

# Brazil Progress report on cetacean research, March 2006 to February 2007, with statistical data for the *calendar year 2006* or season 2006/2007

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## 1. SPECIES AND STOCKS STUDIED

IWC Common name	IWC recommended scientific name	Area/stock(s)	Items referred to
Common minke whale	<i>Balaenoptera acutorostrata</i>	Rio de Janeiro, São Paulo, Ceará, Bahia and Espírito Santo (including Abrolhos bank), Campos and Santos Basins and South Atlantic Ocean	2.1.2, 2.2, 4.3, 5, 6.2.1, 8, 11.2
Antarctic minke whale	<i>Balaenoptera bonaerensis</i>	South Atlantic Ocean	2.1.2
Sei whale	<i>Balaenoptera borealis</i>	Santos Basin	2.1.2, 11.2
Bryde's whale	<i>Balaenoptera brydei</i>	South Atlantic Ocean	2.1.2
Bryde's whale	<i>Balaenoptera edeni</i>	Rio de Janeiro, São Paulo, Campos and Santos Basins	2.1.1, 2.1.2, 4.3, 5, 6.3.2, 8, 11.2
Fin whale	<i>Balaenoptera physalus</i>	Bahia (Camamu, Almada Basins), Scotia sea (AII)	2.1.2, 11.2
Minke whale	<i>Balaenoptera spp.</i>	Bahia (Camamu), Almada, Espírito Santo, Jequitinhonha, Campos and Santos Basins,	2.1.2, 11.2
Common dolphin	<i>Delphinus sp**</i>	Rio de Janeiro, Campos and Santos Basins	2.1.2, 5, 11.2
Southern right whale	<i>Eubalaena australis</i>	Bahia (Abrolhos bank), Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul and Scotia sea (AII)	2.1.1, 2.1.2, 3.1.1, 3.2, 4.1, 4.3, 9, 10, 11.1, 11.2
Pygmy killer whale	<i>Feresa attenuata</i>	Pará, Maranhão, Bahia and Campos Basins	2.1.2, 11.2
Risso's dolphin	<i>Grampus griseus</i>	São Paulo, Bahia (Camamu, Almada), Espírito Santo, Campos and Santos Basins	2.1.1, 2.1.2, 11.2
Short-finned pilot whale	<i>Globicephala macrorhynchus</i>	Fernando de Noronha, Pernambuco, Pará, Maranhão, Campos and Santos Basins, and South Atlantic Ocean	2.1.2, 4.3, 7.1, 8, 11.2
Pilot whale	<i>Globicephala spp.</i>	Jequitinhonha, Campos and Santos Basins	2.1.2, 11.2
Amazon river dolphin	<i>Inia geoffrensis</i>	Amazonas	5
Dwarf sperm whale	<i>Kogia simus</i>	Rio de Janeiro, Bahia	4.3, 5, 8
Fraser dolphin	<i>Lagenodelphis hosei</i>	Rio de Janeiro	5

Humpback whale	<i>Megaptera novaeangliae</i>	Stock A: São Paulo, Pernambuco, Rio de Janeiro, Pará, Maranhão, Sergipe, Alagoas, Bahia and Espírito Santo (including Abrolhos bank), Jequitinhonha, Campos and Santos Basins and Scotia sea (AII); Stock G: the Antarctic and South Atlantic Oceans (AI and II)	2.1.1, 2.1.2, 2.2.3.1.1, 3.1.3, 4.1, 4.3, 5, 6.2.1, 8, 9, 11.2
Orca	<i>Orcinus orca</i>	Rio de Janeiro, Bahia (Camamu, Almada), Espírito Santo, Campos and Santos Basins, Scotia sea (AII).	2.1.2, 5, 11.2
Melon-headed whale	<i>Peponocephala electra</i>	Fernando de Noronha, Rio Grande do Norte, Bahia (Camamu, Almada), Espírito Santo Basins.	2.1.1, 2.1.2, 4.3, 8, 7.1, 11.2
Sperm whale	<i>Physeter macrocephalus</i>	Pernambuco, São Paulo, Maranhão, Bahia, Jequitinhonha, Espírito Santo, Campos and Santos Basins, and South Atlantic Ocean	2.1.2, 4.3, 6.2, 6.2.1, 8, 11.2
Franciscana	<i>Pontoporia blainvillei</i>	Rio de Janeiro, São Paulo, Santa Catarina, Rio Grande do Sul	2.1.1, 2.1.2, 3.1.2, 4.2, 4.3, 4.4, 5, 7.3.1, 7.3.2, 8, 9, 11.1
False killer whale	<i>Pseudorca crassidens</i>	Sergipe, Alagoas and Santos Basins	2.1.2, 11.2
Freshwater tucuxi	<i>Sotalia fluviatilis</i>	Amazonas	5
Marine tucuxi (estuarine dolphin, gray dolphin)	<i>Sotalia guianensis*</i>	Rio de Janeiro, Ceará, Campos Basins, São Paulo, Espírito Santo, Bahia, Sergipe, Pernambuco and Rio Grande do Norte	2.1.1, 2.1.2, 2.2, 3.1.1, 4.2, 4.3, 4.4, 5, 7.2, 7.3.1, 7.3.2, 8, 9, 11.1, 11.2
Pantropical spotted dolphin	<i>Stenella attenuata</i>	Fernando de Noronha, Rio Grande do Norte, Pará, Maranhão, Ceará, Sergipe, Alagoas, Bahia, Espírito Santo, Campos and Santos Basins, and South Atlantic Ocean	2.1.1, 2.1.2, 2.2, 4.3, 7.1, 7.2, 8, 9, 11.2
Clymene dolphin	<i>Stenella clymene</i>	Rio Grande do Norte, Bahia, Sergipe, Alagoas, Pernambuco, Campos and Santos Basins, and South Atlantic Ocean	2.1.2, 4.3, 7.2, 8, 11.2
Striped dolphin	<i>Stenella coeruleoalba</i>	Rio de Janeiro, Ceará	4.3, 4.4, 5
Atlantic spotted dolphin	<i>Stenella frontalis</i>	Rio de Janeiro, Ceará, São Paulo, Espírito Santo, Campos and Santos Basins, and South Atlantic Ocean	2.1.2, 4.3, 4.4, 5, 11.2
Spinner dolphin	<i>Stenella longirostris</i>	São Paulo, Pernambuco, Rio Grande do Norte, Fernando de Noronha, Pará, Maranhão, Sergipe, Alagoas, Bahia (Camamu, Almada, Mucuri), Jequitinhonha, Espírito Santo, Campos and Santos Basins, and South Atlantic Ocean	2.1.1, 2.2, 2.1.2, 3.1.1, 3.2, 4.3, 4.4, 7.1, 7.3.1, 8, 9, 11.2
Spotted dolphin	<i>Stenella sp</i>	Pará, Maranhão, Bahia, Espírito Santo, Campos and Santos Basins.	2.1.2, 8, 11.2

Rough-toothed dolphin	<i>Steno bredanensis</i>	São Paulo, Rio de Janeiro, Rio Grande do Norte, Ceará, Bahia (including Camamu, Almada, Mucuri), Espírito Santo Basins.	2.1.1, 2.1.2, 2.2, 4.3, 7.3, 7.3.1, 8, 11.2
Bottlenose dolphin	<i>Tursiops truncatus</i>	Rio Grande do Sul, Rio de Janeiro, São Paulo, Pará, Maranhão, Rio Grande do Norte, Ceará, Pernambuco, Paraíba, Bahia (including Camamu, Almada, Mucuri), Jequitinhonha, Espírito Santo, Campos and Santos Basins, and South Atlantic Ocean	2.1.1, 2.1.2, 2.2, 3.1.1, 4.1, 4.3, 5, 7.3.1, 8, 11.2
Beaked whale	Ziphiidae family	Campos and Santos Basins	2.1.2, 11.2
Cuvier's beaked whale	<i>Ziphius cavirostris</i>	Fernando de Noronha	7.1
Hourglass dolphin	<i>Lagenorhynchus cruciger</i>	Scotia Sea	2.1.2
Strap-toothed whale	<i>Mesoplodon layardii</i>	Scotia Sea	2.1.2

\* Monteiro-Filho *et al.* 2002; Cunha *et al.* 2005. \*\* *Delphinus delphis* and *D. capensis* were grouped as *Delphinus. sp* due to divergences in the occurrence/identification of both the species in the Brazilian coast.

## 2. SIGHTINGS DATA

### 2.1 Field work

#### 2.1.1 Systematic

The **R** letter preceding each project makes reference to the Progress Report filled out by the Brazilian Institutions.

## MISTICETI

### Bryde's whale – *Balaenoptera edeni*

**R4 Institution** – Three Bryde's whales were surveyed in São Paulo, southeastern Brazil, during sighting cruises. The sightings occurred at a distance of 25 to 30 miles from the coast. (Contact: Ana Rita dos Santos-Lopes, IPeC).

**R5 Institution** - Studies on occurrence, distribution and behaviour of Bryde's whales were developed during cruises on the oceanographic vessel *Prof Wladimir Besnard* (Oceanographic Institute/São Paulo University-IOUSP) in autumn/2006 (April – 110.00 n.miles). The route was previously established by ECOSAN Project, developed by that Institute along the south-eastern Brazilian coastal region at different distances from the coast until the isobath 100m. During these cruises, no Bryde's whales occurred, what can be associated to the fact that in this season, in coastal areas, the species is not very frequent. This information, together with sightings recorded during the past year, contributes to define seasonality and behaviour of Bryde's whales in coastal areas, which are still unknown (Gonçalves, 2006) (Contact: Leandra Regina Gonçalves & Mabel Augustowski - Bryde's Whale Project/Brazil).

### Southern right whale – *Eubalaena australis*

**R4 Institution** – Two southern right whales were surveyed in São Paulo State, southeastern Brazil, during sighting cruises. The sightings occurred at a distance of 5 miles from the coast. Two whales have also been sighted, including their calves, from land observations. (Contact: Ana Rita dos Santos-Lopes, IpeC).

**R6 Institution** - 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 (Palazzo *et al.*, 1999; Groch, 2005; Groch *et al.*, 2005a; Groch *et al.*, 2005b) and from shore in 16 observation stations covering about 100km of coastline in Santa Catarina State (Groch *et al.* 2003; Groch, 2005; Correa, 2006; Correa and Groch, K.R. 2006; Parmejane and Groch, 2006), and 15 km in the north of Rio Grande do Sul State (De-Rose-Silva, R. e Minossi-Silva, F. 2006). A total of 2755 whales including 1111 calves (includes double counting and juveniles) were sighted during land-based surveys (Groch, unpublished). From four aerial surveys conducted from July to October (one per month), we had 162 sightings totalizing 335 individuals, of which 85 were calves and 7 were juveniles (includes double counting) (K.R. Groch and J.T. Palazzo Jr., unpublished). A total of 98 different individuals were counted in one day in September, during the aerial survey which took 2 days to be completed due to the record number of whales (totalizing 194 individuals) (Contact: Karina Groch/IWC/Brazil).

### **Humpback whale- *Megaptera novaeangliae***

**R4 Institution** - Humpback whales have also been sighted during boat surveys in São Paulo State, southeastern Brazil, during sighting cruises. One of the whales had a brief interaction with bottlenose dolphins. The sightings occurred at a distance of 25 to 30 miles from the coast (Contact: Ana Rita dos Santos-Lopes, IPeC).

**R12 Institution** – Scientific cruises were done between October and December 2006 for determining the occurrence of humpback whales (*Megaptera novaeangliae*) in the whole Northeastern shore. In the 7 scientific cruises, it was sighted 5 groups of humpback whales, which 3 of them were calves. Other species were registered opportunistically (Contact: Priscila Medeiros – PPC/UFRN).

**R15 Institution - Project 1** – Photo-identification, behavioural ecology and biopsy sampling 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, 1102 humpback whales, including 175 calves, were detected during 2642,1 nautical miles of boat surveys (274 hours of effort). During land base station survey at Salvador City 313 humpback whales were sighted including 35 calves, during 91 one-hour scans. In northern Bahia 317 humpback whales were sighted, including 33 calves during 266,62 hours of boat surveys and 316 whales were sighted, including 33 calves during whale watching trips. (Contact persons: Clarêncio Baracho & Milton Marcondes Instituto Baleia Jubarte).

**Project 2** - Photo-identification, behavioural ecology and biopsy sampling of humpback whales have been carried out from on board surveys in South Georgia during January to March 2006. Two animals were found.

### **ODONTOCETI**

#### **Bottlenose dolphin – *Tursiops truncatus***

**R8 Institution** - Systematic surveys are conducted for determining habitat use patterns and abundance of common bottlenose dolphins in the Patos Lagoon estuary, southern Brazil (Contact: Eduardo Secchi - LMM/FURG).

**R9 Institution** - Systematic surveys were 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 was conducted to study the occurrence of bottlenose dolphins, *Tursiops truncatus*, in the area and understand the impact of boat traffic and environmental factors on their activities. Animals were observed during the whole year in the area (Contact: André Barreto – CTTMar/UNIVALD).

#### **Marine Tucuxi - *Sotalia guianensis***

**R1 Institution** - Project 1 conducted studies on photo-identification, bioacoustic and behaviour of estuarine dolphin, *Sotalia guianensis*, in Guanabara Bay, Rio de Janeiro, RJ. (Contact: José Lailson Brito Jr. or Alexandre de Freitas Azevedo – MAQUA).

**R4 Institution** – Project 3 - Photo and video-identification, behaviour, age identification, reproductive biology, feeding ecology, population density and systematic studies of estuarine dolphin (*Sotalia guianensis*) have been conducted on a regular basis from land and boat based sightings in the estuary complex of Iguape – Paranaguá and Ubatuba (São Paulo, southern Brazil) and in Guaraqueçaba, Paranaguá Bay and Guaratuba Bay (Paraná, southern Brazil). Regular beach surveys of stranded estuarine dolphins have also been carried out in São Paulo, southeastern Brazil (Contact: Ana Rita dos Santos-Lopes, IPeC).

**R12 Institution** - *Projeto Pequeno Cetáceos* (PPC-UFRN) is monitoring the behavior (foraging strategy, aerial activities, locomotion, permanency, group size and composition) of marine tucuxi (*Sotalia guianensis*) from an observation point on a cliff in Pipa Beach (Tibau do Sul), Baía Formosa Beach and Tabatinga Beach (Nísia Floresta), in Rio Grande do Norte State (Northeastern Brazil). Photo-identification studies of marine tucuxi are being conducted in Pipa Beach from vessels and from beach (QUEIROZ, 2006; GONDIM, 2006; ANANIAS, 2006; SILVEIRA, 2006; GARRI, 2006; NASCIMENTO, 2006; PANSARD, MEDEIROS, ANANIAS, GARRI, GONDIM & YAMAMOTO, 2006; QUEIROZ, GARRI, & YAMAMOTO, 2006; QUEIROZ, TOSI & FERREIRA, 2006; TOSI & FERREIRA, 2006) (Contact: Priscila Medeiros – PPC/UFRN).

**R15 Institution - Project 1** - During an effort of more than 158 hours with 24 hours of direct observation, and 25 one-day surveys, *Sotalia guianensis* were monitored by boat cruises in 2006/2007, aiming population dynamics, through photoidentification technique, behavioural ecology and bioacoustics in the southern coast of Bahia State, northeastern Brazil. (Contact person: Leonardo L. Wedekin, Instituto Baleia Jubarte).

**R16 Institution – Project 1** - The Instituto Mamíferos Aquáticos has conducted regular systematic land-base sightings and also, monthly 12 day cruise in the estuary of Paraguaçu river (baía de Todos os Santos), Northeastern coast, to study behavioural ecology of *Sotalia guianensis* and photo-identification;

**Project 2** -The Instituto Mamíferos Aquáticos has been conducting a monitoring of *Sotalia guianensis* 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.

#### **Franciscana - *Pontoporia blainvillei***

**R4 Institution** - Project 4 - Anatomic studies of franciscanas incidentally caught in gillnets are being conducted off the coast, nearby the estuary complex of Iguape-Cananéia-Ilha Comprida - southeastern and southern Brazil since 2000. Regular beach surveys for stranded franciscanas have also been carried out in São Paulo, southeastern Brazil. (Contact: Ana Rita dos Santos-Lopes, IPeC ).

#### **Spinner dolphin – *Stenella longirostris***

**R7 Institution** - Behavioural ecology, population density, photo and video-identification, interactions with whalewatching boats, ethnobiology, bioacoustic and biopsy sampling studies of spinner dolphin have been conducted on a regular basis from land (305 days - 3008 hours), in snorkelling and skin diving (36 days - 27 hours) and boat-based sightings (40 days - 115 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: José Martins da Silva Júnior / Centro Golfinho Rotador).

#### **GENERAL CETACEANS**

**R4 Institution** - Project 1 - Studies of stranded cetaceans along the southern coast of the São Paulo State, and in the estuary complex of Iguape-Cananéia-Ilha Comprida - southeastern Brazil, and Parana State, southern Brazil has been conducted the whole year with a constant monitoring of small animals, and intensively during whale’s migration season. Project 2 - Opportunistic sightings, video-identification, behavior and bioacoustic studies of cetaceans along São Paulo State, southeastern Brazil, and Parana State, southern Brazil, has also been conducted. These efforts will contribute for more information about the animals that visit the region. (Contact: Ana Rita dos Santos-Lopes, IPeC).

**R15 Institution - Project 1** – On January/2007 begins surveys to monitoring the occurrence of cetaceans close to an oil platform in the south border of Abrolhos Bank, during the perforation. It was observed groups of *Tursiops truncatus*; *Stenella longirostris*; *Stenella attenuata*; *Grampus griseus*; *Peponocephala electra* and *Steno bredanensis* (Contact: Clarêncio Baracho).

#### *2.1.2 Opportunistic, platforms of opportunity*

The **R** letter preceding each project makes reference to the Progress Report filled out by the Brazilian Institutions.

**R1 Institution** - There were opportunistic sightings from ships of the Brazilian Navy and other vessels of *Orcinus orca*, *Tursiops truncatus*, *Eubalaena australis*, *Balaenoptera acutorostrata*, *Balaenoptera edeni*, *Stenella frontalis*, *Stenella longirostris* and *Grampus griseus*. (Contact: José Lailson Brito Jr. or Alexandre de Freitas Azevedo – MAQUA).

**R2 Institution** – The table below shows sightings of cetaceans during seismic surveys of PGS Investigação Petrolífera LTDA. Along Brazilian coast (01°21’N-27°10’S). During October 2001 to February 2007, 21.000 hours were spent watching for marine mammals. In the period were traveled 37 blocks licensed of Oil and Gas Industry, at 4,5 until 240km of the coast, with 50 to 3000m of depth, between Pará-Maranhão (01°40’N) and Santos (27°54’S) Basins. The bridge was used as the observation platform and was located 20m above the surface. Brazilian environmental technicians (biologists, oceanographers and veterinarians) onboard of the seismic vessels, supply vessel and assistant boats record and identify the cetaceans during daylight. Sightings made continuously during daylight by observers of the seismic vessel (with air-guns) were considered “on effort”. Those occasional recorded by observers of the supply and assistant vessels (without air-guns) or ship’s crew were considered “off effort”. Studies on species’s distribution and behavioural reactions to seismic source have been conducted from data base sightings (Contact: Renata Ramos, Everest).

Common name	Scientific name	Present Progress Report (March 2006 to February 2007)	Earlier year’s data (October 01 to February 06)
Cetacean not identified	Cetacea	22	23
Humpback whale	<i>Megaptera novaeangliae</i>	65	115
Common minke whale	<i>Balaenoptera acutorostrata</i>	9	12
Minke whale	<i>Balaenoptera</i> sp	2	13
Bryde’s whale	<i>Balaenoptera</i> sp	0	5

Fin whale	<i>Balaenoptera physalus</i>	0	5
Sei whale	<i>Balaenoptera borealis</i>	0	1
Rorqual	<i>Balaenoptera</i> sp.	6	53
Sperm whale	<i>Physeter macrocephalus</i>	20	57
Beaked-whale	Ziphiidae	0	2
Short-finned pilot whale	<i>Globicephala macrorhynchus</i>	0	4
Pilot whale	<i>Globicephala</i> sp.	1	6
Melon-headed whale	<i>Peponocephala electra</i>	0	3
Risso's dolphin	<i>Grampus griseus</i>	5	10
Killer whale	<i>Orcinus orca</i>	1	7
False killer whale	<i>Pseudorca crassidens</i>	0	3
Pygmy killer whale	<i>Feresa attenuata</i>	0	2
Blackfish	Not identified	0	8
Bottlenose dolphin	<i>Tursiops truncatus</i>	5	71
Spinner dolphin	<i>Stenella longirostris</i>	8	50
Clymene dolphin	<i>Stenella clymene</i>	2	5
Pantropical spotted dolphin	<i>Stenella attenuata</i>	4	33
Atlantic spotted dolphin	<i>Stenella frontalis</i>	6	34
Spotted dolphin	<i>Stenella</i> sp	0	15
<i>Stenella</i> not identified	<i>Stenella</i> sp.	17	43
Common dolphin	<i>Delphinus delphis</i>	1	1
Rough-toothed dolphin	<i>Steno bredanensis</i>	1	5
Marine tucuxi	<i>Sotalia guianensis</i>	0	2
Delphinidae not identified	Delphinidae	32	149
Dolphin not identified	Odontoceti	0	13
<b>Total (1021)</b>		<b>229</b>	<b>792</b>

**R3 Institution** – There were opportunistic sightings of marine tucuxi (*Sotalia guianensis*) from land observation sites at Mucuripe Embayment, Fortaleza, Ceará (Contact: Cristine Negrão Silva/AQUASIS).

**R4 Institution** - Cetacean species have been observed in São Paulo, southeastern Brazil, and in Parana, southern Brazil, during sighting cruises. The species sighted were *Stenella frontalis*, *Tursiops truncatus*, *Steno bredanensis* and *Orcinus orca*. (Contact: Ana Rita dos Santos-Lopes, IPeC).

**R5 Institution** - Opportunistic sightings of Bryde's whales during dive tour operations have been recorded along the coast of São Paulo State, southeastern Brazil since 2003, mainly close to Laje de Santos State Marine Park (24°19'S; 046°10'W). Twelve individuals were recorded during ten opportunistic sighting trips in 2006 and 2007 (respectively March – December/2006 and January – February/2007) with feeding behaviour being observed in most of them. These results showed that Bryde's whales tend to concentrate in Laje de Santos State Marine Park for feeding purposes mainly during the summer season (Gonçalves, 2006). Data were collected either by Bryde's whales researchers as by dive operators – who had previously undergone a training course, organized by the Bryde's Whale Project, so as to be able to identify the species, to record sightings and to operate their boats correctly while approaching to whales. These data and some previous recordings are also being used to evaluate the potential for whale-watching tourism at Laje de Santos State Marine Park. Training courses are being developed too since October/2006 on the north coast of São Paulo State, where sighting efforts are being extended to other marine protected areas in 2007, once trained local fishermen have been reporting occasional occurrences of Bryde's whales close to protected islands (Contact: Leandra Regina Gonçalves & Mabel Augustowski - Bryde's Whale Project/Brazil).

**R7 Institution** - 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) (Contact: José Martins da Silva Júnior / Centro Golfinho Rotador).

**R9 Institution** - Opportunistic sightings have been made by researchers and students in oceanographic cruises. Also, a large number of sightings were obtained from observers assigned to fishery vessels. The area covered by these sightings spans from 15°S to 38°S and from 9°W to 52°W. Even though the quality of the identifications is less than ideal, the sightings obtained allow the identification of areas with higher cetacean densities, which should be further investigated in the future (Contact: André Barreto – CTTMar/UNIVALI).

**R10 Institution** - Cetacean observations were conducted from seismic vessels at Santos Basin (23°00'S to 27°50'S; 41°23'W to 48°35'W ). The following species were seen: humpback, dwarf minke, Antarctic minke, Bryde's, sperm and pilot whales; bottlenose, pantropical spotted, Atlantic spotted, spinner and Clymene dolphins (Contact: Andrea Carneiro and Sérgio Moreira, Instituto Aqualie, Rio de Janeiro, RJ).

**R12 Institution** – Several species of cetaceans were sighted during the cruises: *Sotalia guianensis* (2 groups, n=3), *Steno bredanensis* (2 groups, n=5), *Tursiops truncatus* (8 groups, n=23), *Stenella longirostris* (1 group, n=6), *Stenella* sp (1 group, n=4) and *Balaenoptera acutorostrata* (1 group, n=2). *Projeto Pequenos Cetáceos* also attends strandings of cetaceans in the oriental portion of the Rio Grande do Norte State, from São Miguel do Gostoso Beach (05° 06' 43,0" S e 035° 40' 11,8" W) to Sagi Beach (06° 28' 47,7" S e 034° 58' 19,7" W ) (Contact: Priscila Medeiros – PPC/UFRN).

**R14 Institution** - Opportunist land and boat based sightings mainly of franciscanas and marine tucuxi were registered in Ubatuba. Data sheets and disposable photographic cameras were distributed to fishermen operating mainly from the loading dock in Santos, SP and opportunistic cetacean's sightings were recorded by fishermen and occasionally by on-board observers. Fishing boats operated from Rio de Janeiro to São Paulo State in depths ranging from 10 to 740m, but the bulk of the fishery takes place in shallower waters (depths 10-30m). The recorded species were *Stenella frontalis*, *S. guianensis*, *P. blainvillei*, *Stenella longirostris*, *Steno bredanensis*, *Delphinus* sp. and a balaenopterid whale (Contact: Mariana B. Alonso, BioPesca).

**R15 Institution - Project 1** - During 2006 humpback whale survey in Bahia and Espírito Santo States it was sighted 03 groups of Southern right whale, 14 groups of Tucuxi, 08 groups of Rough-Toothed dolphins, 04 groups of Bottlenose Dolphin, 02 group of Minke whale and 03 groups of non-identified cetaceans. The data were collected by Scientists of Humpback Whale Institute. (Contact person: Milton Marcondes).

**R15 Institution - Project 2** - Opportunistic sightings and photo-identification of Bottlenose dolphin, Tucuxi, Rough Toothed dolphins, Pygmy Killer Whale and Common Minke Whale have been made from boat surveys during the humpback whale surveys in northern Brazil. (Contact person: Clarêncio Baracho, Instituto Baleia Jubarte.)

**R15 Institution - Project 3** - Opportunistic sightings and photo-identification of humpback whale have been made from whale watching boats in the north coast of Bahia State. It was made 57 cruises with 228 humpbacks whales sightings and 20 photo-identifications. Also was observed groups of *Tursiops truncatus*, *Sotalia fluviatilis* and *Steno bredanensis* (Contact person: Sergio Cipolotti, Instituto Baleia Jubarte.)

**R15 Institution - Project 4** - Opportunistic sightings and photo-identification of Southern right whale, Fin whale, Killer whale, hourglass dolphin and Strap-toothed whale have been made from boat surveys during the humpback whale survey in South Georgia, Scotia Sea. (Contact person: Clarêncio Baracho, Instituto Baleia Jubarte.)

## 2.2 Analyses/development of techniques

**R7 Institution** - In this period, about five hundred spinners dolphins were identified based on dorsal fin shape and scars. On 98,70% of the days of the period, spinner dolphins groups ranging from 13 to 1540 (mean=448.93; SD±310,07; N=305) entered in the Dolphins Bay at National Marine Park Fernando de Noronha (J.M. Silva-Jr., unpublished) to rest, reproduce, take care of their babies or look for protection from shark attacks (Silva-Jr. *et al*, 2005). During land-based station (305 days - 3008 hours) and boat-based sightings (40 days - 115 hours) in the Fernando de Noronha Archipelago, it was sighted 16 humpback whales (7 mother and calf) and 22 pantropical spotted dolphins (Contact: José Martins Silva Jr. – Centro Golfinho Rotador - CGR).

**R9 Institution** - A webGIS system (SIMMAM – System for Marine Mammal Monitoring) is in use to visualize data from fishery observers (Barreto *et al.*, 2004) and strandings. Its database is also being fed with information of sighting and stranding obtained from papers and scientific meetings. At the moment the database holds records of 1373 sightings, 708 strandings and 86 incidental captures (one record may be relative to more than one animal). Numbers of records in the SIMMAM database of mysticetes are shown in the table below. While the unpublished data is only available for the users that have uploaded the information, data from published sources is available to the public at "<http://siaiacad09.univali.br/simmam/>". An agreement with IBAMA was signed in early April to allow access of the system by the agency (Contact: André Barreto – CTTMar/UNIVALI).



Records of mysticetes in the SIMMAM database (Contact: André Barreto – CTTMar/UNIVALI).

Species	Common name	Number of records in the database
<i>Balaenoptera acutorostrata</i>	Common minke whale	71
<i>Balaenoptera bonaerensis</i>	Antarctic minke whale	1
<i>Balaenoptera borealis</i>	Sei whale	5
<i>Balaenoptera edeni</i>	Bryde's whale	55
<i>Balaenoptera musculus</i>	Blue whale	2
<i>Balaenoptera physalus</i>	Fin whale	11
<i>Balaenoptera sp.</i>	Unidentified rorqual	14
<i>Eubalaena australis</i>	Southern right whale	63
<i>Megaptera novaeangliae</i>	Humpback whale	160
unknown	Unidentified mysticete	40

Target species	Date	Area	Methods/effort	Parameters/ factors measured	Contact person/institute; refs

**R16 Institution** - Photo-identification techniques to study *Sotalia guianensis* population in the estuary of Paraguaçu river (Baía de Todos os Santos); application of photo-identification techniques to verify its feasibility in the *Sotalia guianensis* population in the estuary of Vaza-Barris river (South coast of Sergipe State).

### 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
Humpback whale	Fluke	Bahia (Abrolhos Bank), Bahia (State), Rio de Janeiro	2006 / n =506	N	1,874 (seasons 2005 and 2006 will be analyse and incorporated in the IBJ catalogue)	Milton Marcondes - Instituto Baleia Jubarte (IBJ)
Humpback whale	Fluke	Bahia	2006 / n= 124	Y	713 (included season 2006)	Clarêncio Baracho Instituto Baleia Jubarte (IBJ)
Humpback whale	Fluke	South Georgia	2006/ n=2	Y	2	Clarêncio Baracho - Instituto Baleia Jubarte (IBJ)
Bottlenose dolphins	Dorsal fin	Patos Lagoon estuary – southern Brazil	10	Y	64	Eduardo Secchi - LMM/FURG
Bottlenose dolphin	Dorsal fins	Itajai River estuary	8	Y	In preparation	André Barreto CTTMar/UNIVALI
Marine tucuxi	Dorsal fin	Pipa Beach RN- Northeastern Brazil	36	Y	69	Sandra Ananias/ PPC-UFRN

Marine tucuxi	Dorsal fin	Baía de Todos os Santos, Bahia	2005/2007	Y	20	Maria do Socorro Reis / Projeto Mamíferos Marinhos (IMA)
Marine tucuxi	Dorsal fin	Bahia	-	Y	58 (until April 2005)	Leonardo L. Wedekin Instituto Baleia Jubarte (IBJ)
Marine tucuxi	Dorsal fin	Vaza-Barris River, Sergipe	2006	Y	5	Adolfo Hubner / Projeto Mamíferos Marinhos (IMA)
Marine tucuxi	Dorsal	Guanabara Bay	28	Y	69	Lailson-Brito/Azevedo - UERJ
Southern right whale	Head callosities and dorsal marks	Southern Brazil	240	N	332	Karina Groch - IWC/Brazil
Spinner dolphin	Dorsal fin and flanks	Fernando de Noronha Archipelago	45	Y	978	José Martins Silva Jr. Centro Golfinho Rotador

### 3.1.2. Artificial marking data

**R8 Institution** - 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 (Contact: Eduardo Secchi - LMM/FURG).

### 3.1.3 Telemetry data

Species	Tag type	No. successfully deployed	Maximum time transmitting	Contact person/institute; refs
Humpback whale	Satellite	11	4 weeks	A.Zerbini, IA, Rio de Janeiro, RJ and Artur Andriolo, UFJF, Juiz de Fora, MG

## 3.2 Analyses/development of techniques

**R6 Institution** - 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) (Contact: Karina Groch – IWC/Brazil).

**R7 Institution** - Data analyses on season residency, site fidelity, habitat use and behavior of spinner dolphin have been carried out in Fernando de Noronha Archipelago (Contact: José Martins da Silva Júnior / Centro Golfinho Rotador).

**R8 Institution** - Abundance, survival and reproductive rates are being estimated from naturally marked bottlenose dolphins in the Patos Lagoon estuary, southern Brazil (Contact: Eduardo Secchi – LMM/FURG).

**R9 Institution** - In 2006 a photo-id study was done to identify naturally marked bottlenose dolphins in the Itajaí Estuary. Even though the population that uses the area is close to 20 animals, only 8 were positively identified. A catalogue is in development and the study will continue (Contact: André Barreto – CTTMar/UNIVALI).

**R12 Institution** – Marine tucuxi (*Sotalia guianensis*) that utilises Pipa Beach region showed high floatability. Association patterns among individuals that utilises the region showed to be dynamic. It was impossible to deduce about the associations among the fotoidentified individuals that utilises Pipa region. Just an individual (L3) showed to take care of immature dolphins (Contact: Priscila Medeiros – PPC/UFRN).

#### 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	25	Eduardo Secchi - LMM/FURG
Humpback whale	Group A	7	Y	0	19	Artur Andriolo, UFJF, Juiz de Fora, MG
Humpback whale	Stock A: Bahia and Espírito Santo States (Abrolhos Bank)	29	Y	29	325	Márcia Engel/ Instituto Baleia Jubarte (IBJ)
Humpback Whale	Stock A: Bahia (State)	7	Y	7	37	Márcia Engel/ Instituto Baleia Jubarte (IBJ)
Humpback Whale	Stock A: South Georgia	2	Y	2	2	Márcia Engel/ Instituto Baleia Jubarte (IBJ)
Southern right whale	Bahia (Abrolhos Bank)	1	Y	0	1	Márcia Engel/ Instituto Baleia Jubarte (IBJ)

##### 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
Franciscana	São Paulo	Brain, lung, heart, stomach, intestine, liver, kidney, pancreas, spleen, adrenals, gonads, muscle, blubber, skin and teeth.	12	Y		Projeto BioPesca
Franciscana	WS Atlantic (Southern Brazil)	Skin, blubber, liver, gonads, teeth, kidney	4	Y		Eduardo Secchi - LMM/FURG
Marine tucuxi	São Paulo	Brain, lung, heart, stomach, intestine, liver, kidney, pancreas, adrenals, gonads, muscle, blubber, skin and teeth.	1	Y		Projeto BioPesca

### 4.3 Samples from stranded animals

Species	Area/stock	Tissue type(s)*	No. collected	Archived (Y/N)	No. analysed	Contact person/institute
Atlantic Spotted dolphin	Ceará	Skin, blubber, tongue, lungs, spleen, liver, kidney, gonads, intestine, stomach contents, parasites, skeleton, teeth		Y		Bianca De Luca Altieri/Aquasis
Bottlenose dolphin	Pernambuco	Bones	4	Y		Fernanda Löffler Attademo – CMA/Ibama
Bottlenose dolphin	São Paulo	Complete skeleton, stomach contents	1	Y		A.R. Santos-Lopes/ IPeC
Bottlenose dolphin	SE Atlantic	Skin, blubber, muscle, liver, gonads	1	Y		André Barreto – CTTMar/UNIVALI
Bottlenose dolphin	Rio de Janeiro	Kidney, liver, lung, muscle, stomach, intestine, heart, blubber	2	Y		Lailson-Brito/Azevedo - UERJ
Bottlenose dolphin	Rio Grande do Norte	Skin	3	Y		PPC/UFRN
Bryde's whale	São Paulo	Complete skeleton	2	Y		A.R. Santos-Lopes/ IPeC
Bryde's whale	Rio de Janeiro	Muscle, blubber	1	N		Lailson-Brito/Azevedo - UERJ
Clymene dolphin	Bahia	Skeleton, skin, muscle, stomach, lung, heart, liver, kidney, testicle, penis, bladder.	1	Y		Luciano R. Alardo Souto - IMA
Clymene dolphin	Sergipe	Skeleton, skin.	1	Y		Luciano R. Alardo Souto - IMA
Clymene dolphin	Pernambuco	Bone, liver, muscle, heart, lungs, stomach	1	Y		Fernanda Löffler Attademo – CMA/Ibama
Clymene dolphin	Rio Grande do Norte	Skin	1	Y		PPC/UFRN
Franciscana	São Paulo	Brain, lung, heart, stomach, intestine, liver, kidney, pancreas, adrenals, gonads, muscle, blubber, skin, teeth	4	Y		Projeto BioPesca
Franciscana	WS Atlantic (Southern Brazil)	Skin, gonads, stomach, skull, teeth, liver, blubber, kidney	~150	Y		Eduardo Secchi - LMM/FURG
Franciscana	São Paulo	Complete skeleton, stomach contents	10	Y		A.R. Santos-Lopes/ IPeC

Humpback whale	Alagoas			N		Fernanda Löffler Attademo – CMA/Ibama
Humpback whale	Pernambuco			N		Fernanda Löffler Attademo – CMA/Ibama
Humpback whale	Paraíba	Liver, lungs, heart, bone	2	Y		Fernanda Löffler Attademo – CMA/Ibama
Humpback whale	Paraíba			N		Fernanda Löffler Attademo – CMA/Ibama
Humpback whale	Sergipe	Skeleton, skin, muscle, stomach, lung, heart, liver, kidney.	1	Y		Adolfo Hubner/IMA
Humpback whale	Abrolhos Bank	Skin, blubber, ectoparasites, milk, stomach content, feces, eye, lung, intestine, stomach, ovary, uterus, urinary bladder, bones.	13	Y		Milton Marcondes/ Instituto Baleia Jubarte (IBJ)
Humpback whale	Bahia's northern coast	Skin, blubber, bones.	2	Y		Milton Marcondes / Instituto Baleia Jubarte (IBJ)
Humpback whale	São Paulo	Scapulas	1	Y		A.R. Santos-Lopes/ IPeC
Humpback whale	Rio Grande do Norte	Skin	1	Y		PPC/UFRN
Minke Whale	Abrolhos Bank	Muscle, bones.	1	Y		Milton Marcondes / Instituto Baleia Jubarte (IBJ)
Marine tucuxi	Rio Grande do Norte	Skin, stomach contents, teeth and heart	21	Y		
Marine tucuxi	Pernambuco	Bones	3	Y		Fernanda Löffler Attademo – CMA/Ibama
Marine tucuxi	Rio Grande do Norte			N		Fernanda Löffler Attademo – CMA/Ibama
Marine tucuxi	Alagoas			N		Fernanda Löffler Attademo – CMA/Ibama
Marine tucuxi	São Paulo	Complete skeleton, stomach contents	15	Y		A.R. Santos-Lopes/ IPeC
Marine tucuxi	Rio Grande do Norte	Skin, blubber	1	Y		Flávio Lima Silva  PCCB/UERN

Marine tucuxi	Bahia	Skeleton, skin, muscle, stomach, lung, heart, liver, kidney, testicule, penis, bladder, uterus.	1	Y		Luciano R. Alardo Souto - IMA
Marine tucuxi	Abrolhos Bank	Skin, blubber, muscle, bones, entire fetus.	5	Y		Milton Marcondes / Instituto Baleia Jubarte (IBJ)
Marine tucuxi	Sergipe	Skeleton, skin, muscle, stomach, lung, heart, liver, kidney, testicule, penis, bladder, uterus.	1	Y		Luciano R. Alardo Souto - IMA
Marine tucuxi	Rio de Janeiro	Kidney, liver, lung, muscle, stomach, intestine, heart, blubber	5	Y		Lailson-Brito/Azevedo - UERJ
Marine tucuxi	Ceará	Muscle, oesophagus, heart, lungs, stomach, liver, kidney, gonads, foetus, stomach contents, skeleton, teeth, skin, foetus, spleen, intestine	3	Y		Bianca de Luca Altieri / AQUASIS
Melon-headed whale	Rio Grande do Norte	Skin, stomach contents, teeth	1	Y		PPC/UFRN
Pantropical spotted dolphin	Bahia	Skeleton, skin, muscle, stomach, lung, heart, liver, kidney, testicule, penis, bladder	1	Y		Luciano R. Alardo Souto - IMA
Pantropical spotted dolphin	Rio Grande do Norte	Skin	1	Y		PPC/UFRN
Short-finned pilot whale	Alagoas	Muscle	1	Y		Fernanda Löffler Attademo – CMA/Ibama
Dwarf sperm whale	Bahia	Skeleton, skin, muscle, stomach, liver, kidney	1	Y		Adolfo Hubner - IMA
Sperm whale	Bahia	Skeleton, skin	1	Y		Adolfo Hubner - IMA
Sperm whale	Rio Grande do Norte	Skin, teeth	2	Y		PPC/UFRN
Sperm whale	Paraíba		2	N		Fernanda Löffler Attademo – CMA/Ibama
Sperm whale	Alagoas			N		Fernanda Löffler Attademo – CMA/Ibama

Sperm whale	Abrolhos Bank	Blubber, skin, bones.	1	Y		Milton Marcondes/ Instituto Baleia Jubarte (IBJ)
Sperm whale	São Paulo	Complete skeleton	1	Y		A.R. Santos-Lopes/ IPeC
Spinner dolphin	Pernambuco	Bones	1	Y		Fernanda Löffler Attademo – CMA/Ibama
Spinner dolphin	Fernando de Noronha Archipelago	Kidney, stomach, muscle, skin, blubber, teeth	1	Y		José Martins da Silva Júnior / Centro Golfinho Rotador
Striped dolphin	Ceará	Skin, bubbler, muscle, tongue, oesophagus, heart, lungs, stomach, liver, kidney, gonads, foetus, brain, parasites, skeleton, teeth		Y		Bianca De Luca Altieri/Aquasis
Rough-toothed dolphin	Rio de Janeiro	Kidney, liver, lung, muscle, stomach, intestine, heart, blubber	1	Y		Lailson- Brito/Azevedo - UERJ
Rough-toothed dolphin	Ceará	Skin		Y		Bianca de Luca Altieri / AQUASIS
Rough-toothed dolphin	São Paulo	Complete skeleton	2	Y		A.R. Santos-Lopes/ IPeC
Rough-toothed dolphin	Rio Grande do Norte	Skin	2	Y		PPC/UFRN

#### 4.4 Analyses/development of techniques

**R3 Institution** - Stomach contents (oliths and squid beaks) of stranded marine tucuxi dolphins from Ceará State are being analysed. Pathology (in soft tissue and bones) and parasitology has been investigated in stranded cetaceans. Also, the parasites collected during necropsies are being analysed (Contact: Cristine Negrão Silva / AQUASIS).

**R4 Institution** - Anatomic studies, age estimation and genetic analysis of franciscanas incidentally caught and other stranded cetaceans are being conducted (Contact: Ana Rita dos Santos-Lopes, IPeC ).

**R7 Institution** - Determination of cause of death was made in stranding events, including analyses of the interaction with fishing and boats. Anatomic studies, stomach contents and genetic analysis of mtDNA and nuclear DNA sequencing in the Fernando de Noronha Archipelago were also made (Contact: José Martins – CGR).

**R8 Institution** - Age and growth, pollution and feeding analyses are being carried out (Contact: Eduardo Secchi – LMM/FURG).

**R9 Institution** - A histological analysis of *Pontoporia blainvillei* and *Tursiops truncatus* skin and kidney is under development (Contact: André Barreto – CTTMar/UNIVALI).

**R14 Institution** - The main line of research is monitoring of the incidental captures along the São Paulo coast. Biological samples are stored in the Marine Mammal Tissue Bank (LAPCOM-FMVZ-USP). The goal of the biological specimen banking system is to provide long-term storage of tissue samples, histological slides and images originated from this material for future studies. /and are utilized in a number of analyses. Pathology occurring in by-caught animals has been investigated. Stomach contents are currently being studied and intestines are being analyzed for metazoan parasites that can be used for franciscana stock identity studies. Fixed brains are being studied to describe the vascular anatomy in franciscanas. Age estimation and reproduction parameters of these animals are being studied. (Contact: Juliana Marigo and Carolina Bertozzi, BioPesca)

## 5. POLLUTION STUDIES

**R1 Institution** – They performed trace metals and organochlorines determination in cetacean tissues of the Brazilian and Antarctic waters with the following species: *Megaptera novaeangliae*, *Balaenoptera edeni*, *Balaenoptera acutorostrata*, *Sotalia fluviatilis*, *Sotalia guianensis*, *Inia geoffrensis*, *Kogia simus*, *Pontoporia blainvillei*, *Orcinus orca*, *Tursiops truncatus*, *Delphinus sp.*, *Stenella coeruleoalba*, *Stenella frontalis* and *Lagenodelphis hosei*. (Contact: José Laílson-Brito and Alexandre de Freitas Azevedo – MAQUA).

**R3 Institution** - Heavy metals and organochlorines from tissues samples (bubbler, kidney and liver) of stranding cetaceans has been conducted in order to determine the presence and concentrations levels (Contact: Cristine Negrão Silva – AQUASIS).

**R8 Institution** - Pollution analysis of samples listed in 4 are being conducted in collaboration with other research groups (Contact: Eduardo Secchi – LMM/FURG).

**R14 Institution** - Chlorinated hydrocarbons are being estimated in tissues of franciscana and marine tucuxi dolphin of São Paulo State. (Contact: Mariana B. Alonso, BioPesca).

**R16 Institution – Project 1** - The Instituto Mamíferos Aquáticos has initiated a study including ingestion of plastic and others debris by cetaceans.

**Project 2** - A study of heavy metals concentrations on cetaceans has been initiated on Sergipe Coast, but no results can be informed until the moment.

## 6. STATISTICS FOR LARGE CETACEANS

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

This is the correct place to include any corrections to statistics presented in earlier years. It is also be appropriate to include references to studies that utilise time series of data here.

### 6.2 Direct catches of large whales (commercial, aboriginal and scientific permits) for the calendar year 20XX or the season 20XX/XX

### 6.3 Anthropogenic mortality of large whales for the calendar year 20XX or the season 20XX/XX

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

#### 6.3.2 Fishery bycatch of large whales

Whale species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Bryde's whale	M	1		São Paulo			gillnet		Ana Rita dos Santos-Lopes, IPeC

## 7. STATISTICS FOR SMALL CETACEANS

It was first agreed to include this information in a Commission resolution in 1976 (IWC, 1977, p.31). Furthermore, in 2005 (IWC, 2006, Annex J) it was agreed that these data should be brought into line with those reported for large cetaceans. **Therefore, this Section should be completed using the same guidelines as given in Section 6 above, Statistics for large cetaceans.**

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

This would be a place to include any corrections to statistics presented in earlier years. It may also be appropriate to include references to studies that utilise time series of data here.



**R7 Institution** – data from this institution are show in the table below.

<b>IWC Common name</b>	<b>Date</b>	<b>Location</b>	<b>Lat (°)</b>	<b>Long (°)</b>	<b>Institution</b>
Cuvier's beaked whale	2004-04-22	FN - Conceição Beach	3°50,4 S	32°25,0 W	CGR
Melon-headed whale	1991-10-13	FN - Conceição Beach	3°50,4 S	32°25' W	CGR
Non-identified cetacean	2002-05-01	FN Caieira Beach	3°50,2 S	32°24,0 W	CGR
Non-identified dolphin	1990-09-05	FN – Rata Island	3°50,2 S	32°24,2 W	CGR
Pantropical spotted dolphin	2002-12-16	FN - Pico Mount	3°50,2 S	32°25,4 W	CGR
Pantropical spotted dolphin	2005-01-03	FN - Americano Beach	3°50,2 S	32°25,4 W	CGR
Pantropical spotted dolphin	2001-07-09	FN – Atalaia Beach	3°51,7 S	32°24,4 W	CGR
Short-finned pilot whale	2001-08-28	FN - Santo Antônio Harbour	3°50,2 S	32°24,2 W	CGR
Spinner dolphin	1992-09-29	FN – Abreu's Bay	3°51,7 S	32°24,4 W	CGR
Spinner dolphin	1994-05-03	FN – Dolphin's Bay	3°51,5 S	32°27,2 W	CGR
Spinner dolphin	1996-09-13	FN - Pontinha	3°51,7 S	32°24,4 W	CGR
Spinner dolphin	1996-09-29	FN - Atalaia Beach	3°51,7 S	32°24,4 W	CGR
Spinner dolphin	1997-01-26	FN – Abreu's Bay	3°51,7 S	32°24,4 W	CGR
Spinner dolphin	1998-09-23	FN – Sancho's Bay	3°51,3 S	32°26,7 W	CGR
Spinner dolphin	1999-01-26	FN - Leão Beach	3°52,3 S	32°26,2 W	CGR
Spinner dolphin	1999-01-31	FN - Dois Irmãos Mount	3°51,0 S	32°26,4 W	CGR
Spinner dolphin	1999-03-15	FN - Atalaia Beach	3°51,7 S	32°24,4 W	CGR
Spinner dolphin	1999-08-05	FN - Atalaia Beach	3°51,7 S	32°24,4 W	CGR
Spinner dolphin	1999-11-01	FN - Boldro Beach	3°50,2 S	32°25,4 W	CGR
Spinner dolphin	2000-01-02	FN - Cacimba do Padre Beach	3°51,0 S	32°26,4 W	CGR
Spinner dolphin	2000-02-02	FN - Leão Beach	3°52,3 S	32°26,2 W	CGR
Spinner dolphin	2000-04-20	FN - Pedras Secas Beach	3°51,0 S	32°22,3 W	CGR
Spinner dolphin	2003-04-29	FN – Dolphin's Bay	3°51,5 S	32°27,2 W	CGR
Spinner dolphin	2004-01-14	FN - Cacimba do Padre Beach	3°51,0 S	32°26,4 W	CGR
Spinner dolphin	2004-10-18	FN – Sancho's Bay	3°51,3 S	32°26,7 W	CGR
Spinner dolphin	2005-06-06	FN – Meio Island	3°50,2 S	32°24,2 W	CGR
Spinner dolphin	2005-07-18	FN - Dois Irmãos Island	3°51,0 S	32°26,4 W	CGR
Spinner dolphin	2005-10-10	FN - Air France Point	3°51,0 S	32°22,3 W	CGR
Spinner dolphin	2006-02-08	FN - Meio Island	3°50,2 S	32°24,2 W	CGR

\* FN – Fernando de Noronha Archipelago.

## 7.2 Direct catches of small cetaceans for the calendar year 20XX or the season 20XX/XX

### 7.3 Anthropogenic mortality of small cetaceans for the season 2006/07

#### 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
Bottlenose dolphin	M	1		São Paulo				Marks of propeller	IPeC
Marine tucuxi	M	1		São Paulo	Boat				IPeC
Marine tucuxi	M	1		São Paulo	Boat				IPeC
Marine tucuxi	F	2		São Paulo	Boat				IPeC
Marine tucuxi	F	1		São Paulo	Boat				IPeC
Spinner dolphin	U	1		Fernando de Noronha (03°50'S, 32°25'W)	Boat				José Martins da Silva Jr./ CGR

#### 7.3.2 Fishery bycatch of small cetaceans

Species	Sex	No.	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
Franciscana		235		Southern Brazil		croakers	GNS	logbooks	LMM/FURG
Marine Tucuxi	F	1		São Paulo			gillnet		IPeC
Marine Tucuxi	M	1		São Paulo			gillnet		IPeC
Marine Tucuxi	M	1		São Paulo			gillnet		IPeC
Marine Tucuxi	M	1	July 1 <sup>st</sup> 2006	Rio de Janeiro				Fisherman called the Lab.	MAQUA
Marine Tucuxi	U	2		Praia de Diogo Lopes – RN (5°05'11''S; 36°35'05''W)				Entangled	Flávio J. Lima Silva flaviogolfinho@yahoo.com.br
Marine tucuxi	M	1		Bahia				Necropsy	IMA
Marine tucuxi	3M 1F	4		Sergipe				Necropsy	IMA
Pantropical spotted dolphin	F	1		Bahia				Necropsy	IMA

Clymene dolphin			1	Bahia				Necropsy	IMA
Clymene dolphin			1	Sergipe				Necropsy	IMA

**R9 Institution** - A program of interviews with commercial fishing boats is underway since March 2006. Only a few captures have been reported due to the natural resistance of fishermen to disclose such data. The program is going to continue in 2007 (Contact: André Barreto – CTTMar/UNIVALI).

## 8. STRANDINGS

**R8 Institution** - 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. For further information, contact Eduardo Secchi: Laboratório de Tartarugas e Mamíferos Marinhos, Departamento de Oceanografia e Museu Oceanográfico “Prof. E.C. Rios”; Fundação Universidade Federal do Rio Grande – FURG, Cx.Postal 474, Rio Grande - RS, Brasil - 96201-900; E-mail: edu.secchi@furg.br.

**R9 Institution** - Strandings in the area (central-north Santa Catarina coast) are dealt by the Museu Oceanográfico do Vale do Itajaí (Contact: André Barreto – CTTMar/UNIVALI).

**R11 Institution** – data from this institution are in the table below.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Bottlenose dolphin		04	Fernanda Löffler Niemeyer Attademo	vetpxboi@uol.com.br
Clymene dolphin	01		Fernanda Löffler Niemeyer Attademo	vetpxboi@uol.com.br
Estuarine dolphin		05	Fernanda Löffler Niemeyer Attademo	vetpxboi@uol.com.br
Humpback whale	01	04	Fernanda Löffler Niemeyer Attademo	vetpxboi@uol.com.br
Short-finned pilot whale		01	Fernanda Löffler Niemeyer Attademo	vetpxboi@uol.com.br
Sperm whale	01	02	Fernanda Löffler Niemeyer Attademo	vetpxboi@uol.com.br
Spinner dolphin		01	Fernanda Löffler Niemeyer Attademo	vetpxboi@uol.com.br

**R12 Institution** - data from this institution are in the table below.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Bottlenose dolphin	3		PPC-UFRN	pequenoscetaceos@ yahoo.com.br
Clymene dolphin	1		PPC-UFRN	pequenoscetaceos@ yahoo.com.br
Humpback whale	1		PPC-UFRN	pequenoscetaceos@ yahoo.com.br
Marine tucuxi	20		PPC-UFRN	pequenoscetaceos@ yahoo.com.br

Melon-headed whale	1		PPC-UFRN	pequenoscetaceos@@yahoo.com.br
Non-identified dolphin	2		PPC-UFRN	pequenoscetaceos@@yahoo.com.br
Pantropical spotted dolphin	1		PPC-UFRN	pequenoscetaceos@@yahoo.com.br
Rough-toothed dolphin	2		PPC-UFRN	pequenoscetaceos@@yahoo.com.br
Sperm whale	1		PPC-UFRN	pequenoscetaceos@@yahoo.com.br

**R13 Institution** – Data from this institution are shown in the table below.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Marine tucuxi	2		Flávio J. Lima Silva	flaviogolfinho@yahoo.com.br
Melon-headed whale	1		Flávio J. Lima Silva	flaviogolfinho@yahoo.com.br

**R15 Institution** - Data from this institution are shown in the table below.

Instituto Baleia Jubarte Programa de Resgate de Mamíferos Aquáticos - R. Barão do Rio Branco, 26 Caravelas – BA - 45900-000 - Brazil

Contact: Milton Marcondes/IBJ; Address: R. Barão do Rio Branco, 26 - Tel.: 55-73-32971320 milton.marcondes@baleiajubarte.com.br

Whale species	Sex	Location	Cause of death	Det.
Humpback whale	U	At sea, close to Abrolhos archipelago	U	U
Humpback whale	U	Lat. 17,949388 S Long. 39,335096 W	U	U
Humpback whale	U	Lat. 17,91057 S Long. 39,38194 W	U	U
Humpback whale	M	Lat. 17,96714 S Long. 39,20738 W	U	U
Humpback whale	U	Lat. 17,10756 S Long. 39,18147 W	U	U
Humpback whale	M	Lat. 17,6000 S Long. 39,0500 W	U	U
Humpback whale	M	Lat. 18,34342 S Long. 39.66688 W	U	U
Humpback whale	U	Lat. 17,64787 S Long. 39,16458 W	U	U

Humpback whale	M	Lat. 16,09128 S Long. 38,94756 W	U	U
Humpback whale	F	Lat. 17,81772 S Long. 39,01870 W	U	U
Humpback whale	F	Lat. 16,64324 S Long. 39,09637 W	U	U
Humpback whale	F	Lat. 17,22436 S Long. 39,21492 W	U	U
Humpback whale	U	Lat. 16,31257 S Long. 39,02382 W	U	U
Humpback whale	U	Lat. 16,31241 S Long. 39,04695 W	U	U
Humpback whale	U	Lat. 16,31748 S Long. 39,02320 W	U	U
Humpback whale	F	Lat. 19,32288 S Long. 39,68909 W	U	U
Humpback whale	M	Lat. 12,67316 S Long. 38,08711 W	U	U
Humpback whale	U	Lat. 12,59728 S Long. 37,98045 W	U	U
Humpback whale	U	Lat. 12,70180 S Long. 38,11731 W	U	U
Minke Whale	U	Lat. 17,284025 S Long. 39,11568 W	U	U
Sperm Whale	U	Lat. 18,36367 S Long. 39,43890 W	U	U

### R16 Institution - Contacts

Northeastern Brazil / Bahia	Luciano R. Alardo Souto	Centro de Resgate de Mamíferos Aquáticos – Instituto Mamíferos Aquáticos
Northeastern Brazil / Bahia	Maria do Socorro Reis	Projeto Mamíferos Marinhos – Instituto Mamíferos Aquáticos

Northeastern Brazil / Sergipe	Adolfo Hubner	Projeto Mamíferos Marinhos – Instituto Mamíferos Aquáticos
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## 9. OTHER STUDIES AND ANALYSES

**R7 Institution** - Interactions of marine tucuxi with dolphinwatching boats and natural behaviour were observed in Pina bay (Recife/PE) and Pipa Beach (RN), by means of continuous sampling. (Contact: José Martins da Silva Júnior)

**R13 Institution** – The Projeto Cetáceos da Costa Branca-UERN develops systematic weekly surveys along 50km of the Rio Grande do Norte State coast, limited by Tibau (4°50'24.92"S; 37°14'27.15"W) in the west and Galinhos (5° 3'36.57"S; 36°12'3.01"W) in the south. The data collection is done through interviews with fishermen representatives, aiming to characterize the handmade fishing and its interactions with marine mammals in the region. In stranding events, the collect of samples follows the Aquatic Mammals Stranding Protocol of the Northeastern Aquatic Mammals Stranding Network - REMANE (IBAMA, 2005).

**R14 Institution** - In some cases samples were collected to collaborate with other researchers, some for microbiological analyses, and others for anatomical studies. Samples were also used by other researchers/institutions, e.g. *P. blainvillei*'s muscle for comparison in genetic studies of *Inia geoffrensis* at INPA (Contact: Juliana Marigo, BioPesca).

**R16 Institution** - The Instituto Mamíferos Aquáticos has initiated a otoliths and cephalopod beak collection to use as reference on the study of food habits. Also studies and analyses of shark bites on cetaceans, and analysis of *Sotalia guianensis* osteology.

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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>	