

# Brazil. Progress report on cetacean research, March 2007 to February 2008, with statistical data for the *calendar year* 2007.

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## 1. Species and stocks studied

A tabular format is most appropriate. Please indicate where in the report the species is mentioned and use IWC recommended names (see IWC, 2006, Annex L). For subsequent items, common names are preferred. e.g.:

IWC common name	IWC recommended scientific name	Area/stock(s)	Items referred to
Bottlenose dolphin	<i>Tursiops truncatus</i>	SP, PR, RS, SC, ES, BA, RJ; RN (São Pedro and São Paulo Archipelago),	2.1.1; 2.1.2; 2.2; 3.1; 3.1.1; 3.2; 4.1; 4.3; 4.4; 5; 6.3.2; 7.3.3; 8; 9
Franciscana	<i>Pontoporia blainvillei</i>	SP, PN, SC, RJ, ES, RS	2.1.1; 2.1.2; 2.2; 3.1.2; 4.2; 4.3; 4.4; 5; 7.3; 7.3.2; 7.3.3; 8
Minke whale	<i>Balaenoptera acutorostrata</i>	SP, SC, ES, BA, PA (Tapajós River)	2.1.2; 2.2; 4.3; 8
Humpback whale	<i>Megaptera novaeangliae</i>	BA, SP, Breeding stock A, Antarctic peninsula (AI, AII), FN	2.1.1; 2.1.2; 2.2; 3.1.1; 4.1; 4.3; 5; 6.2, 8
Southern right whale	<i>Eubalaena australis</i>	SP, PR, BA, RJ, RS, SC	2.1.1; 2.1, 2.1.2, 2.2; 3.1.1; 3.2; 4.1; 4.3; 6.2; 6.3; 8; 9

Marine tucuxi dolphin *	<i>Sotalia guianensis</i>	AP, SP, PN, RJ, SC, CE, SE, BA, ES, RN	2.1; 2.1.1; 2.1.2; 2.2; 3.1;3.1.1; 3.1.3, 3.2, 4.1; 4.1.3; 4.2; 4.3; 4.4; 5; 6.2; 6.2.1; 7.3; 7.3.1;
Rough-toothed-dolphin	<i>Steno bredanensis</i>	SP, BA, ES, RJ	2.1.1; 2.2; 2.1.2; 4.1; 4.3; 5; 8
Atlantic spotted dolphin	<i>Stenella frontalis</i>	RJ, SP	2.1.2; 4.3; 5; 8
Pantropical spotted dolphin	<i>Stenella attenuata</i>	RJ, FN	2.1.2; 2.2; 7.4; 4.3; 5; 9
Spotted dolphin	<i>Stenella sp</i>	SP, RN	4.1.3; 6.2.1; 8
Fraser dolphin	<i>Lagenodelphis hosei</i>	RJ	4.3; 5; 8
Dwarf sperm whale	<i>Kogia sima</i>	SP, RJ, BA, SE	4.3; 5; 8
Common dolphin	<i>Delphinus sp.</i>	RJ	5
Amazon dolphin	<i>Inia geoffrensis</i>	AM	7.3.2; 8
Tucuxi dolphin	<i>Sotalia fluviatilis</i>	AM	7.3.2
Spotted dolphin	<i>Stenella sp</i>	SC	8
Common dolphin	<i>Delphinus sp</i>	SC	8
Bryde's whale	<i>Balaenoptera edeni</i>	SP	2.1; 2.1.2, 4.3; 7.1; 8.
Minke whale	<i>Balaenoptera bonaerensi</i>	PR	
Sperm whale	<i>Physeter macrocephalus</i>	SP, PR, CE, BA	7.1, 8
Killer whale	<i>Orcinus orca</i>	SP	
Pygmy sperm whale	<i>Kogia breviceps</i>	CE	2.1.2; 3.1.1
Clymene's dolphin	<i>Stenella clymene</i>	BA, SE	4.3; 5; 7.3; 8
Long-finned pilot whale	<i>Globicephala melas</i>	RS	4.3; 8
Short-finned-pilot-whale	<i>Globicephala macrorhynchus</i>	BA, FN	4.3; 7.4; 8
Spinner dolphin	<i>Stenella longirostris</i>	FN	2.1.1., 2.2., 2.3., 3.1.1., 3.2., 4.3., 4.4., 7.1., 7.3, 7.4; 8.
Melon-headed Whale	<i>Peponocephala electra</i>	FN	7.4.
Cuvier's Beaked Whale	<i>Ziphius cavirostris</i>	FN	7.4.

Legend for states: AM – Amazonas, AP – Amapá, BA – Bahia, CE – Ceará, ES – Espírito Santo, FN –Fernando de Noronha Archipelago (Pernambuco State), PA – Pará, PR – Paraná, SC – Santa Catarina, SP – São Paulo, RJ – Rio de Janeiro, RN – Rio Grande do Norte, RS – Rio Grande do Sul.

- The common name marine tucuxi dolphin was adopted for *S. guianensis* pending final decision by the Scientific Committee

## 2. SIGHTINGS DATA

### 2.1 Field work

#### 2.1.1 Systematic

(R1) – Systematic surveys are being conducted in the estuary of the Itajaí River (Santa Catarina state, 26°55'S 48°40'W), which is the entrance to one of the most important harbours of southern Brazil. Research topics in the area are related to the occurrence of bottlenose dolphins, *Tursiops truncatus*, in the area and understand the impact of boat traffic and environmental factors on their activities. Photo-id studies are underway, and a catalogue of dorsal fins is under development. Animals are usually observed during the whole year in the area.

Target species	Date	Area	No. of sightings	Contact person/institute and references
Bottlenose dolphin	01-12/2007	Itajaí River estuary	continuous	André S. Barreto/ CTTMar-UNIVALI

**(R2)** – Systematic surveys are conducted for determining habitat use patterns and abundance of common bottlenose dolphins in the Patos Lagoon estuary, southern Brazil.

**(R3)** – Marine tucuxi

During an effort of more than 207 hours with 13,7 hours of direct observation, and 32 one-day surveys, marine tucuxi dolphins were monitored by boat cruises in 2007/2008, when 30 groups of dolphins were sighted, including calves. This research project, which began in 2002, aims to study the population dynamics (through photo-identification technique), ecology and behavior of the species in the southern coast of the Bahia State, northeastern Brazil. (Contact person: Leonardo L. Wedekin, IBJ).

**(R3)** – Humpback Whale

Population dynamics, ecology and behavior through different techniques (photo-identification, biopsy sampling, bioacoustics) of humpback whales have been carried out from on board surveys in Bahia and Espírito Santo States, northeastern Brazil, from 12°20'S to 20°18'S, including the Abrolhos Bank. In Abrolhos Bank from July to October, 686 humpback whales, including 102 calves, were detected during 1,905 nautical miles of boat surveys (345 hours of effort). In northern coast of Bahia 58 humpback whales were sighted, including 7 calves during 51,5 hours of boat surveys and 406 whales were sighted during whale watching trips. (Contact persons: Clarêncio Baracho & Milton Marcondes IBJ).

**(R4)** – see table below

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs
Humpback whale	5-30 Sep 07	Coasts of Espírito Santo and Bahia	Satellite telemetry	Distribution and Movements	IA

**(R6)** – see table below

Target species	Date	Area	No. of sightings	Contact person/institute and references
Marine tucuxi dolphin	Winter 2007, Summer 2008	Lagamar estuary	260 groups	Marcos Santos (sotalia@gmail.com)

**(R7)** – see table below

Target species	Date	Area	No. of sightings	Contact person/institute and references
Marine tucuxi	2007-2008	Rio de Janeiro state	N	MAQUA-UERJ

**(R7)** – see table below

Target species	Date	Area	No. of sightings	Contact person/institute and references
Bottlenose Dolphin	06.03.07	Laguna, SC	N	lamaqsl@ccb.ufsc.br
Humpback whale	06-11.07	Abrolhos, BA	N	lamaqsl@ccb.ufsc.br
Franciscana	06.03.07	Bay of Babitonga, SC	N	lamaqsl@ccb.ufsc.br
Marine Tucuxi	06.03.07	Bay of Babitonga, SC	N	lamaqsl@ccb.ufsc.br

**(R11)** – see table below

Target species	Date	Area	No. of sightings	Contact person/institute and references
Estuarine dolphin	January-December/07	Babitonga bay	Resident population	M. Cremer/UNIVILLE

Franciscana dolphin	January-December/07	Babitonga bay	Resident population	M. Cremer/UNIVILLE
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**(R12)** – After five years of opportunistic surveys in Laje de Santos Marine State Park (24°19'S; 046°10'W), which have provided evidences of the use of Marine Protected Areas (MPAs) as feeding grounds for Bryde's whales (Augustowski & Gonçalves 2003; Gonçalves *et al.* 2003, 2005a; Gonçalves 2006), a systematic field work was held during 2007-2008 using tourism boats, now mainly focused the MPAs of the north coast of S.Paulo State (24°50' to 23°22'S – 45° to 46°W), aiming to enhance knowledge about Bryde's whales occurrence in this region. Surveys were conducted in the marine areas surrounding the Ilha Bela State Park (24° 01' S; 45° 01' W) – mainly around the islands Ilhabela, Vitoria and Búzios - Ilha Anchieta State Park (23° 32' S; 45° 05' W), Tupinambás Ecological Station (Palmas Island – 23°32'30"S – 45°02'W) and in the buffer zone of Serra do Mar State Park/Picinguaba at Couves Island (23° 25' S; 44° 51' W) and Rapada Island (23° 25' S; 44° 54' W). Twelve individuals were recorded from October/2007 to February/2008. Sighting efforts totalized 223 hours along 1190 nautical miles, during 43 days of field trips. This data include one opportunistic sighting of 2 individuals (mother and calf) from the coastline, which is the first near shore sighting recorded along the coast of S.Paulo State (1km from the shore at Paúba, S.Sebastião).

Target Species	Date	Area	Nº of sightings	Contact Person/Instituit and references
Bryde's Whale	16/11/2007	Victoria Island	2	Bruno B. Pitarello - Bryde's Whale Project/CEMAR
Bryde's Whale	17/11/2007	Victoria Island	2	Bruno B. Pitarello - Bryde's Whale Project/CEMAR
Bryde's Whale	7/12/2007	between Barra do Una and Ilhabela	3	Gabriella B. Mello/Julio Cardoso - Bryde's Whale Project/CEMAR
Bryde's Whale	16/12/2007	Canto da Sereia - Victoria Island	1	Diogo Souza - Bryde's Whale Project/CEMAR
Bryde's Whale	30/12/2007	Ponta do Boi, Ilhabela	3	Gabriella B. Mello/Julio Cardoso - Bryde's Whale Project/CEMAR
Bryde's Whale	4/1/2008	Ponta do Boi, Ilha Bela	1	Gabriella Mello/Julio Cardoso - Bryde's Whale Project/CEMAR
Bryde's Whale	5/1/2008	between Barra do Una and Ilhabela	1	Gabriella Mello/Julio Cardoso - Bryde's Whale Project/CEMAR
Bryde's Whale	8/1/2008	Paúba, S. Sebastião	2	Mabel Augustowski/André Motta - Bryde's Whale Project/CEMAR
Bryde's Whale	20/2/2008	Ilhabela	1	Bruno Pitarello/Leonardo Sales- Bryde's Whale Project/CEMAR

**(R13) – Marine Tucuxi Project (*Sotalia guianensis*)** – Photo and video-identification, behaviour, bioacoustic, age identification, reproductive biology, feeding ecology, population density, etnobiology and systematic studies of estuarine dolphin have being conducted on a regular basis from a land and boat based sightings in the estuary complex of Iguape – Paranaguá and Ubatuba (São Paulo, southeastern Brazil) and in Guaraqueçaba, Paranaguá bay and Guaratuba bay (Paraná, southern Brazil). (Contact Persons: Emygdio L..A Monteiro Filho & Gislaïne Filla, IPeC).

**Franciscana Project (*Pontoporia blainvillei*)** - Age identification, reproductive biology, feeding ecology and systematic studies of franciscana have being conducted on a regular basis from the accompaniment of stranded animals in the adjacent coast areas in south of São Paulo State (southeastern Brazil) and north of Paraná State (southern Brazil). (Contact Persons: Emygdio L..A Monteiro Filho & Gislaïne Filla, IPeC).

**The accompaniment of stranded cetaceans Project** – Through regular accompaniment of stranding animals and coastal sightings. In the region along the São Paulo state southern coast and in the estuary complex of Iguape-Cananéia-Ilha Comprida - southeastern Brazil and northern of Parana state – southern Brasil. The accompaniment promote the rescue and rehabilitation of injured animals and generate data that will be used for future proposes of conservation of the species. Studies of stranded cetaceans to determinate the cause of death, age identification, tissue and biological samples, contamination levels, anatomic studies and genetic analysis are being conducted through the material collected of the carcass of stranded cetaceans. These work is done during all the year with a constant monitoring for small animals and with more intensity during the whale's migration season (contact person: Ana Rita dos Santos-Lopes/IPeC).

Target species	Date	Area	No. of sightings	Contact person/institute and references
Southern right whale	12-16/08/07	São Paulo - South coast	8	A.R. Santos-Lopes/IPeC
Southern right whale	22/08/07	São Paulo - South coast	4	A.R. Santos-Lopes/IPeC
Southern right whale	09-14/09/07	São Paulo - South coast	5	A.R. Santos-Lopes/IPeC
Southern right whale	16/09/07	Parana - North coast	2	A.R. Santos-Lopes/IPeC
Humpback whale	12-16/08/07	São Paulo - South coast	1	A.R. Santos-Lopes/IPeC
Bryde whale	12-16/08/07	São Paulo - South coast	2	A.R. Santos-Lopes/IPeC
Bottlenose dolphin	12-16/08/07	São Paulo - South coast	3	A.R. Santos-Lopes/IPeC
Bottlenose dolphin	21/10/07	Parana - North coast	2	A.R. Santos-Lopes/IPeC
Estuarine dolphin	12-16/08/07	São Paulo - South coast	6	A.R. Santos-Lopes/IPeC
Estuarine dolphin	25/08/07	Parana - North coast	2	A.R. Santos-Lopes/IPeC
Rough-toothed dolphin	12-16/08/07	São Paulo - South coast	2	A.R. Santos-Lopes/IPeC
Killer whale		São Paulo - South coast	3	A.R. Santos-Lopes/IPeC

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**(R15)** – IMA has conducted regular systematic land-based sightings and also, monthly 12 day cruise in the estuary of Paraguaçu river (Todos os Santos Bay), Northeastern coast, to study behavioural ecology of *Sotalia guianensis* and photo-identification. The Instituto Mamíferos Aquáticos has been conducting a monitoring of marine tucuxi dolphin on Barra do Paraguaçu as compensatory measure because of the installation of a ducto gas Campo Manatí – PETROBRAS registering the occurs and behaviour alterations of the dolphins. The Instituto Mamíferos Aquáticos is conducting research with bioacoustic from the “botos” *Sotalia guianensis* in the estuary of Paraguaçu river (Todos os Santos Bay) to register possible behavior alterations from antropic noises (generated from boats or fishing with explosive), and natural noises (generated by biota or natural events). The Instituto Mamíferos Aquáticos has been conducting a systematic monitoring of the beach, mainly in locations around the north coast (Salvador to Sergipe State’s board), Todos os Santos Bay, Camamu Bay, Bahia southeast from Barra Grande to Olivença.

Target species	Date	Area	No. of sightings	Contact person/institute and references
<i>Sotalia guianensis</i>	03/07 - 01/08	Estuary of Paraguaçu river Northeastern Brazil	234	Maria do Socorro Reis/ IMA
<i>Tursiops truncatus</i>	03/07 til 03/07	Tainheiros bay Northeastern Brazil	03	Maria do Socorro Reis/ IMA
<i>Steno bredanensis</i>	03/07 til 03/07	Tainheiros bay Northeastern Brazil	03	Maria do Socorro Reis/ IMA
<i>Sotalia guianensis</i>	11/07 til 01/08	Sergipe river, Northeastern Brazil	28	A. Hubner/ IMA
<i>Sotalia guianensis</i>	11/07 til 01/08	Vaza-Barris river, Northeastern Brazil	09	A. Hubner/ IMA
<i>Sotalia guianensis</i>	03/07 til 11/07	Camamu Bay, Northeastern Brazil	103	A. Hubner/ IMA
<i>Megaptera novaeangliae</i>	03/07 til 11/07	Camamu Bay, Northeastern Brazil	56	A. Hubner/ IMA
Southern Right Whale	03/07 ´til 11/07	Camamu Bay, Northeastern Brazil	01	A. Hubner/ IMA

**(R18)** – Bioacoustics, genetics, photo-identification, feeding ecology and population parameters of offshore bottlenose dolphins’ population have been conducted on São Pedro and São Paulo Archipelago (00°55’N; 29°20’W), northeastern Brazil every year since 2006. (Contact person: Thales R. O. Freitas/UFRGS).

Target species	Date	Area	No. of sightings	Contact person/institute and references
Bottlenose dolphin	11/12/2007 – 09/01/2008	São Pedro and São Paulo Archipelago	n > 30 sightings of dolphin groups	Thales R. O. Freitas/UFRGS

**(R20)** – Behavioural ecology, population density, photo and video-identification, interactions with whalewatching boats, etnobiology, bioacoustic and biopsy sampling studies of spinner dolphin have being conducted on a regular basis from land (312 days - 3177 hours), in snorkelling and skin diving (25 days - 18 hours) and boat based sightings (30 days - 92 hours) in the Fernando de Noronha Archipelago (03°50’S, 32°25’W - Northeast Brazil). Systematic monitoring of stranded studies of cetaceans has being conducted in the Fernando de Noronha Archipelago. (Contact person: José Martins da Silva Júnior / Projeto Golfinho Rotador).

**(R22)** – See table below:

Target species	Date	Area	No. of sightings	Contact person/institute and references
<i>Sotalia guianensis</i>	from October 2006 to August 2007	Bahia (Estuary of Paraguaçu River)	30	Renata Lúcia Guedes Batista - UESC
<i>Sotalia guianensis</i>	from September 2007 to February 2008	Bahia (Ilhéus)	72	Flávia Bonfiatti Izidoro - UESC
<i>Sotalia guianensis</i>	from July 2007 to February 2008	Bahia (Ilhéus)	60	Carla Viviane de Assis - UESC

### 2.1.2 Opportunistic, platforms of opportunity

**(R1)** – Opportunistic sightings have been made by researchers and students in oceanographic cruises conducted by UNIVALI. Also, a large number of sightings were obtained from observers assigned to fishery vessels. The area covered by these sightings spans from 15° to 38°S and from 9° to 52°W.

Primary species	Area	Data type/method	Collected by	Platform	Contact person/institute and refs
All cetaceans	SW Atlantic	Sightings	crew	fishing vessels; research vessels (non-dedicated)	André S. Barreto/ CTTMar-UNIVALI

### **(R3) – Project 1**

During 2007 humpback whale survey in Abrolhos Bank (Bahia and Espírito Santo States) 03 groups of southern right whale, 7 groups of marine tucuxi dolphins, 06 groups of rough-toothed dolphins, 03 groups of Bottlenose dolphin and 07 groups of non-identified cetaceans were registered. The data were collected by Scientists of IBJ. (Contact person: Milton Marcondes, IBJ.).

Primary species	Area	Data type/method	Collected by	Platform	Contact person/institute and refs
Southern right whale	Abrolhos Bank	sightings	Researchers of IBJ	Humpback whale survey	Milton Marcondes, IBJ
Marine tucuxi	Abrolhos Bank	Photo-id; sightings	Researchers of IBJ	Humpback whale survey	Milton Marcondes, IBJ
Rough-Toothed dolphins	Abrolhos Bank	Photo-id; sightings	Researchers of IBJ	Humpback whale survey	Milton Marcondes, IBJ
Bottlenose Dolphin	Abrolhos Bank	Photo-id; sightings	Researchers of IBJ	Humpback whale survey	Milton Marcondes, IBJ

### **(R3) – Project 2**

Opportunistic sightings and photo-identification of estuarine dolphins have been made from boat surveys during the humpback whale surveys in northern Brazil. (Contact person: Clarêncio Baracho, IBJ.)

Primary species	Area	Data	Collected by	Platform	Contact person/institute and refs
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		type/method			
Marine tucuxi	Bahia State	Photo-id; sightings	Researchers of IBJ	Humpback whale survey	Clarêncio Baracho, IBJ

**(R3) – Project 3**

Opportunistic sightings and photo-identification of humpback whales have been made from whale watching boats in the Northern coast of Bahia State. During 112 cruises 406 humpback whales were sighted with 28 photo-identifications. (Contact person: Sergio Cipolotti, IBJ)

Primary species	Area	Data type/method	Collected by	Platform	Contact person/institute and refs
Humpback whale	Bahia State	Photo-id;	Researchers of IBJ	whalewatching vessel	Sergio Cipolotti, IBJ

**(R7) – see table below.**

Primary species	Area	Data type/method	Collected by	Platform	Contact person/institute and refs
Rough-toothed dolphin	Rio de Janeiro state	sightings	Team	Research boat	Lailson-Brito, A.Azevedo /MAQUA-UERJ
Atlantic spotted dolphin	Rio de Janeiro state	sightings	Team	Research boat	Lailson-Brito, A. Azevedo/MAQUA-UERJ

**(R11) – see table below.**

Primary species	Area	Data type/method	Collected by	Platform	Contact person/institute and refs
Bottlenose dolphin	Babitonga bay	sighting	scientists	Small research boat	M. Cremer/UNIVILLE
Franciscana	Santa Catarina state coast	sighting	students	Small boat	M. Cremer/UNIVILLE
Right whale	Santa Catarina State coast	sighting	students	Small boat	M. Cremer/UNIVILLE

**(R12) – Studies on occurrence, distribution and behaviour of Bryde’s whales keep being developed during cruises on the oceanographic vessel *Prof Wladimir Besnard* (Oceanographic Institute/São Paulo University-IOUSP). One 3-day cruise was held in spring/2007 along the 100m isobath by the coast of S.Paulo State/Brazil. During this cruise, no Bryde’s whales occurred. (Contact: Juliana Capellari and Mabel Augustowski – Bryde’s Whale Project-CEMAR/Brazil).**

**(R13) – Sightings of Southern right whale have been done through land observation and boat surveys. Humpback whales have also been sighted through boat survey in São Paulo (south coast). Sightings of Bryde whales, bottlenose dolphins, rough-toothed dolphins were recorded during cruises from south coast of São Paulo State to north coast of Parana. (Contact person: Ana Rita dos Santos-Lopes/IpeC).**

Primary species	Area	Data type/method	Collected by	Platform	Contact person/institute and refs
Bryde’s whale	São Paulo	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IpeC)
Southern right whale	São Paulo	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IpeC)
Southern right whale	Parana	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IpeC)
Humpback	São Paulo	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IpeC)

whale					
Bottlenose dolphin	São Paulo	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IPeC)
Bottlenose dolphin	Parana	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IPeC)
Estuarine dolphin	São Paulo	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IPeC)
Estuarine dolphin	Parana	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IPeC)
Rough-toothed dolphin	São Paulo	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IPeC)
Killer whale	São Paulo	Sightings	Scientists	Fishery vessel	A.R. Santos-Lopes (IPeC)

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(R14) – Sightings of marine tucuxi were recorded from land observation sites at Mucuripe Embayment, Fortaleza, Ceará.

Primary species	Area	Data type/method	Collected by	Platform	Contact person/institute and refs
Marine tucuxi	Ceará	sightings	crew	land	Ana Carolina Meirelles/Aquasis

(R20) – Opportunistic observations, photo and video-identification and interactions with whalewatching boats of pantropical spotted dolphin and humpback whales have been made on a regular basis from land and boat based sightings in the Fernando de Noronha Archipelago (03°50'S, 32°25'W -Northeast Brazil) .

(R23) - Opportunist land and boat based sightings of *P. blainvillei*, *S. guianensis*, *S. bredanensis* and *S. frontalis* were registered in São Paulo State (Ubatuba, Guarujá) (Contact person: Carolina Bertozzi, BioPesca).

## 2.2 Analyses/development of techniques

(R1) – SIMMAM (Portuguese for *System for Marine Mammals Monitoring*) has been fully implemented and is being used to visualize sighting data from different sources, and different research groups along the Brazilian coast. Its database is also being fed with information of sighting and stranding obtained from papers and scientific meetings. At the moment the database has approximately 2168 records of cetacean sightings and strandings, of which 1301 are public and 867 are private (one record may be related to more than one animal). Public data are those obtained from the scientific literature, and private are those of individual research account, that have not been published at the moment. Data from published sources is available to the public at <http://siaiacad09.univali.br/simmam/>.

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs
All cetaceans	01 – 12/2007	Brazilian coast and adjacent waters	Opportunistic sightings; research cruises.	Distribution	André S. Barreto/CTTMar-UNIVALI; Barreto <i>et al.</i> , 2006.

(R4) –

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs
Humpback whale	5-30 Sep 07	Coasts of Espírito Santo and Bahia	Satellite telemetry	Distribution and Movements	IA

(R6) –

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs
Marine tucuxi dolphin	Winter 2007, Summer 2008	Lagamar estuary – Southeastern Brazil	Photo-id	Use of area, abundance, group size and composition	Marcos Santos/Projeto Atlantis

**(R11) –**

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs
Marine tucuxi dolphin	January-December/08	Babitonga bay	Bioacoustic registration Pinger	Whistles analysis Effect of pinger on dolphins distribution	M. Cremer/UNIVILLE
Franciscana	January-December/08	Babitonga bay	Bioacoustic registration Pinger	Whistles analysis Effect of pinger on dolphins distribution	M. Cremer/UNIVILLE

**(R15) –**

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs
<i>Sotalia guianensis</i>	11/07 ´til 01/08	Estuary of Paraguaçu river Northeastern Brazil	Line transect survey	Distribution; sighting frequency, site fidelity	Maria do Socorro Reis/ Instituto Mamíferos Aquáticos
All cetaceans species	01/07 ´til 11/07	Camamu Bay, Northeastern Brazil	Line transect survey	Distribution; sighting frequency	A. Hubner/ Instituto Mamíferos Aquáticos
<i>Sotalia guianensis</i>	11/07 ´til 01/08	Sergipe river, Northeastern Brazil	Line transect survey	Distribution; sighting frequency	A. Hubner/ Instituto Mamíferos Aquáticos
<i>Sotalia guianensis</i>	11/07 ´til 01/08	Vaza-Barris river, Northeastern Brazil	Line transect survey	Distribution; sighting frequency	A. Hubner/ Instituto Mamíferos Aquáticos

**(R20) –** In this period, about five hundred spinner dolphins were identified based on dorsal fin shape and scars. On 99% days of period, spinner dolphins groups ranging from 5 to 1535 (mean= 386.68; SD±292.56; N=312) entered in the Dolphins Bay at National Marine Park Fernando de Noronha (J.M. Silva-Jr., unpublished) to rest, to reproduce, to take care of their babies or to look for protection from shark attacks (Silva-Jr. *et al*, 2005). During land base station (312 days - 3177 hours) and boat based sightings (30 days - 92 hours) in the Fernando de Noronha Archipelago, was sighted 25 humpback whale (5 mother and calf) and 15 pantropical spotted dolphin.

**(R21) –** Southern right whales have been surveyed from helicopter in a coastline of 400km from Santa Catarina Island (central coast of SC) to the northern coast of RS (Groch, 2005) and from shore in 16 observation stations covering about 100km of coastline in Santa Catarina State (Groch, 2005), and 15 km in the north of Rio Grande do Sul State. A total of 4303 whales including 1589 calves (includes double counting) and 1 juvenil were sighted during land-based surveys (Groch, unpublished). From five aerial surveys conducted from July to November (one per month), we had 110 sightings totalizing 326 individuals, of which 116 were calves and 1 was a juvenil (including double counting) (K.R. Groch and J.T. Palazzo Jr., unpublished). A total of 114 different individuals (including 54 calves) were counted in one day in September, the peak of the breeding season.

Target species	Date	Area	No. of sightings	Contact person/institute and references
Southern right whale	July – Nov2007 (land based)	Central SC and North RS	4303 whales including 1589 calves (land based)*	Karina R. Groch/IWC Brasil
	July - Nov 2007 (Aerial)	Central SC to North RS	326 whales including 116 calves and 1 juvenil (aerial)* (* all including double counting)	

**(R22) –** See table below:

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs
<i>Sotalia guianensis</i>	From October 2006 to August 2007	Bahia (Estuary of Paraguaçu River)	photo-identification / 146 hours	Occurrence, site fidelity, home range and association index	Renata Lúcia Guedes Batista - UESC

<i>Sotalia guianensis</i>	From July 2007 to February 2008	Bahia (Harbour of Ilhéus and Bay of Pontal)	photo-identification / 256 hours	Occurrence, site fidelity and association	Carla Viviane de Assis - UESC
<i>Sotalia guianensis</i>	From September 2007 to February 2008	Bahia (Harbour of Ilhéus)	Focal and scan sampling/ 320 hours	Play behaviour, group composition	Flavia Izidoro - UESC
<i>Sotalia guianensis</i>	From July 2007 to February 2008	Bahia (Harbour of Ilhéus)	Focal and scan sampling/ 215 hours	Feeding behaviour, group composition	Carla Viviane de Assis - UESC

Project 1 - Universidade Estadual de Santa Cruz in partnership with Instituto Mamíferos Aquáticos conducted a study on photo-identification, occurrence, site fidelity, home range and association index of estuarine dolphin in the Estuary of Paraguaçu River, Bahia State. (Contact person: Renata Lúcia Guedes Batista – Universidade Estadual de Santa Cruz, UESC).

Project 2 – Universidade Estadual de Santa Cruz is realizing the photo-identification of the population of estuarine dolphins in Ilhéus, in the Bay of Pontal and at the harbour (Contact person: Carla Viviane Assis - UESC).

Project 3 - Universidade Estadual de Santa Cruz is conducting an ethological study focusing on play behaviour and group composition of estuarine dolphins at the harbour of Ilhéus (Contact person: Flávia Izidoro - UESC).

Project 4 – Universidade Estadual de Santa Cruz is conducting an ethological study focusing on foraging behaviour of estuarine dolphins at the harbour of Ilhéus (Contact person: Carla Viviane Assis - UESC).

### 3. MARKING DATA

#### 3.1 Field work

##### 3.1.1 Natural marking data

Species	Feature	Area/stock	No. photo-id'd	Catalogue (Y/N)	Catalogue total	Contact person/institute; refs
Bottlenose dolphin	Dorsal fins	Itajaí River estuary	8	Y	8	André S. Barreto/ CTTMar-UNIVALI; Suenaga & Barreto, 2006
Bottlenose dolphin	Dorsal fins	Patos Lagoon estuary – southern Brazil	62	Y	66	LTMM-FURG
Bottlenose dolphin	Dorsal fins	Southern Brazil	3	Y	15	Ignacio Moreno & Paulo H. Ott GEMARS/CECLIMAR
Bottlenose dolphin	Dorsal fins	Laguna estuary – S. Western Atlantic	54	Y	270	F. Daura-Jorge
Bottlenose dolphin	Dorsal fins	Baía Norte, SC	-	Y	39	Paulo A.C. Flores – CMA, ICMBio
Bottlenose dolphin	Dorsal fins and flanks	São Pedro and São Paulo Archipelago (Northeast Brazil)	12	On going analyzis	n > 20; ongoing analyzis	Thales R. O. Freitas/UFRGS
Bottlenose dolphin	Dorsal fin and flanks	Fernando de Noronha Archipelago	2	Y	2	José Martins da Silva Júnior / Projeto Golfinho Rotador
Marine tucuxi dolphin	Dorsal fins	Baía Norte, SC	-	Y	~50	Paulo A.C. Flores – CMA, ICMBio
Marine tucuxi dolphin	Dorsal fin	South Atlantic Atlantic	39	Y	90	M. Cremer/UNIVILLE
Marine tucuxi dolphin	Dorsal fins	Lagamar estuary – Southeastern Brazil	209	Y	312	Marcos Santos/Projeto Atlantis
Marine tucuxi dolphin	Dorsal fins	Abrolhos Bank - State of Bahia	-	Y	58 (until April 2005)	Leonardo Wedekin/IBJ
Marine tucuxi	Dorsal fins	Guanabara Bay, RJ	28	Y	69	Lailson Brito, Alexandre

dolphin						Azevedo/MAQUA-UERJ
Marine tucuxi dolphin	Dorsal fin	Bahia (Estuary of Paraguaçu River)	30	Y	30	Renata Lúcia Guedes Batista - UESC
Marine tucuxi dolphin	Dorsal fin	Bahia (Harbour of Ilhéus)	21	Y	21	Carla Viviane Assis - UESC
Humpback whales	Flukes	Breeding stock A	318	Y	2955	Clarêncio Baracho/IBJ
Humpback whales	Flukes	Breeding stock A	04	Y	14	IA
Humpback whales	Dorsal fins	Breeding stock A	36	Y	57	IA
Humpback whale	Flukes	Fernando de Noronha Archipelago	1	Y	1	José Martins da Silva Júnior / Projeto Golfinho Rotador
Marine tucuxi dolphin	Dorsal fins	Estuary of Paraguaçu river Northeastern Brazil	39	Y	On going analysis	Maria do Socorro Reis/ Instituto Mamíferos Aquáticos
Marine tucuxi dolphin	Dorsal fins	Sergipe State, Northeastern Brazil	>15	Y	On going analysis	A. Hubner/ Instituto Mamíferos Aquáticos
Spinner dolphin	Dorsal fin and flanks	Fernando de Noronha Archipelago	32	Y	110	José Martins da Silva Júnior / Projeto Golfinho Rotador
Southern right whale	Head callosities and dorsal marks	Southern Brazil	~200 (include possible double IDs)	N	332 (up to yr 2003, fotos 2004-07 under analysis)	Karina R. Groch / IWC Brasil

### 3.1.2. Artificial marking data

**(R2)** – A marking-recovery program using external artificial tags are being used to estimate the fraction of franciscana incidentally killed in gillnets that end washed ashore.

### 3.1.3 Telemetry data

**(R4)** –

Species	Tag type	No. successfully deployed	Maximum time transmitting	Contact person/institute; refs
Humpback Whale	Satellite	13	51 days	A. Zerbini and A. Andriolo (IA)

## 3.2 Analyses/development of techniques

**(R2)** – Abundance, survival, reproductive rates and seasonality are being estimated using photo-id of naturally marked bottlenose dolphins in the Patos Lagoon estuary, southern Brazil. Patterns of habitat use are also being investigated using photo-id.

**(R18)** – Photo-identification of naturally marked bottlenose dolphins has been widely used to investigate abundance, survival rates, reproductive rates and seasonality or even the genealogy of specific groups. Data collected with this technique combined with models of mark-recapture are used to estimate many demographic parameters (e.g. abundance) and populations' life history (e.g. age of sexual maturity, survival, reproductive seasonality) (Hammond *et al.*, 1990). This methodology is being used for the aquatic mammals from the São Pedro and São Paulo Archipelago since 1999 (Caon and Ott, 2004).

**(R20)** – Data analysis on season residency, site fidelity, habitat use and behavior of spinner dolphin have been carried in Fernando de Noronha Archipelago. (**Contact person:** José Martins da Silva Júnior / Projeto Golfinho Rotador).

**(R21)** – Southern right whale: distribution, coastal movements, within season residency and site fidelity (Groch, 2005), biological parameters (ongoing analysis on population estimates; Groch *et al.* 2005); behavior of right whales in Central-Southern Santa Catarina State (Groch, ongoing analysis).

(R22) - Project 1 –A photo-id study was conducted to identify naturally marked estuarine dolphins in the Estuary of Paraguaçu River. Thirty dolphins were identified during 146 hours. The identified individuals constitute a population unit (Batista, 2008). (Contact person: Renata Lúcia Guedes Batista – UESC).

Project 2 – A photo-id study is in progress in the Bay of Pontal and at the harbour of Ilhéus, in order to analyze group composition and population structure (Contact person: Carla Viviane Assis– UESC).

#### 4. TISSUE/BIOLOGICAL SAMPLES COLLECTED

##### 4.1 Biopsy samples (summary only)

Species	Area/stock	Calendar year/ season no. collected	Archived (Y/N)	No. analysed	Total holdings	Contact person/institute
Bottlenose dolphin	Patos Lagoon estuary – southern Brazil	0	Y	25	26	LTMM-FURG
Bottlenose dolphin	RS, Brazil	3	Y	3	3	Glauco Caon, LaMEC – UFRGS
Bottlenose dolphin	São Pedro and São Paulo Archipelago	7	Y	–	8	Thales R. O. Freitas/UFRGS
Rough-toothed dolphin	State of Rio de Janeiro	5	Y	5	–	Lailson-Brito, A. Azevedo/ MAQUA - UERJ
Marine tucuxi	State of Rio de Janeiro	25	Y	25	–	Lailson-Brito, A. Azevedo/ MAQUA - UERJ
Humpback whale	Breeding stock A	107	Y	107	469	Márcia Engel/IBJ
Humpback whale	Breeding Stock A	27	Y	-	53	A. Zerbini, A. Andriolo and S. Moreira (IA)
Southern right whale	RS	2007 / 4	Y	-	113	Paulo H. Ott & Larissa R. Oliveira, GEMARS/CECLIMAR
Southern right whale	SW Atlantic, RS	2	Y	2	2	Glauco Caon, LaMEC – UFRGS

##### 4.2 Samples from directed catches (commercial, aboriginal and scientific permits) or bycatches

Species	Area/stock	Calendar year/ season total	Archived (Y/N)	Tissue type(s)*	Contact person/institute
Franciscana	WS Atlantic (Southern Brazil)	31	Y	Skin, blubber, liver, gonads, teeth, kidney	LTMM-FURG
Franciscana	RS	4	Y	Muscle, Blubber Y	GEMARS
Marine tucuxi	RJ	20	Y	Kidney, liver, lung, muscle, stomach,, intestine, heart, blubber.	Lailson-Brito, A. Azevedo/MAQUA-UERJ
Marine tucuxi	Ceará	2	Y	Skin, bubbler, muscle, heart, lungs,	A.C. Meirelles/Aquasis

				liver, kidney, stomach, heart, gonads, parasites, stomach contents, skeleton, teeth	
Franciscana	São Paulo	2007-08 / n = 20	Y	Brain, lung, heart, stomach, intestine, liver, kidney, pancreas, adrenals, gonads, muscle, blubber, skin, teeth	C. P. Bertozzi, J. Marigo. & V. Ruoppolo, Projeto BioPesca and Faculdade de Medicina Veterinária - USP

#### 4.3 Samples from stranded animals

Species	Area/stock	Tissue type(s)	No. collected	Archived (Y/N)	No. analysed	Contact person/institute
Bottlenose dolphin	S. Atlantic	Testes, liver, blubber, muscle, complete skeleton.	1	N	0	André S. Barreto/ CTTMar-UNIVALI
Bottlenose dolphin	WS Atlantic (Southern Brazil)	Skin, gonads, stomach, skull, teeth, liver, blubber, kidney**	04	Y	—	LTMM - FURG
Bottlenose dolphin	WS Atlantic (Northeastern Brazil)	Bones	2	Y	0	Milton Marcondes/IBJ
Bottlenose dolphin	WS Atlantic (Southeastern Brazil – RJ)	Kidney, liver, lung, muscle, stomach, intestine, heart, blubber, skin.	1	Y	--	Lailson Brito, A.Azevedo/MAQUA-UERJ
Bottlenose dolphin	South Atlantic	Skin, blubber, liver, kidneys, gonads, muscle, stomach, intestine	2	Y	0	M. Cremer/UNIVILLE
Humpback whale	Breeding stock A	Skin, blubber	1	N	0	André S. Barreto/ CTTMar-UNIVALI
Humpback whale	Breeding stock A	Skin, blubber, eye, lung, intestines, stomach, liver, blood, kidney, urinary bladder, bones	13	Y	0	Milton Marcondes/IBJ
Humpback whale	Breeding stock A	Blubber, skin.	1	N	--	Lailson Brito, A.Azevedo/MAQUA-UERJ
Common minke whale	Tapajós River – State of Pará	Skin, blubber	1	Y	0	Milton Marcondes/IBJ
Minke whale*	S. Atlantic	Testes, liver, blubber, muscle, complete skeleton.	1	N	0	André S. Barreto/ CTTMar-UNIVALI
Minke whale	South Atlantic	Muscle, blubber, baleen plates	1	Y	0	M. Cremer/UNIVILLE
Franciscana	WS Atlantic (Southern Brazil)	Skin, gonads, stomach, skull, teeth, liver, blubber, kidney**	34	Y	—	LTMM-FURG
Franciscana	São Paulo	Brain, lung, heart, stomach, intestine, liver, kidney, pancreas, adrenals, gonads, muscle, blubber, skin, teeth	3	Y		C. P. Bertozzi, J. Marigo. & V. Ruoppolo, Projeto BioPesca and Faculdade de Medicina Veterinária - USP

Franciscana	South Atlantic	Skin, blubber, liver, kidneys, gonads, muscle, stomach, intestine	2	Y	0	M. Cremer/UNIVILLE
Rough-toothed-dolphin	WS Atlantic (Southern Brazil)	Skin, gonads, stomach, skull, teeth, liver, blubber, kidney**	01	Y	—	LTMM-FURG
Rough-toothed-dolphin	WS Atlantic (Southeastern Brazil - RJ)	Kidney, liver, lung, muscle, stomach, intestine, heart, blubber, skin.	3	Y	--	Lailson Brito, A.Azevedo/MAQUA-UERJ
Ziphius cavirostris	WS Atlantic (Southern Brazil)	Skin, gonads, stomach, skull, teeth, liver, blubber, kidney**	01	Y	—	LTMM-FURG
G. melas	WS Atlantic (Southern Brazil)	Skin, gonads, stomach, skull, teeth, liver, blubber, kidney**	01	Y	—	LTMM-FURG
Marine tucuxi	WS Atlantic (Northeastern Brazil)	Bones	2	Y	0	Milton Marcondes/IBJ
Marine tucuxi	WS Atlantic (Northeastern Brazil)	Kidney, liver, lung, muscle, stomach, intestine, heart, blubber, skin.	7	Y	—	Lailson Brito, A.Azevedo/MAQUA-UERJ
Marine tucuxi	South Atlantic	Skin, blubber, liver, kidneys, gonads, muscle, stomach, intestine	3	Y	0	M. Cremer/UNIVILLE
Marine tucuxi dolphin	SW Atlantic RN	Skin, blubber, bones	3	Y	3	Flávio J. Lima Silva/PCCB-UERN
<i>Stenella sp.</i>	SW Atlantic RN	bones	1	Y	1	Flávio J. Lima Silva/PCCB-UERN
Atlantic spotted dolphin	RJ	—	3	Y	—	Lailson Brito, A.Azevedo/MAQUA-UERJ
Atlantic spotted dolphin	São Paulo	Brain, lung, heart, stomach, intestine, liver, kidney, pancreas, adrenals, gonads, muscle, blubber, skin, teeth	2	Y		C. P. Bertozzi, J. Marigo. & V. Ruoppolo, Projeto BioPesca and Faculdade de Medicina Veterinária - USP
Fraser dolphin	RJ	Kidney, liver, lung, muscle, stomach, intestine, heart, blubber, skin.	1	Y	—	Lailson Brito, A.Azevedo/MAQUA-UERJ
Rough-toothed dolphin	São Paulo	Complete skeleton;	2	Y	0	IPeC
Bottlenose dolphin	São Paulo	Complete skeleton; Skin, blubber and muscle; skull and teeth	2	Y	0	IPeC
Bottlenose dolphin	Parana	Complete skeleton; Skin, blubber and muscle; skull and teeth	5	Y	0	IPeC
Marine Tucuxi	São Paulo	Complete skeleton; Skin, blubber and muscle; skull and teeth	33	Y	0	IPeC



Marine Tucuxi	Parana	Complete skeleton; Skin, blubber and muscle; skull and teeth	28	Y	0	IPeC
Franciscana	São Paulo	Complete skeleton; Skin, blubber and muscle; skull and teeth	20	Y	0	IPeC
Franciscana	Parana	Complete skeleton; Skin, blubber and muscle; skull and teeth	8	Y	0	IPeC
Marine Tucuxi	Ceará	Skin, muscle, stomach contents, teeth, skeleton	4	Y	4	A.C. Meirelles/Aquasis
Pygmy sperm whale	Ceará	Skin, bubbler, tongue, muscle, heart, lungs, liver, kidney, stomach, heart, gonads, parasites, stomach contents, parasites, skeleton, teeth	1	Y	1	A.C. Meirelles/Aquasis
Sperm whale	Ceará	Skin, muscle, teeth	1	Y	1	A.C. Meirelles/Aquasis
<i>Sotalia guianensis</i>	Bahia state, Northeastern Brazil	Stomach tissue and contents, liver, kidneys, muscle, lung tissue, skin, fatness, ovary, serum, intestine, blood, liver, skeleton and parasites	22	Y	0	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos
<i>Sotalia guianensis</i>	Sergipe state, Northeastern Brazil	Stomach tissue and contents, liver, kidneys, muscle, lung tissue and parasites	8	Y	0	A. Hubner/ Instituto Mamíferos Aquáticos
<i>Stenella clymene</i>	Bahia state, Northeastern Brazil	Stomach contents, liver, muscle, skin, fatness, blood, skeleton, feces, frozen full body and parasites	4	Y	0	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos
<i>Steno bredanensis</i>	Bahia state, Northeastern Brazil	Stomach contents, intestine, muscle, skin, muscle, fatness, blood, skeleton, feces, frozen full body and parasites	4	Y	0	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos

<i>Globicephala macrorhynchus</i>	Bahia state, Northeastern Brazil	Stomach contents, intestine, kidneys, muscle, skin, muscle, fatness, blood, skeleton, serum, liver.	1	Y	0	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos
<i>Kogia</i> sp.	Bahia state, Northeastern Brazil	skeleton	1	Y	0	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos
<i>Kogia sima</i>	Northeastern Brazil	Stomach tissue and contents, liver, kidneys, testicles and parasites (lung and digestive tract)	1	Y	0	A. Hubner/ Instituto Mamíferos Aquáticos
<i>Tursiops truncatus</i>	Bahia state, Northeastern Brazil	Stomach tissue, parasites and contents	2	Y	0	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos
<i>Megaptera novaeangliae</i>	Northeastern Brazil, SW Atlantic	Baleen, liver, kidneys, muscle, lung tissue and parasites	3	Y	0	A. Hubner and Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos
Minke whale	Guarujá/ São Paulo	Brain, lung, heart, liver, kidney	1	Y	1	A. Maranhão/ GREMAR
Bryde's whale	Praia Grande/ São Paulo	lung, heart, liver, kidney, muscle	1	Y	1	A. Maranhão/ GREMAR
Southern right whale	Itanhaém/ São Paulo	lung, heart, liver, kidney, muscle	1	Y	1	A. Maranhão/ GREMAR
Dwarf sperm whale	Itanhaém/ São Paulo	lung, heart, liver, kidney, muscle	1	Y	1	A. Maranhão/ GREMAR
Common minke whale	RS	Muscle, Blubber	1	Y	0	GEMARS
Southern right whale	RS	Muscle, Blubber	1	Y	0	GEMARS
Long-finned pilot whale	RS	Muscle, Blubber	1	Y	0	GEMARS
Bottlenose dolphin	RS	Muscle, Blubber	1	Y	0	GEMARS
Spinner dolphin	Fernando de Noronha Archipelago	skin, blubber, muscle	2	Y	2	José Martins da Silva Júnior / PGR / ICMBio

\* stranded alive.

\*\* Collected tissue type varied among species and was dependent to the degree of decomposition of the individuals.

#### 4.4 Analyses/development of techniques

(R1) – A protocol for DNA extraction of dolphin teeth was developed, and showed that teeth samples of dolphins preserved in collections were a good source of mitochondrial DNA for population genetics and taxonomic studies (Weber *et al.*, 2007).

(R2) – Age and growth, pollution and feeding analyses are being carried out.

(R3) – Investigations of cause of death were performed in stranded animals. Analyses for signs of human interaction were carried out through a specific protocol and samples were taken for pollution studies.

(R7) – It were performed tests of precision and accuracy of analytical methods for organochlorine determinations in blubber samples of cetaceans.

(R13) – Anatomic studies and genetic analysis of franciscana's incidentally caught in the estuary complex of Iguape-Cananéia-Ilha Comprida, southeastern Brazil, and north of Parana State – southern Brasil are being conducted (Contact Persons: Emygdio L..A Monteiro Filho, A.R. Santos-Lopes, IPeC ). Diet, age estimation and

heavy metals contamination studies of franciscana and estuarine dolphin are being conducted in the estuary complex of Iguape-Cananéia-Ilha Comprida, southeastern Brazil, and north of Parana State – southern Brasil (Contact Persons: Emygdio L..A Monteiro Filho, A.R. Santos-Lopes, IPeC ).

**(R18)** – Population structure and genetic diversity are being investigated from skin samples based on mtDNA and microsatellites. Blubber samples are being used to investigate feeding habits throughout fatty acid analysis. The use of the molecular techniques allow a variety of studies, like identification of individual and species (Ernest et al, 2000), genetic stock differentiation (e.g., Baker *et al.*, 1990), genetic variation between them (e.g., Baker *et al.*, 1993), gene flow estimates (e.g., Pilcher *et al.*, 1998; Yoshida *et al.*, 2001) and social structure (e.g., Amos *et al.*, 1993; Baker *et al.*, 1993). Besides this, genetic studies and fatty acid composition make possible to understand the isolation rate of a population related to its adjacent areas, for example, the bottlenose dolphin's population that inhabits the Archipelago in relation to other coastal populations.

**(R19)** – During the period of this report we conducted molecular analysis mainly related to population structure, effective population size and demography of two cetacean species: southern right whale (*Eubalaena australis*) and bottlenose dolphin (*Tursiops truncatus*). It is important to mention that both studies started previously of the period of this report. In this sense we just mentioned the number of biopsies related to southern right whale in the table 4.1, which was the only cetacean species biopsied during this period.

For the Southern right whale we sequenced mtDNA and genotyped 10 microsatellite loci. In order to establish the sex ratio of southern right whales, we genetically determined the sex of calves collected from biopsies along the coast of Rio Grande do Sul and Santa Catarina States, in southern Brazil.

For bottlenose dolphins we also sequenced mtDNA and genotyped 8 microsatellite loci as well as molecularly determined the sex of adults exclusively from the Archipelago of São Pedro and São Paulo population, north of Brazilian coast. These individuals were previously collected in 2005.

**(R20)** – Determination of cause of death was made in stranding events, including analyses of the interaction with fishing and boat. Anatomic studies, stomach contents and genetic analysis of mtDNA and nuclear DNA sequencing in the Fernando de Noronha Archipelago.

**(R23)** - Pathology occurring in bycaught animals has been investigated. Intestines analysed for metazoan parasites provided samples for trematode morphological and molecular studies (Marigo et al, 2008). *P. blainvillei* gonads and teeth are under histological analyses for reproduction and age determination. Stomach contents of *S.guianensis* and *P. blainvillei* are being studied to determine the species food items in Sao Paulo State. Lung samples of *S.guianensis* and *P. blainvillei* are being used in immunological studies. (Contact person: Juliana Marigo, BioPesca).

## 5. POLLUTION STUDIES

**(R2)** – Pollution analysis (both trace metals and organochlorine) f samples listed in 4 are being conducted in collaboration with other research groups. Some results are already published (see references).

**(R7)** – It were performed trace metals and organochlorines determinations in cetacean tissues of the Brazilian and Antarctic waters. Species: *Megaptera novaeangliae*, *Sotalia guianensis*, *Kogia sima*, *Pontoporia blainvillei*, *Steno bredanensis*, *Tursiops truncatus*, *Delphinus sp.*, *Stenella frontalis*, *Stenella attenuata* and *Lagenodelphis hosei*.

**(R13)** – Trace metals and organochlorines determinations in cetacean tissues of the south cost of São Paulo State (southeastern Brazil), and north of Paraná State (southern Brasil) are being conducted for marine tucuxi dolphin, franciscana and bottlenose dolphin.

**(R15)** – Pollution studies on marine mammals' tissues have been carried in Bahia and Sergipe coast with the Bahia Federal University and Sergipe Federal University support, respectively.

**(R23)** - Blubber samples of *S.guianensis* and *P. blainvillei* have been analysed for organic contaminants (organochlorine compounds: pesticides and polychlorinated biphenyls - PCBs) from São Paulo coast (Alonso et al, 2007a; 2007b). (Contact person: Mariana Alonso, BioPesca).

## 6. STATISTICS FOR LARGE CETACEANS

### 6.1 Corrections to earlier years' statistics for large whales

### 6.2 Direct catches of large whales (commercial, aboriginal and scientific permits) for the calendar year 2007

### 6.3 Anthropogenic mortality of large whales for the calendar year 2007

#### 6.3.1 Observed or reported ship strikes of large whales (including non-fatal events)

(R13) – see Table below.

Whale species	Sex	No.	Date	Location	Vessel type	Speed	Fate	How observed	Contact person/ institute and refs
Humpback whale	U	1	17/3/07	off south coast of São Paulo State	M	U	I	Crew	A.R. Santos-Lopes (IPeC)
*The tail was cut in half and some marks over the back.									

Coordenadoria de Monitoramento/Resgate de Mamíferos Marinhos Data Bank.

#### 6.3.2 Fishery bycatch of large whales

(R3) –

Whale species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Humpback whale	U	1	July 2007	Sepetiba Bay, Rio de Janeiro State	D	Unknown	NK	M	Milton Marcondes/IBJ
Comments:									

## 7. STATISTICS FOR SMALL CETACEANS

### 7.1 Corrections to earlier years' statistics for small cetaceans

### 7.2 Direct catches of small cetaceans for the calendar year 2007

Species	Type of catch	Area/stock	males	Female	Total landed	Struck and lost
Amazon dolphin	Commercial	AM	-	-	~1650 <sup>1</sup>	-
Marine tucuxi dolphin	Commercial	AP and MA	-	-	83 <sup>2</sup>	-

<sup>1</sup> Estimated or extrapolated by Da Silva & Best (2007).

<sup>2</sup> Direct count or extrapolation by onboard observer and film recorded in only one fishery trip. Claimed by fishermen as by catch but film footage indicates directed catch. At least some dolphins were sold to other fishermen of different boats as bait for shark fishery.

### 7.3 Anthropogenic mortality of small cetaceans for the calendar year 2007

#### 7.3.1 Observed or reported ship strikes of small cetaceans (including non fatal events)

Species	Sex	No.	Date	Location	Vessel type	Speed	Fate	How observed	Contact person/ institute and refs
Franciscana	M	1		SP	O	U	D*	Post mortem	A.R. Santos-Lopes (IPeC)
<i>Sotalia guianensis</i>	M	5	-	SP	O	U	D*	Post mortem	A.R. Santos-Lopes (IPeC)
<i>Sotalia guianensis</i>	M	2	-	SP	O	U	D*		A.R. Santos-Lopes (IPeC)

<i>Sotalia guianensis</i>	F	1	6.3.07	BA					Luciano R. Alardo Souto/ IMA
<i>Sotalia guianensis</i>	F	1	28.4.07	BA					Luciano R. Alardo Souto/ IMA
<i>Sotalia guianensis</i>	F	1	30.4.07	BA					Luciano R. Alardo Souto/ IMA
<i>Sotalia guianensis</i>	M	1	15.4.07	BA	GN				Luciano R. Alardo Souto/ IMA
<i>Sotalia guianensis</i>	M	1	8.6.07	BA					Luciano R. Alardo Souto/ IMA
<i>Sotalia guianensis</i>	M	1	29.1.08	BA					Luciano R. Alardo Souto/ IMA
<i>Sotalia guianensis</i>	I	1	14.9.07	BA					Luciano R. Alardo Souto/ IMA
<i>Stenella clymene</i>	F	1	6.7.07	BA					Luciano R. Alardo Souto/ IMA
Spinner dolphin	M	1	9/2/08	FN	small boats with outboard engines	quick	collision	Post mortem	José M. da Silva Jr/ PGR ICMBio

### 7.3.2 Fishery bycatch of small cetaceans

**(R1)** – Even though two animals (one *P. blainvillei* and one *T. truncatus*) were collected, none exhibited net marks, and therefore can not be attributed to bycatch.

**(R2)** –

Species	Sex	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Franciscana	Bycatch		Southern Brazil		Sciaenidae	GNS	logbooks	LMM-FURG Contact: Eduardo Secchi edu.secchi@furg.br

**(R3)** –

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source of contact
Marine tucuxi	F	1	Aug/07	Caravelas - State of Bahia	K	Unknown	NK	M	Milton Marcondes/IB J
Marine tucuxi	U	2	Jan/07	Conceição da Barra – State of Espírito Santo	K	Unknown	NK	M	Milton Marcondes/IB J

**(R7)** –

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Marine tucuxi	M/F	20	2007-2008	RJ		Mugil sp., Centropomus sp., Cynosciym sp., Anchoa sp., Micropogoni	GN	Fisherman called the lab. To collected animals.	Lailson-Brito, A. Azevedo/MAQUA - UERJ

(R8) –

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Franciscana	m	1	7/1/2007	Florianópolis	-	<i>U</i>	U	Beach	lamaqsl@ccb.ufsc.br

(R10) –

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Amazon dolphin	M	1	19 feb		D				Dr. Miriam Marmontel, IDSM
Pink dolphin	F	1	28 aug		D				Dr. Miriam Marmontel, IDSM
Tucuxi dolphin	F	1	9 apr		D	<i>Catfish</i>			Dr. Miriam Marmontel, IDSM
Tucuxi dolphin	?	1	Set		D				Dr. Miriam Marmontel, IDSM

(R11) –

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Franciscana dolphin	?	15	June-August/07	48°49'W; 28°36'S		<i>Urophycis brasiliensis</i>	Three-panel set net	Interviews	M. Cremer/UNIVILLE

(R13) -

Species	Type of catch	Area/stock	Males	Females	Total landed	Struck and lost
Estuarine dolphin	GN	São Paulo	7	8	15	
Estuarine dolphin	GN	Parana	3	1	4	
Franciscana	GN	São Paulo	4	2	6	
Franciscana	GN	Parana	2	1	3	

(R14) –

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Marine Tucuxi	M	1	Nov 2007	03°43'S; 38°32'W	D	-	BS	M	A.C. Meirelles/Aquasis
Marine Tucuxi	F	1	Jan 2008	04°27'S; 37°47'W	D	Lobster	GND	M	A.C. Meirelles/Aquasis

(R16) –

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
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Franciscana	U	1	19/07/07	Mar Casado/ Guarujá			GEN	F	A. Maranhão/ GREMAR
Comments: Entangled in gear, cut off and sank.									

**(R19) –**

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Franciscana	M	2	20/Jul/2007	RS	-	-	GNS	-	GEMARS
Franciscana	-	2	17/Fev/2008	RS	-	-	GNS	-	GEMARS
Comments: Incidentally caught in gillnets.									

**8. STRANDINGS**

**(R1)** – The CTTMar-UNIVALI is a member of the South Brazilian Marine Mammal Stranding Network (REMASul) and answers to stranding in the central-north coast of Santa Catarina. However, due to logistical reasons, most strandings are dealt by the Museu Oceanográfico do Vale do Itajaí (Itajaí Valley Oceanographic Museum). Strandings attended by CTTMar-UNIVALI are opportunistic, when called by the local authorities.

**(R2)** – Systematic weekly beach surveys are conducted along the central and southern coast of Rio Grande do Sul State (approximately 400km), southern Brazil aiming to record and collect samples from stranded marine mammals.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Bottlenose dolphin	01	01	André S. Barreto/ CTTMar-UNIVALI	abarreto@univali.br
Humpback whale	01	01	André S. Barreto/ CTTMar-UNIVALI	abarreto@univali.br
Minke whale	01	01	André S. Barreto/ CTTMar-UNIVALI	abarreto@univali.br
Franciscana	01	01	André S. Barreto/ CTTMar-UNIVALI	abarreto@univali.br
Balaenoptera borealis	01	01	Eduardo Secchi/LTMM - FURG	edu.secchi@furg.br
Unid. Baleen whale	01	01	Eduardo Secchi/LTMM - FURG	edu.secchi@furg.br
Franciscana			Eduardo Secchi/LTMM - FURG	edu.secchi@furg.br
Bottlenose dolphin			Eduardo Secchi/LTMM - FURG	edu.secchi@furg.br
Rough-toothed-dolphin			Eduardo Secchi/LTMM - FURG	edu.secchi@furg.br
Ziphius cavirostris			Eduardo Secchi/LTMM - FURG	edu.secchi@furg.br

**(R3)** – The IBJ is a member of the Northeastern Stranding Network (REMANE) since 2000. The Marine Mammal Stranding Response Program monitors strandings along the Abrolhos Bank and Northeastern Bahia state since 2002. Whenever possible, the veterinary staff performs necropsies in order to investigate the cause of death. Eventually the veterinary staff is required by the Brazilian Institute for the Conservation of Biodiversity (ICMBio) to respond to live strandings of large whales along the Brazilian coast.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Humpback whale	22	15	Milton Marcondes/ IBJ	<a href="mailto:milton.marcondes@baleiajubarte.com.br">milton.marcondes@baleiajubarte.com.br</a>
Marine tucuxi	7	6	Milton Marcondes/ IBJ	<a href="mailto:milton.marcondes@baleiajubarte.com.br">milton.marcondes@baleiajubarte.com.br</a>
Bottlenose Dolphin	2	2	Milton Marcondes/ IBJ	<a href="mailto:milton.marcondes@baleiajubarte.com.br">milton.marcondes@baleiajubarte.com.br</a>

Common Minke whale	1	1	Milton Marcondes/ IBJ	<a href="mailto:milton.marcondes@baleiajubarte.com.br">milton.marcondes@baleiajubarte.com.br</a>
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**(R7)** – Cetacean strandings are monitored by a network.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Marine tucuxi	7	0	José Lailson Brito Jr; Alexandre Azevedo and Paulo Renato Dorneles/MAQUA-UERJ	lailson@uerj.br <a href="mailto:azevedo.alex@uerj.br">azevedo.alex@uerj.br</a> dornelespr@gmail.com
Bottlenose dolphin	1	0	José Lailson Brito Jr; Alexandre Azevedo and Paulo Renato Dorneles/MAQUA-UERJ	lailson@uerj.br <a href="mailto:azevedo.alex@uerj.br">azevedo.alex@uerj.br</a> dornelespr@gmail.com
Rough-toothed-dolphin	3	0	José Lailson Brito Jr; Alexandre Azevedo and Paulo Renato Dorneles/MAQUA-UERJ	lailson@uerj.br <a href="mailto:azevedo.alex@uerj.br">azevedo.alex@uerj.br</a> dornelespr@gmail.com
Atlantic spotted dolphin	3	0	José Lailson Brito Jr; Alexandre Azevedo and Paulo Renato Dorneles/MAQUA-UERJ	lailson@uerj.br <a href="mailto:azevedo.alex@uerj.br">azevedo.alex@uerj.br</a> dornelespr@gmail.com
Fraser dolphin	1	1	José Lailson Brito Jr; Alexandre Azevedo and Paulo Renato Dorneles/MAQUA-UERJ	lailson@uerj.br <a href="mailto:azevedo.alex@uerj.br">azevedo.alex@uerj.br</a> dornelespr@gmail.com
Humpback whale	1	0	José Lailson Brito Jr; Alexandre Azevedo and Paulo Renato Dorneles/MAQUA-UERJ	lailson@uerj.br <a href="mailto:azevedo.alex@uerj.br">azevedo.alex@uerj.br</a> dornelespr@gmail.com

**(R8)** – Cetacean strandings reporting process is opportunistic and also based on phone calls.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Marine Tucuxi	2	2	Simões-Lopes, P.C./Lamaq UFSC	<a href="mailto:lamaqsl@ccb.ufsc.br">lamaqsl@ccb.ufsc.br</a>
Rough-toothed dolphin	1	1	Simões-Lopes, P.C./ Lamaq UFSC	<a href="mailto:lamaqsl@ccb.ufsc.br">lamaqsl@ccb.ufsc.br</a>
Bottlenose Dolphin	2	2	Simões-Lopes, P.C./ Lamaq UFSC	<a href="mailto:lamaqsl@ccb.ufsc.br">lamaqsl@ccb.ufsc.br</a>
Franciscana	1	1	Simões-Lopes, P.C./ Lamaq UFSC	<a href="mailto:lamaqsl@ccb.ufsc.br">lamaqsl@ccb.ufsc.br</a>

**(R10)** –

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Amazon dolphin	3	1	Miriam Marmontel/ IDSM	marmontel@mamiraua.org.br

**(R11)** – The stranding process is completely opportunistic.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Bottlenose dolphin	4	4	M. Cremer/UNIVILLE	marta.cremer@univille.net
Franciscana	3	3	M. Cremer/UNIVILLE	marta.cremer@univille.net
Minke whale	1	1	M. Cremer/UNIVILLE	marta.cremer@univille.net
Estuarine dolphin	3	3	M. Cremer/UNIVILLE	marta.cremer@univille.net
Stenella sp	1	1	M. Cremer/UNIVILLE	marta.cremer@univille.net



Delphinus sp	1	1	M. Cremer/UNIVILLE	marta.cremer@univille.n
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(R13) - The four animals were found already dead through regular accompaniment of stranding animals or for community people.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Bryde whale	2	2	A.R. Santos-Lopes (IPEC)	gruposgate_ipecc@yahoo.com.br
Southern right whale	1	1	A.R. Santos-Lopes (IPEC)	gruposgate_ipecc@yahoo.com.br
Physeter Macrocephalus	1	1	A.R. Santos-Lopes (IPEC)	gruposgate_ipecc@yahoo.com.br

(R14) – Aquasis conducted surveys on several municipalities along Ceará coast, when awareness campaigns were implemented in the communities in order to promote a collaboration network and improve strandings reports (Meirelles *et al.*, *in press*). Thus, strandings reported here were informed to Aquasis by members of the collaboration network.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Pygmy sperm whale	1	1	Ana Carolina Meirelles	cameirelles@yahoo.com.br
Marine tucuxi dolphin	4	4	Ana Carolina Meirelles	cameirelles@yahoo.com.br
Sperm whale	1	1	Ana Carolina Meirelles	cameirelles@yahoo.com.br

(R15) –

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
<i>Sotalia guianensis</i>	30	30	A. Hubner and Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos	<a href="mailto:adolfo@mamiferosaquaticos.org">adolfo@mamiferosaquaticos.org</a> <a href="mailto:lucianoalardo@yahoo.com.br">lucianoalardo@yahoo.com.br</a>
<i>Megaptera novaeangliae</i>	2	4	A. Hubner and Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos	<a href="mailto:adolfo@mamiferosaquaticos.org">adolfo@mamiferosaquaticos.org</a> lucianoalardo@yahoo.com.br
<i>Kogia</i>	1	1	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos	lucianoalardo@yahoo.com.br
<i>Kogia sima</i>	1	1	A. Hubner, Instituto Mamíferos Aquáticos	adolfo@mamiferosaquaticos.org
<i>Steno bredanensis</i>	4	3	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos	lucianoalardo@yahoo.com.br
<i>Globicephala macrorhynchus</i>	1	1	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos	lucianoalardo@yahoo.com.br
<i>Tursiops truncatus</i>	2	1	Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos	lucianoalardo@yahoo.com.br
<i>Sylenella clymene</i>	5	5	A. Hubner and Luciano R. Alardo Souto/ Instituto Mamíferos Aquáticos	adolfo@mamiferosaquaticos.org; lucianoalardo@yahoo.com.br

(R16) -

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Minke whale	1		A. Maranhão/ GREMAR	<a href="mailto:amaranhoo@iron.com.br">amaranhoo@iron.com.br</a>
Bryde's whale	1			
Southern right whale	1			
Humpback whale	1	1		

Franciscana	22	22	A. Maranhó/ GREMAR	<a href="mailto:amaranho@iron.com.br">amaranho@iron.com.br</a>
Atlantic spotted dolphin	3	3		
Spotted dolphin	2	2		
Bottlenose dolphin	2	1		
tucuxi	1	1		
Dwarf sperm whale	1			

(R17) – A 50km stretch of coast is surveyed weekly.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Marine tucuxi	2	2	Flávio J. Lima Silva	<a href="mailto:flaviogolfinho@yahoo.com.br">flaviogolfinho@yahoo.com.br</a>
Spotted dolphin	1	1	Flávio J. Lima Silva	<a href="mailto:flaviogolfinho@yahoo.com.br">flaviogolfinho@yahoo.com.br</a>

(R19) – Two-days of beach surveys along about 270km of coastline were conducted in one occasion only. Stranded animals were collect based on callings from local community.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Common minke whale	1	1	GEMARS	<a href="mailto:gemasr@gemars.org.br">gemasr@gemars.org.br</a>
Southern right whale	1	1	GEMARS	<a href="mailto:gemasr@gemars.org.br">gemasr@gemars.org.br</a>
Long-finned pilot whale	1	1	GEMARS	<a href="mailto:gemasr@gemars.org.br">gemasr@gemars.org.br</a>
Franciscana	5	5	GEMARS	<a href="mailto:gemasr@gemars.org.br">gemasr@gemars.org.br</a>
Bottlenose dolphin	1	1	GEMARS	<a href="mailto:gemasr@gemars.org.br">gemasr@gemars.org.br</a>

(R20) – Systematic surveys and phone calls.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Spinner dolphin	2	2	José Martins da Silva Júnior / PGR / ICMBio	rotador@golfinhorotador

(R22) – See table below:

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
<i>Physeter macrocephalus</i>	1		Renata Lúcia Guedes Batista / UESC	reprojmama@yahoo.com.br
<i>Megaptera novaeangliae</i>	1	1	Yvonnick Le Pendu / UESC	yvonnick@uesc.br

## 9. OTHER STUDIES AND ANALYSES

(R15) – Vocal behavior studies on bottlenose dolphins groups are being conducted (e.g., Hoffmann, 2004), along their coastal distribution and in oceanic waters of the Occidental South Atlantic Ocean. The bioacoustic data allow new information regarding communication and behavior of the animals in natural contexts with reference to the evaluation of a possible geographic isolation of the oceanic groups (Contact person: Lilian Sander Hoffmann)

(R15) – IMA has initiated an otolith and cephalopod beak collection to use as reference on the study of food habits. Also studies and analyses of shark bites on cetaceans, cetaceans' parasites, histopathology of cetaceans, beginning the analysis of tympanic-periotic complex of odontocetes, and analysis of cetacean osteology.

(R19) – Skin diseases based on photo-identification (two individuals) and pathological study of a dead, stranded specimen shown lobomycosis-like disease and confirmed lobomycosis, respectively (Van Bresse *et al.*, in press) (Contact person: Ignacio Moreno, GEMARS/CECLIMAR).

(R21) – Southern right whale/boat interaction during whalewatching operations (Groch and Correa, ongoing analysis).

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## Appendix 1. FOA fishing descriptions and codes

<b>FAO FISHING GEAR CATEGORIES:</b>		<b>FALLING GEAR</b>	
<b>SURROUNDING NETS</b>		Cast nets	FCN
With purse lines	PS	Falling gear (not specified)	FG
One-boat operated purse seines	PS1	<b>GILLNETS AND ENTANGLING GEAR</b>	
Two-boat operated purse seines	PS2	Set gillnets (anchored)	GNS
Without purse lines (lampara)	LA	Driftnets	GND
<b>SEINE NETS</b>		Encircling gillnets	GNC
Beach seines	SB	Fixed gillnets (on stakes)	GNF
Boat seines	SV	Trammel nets	GTR
Danish seines	SDN	Combined gillnet-trammel nets	GTN
Scottish seines	SSC	Gillnets and entangling gillnets (not specified)	GEN
Pair seines	SPR	Gillnets (not specified)	GN
Seine nets (not specified)	SX	<b>TRAPS</b>	
<b>TRAWLS</b>		Stationary uncovered pounds nets	FPN
Bottom trawls	TBB	Pots	FPO
Beam trawl	OTB	Fyke nets	FYK
Otter trawls (side or stern)	PTB	Stow nets	FSN
Pair trawls	TBN	Barriers, fences, weirs, etc	FWR
Nephrops trawls	TBS	Aerial traps	FAR
Shrimp trawls (not specified)	TM	Traps (not specified)	FIX
Midwater trawls		<b>HOOKS AND LINES</b>	
Otter trawls (side or stern)	OTM	Handlines and pole-lines (hand operated)	LHP
Pair trawls	PTM	Handlines and pole-lines (mechanised)	LHM
Shrimp trawls	TMS	Set longlines	LLS
Midwater trawls (not specified)	TM	Drifting longlines	LLD
Otter twin trawls	OTT	Longlines (not specified)	LL
Otter trawls (not specified)	OT	Trolling lines	LTL
Pair trawls (not specified)	PT	Hooks and lines (not specified)	LX
Other trawls (not specified)	TX	<b>GRAPPLING AND WOUNDING</b>	
<b>DREDGES</b>		Harpoons	HAR
Boat dredges	DRB	<b>HARVESTING MACHINES</b>	
Hand dredges	DRH	Pumps	HMP
<b>LIFT NETS</b>		Mechanised dredges	HMD
Portable lift nets	LPN	Harvesting machines (not specified)	HMX
Boat-operated lift nets	LNB	<b>MISCELLANEOUS GEAR</b>	MIS
Shore operated stationary lift nets	LNS	<b>RECREATIONAL FISHING GEAR</b>	RG
Lift nets (not specified)	LN	<b>GEAR NOT KNOWN OR NOT SPECIFIED</b>	NK
		<b>SHARK CONTROL NETS</b>	NSC
		<b>DERELICT FISHING GEAR</b>	