

**KOREA (REPUBLIC OF) PROGRESS REPORT ON CETACEAN RESEARCH WITH STATISTICAL DATA FOR THE CALENDAR YEAR 2005**

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This report summarises information obtained from Cetacean Research Institute (CRI) of National Fisheries Research & Development Institute (NFRDI).

### 1. Species and stocks studied

Common name	IWC recommended scientific name	Area/stock(s)	Items referred to
Humpback whale	<i>Megaptera novaeangliae</i>	East Sea	4.2; 6.2
Fin whale	<i>Balaenoptera physalus</i>	Yellow Sea	6.2
Minke whale	<i>Balaenoptera acutorostrata</i>	East Sea, Korea Strait, Yellow Sea	2.1; 4.2; 4.3; 6.2
Sperm whale	<i>Physeter macrocephalus</i>	Yellow Sea	4.3; 6.2
Stejneger's beaked whale	<i>Mesoplodon stejnegeri</i>	East Sea	4.2; 6.2
Killer whale	<i>Orcinus orca</i>	Yellow Sea	7.3
False killer whale	<i>Pseudorca crassidens</i>	East Sea	2.1; 7.3
Bottlenose dolphin	<i>Tursiops truncatus</i>	East Sea, Korea Strait, Yellow Sea	2.1; 4.2; 7.3
Common dolphin	<i>Delphinus capensis</i>	East Sea, Korea Strait, Yellow Sea	2.1; 4.2; 7.3
Pacific white-sided dolphin	<i>Lagenorhynchus obliquidens</i>	East Sea	2.1; 4.2; 7.3
Risso's dolphin	<i>Grampus griseus</i>	East Sea, Korea Strait	2.1; 7.3
Finless porpoise	<i>Neophocaena phocaenoides</i>	East Sea, Korea Strait, Yellow Sea	7.3
Harbour porpoise	<i>Phocoena phocoena</i>	East Sea	4.2; 7.3
Dall's porpoise	<i>Phocoenoides dalli</i>	East Sea	2.1; 7.3

### 2. Sightings data

#### 2.1 Field work

##### 2.1.1 SYSTEMATIC

Systematic sighting survey was conducted using the research vessel, Tamgu 3, in the East Sea from late April to May, 2005. The vessel cruised 1,040.6 n.m. and completed only 46% of the total transect lines planned due to weather conditions and time constraints. During the survey 32 animals in 31 schools of minke whales were sighted primarily that crowded in the middle part of the East Sea. Dall's porpoises and Pacific white-sided dolphins were observed in the northern part of the survey area and common dolphins, false killer whales, bottlenose dolphins and Risso's dolphins were sighted in the southern part.

Date	Sighting distance (n.m.)	Minke whale			Common dolphin		False killer whale	Bottle-nose Dolphin	Risso's dolphin	Dall's porpoise	Pacific white-sided dolphin	Unidentified large whale	
		Pri.	Sec.	Off.	Pri.	Off.						Pri.	Off.
26-Apr				1-1		1-500							1-1
03-May	56.6	2-2		1-1									
04-May	127.7	16-16	1-1										
08-May	81.0								3-17				
10-May	106.5	1-1		4-4							1-3		
15-May	46.3												
16-May	75.4				2-1,500								
17-May	108.5				1-500								
19-May	33.4					1-1,000	1-500	1-300					
20-May	106.6	5-6					2-200	2-130	1-10				
21-May	146.9	5-5											
22-May	35.0			2-2									
24-May	56.1	1-1				1-700							
25-May	60.6	1-1											
Total	1,040.6	31-32	1-1	8-8	3-2,000	3-2,200	3-700	3-330	1-10	3-17	1-3		1-1

Pri: primary sighting; Sec: secondary sighting; Off: off-effort

### 3. Marking data

None.

#### 4. Tissue/biological samples collected

##### 4.2 Samples from directed catches or bycatches

Species	Area/stock	Calendar year/ season total	Archived (Y/N)	Tissue type(s)*	Contact person/institute
Humpback whale	East Sea	1	Y	Skin, blubber, etc.	Org.: CRI, NFRDI Contact: Z.G. KIM Tel.: +82-52-270-0900 E-mail: <a href="mailto:zgkim@nfrdi.re.kr">zgkim@nfrdi.re.kr</a>
Minke whale	East Sea, Korea Strait, Yellow Sea	94	Y	Skin, blubber, etc.	
Bottlenose dolphin	Korea Strait	7	Y	Skin, blubber, etc.	
Common dolphin	East Sea, Yellow Sea	20	Y	Skin, blubber, etc.	
Pacific white-sided dolphin	East Sea	12	Y	Skin, blubber, etc.	
Harbour porpoise	East Sea	4	Y	Skin, blubber, etc.	

\*e.g. liver, intestines, ovary, testicle, stomach contents, baleen plates or tooth

##### 4.3 Samples from stranded animals

Species	Area/stock	Calendar year/ season total	Archived (Y/N)	Tissue type(s)*	Contact person/institute
Minke whale	East Sea, Korea Strait	2	Y	Skin, blubber, etc.	Org.: CRI, NFRDI Contact: Z.G. KIM Tel.: +82-52-270-0900 E-mail: <a href="mailto:zgkim@nfrdi.re.kr">zgkim@nfrdi.re.kr</a>
Sperm whale	Yellow Sea	1	Y	Skin and blubber	
Stejneger's beaked whale	East Sea	1	Y	Skin, blubber, etc.	

\*e.g. liver, intestines, ovary, testicle, stomach contents, baleen plates or tooth

#### 5. Pollution studies

None.

#### 6. Statistics for large cetaceans

##### 6.2 Non-natural mortality for the calendar year 2005

Species	Area/stock	Males	Females	Total	Cause	Methodology	
Humpback whale	East Sea		1	1	Bycatch/GN	Post mortem	
Fin whale	Yellow Sea			1	Stranding	Post mortem	
Minke whale	East Sea	13	7	22	Bycatch/GN	Post mortem	
		19	11	31	Bycatch/FPO	Post mortem	
		13	21	35	Bycatch/FPN	Post mortem	
		1		2	Bycatch/TX	Post mortem	
	Korea Strait		1	1	1	Drifting	Post mortem
		6	2	2	Bycatch/FPO	Post mortem	
		1	1	1	Bycatch/FPN	Post mortem	
	Yellow Sea		1	1	1	Bycatch/unknown	Post mortem
					Drifting	Post mortem	
					Ship-strike	DNA analysis	
Sperm whale	Yellow Sea	1		1	Bycatch/FPO	Post mortem	
			3	3	Bycatch/FSN	Post mortem	
Stejneger's beaked whale	East Sea		1	1	Stranding	Post mortem	
					Drifting		

##### 6.2.1 STRANDINGS OR DEAD WHALES ENCOUNTERED AT SEA

Whale species	Sex	Location	Cause of death	Det.	Source or contact institution, contact name and telephone and/or e-mail
Fin whale	U	Beached on Incheon, Yellow Sea	U	U	Org.: CRI, NFRDI Contact: Z.G. KIM Tel.: +82-52-270-0900 E-mail: <a href="mailto:zgkim@nfrdi.re.kr">zgkim@nfrdi.re.kr</a>
Minke whale	M	Drifting around Busan, Korea Strait	U	U	
	F	Drifting around Donghae, East Sea	U	U	
Sperm whale	M	Beached on Shinan, Yellow Sea	U	U	
Stejneger's beaked whale	F	Drifting around Samchuck, East Sea	U	U	

##### 6.2.2 OBSERVED OR REPORTED SHIP STRIKES

None.

##### 6.2.3 FISHERY BYCATCH

Fishing gear types caused the bycatch and sexes are shown in '6.2'. The fate of bycaught whales are 'K'. Korea Coast Guard supports the information.

Whale species	Sex	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
See 6.2	See 6.2	Available in CRI	See 6.2	See the explanation	No data	See 6.2	See the explanation	Org.: CRI, NFRDI Contact: Z.G. KIM Tel.: +82-52-270-0900 E-mail: <a href="mailto:zgkim@nfrdi.re.kr">zgkim@nfrdi.re.kr</a>

## 7. Statistics for small cetaceans

### 7.3 Non-natural mortality for the calendar year 2005

Species	Area/stock	Directed catch		Incidental mortality			Live-capture Reported	
		Reported	Est. total	Reported	Est. total	Source		
Killer whale	Yellow Sea			1		Drifting		
False killer whale	East Sea			1		Stranding		
Bottlenose dolphin	East Sea			3		GN		
	Korea Strait			1		Bycatch/SX Bycatch/TX Bycatch/GN Drifting		
				8				
				1				
Yellow Sea			1		Bycatch/GN			
Common dolphin	East Sea			10		Bycatch/SX Bycatch/TX Bycatch/GN Bycatch/FPN Bycatch/FPO Bycatch/LLS Bycatch/NK Drifting Stranding		
				2				
				74				
				67				
				29				
				4				
				1				
		4						
		2						
Korea Strait				1		Bycatch/TX Drifting Stranding		
				1				
				1				
Yellow Sea				7		Bycatch/NK Drifting		
				1				
Pacific white-sided dolphin	East Sea			19		Bycatch/GN Bycatch/FPN Bycatch/FPO		
				27				
				1				
Risso's dolphin	East Sea			1		Bycatch/GN Drifting		
	Korea Strait			1		Bycatch/SX		
Finless porpoise	East Sea			17		Bycatch/GN Bycatch/FPO Drifting Stranding		
				1				
				3				
				3				
	Korea Strait				7		Bycatch/SX Bycatch/GN Drifting Stranding	
					3			
				4				
				13				
Yellow Sea				4		Bycatch/FSN Drifting		
				2				
Harbour porpoise	East Sea			1		Bycatch/TX Bycatch/GN Bycatch/FPN Bycatch/LLS Bycatch/NK Drifting Stranding		
				80				
				19				
				1				
				1				
				2				
Dall's porpoise	East Sea			1		Bycatch/FPN		
Unidentified dolphin	East Sea			1		Bycatch/GN Bycatch/FPN Drifting Stranding		
				1				
				1				
				2				

#### 7.3.1 STRANDINGS OR DEAD SMALL CETACEANS ENCOUNTERED AT SEA

Species	Sex	Location	Cause of death	Det.	Source or contact institution, contact name and telephone and/or e-mail
Killer whale	U	Drifting around Taean, Yellow Sea	U	U	Org.: CRI, NFRDI Contact: Z.G. KIM Tel.: +82-52-270-0900 E-mail: <a href="mailto:zgkim@nfrdi.re.kr">zgkim@nfrdi.re.kr</a>
False killer whale	M	Beached on Gyeongju, East Sea	U	U	
Bottlenose dolphin	U	Drifting around Busan	U	U	
Common	M	Beached on Pohang and	U	U	

dolphin		drifting around Uljin, East Sea		
	F	Beached on Uljin and drifting around Samchuck, East Sea	U	U
	U	Drifting around Muan, Yellow Sea Drifting around Ulsan, East Sea Beached on Tongyoung and drifting around Jinhae, Korea Strait	U	U
Finless porpoise	M	Beached on Ulsan and Pohang and drifting around Pohang and Youngduck, East Sea	U	U
	F	Beached on Jeju-do, Korea Strait	U	U
	U	Beached and drifting in various sites of East Sea, Korea Strait and Yellow Sea	U	U
Harbour porpoise	M	Beached on Gosung and Yangyang, East Sea Drifting around Gosung	U	U

### 7.3.3 FISHERY BYCATCH

Fishing gear types caused the bycatch and sexes are shown in '6.2'. The fate of bycaught whales are 'K'. Korea Coast Guard supports the information.

Whale species	Sex	Date	Location	Fate	Targeted fish species	Gear	How observed?	Source or contact
See 7.3	See 7.3	Available in CRI	See 7.3	See the explanation	No data	See 7.3	See the explanation	Org.: CRI, NFRDI Contact: Z.G. KIM Tel.: +82-52-270-0900 E-mail: <a href="mailto:zskim@nfrdi.re.kr">zskim@nfrdi.re.kr</a>

### 8. Strandings

None.

### 9. Other studies and analyses

CRI has conducted acoustical studies and ecological studies of small cetaceans with Pukyong National University. Some results of these studies were presented during the last meeting.

### 10. Literature cited

### 11. Publications