List of data collected by the NEWREP-A 2015/16. Items Data Whale abundance estimate\* Weather data\*\*\* 115 days Effort data\*\*\* 115 days Sighting record of whales\*\*\* 1,472 schools Angle and distance experiments\*\*\* 320 times Ice edge line \*\*\* 115°E-170°W Environmental data Temperature and salinity profile (CTD)\*\* 37 stations Echo sound (krill distribution/abundance)\*\* 31 days 0 observation Marine debris (sea surface) Antarctic minke whale\* Catching date and location\*\*\* 333 individuals Photographic record of external character 333 individuals Record of internal and external parasites 333 individuals Sex and body length\*\*\* 333 individuals Body proportion for stock structure\* 333 individuals Skull measurements (length and breadth) for stock 310 individuals structure\* Satellite tracking for stock structure and feeding ecology\* 3 individuals Body weight for feeding ecology\*\* 333 individuals Organ weight including fat weight for feeding ecology\*\* 5 individuals Diatom film record for feeding ecology\*\* 333 individuals Blubber thickness for feeding ecology\*\* 333 individuals Stomach content: freshness and weight for feeding 333 individuals ecology\*\* Diving behaviour for feeding ecology\*\* Testis weight for reproductive study\*\*\* 103 individuals Mammary gland: lactation status and measurement for 230 individuals reproductive study Foetal number, sex, length and weight for reproductive study158 individuals Marine debris (stomach) 0 individuals Gross pathological observation and sampling 333 individuals

Appendix 1

\* Data or samples to be used for Main Objective I; \*\* data or samples to be used for Main Objective II (Other items will be used for other research purposes); \*\*\* data or samples to be used for Main Objectives I and II.

List of sample collected by the NEWREP-A 2015/16.

Photo-ID

Other large whales

Items		Sample
Antarctic minke		
whale*		
	Prey species in stomach for feeding ecology**	47 individuals
	Faeces and contents from the large intestine for feeding ecology**	0 individuals
	Testis for reproductive study***	103 individuals
	Ovary for corpora counting and reproductive study***	230 individuals
	Mammary grand and endometrium for reproductive study	230 individuals

82 individuals

	Earplug for age determination***	333 individuals
	Ocular lens for age determination***	333 individuals
	Baleen plates for age determination and stable isotope study***	26 individuals
	Tissue samples for genetic study***	333 individuals
	Tissue and organ samples for chemical study***	333 individuals
	Tissue and plasma samples for physiological study***	333 individuals
	Vertebral epiphyses for physical maturity	307 individuals
	Skin sample (biopsy)	10 individuals
Other large whales	Skin sample (biopsy)	40 individuals

\* Data or samples to be used for Main Objective I; \*\* data or samples to be used for Main Objective II (Other items will be used for other research purposes); \*\*\* data or samples to be used for Main Objective I I and II.

Number of total sighted whales in the NEWREP-A 2015/16 (school / individual).

Species	Tran	nsit to	RA (		Rese	earch	area		Tran	isit fr	om R	A	Sub	total			Tota	ıl
	Prin	nary	Seco	ondar	Prim	nary	Seco	ondar	Prim	nary	Seco	ondar	Prin	nary	Seco	ondar		
			у				у				у				у			
	Sch.	Ind.	Sch.	Ind.	Sch.	Ind.	Sch.	Ind.	Sch.	Ind.	Sch.	Ind.	Sch.	Ind.	Sch.	Ind.	Sch.	Ind.
Blue whale	0	0	0	0	14	25	6	9	0	0	2	2	14	25	8	11	22	36
Fin whale	2	2	0	0	14	37	10	25	0	0	0	0	16	39	10	25	26	64
Sei whale	1	2	0	0	0	0	0	0	4	4	0	0	5	6	0	0	5	6
Antarctic minke whale	e1	1	0	0	476	1,33 9	80	219	0	0	3	4	477	1,34 0	83	223	560	1,56 3
Like Antarctic minke whale	0	0	0	0	7	7	0	0	0	0	0	0	7	7	0	0	7	7
Humpback whale	0	0	0	0	525	1,12 8	136	302	0	0	7	22	525	1,12 8	143	324	668	1,45 2
Southern right whale	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	1	2	2
Baleen whale	0	0	2	2	18	24	2	2	0	0	0	0	18	24	4	4	22	28
Sperm whale	4	4	0	0	19	19	2	2	0	0	2	2	23	23	4	4	27	27
Southern bottlenose whale	0	0	0	0	2	4	0	0	0	0	0	0	2	4	0	0	2	4
Arnoux's beaked whale	0	0	0	0	2	20	1	7	0	0	0	0	2	20	1	7	3	27
Unid. beaked whale	1	2	1	3	15	17	2	2	4	5	0	0	20	24	3	5	23	29
Killer whale	0	0	0	0	26	241	3	18	0	0	0	0	26	241	3	18	29	259

Species	No. of individuals photographed individuals collected	No. of biopsy
Blue whale	24	8
Fin whale	0	7
Humpback whale	36	15
Southern right whale	1	1
Killer whale	21	9
Total	82	40