

Narrative Progress Report

(31 May 2010)

Project Title:

Information Systems in support of the Action Plan for Marine Conservation in the Southeast Pacific (SEPIS)

Target Country or Region : CPPS Countries

Budget code : 513RLA2005

Contract number :

Funding sources : FUST (SSA)

Total Budget approved : 13,530 USD

Reporting Period : February 2009- May 2010

Executing Agency : IOC

Implementing partners : CPPS, CIIFEN

Project starting date : 4/09/2008

Project completion date : 30/09/2009 (Extension requested)

Responsible Sector : SC/IOC

Name of Person completing Report: J. Barbieri, SC/IOC

I. Summary and Background (1 page)

In 1989, the Parties to the Lima Convention (Chile, Colombia, Ecuador, Panama and Peru), adopted the protocol for the Conservation and Management of the Coastal and Marine Protected Areas of the Southeast Pacific (MCPA). Though this binding document, countries of the region acknowledged the necessity to adopt appropriated measures to protect and preserve fragile, vulnerable or unique ecosystems, as well as the fauna and flora threatened by depletion and extinction, in order to harmonize the management of coastal zones to maintain the equilibrium between conservation and development.

- In 1991, the Plan of Action for the Conservation of Marine Mammals in the Southeast Pacific (PAMM) was endorsed by these countries (CPPS/PNUMA, 1992), in order to improve their conservation policies on marine mammals and as a framework for activities that require regional cooperation. The PAMM is part of the Plan of Action for Protection of the Marine Environment and Coastal Areas of the Southeast Pacific.
- In November 2007, the XIV Meeting of the Parties to the Lima Convention adopted the Regional Programme for the Conservation of Marine Turtles in the Southeast Pacific. This initiative aims at protecting and conserving from human activities five species of marine turtles inhabiting the region.
- In the framework of the MCPA, countries agreed in 1991 to create the regional network of MCPA as an integration mechanism to establish connectivity and to implement a regional approach. The network embraces tropical areas in Panama, Colombia and Ecuador; subtropical areas in the south of Ecuador and Peru; cold areas in Chile; and Antarctic areas in the austral region.

Although these Programmes and Action Plans are the backbone of the regional policy in marine conservation in the Southeast Pacific, they are not supported by data-bases and information system.

The General objective of the SEPIS project is to develop an integrated information system in support of research and management in priority marine species and habitats in the Southeast Pacific, in the context of the Plan of Action for Protection of the Marine Environment and Coastal Areas of the Southeast Pacific, through three modules (Marine Turtles, Cetaceans, Marine Protected Areas). Each of the three modules can stand alone and be implemented stepwise.

II. Description of project activities undertaken during the reporting period

The following activities have been carried out to accomplish Project objectives:

▪ Personnel recruiting

The University "Escuela Politécnica del Litoral (ESPOL)" was involved in this project as CPPS and SPOL maintains a cooperation agreement. A group of six students, four marine biology and two computing, were selected to work under supervision of Dr. Paola Almeida. For this purpose a contract was drafted in which the responsibilities assumed by the ESPOL team were defined, including the development of fact sheets, databases in the required format and the software. The total contract cost was \$ 5,900.

The Project was coordinated by Fernando Félix, regional coordinator of the Southeast Pacific Action Plan. Other technicians from CPPS included Magali Valencia and Andrés Macías.

- Project implementation

The tool includes three modules: cetaceans, marine turtles and marine and coastal protected areas. The activities carried out are described next.

1. Design of formats

Several types of formats were developed in the first stage, including the following:

- General information. Designed to include biological and ecological information for each species of cetaceans (n = 44), turtles (n = 5) recorded in the region, as well as general aspects of coastal and marine protected areas (n = 89) such as extension, legal status, species/ecosystems target, among others (Annex 2).
- Format for bibliographic references. This format based on an Excel spreadsheet was designed to include existing documents on cetaceans and sea turtles in the region. It includes also the species, topics of the work is and type of document (scientific article, book, technical report or thesis) (Annex 2).
- Format for georeferenced data. Based on an Excel spreadsheet to include data on sightings and strandings in the case of whales, and nesting and breeding sites in the case of turtles. This information is complemented with the source of information (bibliographic reference). At this stage, only published information has been requested (Annex 2).

2. Information request

Information on cetaceans and sea turtles were requested directly from the researchers who work with these taxa in the region through a letter of invitation. The letter explained the project objectives and scope. With the letter two Excel forms for references and georeferenced data were sent.

In the case of AMCP, an official requirement of the shape files and update information on MCPA was made through Southeast Pacific Action Plan national focal points.

3. Standardization of information

Once the information was received, it was preceded with the standardization and validation of data using the instruction set of standards for marine data from the International Oceanographic Commission (IOC). ISO standards and reference data management and Biological Oceanography were also used. As a major aspect of the standardization process, data on temporal and spatial variables were included in the dataset according to the international standards ISO 8601 and ISO 6709 as follows:

VARIABLES	STANDARD FORMAT
Date	YYYY-MM-DD = (e.g. 2008-01-16)
Hour	HH:MM:SS, where: HH = two digits for hour (between 00 and 23) MM = two digits for minutes (between 00 and 59) SS = two digits for seconds (between 00 and 59)
Latitude and longitude	Standard ISO 6709: Data on latitude and longitude are expressed as: ±DD.DDDD,
Biological information	Taxonomic Serial Number (TSN). www.itis.gov , http://data.gbif.org/

In the case of cetaceans, the tool counts with a list of 386 bibliographic references, 1,956 sightings and 165 standings (georeferenced), data that can be accessed according to different criteria (species, topic, type of document).

In the case of marine turtles, the tool includes 25 bibliographic references, and 11 data on nesting sites and 10 data on feeding sites.

4. Elaboration of fact sheets

Simultaneously fact sheets with biological and ecological information for every species of cetaceans and sea turtles were prepared.

The fact sheets are accompanied in most cases of pictures of each species. In the case of cetaceans, the Center for Cetacean Conservation in Chile gave us permission to use drawings of cetacean they printed in a field guide. We are requesting other cetacean draws from other institutions to complete the list of species. In the case of sea turtles we used free access photographs from the Wikimedia Commons.

5. Logo

A logo for the Project was elaborated by a student of ESPOL

6. Design and development web application

For the web application open source technologies integrating Google Maps/Earth, JOOMLA and dynamic programming languages (AJAX, PHP) were used. This open-source oriented initiative is consistent with other oceanographic and climate information systems.

Currently, the module on cetaceans has been completed. The modules on marine turtles and MCPA are partly complete. It is expected that these modules are full developed in late November.

7. Design and development web site

The design has been elaborated simultaneously with the application and is almost ready. The domain sibimap.net was purchased for the project in order to have its own identity on the Web. By now, however, the tool is available within the CPPS website at the address

www.cpps-int.org/sibimap CPPS. When the tool is full operational, the information will be uploaded to its own site.

The following table shows the phases that have been achieved in developing the tool.

	May	Jun	Jul	Aug	Sep	Oct
Design of formats and request information						
Data and bibliographic inventory, compilation and standardization of data						
Design and development web application						
Design and development web site						
Progress report						

III. Difficulties and Problems encountered and measures taken, any changes in implementation.

1. Most research groups who were contacted did not reply requested information. It is necessary a more intense outreach work to convince them to provide the information. That is why in this first step emphasis has been placed on developing the tool in order to initiate the diffusion through demonstrative presentations, and has been left for a second stage the incorporation of new information into the system.
2. Most data provided by the research groups were in formats not compatible with the tool, therefore the digitalization process was longer than expected.
3. There were problems with the use of certain Spanish language characters such as accents and the letter “ñ”. This problem should be turned out later.
4. The data provided on protected areas are not homogeneous, this requires an agreed standard to transform all data into a common format to be managed and presented in the web interface properly. We still continue requesting information from the institutions responsible for the MCPA to provide us with the shape files.

IV. Project Results achieved during the reporting period

See Section II above for details.

V. Lessons learned and Sustainability

See Section III above for details on lessons learnt

VI. Evaluation recommendations when applicable

Evaluation recommendations will be made once all project components have been finalized.

VII. Visibility: describe any visibility action implemented during the reporting period

Dissemination through the CPPS networks www.cpps-int.org/sibimap

VIII. Work plan for the following period (please complete the attached table and when applicable add an eventual budget revision)

A second phase of the SEPIS project would allow strengthening CPPS infrastructure to guarantee the operability of the on-line tool.

Specific objectives:

1. Develop a new module on sharks under the framework of the Regional Plan of Action on sharks.
2. Continue the diffusion of the tool.
3. Upload the site with relevant information.
4. Provide the necessary hardware for a safe and continuous operation.

Activities	Month					
	1	2	3	4	5	6
Purchase and installation of hardware						
Design format for voluntary submitting of information by shark experts						
Conduct inventory (3)						
Design and develop of web application						
Test and validate (by end-users)						
Final report						

Budget:

ITEM	COST US \$
Design and development module on sharks	2,500.00
Up-date the site	1,500.00
Domain and hosting	200.00
Hardware (server: quad core AMD 2.6 GHz, memory 2GB DDR2, hard disk 160GB)	2,500.00
Diffusion	2,700.00
Administrative costs	600.00
TOTAL US \$	10,000.00

IX. Annexes (publications , reports and other project outputs, when applicable)

- CPPS SEPIS Progress Report

PROJECT:

**INFORMATION SYSTEMS IN SUPPORT OF THE ACTION PLAN FOR
MARINE CONSERVATION IN THE SOUTHEAST PACIFIC - SEPIS**



PROGRESS REPORT TO:

INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (IOC)

PREPARED BY:

**REGIONAL COORDINATION OFFICE
ACTION PLAN FOR THE PROTECTION OF THE MARINE ENVIRONMENT
AND COASTAL AREAS OF THE SOUTHEAST PACIFIC
PERMANENT COMMISSION FOR THE SOUTH PACIFIC (CPPS)**

(November 2009)

I. INTRODUCCION

In 1981, the Parties to the Lima Convention (Chile, Colombia, Ecuador, Panama and Peru), adopted the Action Plan for the Protection of the Marine Environment and Coastal Areas of the Southeast Pacific. In the framework of the Plan of Action several instruments have been developed regarding marine biodiversity including the Action Plan for the Conservation of Marine Mammals in the Southeast Pacific (1991), the Regional Network on Coastal and Marine Protected Areas (1991) and the Regional Program for the Conservation of Sea Turtles in the Southeast Pacific (2007).

Although these Programmes and Action Plans are the backbone of the regional policy in marine conservation in the Southeast Pacific, they are not supported by data-bases and information system.

In April 2009, the Intergovernmental Oceanographic Commission (IOC) and the permanent Commission for the South Pacific signed the Contract No. 4500062048, UNESCO form 205^a to develop an integrated information system in support of research and management in priority marine species and habitats in the Southeast Pacific (SEPIS), in the context of the Southeast Pacific Plan of Action.

The specific objectives of this project include:

1. Design, develop and operate an on-line information tool for searching, consulting and downloading information (publications, experts, contact information, geo-referenced spatial data on distribution, others) crucial to management and conservation of cetaceans
2. Provide an infrastructure for linking oceanographic, biological and other spatially distributed environmental parameters to the observation and abundance data on marine mammal species
3. Provide a vehicle for regional co-operation in support of management and conservation of marine mammals, as a follow-up to the recommendations of national, regional and international action plans, in particular the CPPS Action Plan for the Southeast Pacific, CMS, IUCN.

This report describes the activities carried out during the first part of this project including administrative and technical topics.

II. ACTIVITIES

The following activities have been carried out to accomplish Project objectives:

2.1. Personnel recruiting.

The University "Escuela Politécnica del Litoral (ESPOL)" was involved in this project as CPPS and SPOL maintains a cooperation agreement. A group of six students, four marine biology and two computing, were selected to work under

supervision of Dr. Paola Almeida. For this purpose a contract was drafted in which the responsibilities assumed by the ESPOL team were defined, including the development of fact sheets, databases in the required format and the software. The total contract cost was \$ 5,900 (see Annex 1).

The Project was coordinated by Fernando Félix, regional coordinator of the Southeast Pacific Action Plan. Other technicians from CPPS included Magali Valencia and Andrés Macías.

2.2. Project implementation

The tool includes three modules: cetaceans, marine turtles and marine and coastal protected areas. The activities carried out are described next.

1. Design of formats

Several types of formats were developed in the first stage, including the following:

- General information. Designed to include biological and ecological information for each species of cetaceans (n = 44), turtles (n = 5) recorded in the region, as well as general aspects of coastal and marine protected areas (n = 89) such as extension, legal status, species/ecosystems target, among others (Annex 2).
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In the case of AMCP, an official requirement of the shape files and update information on MCPA was made through Southeast Pacific Action Plan national focal points.

3. standardization of information

Once the information was received, it was proceeded with the standardization and validation of data using the instruction set of standards for marine data from

DIMAR (Code: I-06-CECOLDA-01), which takes into account the standards of the International Oceanographic Data and Information Exchange (IODE) from the International Oceanographic Commission (IOC). ISO standards and reference data management and Biological Oceanography were also used. As a major aspect of the standardization process, data on temporal and spatial variables were included in the dataset according to the international standards ISO 8601 and ISO 6709 as follows:

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5. Logo

A logo for the Project was elaborated by a student of ESPOL (Annex 3).

6. Design and development web application

For the web application open source technologies integrating Google Maps/Earth, JOOMLA and dynamic programming languages (AJAX, PHP) were used. This open-source oriented initiative is consistent with other oceanographic and climate information systems.

Currently, the module on cetaceans has been completed. The modules on marine turtles and MCPA are partly complete. It is expected that these modules are full developed in late November.

7. Design and development web site

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The following table shows the phases that have been achieved in developing the tool.

	May	Jun	Jul	Aug	Sep	Oct
Design of formats and request information	■					
Data and bibliographic inventory, compilation and standardization of data	■	■	■	■	■	
Design and development web application		■	■		■	■
Design and development web site			■	■	■	■
Progress report				■	■	■

III. CHALLENGES AND OBSTACLES

1. Most research groups who were contacted did not reply requested information. It is necessary a more intense outreach work to convince them to provide the information. That is why in this first step emphasis has been placed on developing the tool in order to initiate the diffusion through demonstrative presentations, and has been left for a second stage the incorporation of new information into the system.
2. Most data provided by the research groups were in formats not compatible with the tool, therefore the digitalization process was longer than expected.

3. There were problems with the use of certain Spanish language characters such as accents and the letter “ñ”. This problem should be turned out later.
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IV. NEXT STEPS

1. Complete the development of the tool
2. Dissemination through workshops and seminars on the topics covered in SEPIS, with online demonstrations and requesting information.
3. Prepare of a brochure.
4. Prepare proposal for a new phase of the project.
5. Exchange of information and / or integration with other international databases (eg SEAMAP Obis, SWOT).
6. Develop new modules according to the interests of the region (eg sharks, invasive species, etc.).

ANNEX 1 CONTRAT CPPS/ESPOL

En la ciudad de Guayaquil, a los 25 días del mes de mayo de 2009, comparecen por una parte el **Sr. Gonzalo Pereira Puchy**, Secretario General de la Comisión Permanente del Pacífico Sur (CPPS), en su calidad de Secretario Ejecutivo del Plan de Acción del Pacífico Sudeste, a quien en adelante se denominará “**CONTRATANTE**”; y a la **Dra. Paola Almeida**, con **C.I. 0908785702**, a quien se denominará “**CONSULTOR COORDINADOR**”, quienes por sus propios derechos convienen en celebrar el siguiente contrato de prestación de servicios profesionales, bajo el tenor de las siguientes cláusulas:

CLAUSULA PRIMERA: ANTECEDENTES

La Comisión Permanente del Pacífico Sur (CPPS), Secretaría Ejecutiva del Plan de Acción para la Protección del Medio Marino y Áreas Costeras del Pacífico Sudeste, sometió el Proyecto: “*Sistema de Información Integrado al Plan de Acción de Conservación Marina en el Pacífico Sudeste*”, al Programa de Manejo Integrado de Zonas Costeras (IOC-ICAM), resultando aprobado, y programando el inicio de las actividades el 15 de mayo de 2009.

Para la ejecución del proyecto y desarrollo de actividades, es necesario contratar un consultor local, de acuerdo con los términos de referencia elaborados para este propósito, y que se adjuntan a este contrato como Anexo 1. El consultor actuará como **Coordinador General del Proyecto** y seleccionará al personal que trabajará en el proyecto.

El consultor responderá al coordinador del Plan de Acción para la Protección del Medio Marino y Áreas Costeras del Pacífico Sudeste (CPPS).

CLAUSULA SEGUNDA: OBJETO

CPPS contratará al “CONSULTOR COORDINADOR” para coordinar actividades (*) y trabajos necesarios para la implementación del proyecto.

1. Dirigir y coordinar con el personal responsable de CPPS y consultores del proyecto, las actividades inherentes al mismo, así como el cumplimiento del cronograma, objetivos y generación oportuna del producto de la iniciativa regional.
2. Orientar al equipo de consultores a cargo del diseño de productos de información y la metodología.
3. Identificar eventuales problemas que puedan presentarse en la realización del Proyecto y recomendar soluciones y alternativas para superarlos.
4. Mantener el flujo de información entre todos los miembros del equipo del proyecto y CPPS, durante la ejecución del proyecto.

(*) Las actividades citadas se encuentran detalladas en términos de referencia del proyecto. (Anexo 1).

CLAUSULA TERCERA: INFORMES DE CONSULTORIAS

Como resultado de las actividades en la Cláusula Segunda, el “CONSULTOR COORDINADOR” deberá preparar y presentar los siguientes informes:

- a. Informes parciales: remitidos a CPPS en relación al cumplimiento de los objetivos del plan de operaciones del proyecto, en los plazos establecidos y, de conformidad con lo acordado con los responsables del proyecto.
- b. Informe Final: remitido a CPPS en relación al cumplimiento total de los objetivos y actividades del proyecto de acuerdo al cronograma y, de conformidad con lo acordado con los responsables del Proyecto.

CLAUSULA CUARTA: DURACIÓN

La consultoría será ejecutada en 06 meses contados desde la firma del presente contrato. Treinta días después de esta fecha, el “CONSULTOR COORDINADOR” entregará un informe de final con los resultados, conclusiones, recomendaciones, y productos respectivos al “CONTRATANTE”.

CLAUSULA QUINTA: PRESUPUESTO Y MONTO

El monto total designado para la Consultoría de Coordinación del proyecto es de US \$5,400.00 (cinco mil cuatrocientos dólares).

ACTIVIDADES	PERSONAL Coordinador + 2 Asistentes	DURACION	PERSONAL* DURACIÓN
Recopilación de información	\$ 900,00	4 meses	\$ 3.600,00
Desarrollo del Software	\$ 900,00	2 meses	\$ 1.800,00
PRESUPUESTO TOTAL			\$ 5.400,00

CLAUSULA SEXTA: HONORARIOS DEL CONSULTOR Y ASISTENTES

El monto total (US \$ 5.400,00) será cancelado en 12 pagos quincenales de US \$ 450,00 (cuatrocientos cincuenta dólares, que incluirá valores correspondientes a impuestos de ley establecidos por el Estado para contratación por consultoría.

CLAUSULA SEPTIMA: PLAZO

El plazo para ejecución del presente contrato es de 06 meses a partir de la fecha de suscripción. “EL CONTRATANTE” podrá dar por terminado el presente contrato por incumplimiento de “EL CONSULTOR COORDINADOR” por deficiencias detectadas en el trabajo, por razones de fuerza mayor, o por decisión de las partes, comunicado con 15 días de anticipación.

CLAUSULA OCTAVA: EXCLUSION DE BENEFICIOS

No existiendo relación de dependencia y dada la naturaleza del presente contrato el “CONTRATANTE” no asume ninguna obligación laboral con relación al “CONSULTOR COORDINADOR”. En consecuencia, no tendrá derecho a ningún beneficio económico, ni el pago correspondiente a horas suplementarias y extraordinarias, ni pago de aportes a alguna institución de seguridad social, ni cualquier retribución correspondiente a una vinculación de naturaleza laboral.

CLAUSULA NOVENA: DERECHOS DE AUTOR

Los derechos de autor de propiedad intelectual y todos los derechos de cualquier naturaleza producidos en el marco de este contrato, serán entregados a la CPPS.

CLAUSULA DECIMA: CORRESPONDENCIA

Toda correspondencia relacionada con este contrato deberá efectuarse con copia a las siguientes personas:

CPPS

Fernando Félix/ Gonzalo Pereira Puchy

Secretario Ejecutivo del Plan de Acción del Pacífico Sudeste

Av. Carlos Julio Arosemena Km. 3, Ed. Classic 2do piso.

Guayaquil, Ecuador

Telf 593-4-2221202. Fax 593-4-2221201

gpereira@cpps-int.org

cpps_pse@cpps-int.org

Magaly Valencia

Asistente del Plan de Acción del Pacífico Sudeste

Av. Carlos Julio Arosemena Km. 3, Ed. Classic 2do piso.

Guayaquil, Ecuador

Telf. 593-4-2221202 – Ext.: 115. Fax 593-4-2221201

mvalencia@cpps-int.org

CONSULTOR COORDINADOR

Dra. Paola Almeida

Centro Nacional de Recursos Costeros (CENAREC) –ESPOL

Campus Gustavo Galindo V., Vía Perimetral Km. 30,5

Guayaquil, Ecuador.

Telf: 593-4-2269470/2269464

palmeida@espol.edu.ec

CLAUSULA DÉCIMA PRIMERA: SOLUCIÓN DE CONTROVERSIAS

En caso de desavenencias, las partes resolverán de buena fe cualquier diferencia que pudiera derivarse del presente contrato.

CLAUSULA DÉCIMA SEGUNDA: ACEPTACIÓN

En constancia de su aceptación y conformidad, las partes ratifican todas y cada una de las cláusulas que anteceden, sin reserva de ninguna clase, por así convenir a sus intereses, para constancia de lo cual firman el presente contrato por duplicado.

Por la CPPS,

Por el CONSULTOR COORDINADOR,

GONZALO PEREIRA PUCHY

Secretario Ejecutivo del
Plan de Acción del Pacífico Sudeste

Fecha: _____

PAOLA ALMEIDA

Centro Nacional de Recursos Costeros
(CENAREC) –ESPOL

Fecha: _____

ADENDUM AL CONTRATO DE SERVICIOS PRESTADOS

Proyecto: **“Sistema de Información Integrado al Plan de Acción de Conservación Marina en el Pacífico Sudeste”**

Entre el

Sr. Gonzalo Pereira Puchy, Secretario General de la Comisión Permanente del Pacífico Sur (CPPS), en su calidad de Secretario Ejecutivo del Plan de Acción del Pacífico Sudeste (denominado “CONTRATANTE”)

Y la

Dra. Paola Almeida (denominada “CONSULTOR COORDINADOR”)

Este adendum indica:

1. Cambio en la **Cláusula Quinta: Presupuesto y monto:**

El monto total designado para la Consultoría de Coordinación del proyecto será **de US \$5.900,00 (cinco mil novecientos dólares)**.

ACTIVIDADES	PERSONAL Coordinador + 2 Asistentes	DURACION	PERSONAL*DURACIÓN
Recopilación de información	\$ 900,00	4 meses	\$ 3.600,00
*Desarrollo del Software	\$ 1.100,00	2 meses	\$ 2.200,00
*Elaboración de logo	\$ 100,00	1 mes	\$ 100,00
PRESUPUESTO TOTAL			\$ 5.900,00

2. Cambio en la **Cláusula Sexta: Honorarios del Consultor y Asistentes**

El monto de US \$ 5.400,00 será cancelado en 12 pagos quincenales de US \$ 450,00 (cuatrocientos cincuenta dólares), y el monto de US \$ 500,00 (quinientos dólares) será cancelado una vez se desarrolle, presente y apruebe el Software, así como el logo oficial del proyecto, éste valor incluirá valores correspondientes a impuestos de ley establecidos por el Estado para contratación por consultoría.

En constancia de aceptación y conformidad, sin reserva de ninguna clase, por así convenir a sus intereses, las partes ratifican todos y cada uno de los cambios anteriores, además de las cláusulas que originalmente se convinieron en el contrato firmado el 25 de mayo de 2009, para constancia de lo cual firman el presente adendum por duplicado.

Por la CPPS,

Por el CONSULTOR COORDINADOR,

GONZALO PEREIRA PUCHY

Secretario Ejecutivo del
Plan de Acción del Pacífico Sudeste

Fecha: _____

PAOLA ALMEIDA

Centro Nacional de Recursos Costeros
(CENAREC) –ESPOL

Fecha: _____

Avistamientos							
Puntos	Especie	Fecha	Nº animales	Longitud	Latitud	Comentarios	Fuente
1							
2							
3							
4							
5							

TEMAS

No.	Referencia	Especies	Ecología	Biología	Comportamiento	Parametros poblacionales	Interaccion pesquerías	Captura dirigida	Colisiones	Varamiento	Enfermedades	Educación/ Conservación
1	Félix, F. & J. Samaniego. 1994. Incidental catches of small cetaceans in the artisanal fisheries of Ecuador. <i>Rep. Int. Whal. Commn.</i> (Special Issue 15). Pp 475-480.	<i>Delphinus delphis</i> , <i>Stenalla attenuata</i> , <i>Kogia sima</i> , <i>Globicephala macrorhynchus</i>		x			x					

TORTUGAS MARINAS	
Nombre científico	
Nombre común	
Status de conservación	
Longitud promedio (m)	
Peso promedio (kg)	
Población estimada	
Zonas de alimentación (lat., long.)	
Zonas de anidación (lat, long)	
Amenazas principales	
Ruta de migración (telemetría, Marcación o recaptura, coordenadas)	

5	Zona de Alimentación							
Puntos	Especie	Lugar/país	Fecha	Longitud	Latitud	Nº animales	Observaciones	Fuente
1								
2								
3								
4								

		Zona de Anidación						
Puntos	Especie	Lugar/país	Fecha	Longitud	Latitud	Nº nidos	Observaciones	Fuente
1								
2								
3								
4								
5								

No	Referencia	Especies	Ecología	Biología	Comportamiento	Parámetros poblacionales	Interacción pesquerías	Captura dirigida	Colisiones	Varamiento	Enfermedades	Educación/Conservación
1	Sánchez, F. A. y Quiroga D. D. 2001. Determinación de hábitos y comportamiento alimenticio de la tortuga marina negra del Pacífico (Chelonia mydas agassizii) en el Parque Nacional Natural Gorgona, Pacífico Colombiano. Tesis de grado para optar al título de Ecólogo, Facultad de Ciencias Naturales, Fundación Universitaria de Popayán, Popayán.	<i>Chelonia mydas agassizii</i>	x	x	x							

ÁREAS PROTEGIDAS	
País	
Nombre	
Ubicación geográfica	
Superficie (ha)	
Fecha declaración	
Estatus legal	
Principales ecosistemas	
Especies más representativas	
Ubicación sitios de interés	
Contacto/responsables	

**ANNEX 3
OFFICIAL LOGO**



ANNEX 4

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