# KOREA (Rep. of ) PROGRESS REPORT ON CETACEAN RESEARCH, WITH STATISTICAL DATA FOR THE CALENDAR YEAR 2001

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This report summarizes information on cetacean research in Korea compiled by the National Fisheries Research and Development Institute (NFRDI) from January to December 2001. The NFRDI conducted the whale research to collect scientific data instructed by the Government and the IWC for the conservation and management of cetaceans in Korean waters.

## 1. Species and stocks studied

Common name	Scientific name	Area/stock(s)	Items referred to
Minke whale	Balaenoptera acutorostrata	East, South and Yellow Sea	2.1.1, 4.2, 6.2
Baird's beaked whale	Berardius bairdii	East Sea	7.1
Stejneger's beaked whale	Mesoplodon stejnegeri	East Sea	7.1
Killer whale	Orcinus orca	Yellow Sea	2.1.1
Risso's dolphin	Grampus griseus	East Sea	7.1
Common dolphin	Delphinus delphis	East and South Sea	7.1
Pacific white-sided dolphin	Lagenorhynchus obliquidens	East Sea	7.1
Bottlenose dolphin	Tursiops truncatus	East Sea	2.1.1, 7.1
Rough-toothed dolphin	Steno bredanensis	South Sea	7.1
Dall's porpoise	Phocoenoides dalli	East Sea	7.1
Harbour porpoise	Phocoena phocoena	East Sea	7.1
Finless porpoise	Neophcaena phocaenoides	East, South and Yellow Sea	2.1.1, 4.2, 7.1

#### 2. Sightings data

#### 2.1 Field work

#### 2.1.1 SYSTEMATIC

The NFRDI carried out two systematic sighting surveys in the Yellow Sea in terms of the RMP, based on the plan endorsed in the SC. Using Tamgu 3 equipped with top barrel (stern trawler, 360 G/T), one was done from 18 April – 17 May (30 days) and the other from 6 September – 26 September (21 days) in the area within the Korean EEZ of the Yellow Sea bounded on the longitude by 123°E-126°E and on the latitude by 34°18′-37°18′, which was about 16% of the whole area of the Yellow Sea. The zig-zag form of trackline was set in the survey area divided into the coastal and offshore blocks. The sighting results of spring and autumn are summarized in the table 2-1 and 2-2, respectively.

Table 2-1. Number of sightings (schools-animals) in the spring survey using the R/V Tamgu 3.

		Distance -			Numbe	r of whale	es and	dolphins	sighted			
Block	Block Date		Minke whale			Finless porpoise			Kl	Kller whale		
		(n.mi.) -	pri	sec	off	pri	sec	off	pri	sec	off	
	20 Apr	8.0				3-6		2-2				
	23 Apr	99.2				27-50		8-13	1-6		3-10	
	24 Apr	43.6					6-8					
	26 Apr	108.0		1-1		1-1		8-9				
Coastal	27 Apr	134.4		7-8		54-117	7	9-17				
block	1 May	55.3	3-3		1-1	4-5		4-6				
	8 May	14.5										
	10 May	82.0		2-2			2-2					
	11 May	104.4		7-7			6-8					
	12 May	31.6				12-17		5-7				
Offshore	12 May	39.5		5-5								
block	13 May	90.0		3-3								
	Total	810.5		28-29		115-21	14	36-54	1-6		3-10	

Table 2-2 Number of sightings (schools-animals) in the summer survey using the R/V by Tamgu 3.

	·	Distance —			Nun	nber of w	hales a	nd dolphii	ns sighte	d	
Block	Date	(n.mi.) —	N	1inke	whale	F	inless p	orpoise	Bot	tlenose	dolphin
		(II.IIII.) <u>p</u> i	ri	sec	off	pri	sec	off	pri	sec	off
B2	8 Sep	94.3 1	-1								
B1	9 Sep	50.0									
B2	13 Sep	81.9 1	-1								
"	14 Sep	30.7									
"	15 Sep	127.1				1-1			2-17		
"	18 Sep							12-15			
"	19 Sep	9.6									
"	22 Sep							3-3			1-2
B1	23 Sep	140.4									
"	24 Sep	87.5 7	-8								
	Total	621.6 9	-10			1-1		15-18	2-17		1-2

## 4. Tissue/biological samples collected

The NFRDI collected biological samples of cetaceans bycaught from coastal fishing gears, or stranded, aiming at contribution to genetic study and pollutant contaminants.

4.2 Samples from directed catches or bycatches

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Species	Area/stock	Calendar	Archived	Tissue type(s)*	Contact person/institute
		vear/ season	(Y/N)		
Minke whale	East Sea	14	Y	Skin, blubber, muscle	Z. G. KIM/NFRDI
	South Sea	6	Y	" " "	

4.3 Samples from stranded animals

Skin, muscle	Z. G. KIM/NFRDI
Ski	in, muscle

## 6. Statistics for large cetaceans

All bycatches from coastal fishing gears were obligatorily reported to marine police and fisheries authorities in accordance with the guideline of the MOMAF.

6.2 Other non-natural mortality for the calendar year 2001

Species	Area/stock	Males	Females	Total	Cause	Methodology
Minke whale	East Sea	7	25	132	Entangled	Postmortem
			1	4	Drifted	
				1	Stranded	
	South Sea	3	6	11	Entangled	
		1	1	2	Drifted	
	Yellow Sea		1	5	Entangled	
			4	5	Stranded	

#### 7. Statistics for small cetaceans

7.1 For the calendar year 2001

		Directed catch		I	Live- capture		
Species	Area/stock	Reported	Est. total	Reported	Est. total	Source*	Reported
Baird's beaked whale	East Sea			1		Gillnet	
				2		Stranded	
Stejneger's beaked whale	East Sea			1		Stranded	
				3		Drifting	
Risso's dolphin	East Sea			4		Purse seiner	
				5		Gillnet	
				4		Set net	
				1		Long line	
				2		Trap net	
				9		Unidentified	

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Common dolphin	East Sea	18	Purse seiner
		1	Long line
		8	Gillnet
		32	Set net
		3	Trap net
		2	Stranded
		1	Drifted
	South Sea	1	Drifted
Pacific white-sided dolphin	East Sea	21	Gillnet
1		14	Set net
		3	Trap net
		2 3	Stranded
		3	Unidentified
Bottlenose dolphin	East Sea	1	Gillnet
_		1	Set net
		1	Trawl
Rough-toothed dolphin	South Sea	1	Stranded
Dall's porpoise	East sea	1	Gillnet
		1	Set net
Harbour porpoise	East Sea	1	Long line
		57	Gillnet
		29	Set net
		1	Stranded
		1	Drifted
Finless porpoise	East Sea	5	Gillnet
			Set net
		2 2	Stranded
		2	Drifted
	South Sea	4	Stranded
		2	Drifted

# 8. Strandings

Information of stranded cetaceans was collected in the same way as bycatch according to the guideline of the MOMAF. Data of stranded cetaceans are included in item 7.

# 9. Other studies and analysis

## 10. Literature cited

## 11. Publications