open ocean.
Capture of species by artesinal and industrial longlines fishing mahi mahi, tuna and shark	Dc, Lo	EEZ	Pacific	See Bibliography	Searching for technology that reduces incidental capture

## 4. Legal Framework

### 4.1. International instruments

Treaty, Convention, Agreements, Memorandum of Understanding	Year signed and/or ratification
Inter-American Tropical Tuna Convention (Omitted from previous Report)	2004

### 4.2. National legislation

Type and name of legal instrument (No.)	Description (Range of application)	Sanction(s) Imposed
Fisheries Law Regulation	Regulates fisheries activities at a national level. Describes types of fisheries, vessels authorized and scale or type of fishing. Mandatory use of DETs and prohibits capture of sea turtles and other protected species.	Sanctions are approx. 1,000 to 10,000 USD for infringement. For repeated offences the sanction increases 100%. Equipment used is also confiscated.
Synergetic Calendar. Executive Secretary Resolution No. 001-2006	Prohibits among other species, the poaching of sea turtles at the national level.	Sanctions carried out according to the Law of Protected Areas, Judicial and Administrative Sanctions



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### 4.3. Indicate any legal instruments that are currently in the process of being approved.

PRESENTLY, THE APPROVAL AND PUBLICATION OF THE GENERAL HUNTING LAW REGULATION IS PENDING, THE NATIONAL CONSEL OF PROTECTED AREAS IS CREATING A PROPOSED MORATORIUM FOR DC, WHICH IS FOUND IN TH LEGISLATIVE ANALYSIS.

### 4.4. Public and private institutions involved in sea turtle conservation

- INSTITUTIONS OF THE NATIONAL SEA TURTLE CONSERVATION ADVISORY GROUP (GATM).

Institution/ Entity	Responsibilities
1. PACIFIC NAVAL BASE –CONAPAC-	CONTROL AND OCEAN PATROLS , HATCHERY MANAGMENT
2. CARIBBEAN NAVAL BASE –CONACAR-	CONTROL AND OCEAN PATROLS
3. WILDLIFE CONSERVATION AND RESCUE ASSOCIATION– ARCAS-	HATCHERY MANAGEMENT
4. ASSOCIATION GREMIAL OF NON TRADITIONAL PRODUCT EXPORTERS–AGEXPRONT-	HATCHERY MANAGEMENT
5. FRIENDS OF THE FOREST ASSOCIATION	HATCHERY MANAGEMENT
6. CENTER FOR CONSERVATION STUDIES –CECON-	HATCHERY MANAGEMENT
7. SCHOOL OF BIOLOGY, UNIVERSIDAD DE SAN CARLOS DE GUATEMALA	RESEARCH
8. NATIONAL FISHERIES UNIT –UNIPESCA-	HATCHERY MANAGEMENT/ COUNTRY’S FISHERIES REGULATING ENTITY/ DET / CONTROL AND PATROLS
9. FOUNDATION FOR ECODEVELOPMENT AND CONSERVATION –FUNDAECO-	MANAGEMENT OF PROTECTED AREAS
10. CENTER FOR OCEAN AND AQUICULTURE STUDIES – CEMA-	RESEARCH RELATED TO FISHERIES AND AQUICULTURE
11. NATIONAL CIVIL POLICE, THROUGH THE NATURE PROTECTION DIVISION –DIPRONA-	CONTROL AND PATROLS
12. FACULTY OF VETERINARIAN MEDICINE AND ZOOLOGY OF THE UNIVERSITY OF SAN CARLOS.	RESEARCH
13. NATIONAL COUNCIL ON PROTECTED AREAS –CONAP-	MANAGEMENT OF PROTECTED AREAS AND WILDLIFE HATCHERY MANAGEMENT

### 5. Exceptions

Programs involving extractive use (include Management Plan)

### 6. Conservation Efforts

#### 6.1 General description of the sea turtle protection and conservation program

In the previous report, a general description of the National Sea Turtle Management and Conservation Strategy (ENTM) was provided, which has a validity of 10 years from 2002.



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## 6.2 Relevant Projects and Activities

PROJECT/ACTIVITIES	GENERAL OBJECTIVE	RESULTS OBTAINED	DURATION	
			FROM	UNTIL
WORKSHOP ON MANAGING THE OFFICIAL DOCUMENTATION FOR THE COMMERCIALIZATION OF SEA TURTLE EGGS	DETERMINE CONTROL MECHANISMS FOR COMMERCIALIZATION	MANAGEMENT MECHANISM FOR VALIDATING ESTABLISHED COMMERCIALIZATION	2000	PERMANENT
COORDINATE GATM MEETINGS	COORDINATE THE PERFORMANCE OF SPECIFIC ACTIONS AND REPORT ON PROGRESS	COORDINATED ACTIVITIES UNDER SPECIFIC CRITERIA AND DEFINED DIVERSE PROJECTS	2001	PERMANENT
NESTING SEASON INAGURATIONS 2002-2003	TO CREATE AWARENESS IN THE LOCAL COASTAL POPULATIONS REGARDING THE MAIN TURTLE NESTING SEASON ON THE PACIFIC COAST OF GUATEMALA	INAGURATIONS WITH PARTICIPATION OF GENERAL SOCIETY	2002	PERMANENT
PROJECT: PRODUCE THE NATIONAL SEA TURTLE CONSERVATION AND MANAGEMENT STRATEGY (ENTM) AND INITIATE IMPLEMENTATION	CREATE A NATIONAL STRATEGY FOR SEA TURTLES	PRODUCTION AND OFFICIAL APPROVAL OF DOCUMENT	2001	PERMANENT
REGIONAL SEA TURTLE PROTECTION STRATEGY FOR THE CARIBBEAN GUATEMALA	DEVELOP ACTIONS AND SPECIFIC ACTIVITIES FOR THE PROTECTION OF SEA TURTLES IN THE CARIBBEAN	REGIONAL STRATEGY CREATED	2003	PERMANENT
INTEGRATED RESEARCH, SUSTAINABLE USE AND MONITORING PROGRAM FOR SEA TURTLES ALONG THE GUATAMALAN COASTS	SUPPORT THE ENTM THROUGH GENERATING THE NECESSARY INFORMATION TO MAKE CONSERVATION AND MANAGEMENT DECISIONS FOR THE SEA TURTLES IN THE COUNTRY.	CREATION OF SEA TURTLE GENETIC RESEARCH PROJECTS. ADVISING IN THE DEVELOPMENT OF GRADUATE THESIS. CREATION AND PUBLICATION OF TECHNICAL DOCUMENTS.	2003	PERMANENT
INSPECTION FOR APPROPRIATE USE OF TEDs (UNIPESCA AND NAVAL BASES)	COMPLY WITH THE LEGAL MANDATE TO USE TEDs ON THE COUNTRY'S SHRIMP TRAWLING FLEET	COMPLETED MORE THAN 2,000 INSPECTIONS ON LAND. CARRIED OUT INSPECTIONS AT SEA.	1999	PERMANENT
LAND PATROLS AND CONTROL ACTIONS (SEPRONA-CONAP)	COMPLY WITH EXISTING NATIONAL SEA TURTLE REGULATIONS	PATROL BEACHES. CREATE OPERATIVES TO COMBAT TRAFFICKING OF SEA TURTLE EGGS	1999	PERMANENT
MANAGEMENT OF HATCHERIES IN THE COUNTRY	SUPPORT THE SEA TURTLE PROTECTION AND CONSERVATION ACTIONS BY MANAGING AND INCUBATING EGGS UNDER SEMI-CONTROLLED CONDITIONS FOR HATCHLING RELEASE.	BETWEEN 13 AND 25 HATCHERIES ARE UP AND RUNNING IN DIFFERENT PARTS OF THE COUNTRY WITH PARTICIPATION FROM 16 INSTITUTIONS. INCLUDING GO, NGO, PRIVATE INITIATIVES AND SUPPORT ORGANIZATIONS	APPROXIMATELY SINCE THE 70'S	PERMANENT





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PROJECT/ACTIVITIES	GENERAL OBJECTIVE	RESULTS OBTAINED	DURATION	
			FROM	UNTIL
NATIONAL FISHING HOOK EXCHANGE PROGRAM (UNIPESCA-WWF-CIAT)	ENCOURAGE THE USE OF CIRCULAR HOOKS OVER J HOOKS.  DEMONSTRATE THE RESULTS OF THIS CHANGE THROUGH THE COMPILATION OF FIELD DATA.	EXCHANGED APPROXIMATELY 5,000 J HOOKS FOR CIRCULAR.  CARRIED OUT ONBOARD OBSERVATION TRIPS FOR DATA COLLECTION.  TRAINING WORKSHOPS FOR THE SOCIETY AS A WHOLE, TRAINING PROGRAMS FOR ONBOARD OBSERVERS.	2004	PERMANENT
CREATE A PROTOCOL TO MONITOR PARAMETERS OF SEA TURTLE POPULATIONS AND THE 2005-2006 NATIONAL NESTING REPORT	PROVIDE THE SEA TURTLE NESTING ANNUAL REPORT AND PROTOCOL FOR MONITORING POPULATION PARAMETERS OF SEA TURTLES IN SITU AND EX SITU.	FINAL REPORT WITH DATABASE	NOV. 2005	FEBRUARY 2006
EXCHANGE EXPERIENCES IN SEA TURTLE MANAGEMENT WITH THE TAMAR PROJECT	FAMILIARIZE WITH THE MANAGEMENT PRACTICED IN BRAZIL'S PROJECT TAMAR AND OBTAIN INFORMATION ON BETTER MANAGEMENT PRACTICES FOR THE COUNTRY	VISITED SIX HATCHERIES ALONG BOTH COASTS OF THE COUNTRY, WITH DR. JOAO CARLOS TOMÉ OF PROJECT TAMAR	SEPT. 2005	SEPTEMBER 2005
GUATEMALA IN SEA TURTLE PROTECTION AND CONSERVATION	PRESENT THE CURRENT STATE OF NATIONAL ACTIVITIES IN SEA TURTLE PROTECTION AND CONSERVATION	PUBLISHED DOCUMENT PROVIDING THE CURRENT STATE OF CONSERVATION OF SEA TURTLES	2005	2005
PARLAMA PROJECT	DEMONSTRATE THE REALITY OF THE CURRENT SITUATION USING TRUSTED METHODS AND ENCOURAGE SUSTAINABLE CONSERVATION AND MANAGEMENT OF NATURAL COASTAL RESOURCES IN THE REGION	MONITOR TRACKS ON THE BEACH, HATCHERY MANAGEMENT, RESEARCH	2005	PERMANENT

**(See Annex 10.2 for more detailed descriptions of protection and conservation activities)**

## 7. International Cooperation

INTERNATIONAL COOPERATION SUPPORTS THE DEVELOPMENT OF SPECIFIC PROJECTS THROUGH VERY SMALL DONATIONS, BOTH FINANCIAL AND OF THEIR TIME, GEARED TOWARDS DIFFERENT ORGANIZATIONS OF THE CIVIL SOCIETY.

PRESENTLY, THE STRONGEST INTERNATIONAL SUPPORT IS PROVIDED BY CIAT AND WWF FOR THE HOOK EXCHANGE PROGRAM.



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## 8. National Directory

INSTITUTION	RESPONSIBLE	CONSERVATION EFFORTS	GEOGRAPHIC AREA /SPECIALTY	TELEPHONE
AGEXPRONT	FERNANDO ROSALES L.	HATCHERY ADMINISTRATION	LAS LISAS, EL CHAPETÓN, EL AHUMADO.	23622002/ 23621950
AMIGOS DEL BOSQUE	LIGIA DE LEÓN	HATCHERY ADMINISTRATION	OCÓS AND TILAPA	77751537
AQUAMESA	ONOFRE HIGUEROS	HATCHERY ADMINISTRATION	RETALHULEU	
ARCAS	COLUM MUCCIO	HATCHERY ADMINISTRATION	HAWAI AND EL ROSARIO	24784096
CONAPAC	LUIS ALBERTO BLANCO	CIVIL MATTERS	NAVAL BASE	78881056
CBM/SAM/MARN	ALBA NIDIA PEREZ	IN CHARGE OF PROGRAM	BIOLOGICAL CORRIDORS	24230500
CECON	JORGE RUÍZ	RNUMM ADMINISTRATION	MONTERRICO	3310904
CEMA	PEDRO JULIO GARCIA	RESEARCH	HYDROBIOLOGICAL REC.	4762206
COL. AUSTRIACO		HATCHERY MANAGEMENT	EL GARITÓN	2610208 2610245 / 2610224
CONAP	LIC.. HIRAM ORDOÑEZ	DIRECTION OF WILDLIFE	WILDLIFE ADMINISTRATION	24226700
CONAP SUR ORIENTE	JULIO CESAR CASTRO	HATCHERY ADMINISTRATION	JUTIAPA	7844P4955
CONAP, COSTA SUR	SERGIO MAZARIEGOS	ADMINISTRATION OF PNSN AND HATCHERIES	EL CHICO, TECOJATE PNSN, CHURIRÍN EL TRIUNFO.	77713781
CONAP, PUERTO BARRIOS	GERSON QUEVEDO	REGIONAL DELEGATION	IZABAL	79486243
CONFED	ELMER BARRERA	FINANCIAL SUPPORT	SPORT FISHING	23330042
EMPRESA PORTUARIA QUETZAL	CARLOS SAMAYOA	AWARENESS AND ADMINISTRATION OF HATCHERIES	ESCUINTLA, EPQ.	8791555, EXT. 323
SCHOOL OF BIOLOGY	FERNANDO DIAZ	RESEARCH	WILDLIFE	24769856
VETERINARY FACULTY	LUIS MORALES, OR CARLOS ALFARO.	RESEARCH	WILDLIFE	24420534
FOGUAMA	JOSE MIGUEL LEIVA	FINANCES	ENVIRONMENT	24230506



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INSTITUTION	RESPONSIBLE	CONSERVATION EFFORTS	GEOGRAPHIC AREA /SPECIALTY	TELEPHONE
FONACON	IVONNE RAMÍREZ	FINANCES	WILDLIFE AND PROTECTED AREAS	23394692
FUNDAECO	MARCO VINICIO CEREZO	ENVIRONMENTAL EDUCATION	PNSN	24404605 / 24404615
FUNDARY	JEAN LUC BETOULLE	ADMINISTRATION OF MANABIQUE PT. WILDLIFE REFUGE	PUNTA DE MANABIQUE	22323230/ 79480435
MILENYA	ANA BELLA BARRIOS	LA BARRONA HATCHERY MANAGMENT	LA BARRONA, JUTIAPA	53180064
ICADS	LUIS GIRÓN	AWARENESS	EL BANCO, EL CONACASTE	55324131
MAGA	MARIA JOSÉ ITURBIDE	ADVISOR TO VICE-MINISTER	ENVIRONMENT AND NATURAL RESOURCES	23624764/ 23624756
PROBIOMA	MARIO ROBERTO JOLON MORALES/ REGINA SÁNCHEZ	RESEARCH/ INTERNATIONAL CONVENTIONS/BIODIVERSITY MANAGEMENT	NACIONAL TERRITORY	23661633/ 52061867
DIPRONA	OFFICIAL RENE ESCOBAR VILLATORO	CONTROL AND POLICING	NATIONAL TERRITORY	23370490
UNIPESCA	ERICK VILLAGRÁN COLÓN	INSPECTION OF TED'S, HATCHERY ADMINISTRATION	HIGH SEAS, EL JIOTE	66305883
MUNICIPALITY OF TAXISCO	LUIS SALAZAR	CANDELARIA, ELBANCO HATCHERY MANAGMENT	TAXISCO, SANTA ROSA	5964-1934
VOLUNTARIADO USAC	DANIEL SALAZAR	CONTROL AND PATROLLING AND AWARENESS	WILDLIFE	22329374

## 9. Sources of Information

Chacón, D. 2001. Manual para mejores prácticas de CONSERVACIÓN de las tortugas marinas en CENTROAMÉRICA. Costa Rica: Costa Rica, s.e. 139 p.

SÁNCHEZ CASTAÑEDA R., JOLON MORALES M. R., GIRÓN ARANA L., MECHEL BAY C. 2005. ELABORACIÓN DEL PROTOCOLO DE MONITOREO Y DE PARÁMETROS POBLACIONALES DE TORTUGAS MARINAS Y DEL INFORME ANUAL DE LA TEMPORADA DE ANIDACIÓN 2005-2006. INFORME FINAL CONSULTORIA. GUATEMALA: CONAP/PAÍSES BAJOS-PROBIOMA. 123 P.+ ANEXOS

DATA BASES OF CONAP, PROBIOMA AND UNIPESCA

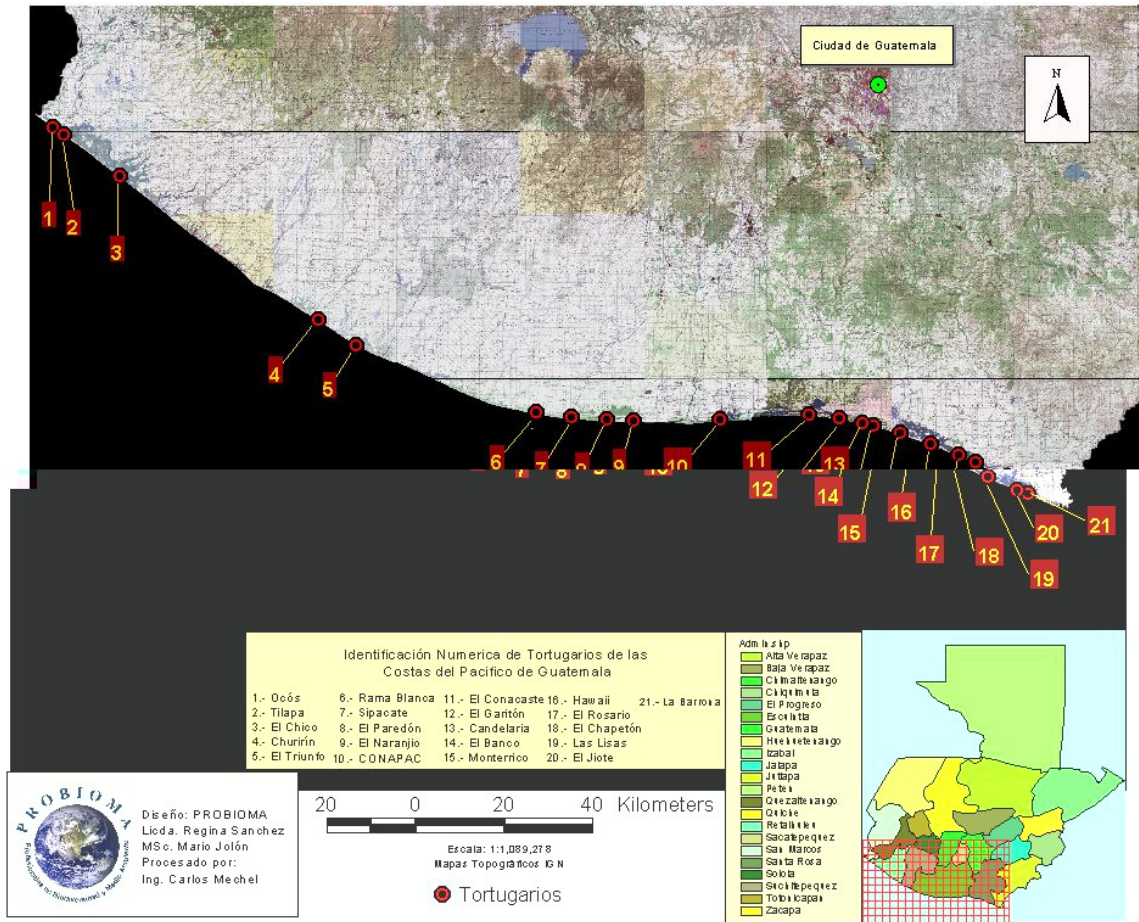


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## 10. Annexes

### 10.1 MAPS OF HATCHERY LOCATIONS.

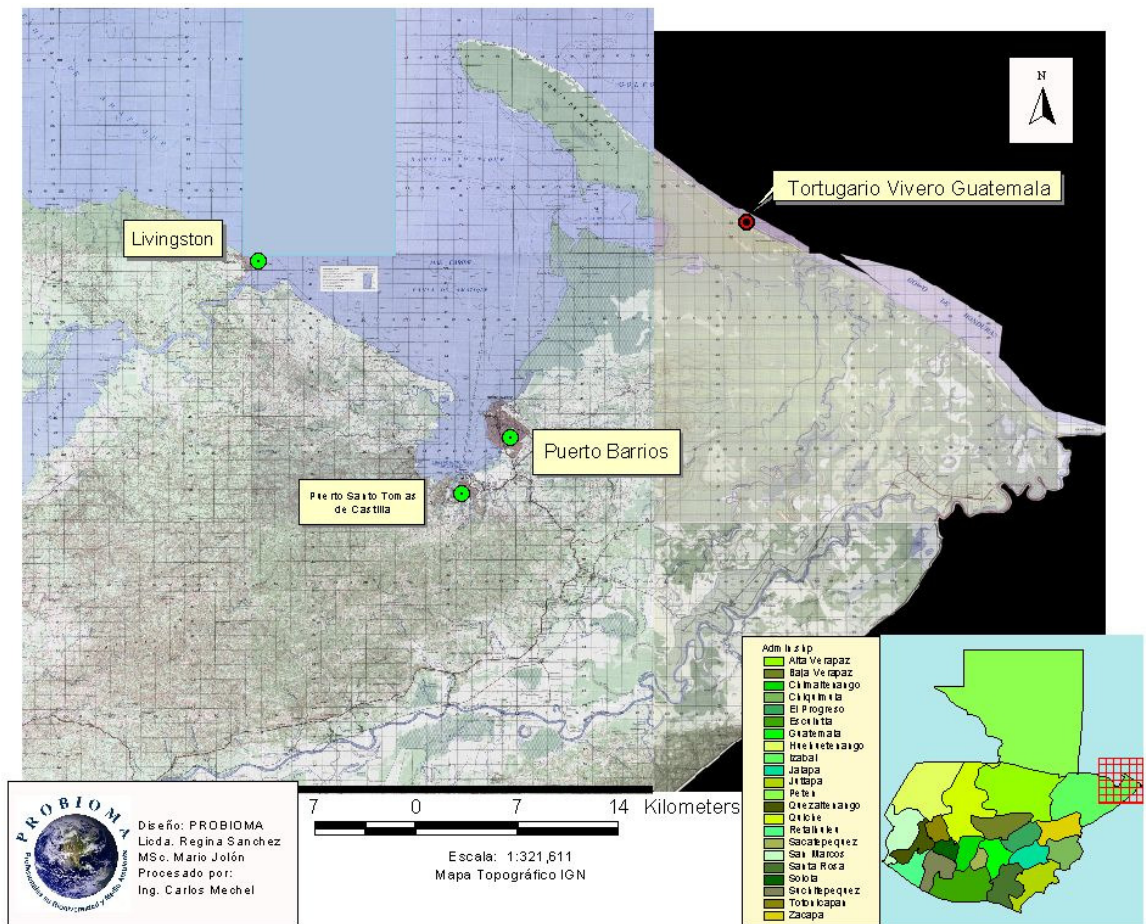
#### 10.1.1 HATCHERIES LOCATED ON THE PACIFIC COAST OF GUATEMALA





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## 10.1.2 HATCHERY LOCATED IN THE CARIBBEAN COAST OF GUATEMALA



## 10.2 DETAILED INFORMATION ON THE CONTROL AND PATROLLING ACTIVITIES CARRIED OUT TO COMPLY WITH THE EXSISTING LEGISLATION FOR THE PROTECTION OF SEA TURTLES.

### 10.2.1 CONTROL AND PATROLLING ACTIVITIES

#### 10.2.1.1 LAND ACTIVITIES

THE CONTROL AND PATROLLING ACTIVITES ON LAND ARE PERFORMED BY WHAT IS CURRENTLY KNOWN AS THE DIVISION OF ENVIRONMENTAL PROTECTION (DIPRONA) OF THE NATIONAL CIVIL POLICE (PNC) WHO CARRIED OUT TWO DIFFERENT TYPES OF OPERATIONS DURING THE 2005-06 SEASON. LOS OPERATIONS CONSISTED OF: (I) PATROLS: ON FOOT, OR BY MOTORCYCLE OR VEHICLE, AND (II) AREAS OF CONTROL AND REGISTRY. THE TOTAL NUMBER OF CONTROL AND PATROLLING ACTIVITIES CARRIED OUT DURING THE 2005 SEASON WERE 17, BETWEEN SEPTEMBER 20<sup>TH</sup> AND DECEMBER 11<sup>TH</sup> OF THE SAME YEAR. FIGURE 1 SHOWS THAT THE HIGHEST NUMBER OF OPERATIONS WERE CARRIED OUT IN NOVEMBER AND THE LEAST NUMBER IN SEPTEMBER.



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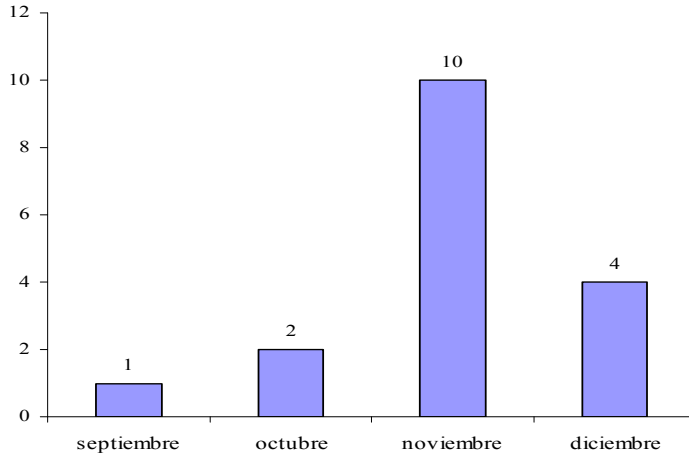


FIGURE 1. NUMBER OF OPERATIONS CARRIED OUT BY SEPRONA (NOW DIPRONA) DURING THE 2005 SEASON (TAKEN FROM SÁNCHEZ ET AL 2006).

ACCORDING TO THE REPORT PROVIDED BY DIPRONA, NO CONFISCATIONS WERE MADE DURING THE OPERATIONS. THE OBJECTIVES OF THE OPERATIONS WERE TO CONFISCATE EGGS WITHOUT RECIPITS FOR COMMERCIALIZATION AS WELL AS SPREAD AWARENESS TO THE GENERAL PUBLIC, MAINLY EGG COLLECTERS AND BUSINESSES.

OF THE 7 COASTAL DISTRICTS OF GUATEMALA, OPERATIONS FOR SEA TURTLE CONSERVATION WERE CARRIED OUT IN ONLY 3, THOSE BEING SANTA ROSA, JUTIAPA AND ESCUINTLA, AND IN 5 MUNICIPALITIES OF THOSE DISTRICTS. FIGURE 2 SHOWS THE MUNICIPALITIES AND THE REPRESENTED PERCENTAGE OF NUMBER OF OPERATIVES CARRIED BY DIPRONA.

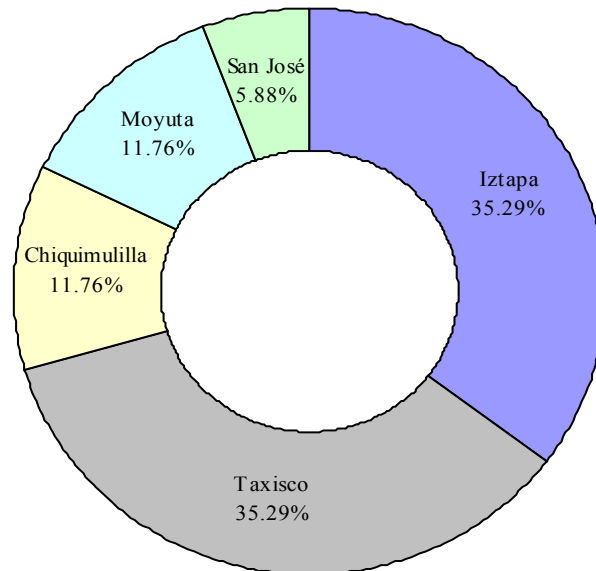


FIGURE 2. REPRESENTATION OF PERCENTAGE OF NUMBERS CARRIED OUT DURING THE SEASON BY MUNICIPALITY (TAKEN FROM SÁNCHEZ ET AL 2006).



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THE SAME LOCATIONS OF THE OPERATIONS WERE THE SAME ONES COLLABORATING IN THE PLACEMENT OF EGGS IN 10 OF THE 21 HATCHERIES THAT WERE UP AND RUNNING DURING THE SEASON, AFTER HURRICANE STAN. THE NUMBER OF PATROL OPERATIVES WERE 11 AND 6 OPERATIVES WERE AREAS OF CONTROL AND REGISTRY. TABLE 1 SHOWS THE NUMBER OF OPERATIVES CARRIED OUT ACCORDING TO THE AREA OF ACTIVITY OF THE HATCHERIES.

TABLE 1. HATCHERY SUPPORTED (ACCORDING TO THEIR AREA OF ACTIVITY) CONSIDERING THE TYPE OF OPERATIVE CARRIED OUT BY DIPRONA (TAKEN FROM SÁNCHEZ ET AL 2006).

TYPE OF OPERATIVE	SUPPORT HATCHERY (ACCORDING TO ITS AREA OF ACTIVITY)	No.
BEACH PATROLS	CONACASTE	1
	EL GARITÓN, EL BANCO	1
	HAWAII, EL ROSARIO	2
	LA BARRONA	2
	MONTERRICO	4
	CONAPAC, EPQ	1
	AREAS OF CONTROL AND REGISTRY	CANDELARIA, EL BANCO
	MONTERRICO, EL BANCO, EL GARITÓN, EL CONACASTE, CANDELARIA	4
	MONTERRICO, EL BANCO, EL GARITÓN, EL CONACASTE, CANDELARIA, CONAPAC, EPQ.	1
<b>GENERAL TOTAL</b>		<b>17</b>

BASED ON THE SCHEDULE IN WHICH THE OPERATIVES WERE HELD, FIGURE 3 SHOWS THAT THE MAJORITY OF THE OPERATIVES ON THE BEACH WERE CARRIED OUT AT 16:00 HOURS AND THE AREAS OF CONTROL AT 00:00 HOURS.

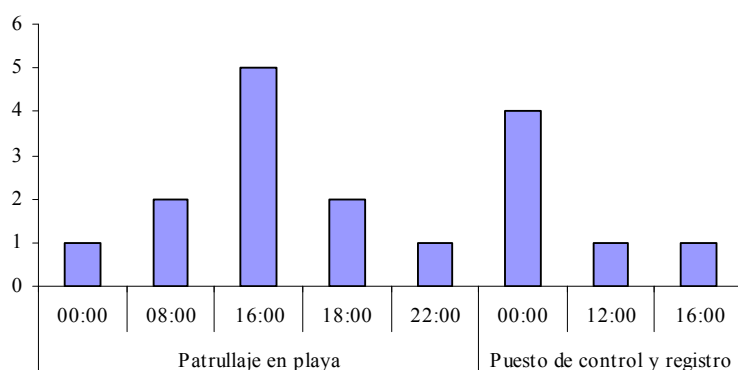


FIGURE 3. SCHEDULE OF OPERATIVES CARRIED OUT ACCORDING TO THE TYPE OF PATROL (TAKEN FROM SÁNCHEZ ET AL 2006).

### 10.2.1.2 ACTIVITIES AT SEA

DURING 2005, PERSONNEL FROM UNIPESCA CARRIED OUT 14 INSPECTIONS IN THE OPEN OCEAN, ON 9 DIFFERENT BOATS BELONGING TO 5 OWNERS. THE RESULTS OF THESE INSPECTIONS REPORTED "INADEQUATE USE"



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OF TEDS ON 13 OCCASIONS AND “UNKNOWN” ON ONE OCCASION. ACCORDING TO VERBAL INFORMATION PROVIDED BY THE PERSON IN CHARGE OF UNIPESCA, IT WAS INDICATED THAT AFTER BOARDING THIS BOAT THE RESULT WAS “ADEQUATE USE”. TABLE 2 SHOWS THE DATE IN WHICH THE INSPECTIONS WERE CARRIED OUT IN 2005, THE NAME OF THE BOAT, OWNER AND RESULT OF THE INSPECTION.

TABLE 2. USE OF TED'S DURING THE INSPECTIONS CARRIED OUT BY UNIPESCA IN 2005, BY OWNER ORGANIZATION AND NAME OF BOAT (TAKEN FROM SÁNCHEZ ET AL 2006).

<b>OWNER</b>	<b>NAME OF BOAT</b>	<b>DATE</b>	<b>ADEQUATE</b>	<b>UNKNOWN</b>	<b>GENERAL TOTAL</b>
COMARPA	SANTA LUISA	08/02/2005	1		1
COOPERATIVA. HAWAII	CRISTIAN	08/02/2005	1		1
		20/07/2005	1		1
	NEPTUNO	20/07/2005	1		1
	SANTA ROSA	20/07/2005	1		1
	URBANO ARTURO	08/02/2005	1		1
COOPERATIVA. LA CURBINA	OCÓS	20/07/2005	1		1
		20/07/2005	1		1
		27/07/2005	1		1
COOPERATIVA. LAS LISAS	DON GUILLERMO	08/02/2005	1		1
		20/07/2005	1		1
		27/07/2005	1		1
	EL IRLANDÉS	20/07/2005		1	1
		27/07/2005	1		1
INDUSTRIAS MARÍTIMAS	CONCEPCIÓN	08/02/2005	1		1
<b>GENERAL TOTAL</b>			<b>13</b>	<b>1</b>	<b>14</b>

### 10.3 GLOSSARY OF ACRONYMS

AGEXPRONT	ASOCIACIÓN GREMIAL DE EXPORTADORES DE PRODUCTOS NO TRADICIONALES
AAB	AMIGOS DEL BOSQUE
ARCAS	ASOCIACIÓN PARA EL RESCATE Y LA CONSERVACIÓN DE VIDA SILVESTRE
CONAPAC	COMANDO NAVAL DEL PACÍFICO
CONACAR	COMANDO NAVAL DEL CARIBE
CBM	CORREDOR BIOLÓGICO MESOAMERICANO/
CECON	CENTRO DE ESTUDIOS CONSERVACIONISTAS
CEMA	CENTRO DE ESTUDIOS DEL MAR Y ACUICULTURA
CONAP	CONSEJO NACIONAL DE ÁREAS PROTEGIDAS
DIPRONA	DIVISIÓN PARA LA PROTECCIÓN DE LA NATURALEZA
EPQ	EMPRESA PORTUARIA QUETZAL





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FOGUAMA	FONDO GUATEMALTECO PARA EL MEDIO AMBIENTE
FONACON	FONDO NACIONAL PARA LA CONSERVACIÓN
FUNDAECO	FUNDACIÓN PARA EL ECODesarrollo Y LA CONSERVACIÓN
FUNDARY	FUNDACIÓN MARIO DARY
ICADS	INSTITUTO DE CIENCIAS AMBIENTALES Y DESARROLLO SOCIAL
MILENYA	ASOCIACIÓN MANEJO INTEGRAL DE LOS ECOSISTEMAS NATURALES Y MEDIO
MAGA	MINISTERIO DE AGRICULTURA, GANADERIA Y ALIMENTOS
MARN	MINISTERIO DE MEDIO AMBIENTE Y RECURSOS NATURALES
PROBIOMA	PROFESIONALES EN BIODIVERSIDAD Y MEDIO AMBIENTE
SAM	SISTEMA ARRECIFAL MESOAMERICANO
UNIPESCA	UNIDAD NACIONAL DE PESCA Y ACUICULTURA