

# Brazil. Progress report on cetacean research, [March 2010] to [February 2011], with statistical data for the *calendar year* [2010]

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## 1. SPECIES AND STOCKS STUDIED

IWC common name	IWC recommended scientific	Area/stock(s)	Items referred to
COMMON MINKE WHALE	<i>Balaenoptera acutorostrata</i>	São Paulo, Paraná, Western South Atlantic	2.1.1, 2.1.2, 4.3, 5, 8, 9
ANTARCTIC MINKE WHALE	<i>Balaenoptera bonaerensis</i>	Antarctic Peninsula, Western South Atlantic	2.1.1
SEI WHALE	<i>Balaenoptera borealis</i>	Western South Atlantic	2.1.1
BRYDE'S WHALE	<i>Balaenoptera edeni</i>	Ceará and São Paulo, Western South Atlantic	2.1.1, 4.3, 5, 6.1, 8
BALAENOPTERIDAE	<i>Balaenoptera sp.</i>	Bahia, Rio de Janeiro, São Paulo, Santa Catarina, Paraná	4.3; 4.4, 5, 8, 9
COMMON DOLPHIN	<i>Delphinus sp.</i>	Rio de Janeiro, Western South Atlantic	2.1.1, 4.1, 5, 7.3.1.1
NORTHERN RIGHT WHALE	<i>Eubalaena australis</i>	Espírito Santo	2.1.2
SOUTHERN RIGHT WHALE	<i>Eubalaena australis</i>	Bahia, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul	2.1, 2.1.1, 2.1.2, 3.1.1, 3.2, 9, 10
PYGMY KILLER WHALE	<i>Feresa attenuata</i>	Western South Atlantic	2.1.1.
LONG FINNED PILOT WHALE	<i>Globicephala melas</i>	Western South Atlantic	2.1.1.
RISSO'S DOLPHIN	<i>Grampus griseus</i>	Espírito Santo, Western South Atlantic	2.1.1, 4.3, 8
BOUTU	<i>Inia geoffrensis</i>	Amazonas	5
DWARF SPERM WHALE	<i>Kogia sima</i>	Paraíba, Sergipe and Rio de Janeiro	4.3, 5, 8
KOGIIDAE	<i>Kogia sp.</i>	Bahia	4.3, 8
FRASER'S DOLPHIN	<i>Lagenodelphis hosei</i>	Ceará and Rio de Janeiro	4.3, 5, 7.3.1, 8
HUMPBACK WHALE	<i>Megaptera novaeangliae</i>	Ceará (Stock A), BSA, Pernambuco (Fernando de Noronha), Alagoas, Sergipe, Bahia, Espírito Santo, Rio de Janeiro, São Paulo, Paraná, Santa Catarina and Antarctic Ocean (AI, AII).	2.1.1, 2.1.2, 2.2, 3.1.1, 4.1, 4.3, 4.4, 5, 8, 9
GERVAIS'S BEAKED WHALE	<i>Mesoplodon europaeus</i>	Western South Atlantic	4.3, 8
KILLER WHALE	<i>Orcinus orca</i>	São Paulo, Antarctic Peninsula, Western South Atlantic	2.1, 2.1.1, 3.1.1, 7.3
MELON-HEADED WHALE	<i>Peponocephala electra</i>	Ceará, Alagoas and Bahia	4.3, 8
SPERM WHALE	<i>Physeter macrocephalus</i>	Maranhão, Ceará, Pernambuco, Alagoas, Bahia, São Paulo, Western South Atlantic	2.1.1, 4.3, 5, 6.1, 8
FRANCISCANA	<i>Pontoporia blainvillei</i>	Rio de Janeiro, Espírito Santo, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul	2.1.1, 2.2, 3.1, 3.1.2, 3.2, 4.2, 4.3, 4.4, 5, 7.1, 7.2, 7.3, 7.3.1, 8, 9
FALSE KILLER WHALE	<i>Pseudorca crassidens</i>	Western South Atlantic	2.1.1., 7.3.1
GUIANA DOLPHIN	<i>Sotalia guianensis</i>	Maranhão, Ceará, Paraíba Alagoas, Sergipe, Bahia, Rio de Janeiro, Espírito Santo, Paraná, Santa Catarina	2.1.1.;2.1.2, 2.2, 3.1, 3.1.1, 3.2, 4.1, 4.2, 4.3, 4.4, 5, 7.1, 7.2, 7.3.2, 8, 9
PANTROPICAL SPOTTED DOLPHIN	<i>Stenella attenuata</i>	Rio de Janeiro and São Paulo, Western South Atlantic	2.1.1, 4.3, 5, 8
CLYMENE DOLPHIN	<i>Stenella clymene</i>	Paraíba, Pernambuco, Sergipe and Bahia	4.3, 7.3.2, 8
STRIPED DOLPHIN	<i>Stenella coerulealba</i>	Bahia and São Paulo	4.3, 5, 8
ATLANTIC SPOTTED DOLPHIN	<i>Stenella frontalis</i>	Rio de Janeiro, Western South Atlantic	2.1.1, 2.1.2, 4.1, 5, 7.3.1
SPINNER DOLPHIN	<i>Stenella longirostris</i>	Ceará and Pernambuco (Fernando de Noronha), Western South Atlantic	2.1.1, 2.2., 2.3, 3.1.1, 3.2, 4.1, 4.3, 4.4, 7.1, 7.3, 7.4, 8, 9.
DELPHINIDAE	<i>Stenella sp.</i>	Bahia	4.3, 8
ROUGH-TOOTHED DOLPHIN	<i>Steno bredanensis</i>	Ceará, Bahia, Espírito Santo, Rio de Janeiro, São Paulo, Paraná	2.1.2, 3.1, 3.1.1, 4.1, 4.3, 5, 7.1, 7.3.1, 8, 9
BOTTLENOSE DOLPHIN	<i>Tursiops truncatus</i>	Ceará, Pernambuco, Alagoas Bahia, Espírito Santo, Rio de Janeiro, São Paulo, Paraná, Santa Catarina and Rio Grande do Sul	2.1.1, 2.1.1, 2.1.2, 2.2, 3.1, 3.1.1, 4.1, 4.3, 4.4, 5, 7.1, 7.3.1, 7.3.3, 8, 9
CUVIER'S BEAKED WHALE	<i>Ziphius cavirostris</i>	Ceará	4.3, 8

## 2. SIGHTINGS DATA

### 2.1 Field work

#### 2.1.1 Systematic

### AQUASIS

Systematic boat surveys are being conducted in Mucuripe Embayment, where the Fortaleza harbor is located. This research project, which began in September 2009, aims to study the population dynamics (through photo-identification technique), ecology and behavior of the Guiana dolphin in the area. From September 2009 to February 2010, 12 field-trips were conducted, and 15 dolphin sightings were recorded.

Target species	Date	Area	No. of sightings	Contact person/institute and references
GUIANA DOLPHIN	From March 2010 to February 2011	Mucuripe Embayment, Fortaleza, Ceará, NE Brazil	17	Ana Carolina Meirelles

### IBJ

#### Guiana dolphin

During an effort of more than 210 hours with 13.67hours of direct observation, and 34 one-day surveys, *Sotalia guianensis* were monitored by boat cruises in 2010, when 24 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).

Target species	Date	Area	No. of sightings	Contact person/institute and references
GUIANA DOLPHIN	All year	Abrolhos Bank	24 groups (114 dolphins)	Leonardo Wedekin/ IBJ

#### 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 November, 608 humpback whales, including 123 calves, were detected during 1, 811 nautical miles of boat surveys (295 hours of effort). In northern coast of Bahia 212 humpback whales were sighted, including 21 calves during 556,1 nautical miles of boat surveys (203,6 hours of effort). (Contact persons: Clarêncio Baracho & Milton Marcondes IBJ).

Target species	Date	Area	No. of sightings	Contact person/institute and references
HUMPAK WHALE	July to November	Abrolhos Bank (BSA)	248 (608 whales)	Milton Marcondes/ IBJ
HUMPAK WHALE	July to October	Northern coast of Bahia (BSA)	96 (212 whales)	Clarêncio Baracho/IBJ

### MAQUA

Target species	Date	Area	No. of sightings	Contact person/institute and references
GUIANA DOLPHIN	2009-2010	Rio de Janeiro state	N	Lailson-Brito / Azevedo – UERJ
ROUGH-TOOTHED DOLPHIN	2009-2010	Rio de Janeiro state	N	Lailson-Brito / Azevedo – UERJ

## CMA/ICMBio - Fernando de Noronha

Behavioural ecology, population density, photo and video-identification, interactions with whalewatching boats, etnobiology, bioacoustic and biopsy sampling studies of spinner dolphin have been conducted on a regular basis from land (311 days – 3043,47 hours), in snorkelling and skin diving (2 days – 2 hours) in the Fernando de Noronha Archipelago (03°50'S, 32°25'W - Northeast Brazil). Systematic monitoring of stranded studies of cetaceans has been conducted in the Fernando de Noronha Archipelago. (**Contact person:** José Martins da Silva Júnior / Centro Mamíferos Aquáticos/ICMBio).

## PBF/BRASIL

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. From three aerial surveys conducted between July and November (one per month: July, September and November), 157 individuals were sighted, including 58 calves (including double counting) (K.R. Groch, *unpublished*).

Target species	Date	Area	No. of sightings	Contact person/institute and references
SOUTHERN RIGHT WHALE	July - Nov 2010 (Aerial)	Central SC to North RS	157 whales including 58 calves (aerial)*  (* including double counting)	Karina Rejane Groch, Right Whale Project – Brasil

SC = Santa Catarina State; RS = Rio Grande do Sul State

## GPMAL-UESC

Guiana dolphins - Fifteen boat and 25 land-based photo-identification surveys were conducted to determine the abundance of Guiana dolphin in the urban coast of Ilhéus. Eighty boat photo-identification surveys and 55 land-based surveys were conducted to determine the abundance of bottlenose dolphin in Canavieiras estuary.

Target species	Date	Area	No. of sightings	Contact person/institute and references
GUIANA DOLPHIN	03/2010-02/2011	Ilhéus	Continuous	Yvonnick Le Pendu (yvonnickuesc@gmail.com)
GUIANA DOLPHIN	03/2010-02/2011	Canavieiras	Continuous	Yvonnick Le Pendu (yvonnickuesc@gmail.com)

## IPeC

Target species	Date	Area	No. of sightings	Contact person/institute and references
SOUTHERN RIGHT WHALE	18/07 – 07/08/10	São Paulo - Southeastern Brazil  Paraná - Southern Brazil	6	A.R.Santos-Lopes (IPeC)
KILLER WHALE	25 - 28/09/10	São Paulo - Southeastern Brazil	3	A.R.Santos-Lopes (IPeC)

## UNIVILLE

Systematic surveys on Babitonga bay in a pre defined route for Guiana dolphins and franciscanas for distribution analysis; bioacoustics recordings from boats; photoidentification of groups made from a boat. Fixed point sampling in Tesoura beach, Laguna, for bioacoustics recording and photoidentification of bottlenose dolphins.

Target species	Date	Area	No. of sightings	Contact person/institute and references
FRANCISCANA	2010	Baía da Babitonga, SC, BR.	many	Marta J. Cremer, UNIVILLE
GUIANA DOLPHIN	2010	Baía da Babitonga, SC, BR.	many	Marta J. Cremer, UNIVILLE
BOTTLENOSE DOLPHIN	2010	Praia da Tesoura - Laguna, SC, BR	many	Marta J. Cremer, UNIVILLE

## LEC/UFPR

Systematic surveys are conducted to monitor habitat use, behavior patterns, group size and composition and spatial distribution of Guiana dolphin in the Estuarine Complex of Paranaguá Bay, southern Brazil. Systematic surveys are being conducted in the estuary of Paranaguá Bay for relating to the occurrence of Guiana dolphin in the harbour area and understand the impact of boat traffic and environmental factors on their activities. Animals are usually observed during the whole year in the area. Systematic surveys are conducted for determining habitat use, behavior patterns and group composition of franciscana in the Estuarine Complex of Paranaguá Bay, southern Brazil. Systematic surveys are conducted for determining habitat use, behavior patterns and group composition of bottlenose dolphin in the Guaratuba Bay, southern Brazil.

## LTMM/FURG

Systematic surveys are conducted for determining habitat use patterns, abundance, trends and reproductive and survival rates of common bottlenose dolphins in the Patos Lagoon estuary and adjacent coastal area, southern Brazil.

### 2.1.2 Opportunistic, platforms of opportunity

## AQUASIS

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

## IBJ

During 2010 humpback whale survey in Abrolhos Bank (Bahia and Espírito Santo States) 01 groups of Southern right whale, 7 groups of Guiana dolphin, 01 group of Rough-Toothed dolphins, 01 groups of Bottlenose dolphin and 05 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
GUIANA DOLPHIN	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

## MAQUA

Primary species	Area	Data type/method	Collected by	Platform	Contact person/institute and refs
BOTTLENOSE DOLPHIN	Rio de Janeiro state	sightings	Team	Research boat	Lailson-Brito / Azevedo - UERJ
KILLER WHALE	Rio de Janeiro state	sightings	Team	Research boat	Lailson-Brito / Azevedo - UERJ

## CMA/ICMBio – Fernando de Noronha

Opportunistic observations, photo and video-identification and interactions with whale watching boats of 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).

## INSTITUTO ORCA

Primary species	Area	Data type/method	Collected by	Platform	Location of archive (if applicable)	Contact person/institute and refs
SOUTHERN RIGHT WHALE	Riacho beach, Guarapari, Espírito Santo State	08/12/2010				Lupércio Barbosa / Instituto ORCA
SOUTHERN RIGHT WHALE	Carapebus beach, Serra, Espírito Santo State	05/09/2010				Lupércio Barbosa / Instituto ORCA
SOUTHERN RIGHT WHALE	Barra do Jucu beach, Vila Velha, Espírito Santo State	30/09/2010				Lupércio Barbosa / Instituto ORCA

## LEC/UFPR

Opportunistic sightings have been made by researchers' cruises.

The area covered by these sightings spans from 25° to 26°S and from 47° to 48°W.

Primary species	Area	Data type/method	Collected by	Platform	Contact person/institute and refs
ROUGH-TOOTHED DOLPHIN	Southern Brazil – Paraná and Santa Catarina State	Sightings	Researchers of LEC/CEM	Research vessel	LEC/CEM/UFPR camila.lec@ufpr.br
BOTTLENOSE DOLPHIN	Southern Brazil – Paraná State	Sightings	Researchers of LEC/CEM	Research vessel	LEC/CEM/UFPR camila.lec@ufpr.br
COMMON MINKE WHALE	Southern Brazil – Paraná State	Sightings	Researchers of LEC/CEM	Research vessel	LEC/CEM/UFPR camila.lec@ufpr.br
SOUTHERN RIGHT WHALE	Southern Brazil – Paraná State	Sightings	Researchers of LEC/CEM	Research vessel	LEC/CEM/UFPR camila.lec@ufpr.br

## 2.2 Analyses/development of techniques

### CMA/ICMBio – Fernando de Noronha

In this period, about five hundred spinner dolphins were identified based on dorsal fin shape and scars. On 95,17% days of period, spinner dolphins groups ranging from 5 to 1929 (mean= 479,34; SD±359,56; N=296) 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 (311 days – 3043,47 hours) and boat based sightings (2 days – 2 hours) in the Fernando de Noronha Archipelago, was sighted 17 humpback whale ( 3 mother and calf).

In 178 days of observation on the Bay of Santo Antônio and Between Islands, totaled 1791 hours, the dolphins were present in 97.75% of days remaining in the area 58.08% (1040 hours) of time.

## GPMAI-UESC

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs
GUIANA DOLPHIN	03/2010-02/2011	Ilhéus	Photo-ID/ 50 days Bioacoustics/15 days	Distribution, acoustic repertoire	Yvonnick Le Pendu/UESC
GUIANA DOLPHIN	03/2010-02/2011	Canavieiras	Boat transect/80 days Land-based surveys/55 days	Distribution, Behaviour, use of area,	Yvonnick Le Pendu/UESC
FRANCISCANA	03/2010-02/2011	SC	Boat and aerial transects/50h	Correction factors for abundance estimates	Daniel Danilewicz/UESC

## UNIVILLE

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs
FRANCISCANA	2010	Baía da Babitonga, SC, BR.	Photoidentification; scan sampling; bioacoustics recording	Distribution; residence; vocal repertoire	Marta J. Cremer, UNIVILLE
GUIANA DOLPHIN	2010	Baía da Babitonga, SC, BR.	Photoidentification; scan sampling; bioacoustics recording	Distribution; residence; vocal repertoire	Marta J. Cremer, UNIVILLE
BOTTLENOSE DOLPHIN	2010	Praia da Tesoura - Laguna, SC, BR	Photoidentification; bioacoustics recording	Residence; vocal repertoire	Marta J. Cremer, UNIVILLE

## 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 fin	Laguna, SC, BR.	27	Y	27	Marta J. Cremer, UNIVILLE
BOTTLENOSE DOLPHIN	Dorsal fin	Coastal area of Paraná	2	N	0	LEC/CEM/UFPR camila.lec@ufpr.br
FRANCISCANA	Dorsal fin	Baía da Babitonga, SC, BR.	2	Y	2	Marta J. Cremer, UNIVILLE
FRANCISCANA	Dorsal fin	Estuarine Complex of Paranaguá, PR.	1	Y	2	LEC/CEM/UFPR camila.lec@ufpr.br
GUIANA DOLPHIN	Dorsal fin	Ceará	14	Y	30	Ana Carolina Meirelles
GUIANA DOLPHIN	Dorsal	Bahia State	2010 / n = 75	Y	144	Leonardo L. Wedekin, IBJ
GUIANA DOLPHIN	Dorsal fin	Port of Ilhéus, BA	51	Y	77	Yvonnick Le Pendu/UESC
GUIANA DOLPHIN	Dorsal fin	Canavieiras estuary, BA	14	Y	14	Yvonnick Le Pendu/UESC
GUIANA DOLPHIN	Dorsal fin	Baía da Babitonga, SC, BR.	68	Y	68	Marta J. Cremer, UNIVILLE



GUIANA DOLPHIN	Dorsal fin	Estuarine Complex of Paranaguá, PR.	43	Y	61	LEC/CEM/UFPR camila.lec@ufpr.br
HUMPBACK WHALE	Fluke	Abrolhos Bank (BSA)	2010 / n = 223	N	3,239 (season 2010 will be analyzed and	Mariana Neves, IBJ
HUMPBACK WHALE	Fluke	Northeast of Bahia State (BSA)	2010 / n = 33	Y	841 (season 2010 will be analyzed and	Clarêncio Baracho, IBJ
ROUGH-TOOTHED DOLPHIN	Dorsal	Rio de Janeiro	107	Y	107	Lailson-Brito / Azevedo - UERJ
ROUGH-TOOTHED DOLPHIN	Dorsal fin	Coastal area of Paraná	3	N	0	LEC/CEM/UFPR camila.lec@ufpr.br
GUIANA DOLPHIN	Dorsal	Guanabara Bay	32	Y	69	Lailson-Brito / Azevedo - UERJ
SOUTHERN RIGHT WHALE	Head callosities and dorsal	Southern Brazil	~70	N	455**	Karina R. Groch
SPINNER DOLPHIN	Dorsal fin and flanks	Fernando de Noronha Archipelago	68	Y	1141	José Martins da Silva Júnior / Centro Mamíferos Aquáticos
BOTTLENOSE DOLPHINS	Dorsal fin	Patos Lagoon estuary – southern Brazil	~20	Y	~150	LTMM-FURG
HUMPBACK WHALES	fluke	Antarctic Peninsula	~25	Y	~500	LTMM-FURG
KILLER WHALES	Dorsal fin	Antarctic Peninsula	~10	Y	~50	LTMM-FURG

\* includes possible double identifications

\*\* catalogue up to 2006; photos from 2007 – 2010 aerial surveys under analysis

### 3.1.2. Artificial marking data

#### LTMM/FURG

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.

### 3.2 Analyses/development of techniques

#### CMA/ICMBio – Fernando de Noronha

Data analyses 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 / Centro Mamíferos Aquáticos).

#### Projeto BALEIA FRANCA

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

#### LTMM/FURG

Abundance, trends, 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.

#### 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
GUIANA DOLPHIN	RJ	15	Y	15		Lailson-Brito / Azevedo – UERJ
HUMPBACK WHALE	Abrolhos Bank (BSA)	2010 / 55	Y	55	642	Márcia Engel/ IBJ
ROUGH-TOOTHED DOLPHIN	RJ	17	Y	17		Lailson-Brito / Azevedo – UERJ
BOTTLENOSE DOLPHIN	RJ	2	Y	2		Lailson-Brito / Azevedo – UERJ
BOTTLENOSE DOLPHIN	Patos Lagoon estuary – southern Brazil	25	Y	0	~50	LTMM-FURG
HUMPBACK WHALES	Antarctic, IWC Area II	27	Y	9	~250	LTMM-FURG
COMMON DOLPHIN	Western South Atlantic	12	Y	12		LTMM-FURG
ATLANTIC SPOTTED DOLPHIN	Western South Atlantic	10	Y	0		LTMM-FURG

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

Species	Area/stock	Tissue type(s)*	No. collected	Archived (Y/N)	No. analysed	Contact person/institute
GUIANA DOLPHIN	Ceará	Muscle	14	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Skeleton	12	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Skin	2	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Stomach contents	5	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Skull	4	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Heart, lung, liver, kidney,		Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Rio de Janeiro	<i>Kidney, liver, lung, muscle, stomach,, intestine, heart, blubber.</i>	10	Y	5	Lailson-Brito / Azevedo – UERJ

\*e.g. liver, skin, blubber ovaries, etc.

### 4.3 Samples from stranded animals

Species	Area/stock	Tissue type(s)*	No. collected	Archived (Y/N)	No. analysed	Contact person/institute
GUIANA DOLPHIN	Maranhão, Paraíba and Alagoas	Skeleton, muscle, skin, blubber, liver, stomach	6	Y	6	<a href="mailto:fabia.luna@icmbio.gov.br">fabia.luna@icmbio.gov.br</a>
CLYMENE DOLPHIN	Paraíba and Pernambuco	Skin, muscle and blubber	2	Y	2	<a href="mailto:fabia.luna@icmbio.gov.br">fabia.luna@icmbio.gov.br</a>
DWARF SPERM WHALE	Paraíba	Skin, muscle and blubber	1	Y	1	<a href="mailto:fabia.luna@icmbio.gov.br">fabia.luna@icmbio.gov.br</a>
SPERM WHALE	Maranhão, Pernambuco and Alagoas	Teeth	3	Y	3	<a href="mailto:fabia.luna@icmbio.gov.br">fabia.luna@icmbio.gov.br</a>
HUMPBACK WHALE	Alagoas	Skin and blubber	2	Y	2	<a href="mailto:fabia.luna@icmbio.gov.br">fabia.luna@icmbio.gov.br</a>
BOTTLENOSE DOLPHIN	Pernambuco	Skeleton, Stomach content, skin, muscle and	2	Y	2	<a href="mailto:fabia.luna@icmbio.gov.br">fabia.luna@icmbio.gov.br</a>
MELON-HEADED WHALE	Alagoas	Skeleton, muscle, skin and blubber	1	Y	1	<a href="mailto:fabia.luna@icmbio.gov.br">fabia.luna@icmbio.gov.br</a>
STRIPED DOLPHIN	S. Atlantic	skeleton, parasites, eyes, dull, thymus, pancreas, thyroid, tongue, esophagus, stomach contents, kidney, testis, bladder, adrenal, penis, liver, lungs, trachea, intestine, fetus.	1	Y	1	Maria do Socorro Reis / IMA
BALAENOPTERIDAE	S. Atlantic	-	0	N	1	Maria do Socorro Reis / IMA
BALAENOPTERIDAE	WS Atlantic São Paulo - Southeastern Brazil	Skul		Y	0	A.R.Santos-Lopes (IPeC)
BALAENOPTERIDAE	Litoral norte de Santa Catarina	blubber	1	Y	0	Marta J. Cremer, UNIVILLE
BALAENOPTERIDAE	WS Atlantic (Southern Brazil)	Skin, blubber, muscle	2	Y	0	LEC/CEM/UFPR <a href="mailto:camila.lec@ufpr.br">camila.lec@ufpr.br</a>
BALAENOPTERIDAE	RJ	Blubber.	1	N	1	Lailson-Brito / Azevedo - UERJ
BOTTLENOSE DOLPHIN	Ceará	skin	1	Y	0	Ana Carolina Meirelles/Aquasis
BOTTLENOSE DOLPHIN	Ceará	Skull	1	Y	0	Ana Carolina Meirelles/Aquasis
BOTTLENOSE DOLPHIN	Ceará	Skin, Skull	1	Y	0	Ana Carolina Meirelles/Aquasis
BOTTLENOSE DOLPHIN	Espírito Santo State	Blubber, muscle	2	Y	0	Lupércio Barbosa / Instituto ORCA
BOTTLENOSE DOLPHIN	São Paulo - Southeastern Brazil	Complete skeleton; Skin, blubber and muscle; skull and teeth	1	Y	0	A.R.Santos-Lopes (IPeC)
BOTTLENOSE DOLPHIN	WS Atlantic (Southern Brazil)	Skin, blubber, muscle, teeth, liver, gonads, kidney, stomach, skull	1	Y	0	LEC/CEM/UFPR <a href="mailto:camila.lec@ufpr.br">camila.lec@ufpr.br</a>
BOTTLENOSE DOLPHIN	S. Atlantic	Teeth, skeleton, muscle, skin, bubbler	2	Y	2	Maria do Socorro Reis / IMA

BRYDE'S WHALE	Ceará	muscle	1	Y	0	Ana Carolina Meirelles/Aquasis
BRYDE'S WHALE	WS Atlantic São Paulo - Southeastern Brazil	Skul		Y	0	A.R.Santos-Lopes (IPeC)
CLYMENE DOLPHIN	S. Atlantic	Teeth, skeleton, muscle, skin, bubbler	1	Y	1	Maria do Socorro Reis / IMA
COMMON MINKE WHALE	WS Atlantic São Paulo - Southeastern Brazil	Skin, blubber, livers, lungs, Baleen.	1	Y	0	A.R.Santos-Lopes (IPeC)
CUVIER'S BEAKED WHALE	Ceará	Muscle, skeleton	1	Y	0	Ana Carolina Meirelles/Aquasis
CUVIER'S BEAKED WHALE	Ceará	Skeleton	1	Y	0	Ana Carolina Meirelles/Aquasis
FRANCISCANA	Espirito Santo State	bones; skin; bubbler; stomach	2	Y	0	Milton Marcondes / IBJ
FRANCISCANA	São Paulo - Southeastern  Paraná - Southern Brazil	Complete skeleton; Skin, blubber and muscle; skull and teeth	32	Y	09	A.R.Santos-Lopes (IPeC)
FRANCISCANA	North coastof Santa Catarina	Blubber, muscle, kidney, liver, teeth, stomach, intestine, skeleton	5	Y	0	Marta J. Cremer, UNIVILLE
FRANCISCANA	WS Atlantic (Southern Brazil)	Skin, blubber, teeth, skull	2	Y	0	LEC/CEM/UFPR camila.lec@ufpr.br
FRASER'S DOLPHIN	Ceará	Parasites, muscle, blubber, stomach contents, trachea, heart, lungs, stomach, intestines, pancreas, liver, kidney, spleen, bladder, ovaries, uterus, skeleton	1	Y	1	Ana Carolina Meirelles/Aquasis
GERVAIS'S BEAKED WHALE	Ceará	Parasites, stomach contents, heart, lungs, stomach, intestines, pancreas, kidneys, spleen, ovaries, uterus, fetus, umbilici, skin, skull	1	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	WS Atlantic (Southern Brazil)	Skin, blubber, muscle, teeth, liver, gonads, kidney, stomach, skull	19	Y	0	LEC/CEM/UFPR camila.lec@ufpr.br
GUIANA DOLPHIN	RJ	Kidney, liver, lung, muscle, stomach,, intestine, heart, blubber, skin.	23	Y	23	Lailson-Brito / Azevedo - UERJ

GUIANA DOLPHIN	São Paulo - Southeastern Paraná - Southern Brazil	Complete skeleton; Skin, blubber and muscle; skull and teeth	23	Y	18	A.R.Santos-Lopes (IPeC)
GUIANA DOLPHIN	Ceará	Heart, lungs, liver, kidney	3	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Skeleton and skull	29	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	skull	12	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Muscle	32	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	skin	3	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Stomach contents	8	Y	0	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Blubber	4	Y	1	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Adrenal, spleen, intestines, parasites, Ovaries	2	Y	1	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Ceará	Pancreas, , uterus, mammary glands, brain, fetus, bladder, brain, stomach, esophagus, trachea	1	Y	1	Ana Carolina Meirelles/Aquasis
GUIANA DOLPHIN	Bahia and Espírito Santo	Skin, blubber, liver; kidney and bones	9	Y	0	Milton Marcondes/IBJ
GUIANA DOLPHIN	Espírito Santo State	Skin, blubber, lung, intestine, pancreas, liver, kidney, bones,	23	Y	0	Lupércio Barbosa / Instituto ORCA
GUIANA DOLPHIN	Ilhéus, BA	2011/1	Y	0	1	Daniel Danilewicz/UESC
GUIANA DOLPHIN	S. Atlantic	skeleton, parasites, eyes, dull, thymus, pancreas, thyroid, tongue, esophagus, stomach contents, kidney, testis, bladder, adrenal, penis, liver, lungs, trachea, intestine	2	Y	2	Maria do Socorro Reis / IMA
HUMPBACK WHALE	Ceará	Trachea, heart, lungs, stomach, intestines, pancreas, liver, spleen, kidney, bladder, testicles, adrenal, muscle	1	Y	1	Ana Carolina Meirelles/Aquasis
HUMPBACK WHALE	Ceará	Skin	1	Y	1	Ana Carolina Meirelles/Aquasis
HUMPBACK WHALE	Bahia and Espírito Santo States (BSA)	Skin, blubber, lung, intestine, stomach, heart, liver, blood, kidney, bones	40	Y	2	Milton Marcondes/IBJ
HUMPBACK WHALE	Espírito Santo State	Blubber, muscle	21	Y	0	Lupércio Barbosa / Instituto ORCA

HUMPBACK WHALE	Ilhéus, BA	2010/8	Y	0	1	Daniel Danilewicz/UESC
HUMPBACK WHALE	WS Atlantic São Paulo - Southeastern	skul		Y	0	A.R.Santos-Lopes (IPeC)
HUMPBACK WHALE	North coastof Santa Catarina	Blubber, epibionts, vertebrae	1	Y	0	Marta J. Cremer, UNIVILLE
HUMPBACK WHALE	WS Atlantic (Southern Brazil)	Skin, blubber, muscle	2	Y	0	LEC/CEM/UFPR camila.lec@ufpr.br
HUMPBACK WHALE	S. Atlantic	-	1	N	1	Maria do Socorro Reis / IMA
HUMPBACK WHALE	RJ	Muscle, blubber, skin.	3	N	3	Lailson-Brito / Azevedo - UERJ
KOGIA SP.	S. Atlantic	Teeth, skeleton, muscle, skin, bubbler	1	Y	1	Maria do Socorro Reis / IMA
MELON-HEADED WHALE	Ceará	Skin, blubber, muscle, esophagus, trachea, heart, lungs, stomach, intestines, liver, kidney, spleen, bladder, ovaries, uterus, mammary glands, adrenal, parasites, stomach contents, skeleton, teeth	1	Y	1	Ana Carolina Meirelles/Aquasis
PANTROPICAL SPOTTED DOLPHIN	São Paulo - Southeastern Brazil	Complete skeleton; Skin, blubber and muscle; skull and teeth	1	Y	0	A.R.Santos-Lopes (IPeC)
MELON-HEADED WHALE	S. Atlantic	Teeth, skeleton, muscle, skin, bubbler	1	Y	1	Maria do Socorro Reis / IMA
RISSO'S DOLPHIN	Espírito Santo State	Skin, blubber, lung, intestine, pancreas, liver, kidney, bones,	1	Y	0	Lupércio Barbosa / Instituto ORCA
ROUGH-TOOTHED DOLPHIN	Ceará	Skull	1	Y	0	Ana Carolina Meirelles/Aquasis
ROUGH-TOOTHED DOLPHIN	Ceará	Muscle, blubber, skeleton	1	Y	0	Ana Carolina Meirelles/Aquasis
ROUGH-TOOTHED DOLPHIN	Ceará	Muscle, skeleton	1	Y	0	Ana Carolina Meirelles/Aquasis
ROUGH-TOOTHED DOLPHIN	Espírito Santo State	Skin, blubber, lung, intestine, pancreas, stomach, heart,	1	Y	0	Lupércio Barbosa / Instituto ORCA
ROUGH-TOOTHED DOLPHIN	São Paulo - Southeastern Brazil	Complete skeleton; Skin, blubber and muscle; skull and teeth	1	Y	0	A.R.Santos-Lopes (IPeC)

ROUGH-TOOTHED DOLPHIN	RJ	Kidney, liver, lung, muscle, stomach,, intestine, heart, blubber, skin.	2	Y	2	Lailson-Brito / Azevedo - UERJ
SOUTHERN RIGHT WHALE	South Atlantic	Lung, kidney, liver, heart, mammary gland, pancreas, stomach, adrenal,blubber and skin	3	Y	3	Cristiane Koslenikovas/ R3 Animal
SPERM WHALE	S. Atlantic	-	2	N	2	Maria do Socorro Reis/IMA
SPERM WHALE	South Atlantic	Lung, kidney, liver, heart, pancreas, stomach, blubber, brain and skin	1	Y	-	Cristiane Koslenikovas/ R3 Animal
SPERM WHALE	Ceará	Blubber	1	Y	0	Ana Carolina Meirelles/Aquasis
SPERM WHALE	Ceará	Muscle, parasites, stomach contents	1	Y	0	Ana Carolina Meirelles/Aquasis
SPERM WHALE	Ceará	Muscle	1	Y	0	Ana Carolina Meirelles/Aquasis
SPERM WHALE	Bahia State	Skin; stomach	1	N	0	Milton Marcondes/IBJ
SPINNER DOLPHIN	Ceará	Muscle, stomach contents, blubber, esophagus, trachea, heart, lungs, stomach, intestines, pancreas, liver, kidney, spleen, bladder, ovaries, brain, adrenal, parasites, skeleton	1	Y	0	Ana Carolina Meirelles/Aquasis
SPINNER DOLPHIN	Fernando de Noronha Archipelago	kidney, stomach, muscle, skin, blubber, teeth, liver	3	Y	0	José Martins da Silva Júnior / Centro Mamíferos Aquáticos
STENELLA SP.	S. Atlantic	Head / Teeth, skeleton, muscle, skin, bubbler	2	Y	2	Maria do Socorro Reis / IMA
STRIPED DOLPHIN	São Paulo - Southeastern Brazil	Complete skeleton; Skin, blubber and muscle; skull and teeth	1	Y	0	A.R.Santos-Lopes (IpeC)
GUIANA DOLPHIN	S. Atlantic	skeleton	1	Y	0	CMA/ICMBio
GUIANA DOLPHIN	Sergipe, Bahia, Alagoas	Bubbler, muscles, skin, stomach, heart, skeleton, skull, teeth, intestine, pancreas, spleen, kidney, liver, lung, player	17	Y	5	Jociery E. V. Parente – FMA
CLYMENE DOLPHIN	Sergipe, Bahia	Bubbler, muscles, skin, stomach, heart, skeleton, skull, teeth, intestine, pancreas, spleen, kidney, liver, lung, player	3	Y	2	Jociery E. V. Parente – FMA

DWARF SPERM WHALE	Sergipe	Bubbler, muscles, skin, heart, skeleton, skull, teeth, intestine, kidney, liver, lung, player	1	Y	1	Jociery E. V. Parente – FMA
HUMPBACK WHALE	Sergipe	Bubbler, muscles, skin, stomach, heart, skeleton, skull, teeth, intestine, pancreas, spleen, kidney, liver, lung, player	4	Y	2	Jociery E. V. Parente – FMA
BOTTLENOSE DOLPHIN	Alagoas	skeleton, skull	1	Y	0	Jociery E. V. Parente – FMA
SPERM WHALE	Bahia	Bubbler, skull	1	Y	0	Jociery E. V. Parente – FMA

\*e.g. liver, skin, blubber etc.

#### 4.4 Analyses/development of techniques

The **MAQUA** is performing tests of precision and accuracy of analytical methods for organochlorine determinations in blubber, milk and blood samples of cetaceans.

The **CMA/ICMBio-Fernando de Noronha** is trying to determinate the cause of death in stranding events, inclusive analysing the interaction with fishing activities and boats. Other studies have been in developing in the Fernando de Noronha Archipelago as: anatomic studies, stomach contents and genetic analysis of mtDNA and nuclear DNA sequencing.

#### **IPeC**

**Project 1** – Stomach contents of stranded *Sotalia guianensis* dolphins from São Paulo e Paraná coast are being analysed. (Contact person: Daniel Gómez, IPeC).

**Project 2** - Anatomic studies and genetic analysis of franciscana's incidentally caught in the estuary complex of Iguape-Cananéia-Ilha Comprida, southeastern Brazil, are being conducted (Contact Persons: Emygdio L..A Monteiro Filho, A.R.Santos-Lopes, IPeC ).

**Project 3** – Parasitology research on stranded *Sotalia guianensis* dolphins from São Paulo e Paraná coast are being conducted. (Contact person: Mariana Ebert, IPeC)

**Project 4** – Age estimation studies on stranded *Sotalia guianensis* dolphins from São Paulo e Paraná coast are being conducted. (Contact person: Rebeca Wanderley, IPeC).

**Project 5** – Mortality of cetaceans and incidental capture in fishing nets are being conducted. . (Contact person: Julieta Sanchez-Desvaux, IPeC).

#### **LTMM/FURG**

Age and growth, genetic, pollution and feeding analyses are being carried out.

**FMA** - Determination of cause of death the all cetaceans of the stranding events. That includes analysis of interaction with fishing activities, collect of samples for pollution studies and necropsy examination. Pathology occurring in stranded cetaceans has been investigated. Stomach contents, skeletal morphology and growth has been investigated as well (**Contact person:** Jociery Einhardt Vergara-Parente – Fundação Mamíferos Aquáticos).



## 5. POLLUTION STUDIES

The **AQUASIS** sent tissue samples to Dr. José Lailson Brito Junior, *Laboratório de Mamíferos Aquáticos e Bioindicadores, Universidade do Estado do Rio de Janeiro*, Brazil, to heavy metals and organochlorine analyses.

The **MAQUA** has performed trace elements, organochlorines (PCBs, pesticides, dioxins and furans), organobrominated compounds, determinations in cetacean tissues of the Brazilian and Antarctic waters. Species: *Megaptera novaeangliae*, *Balaenoptera edeni*, *Sotalia guianensis*, *Kogia sima*, *Pontoporia blainvillei*, *Steno bredanensis*, *Tursiops truncatus*, *Delphinus sp.*, *Stenella frontalis*, *Stenella attenuata*, *Lagenodelphis hosei* and *Inia geoffrensis*. They also conducted noise pollution studies with Guiana dolphins.

**IPeC - Project** – Trace metals and organochlorines determinations in cetacean tissues of the São Paulo e Paraná coast (Contact person: Lilian Salgado, IPeC).

**LEC/CEM/ UFPR** - Pollution analysis (both trace metals and organochlorine) samples of *S. guianensis*, *P. blainvillei*, *S. frontalis*, *T. truncatus* are being conducted in association with other research groups (MAQUA/UERJ).

**LTMM/FURG** - Pollution analysis (both trace metals and organochlorine) of samples listed in 4 are being conducted in collaboration with other research groups. Some results are already published (see references).

## 6. STATISTICS FOR LARGE CETACEANS

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

#### IPeC

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Bryde's whales	2	2	A.R.Santos-Lopes (IPeC)	gruporesgate_ipecc@yahoo.com.br

Species	Area/stock	Males	Females	Total	Cause	Methodology
Bryde's whale	São Paulo Southeastern Brazil	-	-	1	Gillnet	Post mortem
Bryde's whale	São Paulo Southeastern Brazil	-	-	1	-	Post mortem
Sperm whale	São Paulo Southeastern Brazil	-	1	-	-	Post mortem

## 6.2 Direct catches of large whales (commercial, aboriginal and scientific permits) for the calendar year 2010 or the season 2010/11

### 6.2.1 Strandings or dead whales encountered at sea

#### LTMM/FURG

Whale species	Sex	Location	Cause of death	Det.	Source or contact institution, contact name and telephone and/or e-mail
1 <i>Balaenoptera acutorostrata</i>	U  U	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749  E-mail: edu.secchi@furg.br
2 <i>Megaptera novaeangliae</i>	1M	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749  E-mail: edu.secchi@furg.br
3 <i>Eubalaena australis</i>	2M	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749  E-mail: edu.secchi@furg.br
1 <i>Berardius arnouxii</i>	U	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749  E-mail: edu.secchi@furg.br
					Same format as above
Comments:					

## 6.3 Anthropogenic mortality of large whales for the calendar year 2010 or the season 2010/11

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

#### PBF/Brasil

Whale species	Sex	No.	Date	Location	Vessel type	Speed	Fate	How observed	Contact person/ institute and refs
Right whale	M	1	17/9/10	Praia do Campo Bom, Jaguaruna, SC	U	U	D*	Stranding Response Team	Karina Groch
*4 cut marks, not fresh.									

### 6.3.2 Fishery bycatch of large whales

## 7. STATISTICS FOR SMALL CETACEANS

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

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Guiana Dolphin	11	11	A.R.Santos-Lopes (IPeC)	gruposgate_ipec@yahoo.com.br
Franciscana	16	16	A.R.Santos-Lopes (IPeC)	gruposgate_ipec@yahoo.com.br
Rough-toothed dolphin	1	1	A.R.Santos-Lopes (IPeC)	gruposgate_ipec@yahoo.com.br
Bottlenose dolphin	1	1	A.R.Santos-Lopes (IPeC)	gruposgate_ipec@yahoo.com.br

### 7.2 Direct catches of small cetaceans for the calendar year 2010 or the season 2010/2011

Species	Type of catch	Area/stock	Males	Females	Total landed	Struck and lost
Guiana Dolphin	Commercial	São Paulo - Southeastern Brazil	3	4	7	2
Franciscana	Artisanal fishing nets	São Paulo - Southeastern Brazil	6	4	10	-

### 7.3 Anthropogenic mortality of small cetaceans for the calendar year 2010 or the season 2010/2011

#### 7.3.1 Strandings or dead SMALL CETACEANS encountered at sea

##### LTMM/FURG

Species	Sex	Location	Cause of death	Det.	Source or contact institution, contact name and telephone and/or e-mail
308 Pontoporia blainvillei	18M; 8F	Southern Brazil	Mostly bycatch		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749  E-mail: edu.secchi@furg.br
15 Tursiops truncatus	9M; 2F	Southern Brazil	At least 1 bycatch		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749  E-mail: edu.secchi@furg.br
1 Lagenodelphis hosei	U	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749  E-mail: edu.secchi@furg.br
2 Phocena spp.	U	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749  E-mail: edu.secchi@furg.br

1 Delphinus	M	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749 E-mail: edu.secchi@furg.br
1 Stenella spp.	U	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749 E-mail: edu.secchi@furg.br
2 Pseudorca crassidens	U	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749 E-mail: edu.secchi@furg.br
2 Stenella frontalis	U	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749 E-mail: edu.secchi@furg.br
8 Steno bredanensis	2M, 2F	Southern Brazil	U		LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900 Contact: Eduardo Secchi  Tel.: ++55-53-32336749 E-mail: edu.secchi@furg.br
Comments:					

### 7.3.2 Fishery bycatch of small cetaceans

#### AQUASIS

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Guiana dolphin	F	1	23/IV/10	04°03'54" S 38°14'21.8" W	D	-	GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	M	1	23/IV/10	04°30'05.4" S 37°43'28.0" W	D	-	GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	28/IV/10	02°54'39.3" S 39°50'50.3" W	D	-	GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	14/V/10		D	-	GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	16/V/10	04°26'04.9" S 37°45'22.2" W	D	-	GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	26/V/10	04°19'40" S 37°55'12.3" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	F	1	04/VI/10		D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	F	1	22/VI/10		D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	26/VII/10	02°86'50.2" S 39°94'29.1" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	09/VIII/10	04°05'06.3" S 38°09'39.4" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	M	1	30/VIII/10		D		GN	M	Ana Carolina Meirelles/Aquasis

Guiana dolphin	-	1	10/IX/10	03°32'47" S 38°49'02.4" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	IX/10		D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	18/IX/10	04°37'86.3" S 37°30'33.4" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	M	1	20/IX/10	04°25'09.9" S 37°46'02.1" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	F	1	24/IX/10	04°49'23.3" S 37°15'25.1" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	21/IX/10	04°41'31.5" S 37°2'16.7" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	M	1	28/X/10	03°10'41.7" S 39°20'45.1" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	M	1	31/X/10	04°14'36.4" S 38°04'57.8" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	M	1	12/XI/10	03°38'17.3" S 38°42'04" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	-	1	13/XI/10	04°06'36.3" S 38°08'31.3" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	M		12/I/11	04°24'23.4" S 37°46'06.1" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Guiana dolphin	M		03/II/11	04°33'05.7" S 37°40'18.3" W	D		GN	M	Ana Carolina Meirelles/Aquasis
Comments: * Meat removed, ** Meat and eyes removed (luck charm)									

### IBJ

Species	Ratio of male to female (if known)	No.	No. extrapolated to fleet total (point estimate)	Range, CI or CV	Date of bycatch	Location (description or lat/long)	FAO statistical area (if known)	FAO area	Fate	Targeted species	Gear	How observed?	Source or contact
Guiana dolphin	2 M; 1 F	3	---		May and June 2010	Bahia and Espirito Santo States	?		D	?	GN	A *	Milton Marcondes / IBJ
* Necropsy of stranded carcass													

### IMA

Species	Ratio of male to female (if known)	No.	No. extrapolated to fleet total (point estimate)	Range, CI or CV	Date of bycatch	Location (description or lat/long)	FAO statistical area (if known)	FAO area	Fate	Targeted species	Gear	How observed?	Source or contact
<i>Stenella clymene</i>	-	1			25/03/2010	Arembepe, Camaçari-BA					GN		Maria do Socorro Reis / IMA
<i>Tursiops truncatus</i>	200	1			28/01/2011	Guarajuba, Monte Gordo- BA (123818 S, 380317 W)					GN		Maria do Socorro Reis / IMA
Comments: Entangled in gear, cut off and sank.													

### MAQUA

Species	Ratio of male to female (if known)	No.	No. extrapolated to fleet total (point estimate)	Range, CI or CV	Date of bycatch	Location (description or lat/long)	FAO statistical area (if known)	FAO area	Fate	Targeted species	Gear	How observed?	Source or contact
Guiana dolphin	1:1	10				Rio de Janeiro				Mugil sp., Centropomus sp., Cynoscytm sp., Anchoa sp., Micropogonias	GN	Fisherman called the lab. To collected animals.	Lailson-Brito / Azevedo - UERJ
Comments:													

### INSTITUTO ORCA

Species	Ratio of male to female (if known)	No.	No. extrapolated to fleet total (point estimate)	Range, CI or CV	Date of bycatch	Location (description or lat/long)	FAO statistical area (if known)	FAO area	Fate	Targeted species	Gear	How observed?	Source or contact
Guiana dolphin	5 M, 3 F and 5 U	13			Between april 2010 and february 2011	Espírito Santo State			D			Net marks in the carcass	Lupércio Barbosa/ Instituto ORCA

### LEC/UFPR

Species	Ratio of male to female (if known)	No.	No. extrapolated to fleet total (point estimate)	Range, CI or CV	Date of bycatch	Location (description or lat/long)	FAO statistical area (if known)	FAO area	Fate	Targeted species	Gear	How observed?	Source or contact
<i>Sotalia guianensis</i>	F	4			18/10/2009	Southern Brazil (coast area)			Dead	<i>Different species of sharks</i>	GND	Landed of boat	LEC/UFPR, Camila Domit E-mail: camila.lec@ufpr.br

### LTMM/FURG

Species	Ratio of male to female (if known)	No.	No. extrapolated to fleet total (point estimate)	Range, CI or CV	Date of bycatch	Location (description or lat/long)	FAO statistical area (if known)	FAO area	Fate	Targeted species	Gear	How observed?	Source or contact
Franciscana						Southern Brazil				Sciaenidae	GNS	logbooks	LTMM-FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900

## 8. STRANDINGS

### AQUASIS

Stranding records were obtained through opportunistic surveys and reports from fishermen, government officials and tourists, most of them as part of the collaboration network established during previous surveys. Some carcasses were also found during awareness campaigns.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Sperm whale	3		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Humpback whale	2		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Guiana dolphin	86		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Fraser's dolphin	1		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Spinner dolphin	1		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Melon-headed whale	1		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Rough-toothed dolphin	3		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Bottlenose dolphin	3		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Bryde's whale	1		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Gervais' beaked whale	1		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Cuvier's beaked whale	2		Ana Carolina Meirelles/ Aquasis	cameirelles@yahoo.com.br
Clymene Dolphin	1	1	Maria do Socorro Reis / IMA	maria@mamiferosaquaticos.org
<i>Stenella</i> sp.	2	2	Maria do Socorro Reis / IMA	maria@mamiferosaquaticos.org
Bottlenose dolphin	2	2	Maria do Socorro Reis / IMA	maria@mamiferosaquaticos.org
Balaenopterideo	1	1	Maria do Socorro Reis / IMA	maria@mamiferosaquaticos.org
Striped Dolphin	1	2 (1 fetus)	Maria do Socorro Reis / IMA	maria@mamiferosaquaticos.org
Melon-headed whale	1	1	Maria do Socorro Reis / IMA	maria@mamiferosaquaticos.org
Humpback whale	1	1	Maria do Socorro Reis / IMA	maria@mamiferosaquaticos.org
<i>Kogia</i> sp.	1	1	Maria do Socorro Reis / IMA	maria@mamiferosaquaticos.org
Guiana dolphin	2	2	Maria do Socorro Reis / IMA	maria@mamiferosaquaticos.org

### IBJ

The IBJ is member of the Brazil Northeastern Stranding Network since 2000. The Marine Mammal Stranding Response Program monitors strandings along the Abrolhos Bank and Northeastern Bahia state since 2002. The veterinary staff perform necropsies whenever is possible in order to investigate the cause of death. Eventually the veterinary staff is required by the Brazilian Environmental Agency (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	39	36	Milton Marcondes/ IBJ	milton.marcondes@baleiajubarte.org.br
Guiana dolphin	9	9	Milton Marcondes/ IBJ	milton.marcondes@baleiajubarte.org.br
Sperm whale	1	1	Milton Marcondes/ IBJ	milton.marcondes@baleiajubarte.org.br
Franciscana	2	2	Milton Marcondes/ IBJ	milton.marcondes@baleiajubarte.org.br

## MAQUA

Strandings have been monitored by one network.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Guiana dolphin	33	0	José Lailson Brito Jr AND Alexandre Azevedo	lailson@uerj.br azevedo.alex@uerj.br
Humpback whale	3	0		
Rough-toothed dolphin	2	0		
<i>Balaenoptera sp.</i>	1	0		

## CMA – Fernando de Noronha

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Spinner Dolphin	3	3	José Martins da Silva Júnior Org.: Centro Golfinho Rotador	rotador@golfinhorotador.org.br

## INSTITUTO ORCA

On 08/23/2010 a specimen of *Megaptera novaeangliae* ran stranded alive in Meaípe beach, municipality of Guarapari, (20° 44' 16.6" S - 40° 32' 30" W) around 5:00 p.m. At 8: 45 p.m. when our team got to the place, the animal had already died. On 10/23/2010 an individual species *Grampus griseus* stranded alive in Ponta da Fruta beach, in the municipality of Vila Velha (20° 31' 37" S - 40° 22' 18" W), however the animal came to death.

Another specimen of *Sotalia guianensis* ran aground alive on 11/10/2010 in Jacaraípe beach in the municipality of Serra (20° 08' 28" S - 40° 10' 57" W), found by residents around 10:00 a.m. The animal had difficulty to maintain buoyancy and swimming, so it was kept in the breaking of the waves. When our team arrived at the place, at 11:30 a.m, we verified that the animal came to death.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Humpback whale	21	21	Lupércio Barbosa / Instituto ORCA	instituto@orca.org.br
Guiana dolphin	23	23	Lupércio Barbosa / Instituto ORCA	instituto@orca.org.br
Risso's dolphin	1	1	Lupércio Barbosa / Instituto ORCA	instituto@orca.org.br
Bottlenose dolphin	2	2	Lupércio Barbosa / Instituto ORCA	instituto@orca.org.br
Rough-Toothed dolphin	1	1	Lupércio Barbosa / Instituto ORCA	instituto@orca.org.br

## PBF/Brasil

Strandings are reported by local authorities direct to the Right Whale Project team or to APA da Baleia Franca (Right Whale Environmental Protection Area). The strandings recorded by the Right Whale Project are reported in conjunction with APA da Baleia Franca/ICMBio, and were included in the Progress Report submitted by that institution.

## GPMAL-UDESC

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Guiana Dolphin	1	1	Daniel Danilewicz/UDESC	daniel.danilewicz@gmail
Humpback whale	1	1	Daniel Danilewicz/UDESC	daniel.danilewicz@gmail
Sperm whale	1	1	Yvonnick Le Pendu/UDESC	yvonnickuesc@gmail.com



## IPeC

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)

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Humpback whale	3	3	Ana Rita dos Santos-Lopes/IPeC	gruporesgate_ipec@yahoo.com.br
Sperm whale	1	1	Ana Rita dos Santos-Lopes/IPeC	gruporesgate_ipec@yahoo.com.br
Common minke whale	1	1	Ana Rita dos Santos-Lopes/IPeC	gruporesgate_ipec@yahoo.com.br
Guiana Dolphin	24	24	Ana Rita dos Santos-Lopes/IPeC	gruporesgate_ipec@yahoo.com.br
Franciscana	30	30	Ana Rita dos Santos-Lopes/IPeC	gruporesgate_ipec@yahoo.com.br
Pantropical spotted dolphin	1	1	Ana Rita dos Santos-Lopes/IPeC	gruporesgate_ipec@yahoo.com.br
Rough-toothed dolphin	1	1	Ana Rita dos Santos-Lopes/IPeC	gruporesgate_ipec@yahoo.com.br
Striped dolphin	1		Ana Rita dos Santos-Lopes/IPeC	gruporesgate_ipec@yahoo.com.br
Bottlenose dolphin	1	1	Ana Rita dos Santos-Lopes/IPeC	gruporesgate_ipec@yahoo.com.br

## UNIVILLE

The stranding reports where completely opportunistic.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Franciscana	5	5	Marta J. Cremer, UNIVILLE	marta.cremer@univille.br
Balaenopteridae	1	1	Marta J. Cremer, UNIVILLE	marta.cremer@univille.br
Humpback whale	1	1	Marta J. Cremer, UNIVILLE	marta.cremer@univille.br

## APA Baleia Franca/ICMBio

The Protect Area (Área de Proteção Ambiental da Baleia Franca – APA da Baleia Franca/ICMBio) is located in southern Brazil, Santa Catarina State, and protects marine and coastal areas of nine Brazilian municipalities, an overall coast line of 130 km. The increasing number of strandings and the need of a consistent and long term way to collect data made the managing authority of this Marine Protected Area (MPA) develop with other partners an overall scheme aiming to establish an accurate reflection of marine mammal strandings patterns and its distribution. The team believed that only this way the information would contribute to an understanding of population shifts or movements and factors underlying natural mortality. Thus, in 2007, began the construction of an unified plan for attending marine mammal strandings within this MPA. Considering a participative methodology, which involves the communities that uses the coastal areas, fishermen, surfers, whale watching

operators, scientific and research institutions among other stakeholders that might be involved in strandings or be the first to notify them to the authorities. Based in other national (REMAB, REMANE e REMASUL) and international protocols, it was developed a new specific and efficient one to the EPA needs.

Species	No. Strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Antarctic minke whale	1	1	Karina Groch/ PBF	karina@baleiafranca.org.br
Southern right whale	3	3	Luciana M. de P Moreira/APA da Baleia Franca/ICMBio Karina Groch/ PBF Cristiane Kolesnikovas/R3Animal	apadabaleiafranca@yahoo.com.br
Humpback Whale	1	1	Luciana M. de P Moreira/APA da Baleia Franca/ICMBio	apadabaleiafranca@yahoo.com.br
Killer Whale	1	1	Morgana Gaidzinsky /UNESC	unidadezoologia@unes.net
Bottlenose Dolphin	4	1	Luciana M. de P Moreira/APA da Baleia Franca Morgana Gaidzinsky /UNESC	apadabaleiafranca@yahoo.com.br unidadezoologia@unes.net
Sperm Whale	1	1	Luciana M. de P Moreira/APA da Baleia Franca/ICMBio Karina Groch/ PBF Cristiane Kolesnikovas/R3Animal	apadabaleiafranca@yahoo.com.br
Franciscana	3	3	Luciana M. de P Moreira/APA da Baleia Franca/ICMBio Karina Groch/ PBF	apadabaleiafranca@yahoo.com.br karina@baleiafranca.org.br

### LEC/UFPR

Systematic beach and island weekly surveys are conducted along coast of Paraná State (approximately 40km on the beach areas and 50 km on the islands), southern Brazil, aiming to record and collect samples from stranded marine mammals. For further information, contact Camila Domit: Laboratório de Ecologia e Conservação, Centro de Estudos do Mar, Universidade Federal do Paraná. Cx. Postal 50.002, Pontal do Paraná - PR, Brasil,

Species	No. Strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Franciscana	2	2	LEC/CEM/UFPR	camila.lec@ufpr.br
Guiana Dolphin	18	18	LEC/CEM/UFPR	camila.lec@ufpr.br
Bottlenose dolphin	1	1	LEC/CEM/UFPR	camila.lec@ufpr.br
<i>Balaenoptera sp.</i>	2	2	LEC/CEM/UFPR	camila.lec@ufpr.br
Humpback Whale	2	2	LEC/CEM/UFPR	camila.lec@ufpr.br

### CMA/ICMBio – AL

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Humpback Whale	1	?	Iran Normande. CMA/ICMBio/AL	iran.normande@icmbio.gov.br
Sperm Whale	1	?	Iran Normande. CMA/ICMBio/AL	iran.normande@icmbio.gov.br
Guiana Dolphin	1	?	Iran Normande. CMA/ICMBio/AL	iran.normande@icmbio.gov.br

## LTMM/FURG

Systematic weekly beach surveys are conducted along the ca. 400Km central and southern coast of Rio Grande do Sul State, southern Brazil aiming to record and collect samples from stranded marine mammals. For further information, contact Eduardo Secchi: Laboratório de Tartarugas e Mamíferos Marinhos, Instituto de Oceanografia e Museu Oceanográfico “Prof. E.C. Rios”; Universidade Federal do Rio Grande – FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900; E-mail: edu.secchi@furg.br

## FMA

Systematic beach surveys to recovery marine mammals carcasses have been conducted in about 275 km of sand beaches, between Conde - BA (29°S, 49°43'W) and Alagoas (31°15'S, 50°54'W). Data collection of samples follows the Aquatic Mammals Stranding Protocol of REMANE (IBAMA, 2005). The veterinaries and biology staff perform necropsies whenever is possible in order to investigate the cause of death. Further studies conducted include trace metals and organochlorines determinations in cetacean tissues

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Guiana dolphin	17	0	Jociery E. V. Parente – FMA	jociery.parente@mamiferosaquaticos.org.br
Clymene dolphin	3	2	Jociery E. V. Parente – FMA	jociery.parente@mamiferosaquaticos.org.br
Dwarf sperm whale	1	0	Jociery E. V. Parente – FMA	jociery.parente@mamiferosaquaticos.org.br
Humpback whale	4	0	Jociery E. V. Parente – FMA	jociery.parente@mamiferosaquaticos.org.br
Bottlenose Dolphin	1	0	Jociery E. V. Parente – FMA	jociery.parente@mamiferosaquaticos.org.br
Sperm whale	1	0	Jociery E. V. Parente – FMA	jociery.parente@mamiferosaquaticos.org.br

## 9. OTHER STUDIES AND ANALYSES

### Project IBJ

#### Humpback Whale

Bioacoustic studies were conducted to recording humpback whales songs and anthropogenic noises (whale-watching and artisanal fishing boats; ship traffic; oil platform operation) in Bahia, Espírito Santo and Sergipe states. Contact person/institute: Marcos Rossi-Santos/IBJ.

### PBF/Brasil

#### Southern right whale

Monitoring of the occurrence and movements of right whales, during the constructions in the Port of Imbituba (SC).

### GPMAI-UDESC

An etnobiological study of local fishermen knowledge and interactions with *Sotalia guianensis* is actually conducted in Canavieiras. Bioacoustic records of Humpback whales were conducted in collaboration with Marcos Rossi-Santos/IBJ.

**LEC/CEM/UFPR** is conducting studies on the effect of noise by recreational boats, ships and activities of ports on the population of *Sotalia guianensis* in Paraná State, southern Brazil.

**LEC/CEM/UFPR** is conducting studies on the effect artisanal fisheries (Bycatch) on the cetaceans of Paraná State, southern Brazil.

**LEC/CEM/ UFPR** is monitoring the coastal area of Paraná (until 30 meter of deeper) to analyze the cetaceans distribution.

## FMA

Study about osteological variation, growth and physical maturity of delphinidae stranded, analysis and tympanic bulla and nandadeira pectoral has been developed

## 10. LITERATURE CITED

### 11. PUBLICATIONS

Monteiro-Filho, E.L.A. and Monteiro, K.D.K.A. (Orgs.). 2008 *Biologia, Ecologia e Conservação do Boto-Cinza*.

#### 11.1 Published or 'In Press' papers only

Aguayo-Lobo, A., Acevedo, J., Brito, J.L., Acuna, P., Bassoi, M., Secchi, E. R., Dalla Rosa, L. (in press). Presence of the leopard seal, *Hydrurga leptonyx* (de Blainville, 1820), on the coast of Chile: an example of the Antarctica - South America connection in the marine environment. *Oecologia Brasiliensis*.

Andriolo, A.; Kinas, P.G.; Engel, M.H.; Martins, C.C.A.; Rufino, A.M. (2010). Humpback whales within the Brazilian breeding ground: distribution and population size estimate. **Endangered Species Research** 11: 233–243

Azevedo, Alexandre F., FLACH, L., Bisi, Tatiana L., Andrade, Luciana G., Dorneles, Paulo R., Lailson-Brito, J. Whistles emitted by Atlantic spotted dolphins (*Stenella frontalis*) in southeastern Brazil. The Journal of the Acoustical Society of America. , v.127, p.2646 - , 2010.

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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>	