

A database on social structure, environment, prey and life–history of the superfamily Dolphinoidea (Delphinidae, Phocoenidae, Monodontidae)

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The data for the current database has been gathered from published and unpublished literature that was available to the author until Friday 13th November, 1998 (this document below: Gygax, 1998b,a).

A case in the data base has been defined by each (independent) study that reported some measure of group size (details on what measures are considered are given in the section Measures of group size and structure). This information of group size has been complemented with variables describing the habitat, the diet and the life history of the species involved (details are given below).

Habitat variables were either reported in the publications or estimated from geographical maps and maps of sea surface temperature (Schweitzer, 1997).

For the diet a special data base was constructed where all diet compositions were listed by species and region. Each case in the main data base was complemented with one diet description from the diet data base according to species and region. If several group measures and diet compositions were available for the same region they were randomly assigned. If no diet composition was available for a given location the geographically closest location was chosen and an indicator variable set to 1 (see also further below).

The data on life history was assigned to the observation of group sizes in an analogous way. Three special data bases were created: one for size data, one for reproductive data and one for maturation data.

For more details on all variables, see the section Univariate summary. In the following names written in *italic* are meant to be variable names, names in **typewriter style** are the different levels of a categorical variable.

Some variables (or groups of variables) come with an additional variable giving sample sizes, i. e. number of observations used to calculate a given value, and/or with an indicator variable (“pop–indicator”) which is set to 1 when the given value is from a population from a different region (otherwise the value is 0). If, for certain characteristics, several studies from different regions reported the same values, the pop–indicator is set to 0 even for the populations where

the information is not available, because it is then assumed that this is a general characteristic of the species. Which of these variables and how they are included in the analysis is discussed in the papers that are based on the current database.

Measures of group size and structure

Observed group size: For the observation of groups of small toothed whales the following descriptive statistics were either given or calculated: *mean observed group size*, *standard deviation of observed group size*, *median observed group size* and the *inter-quartile range of observed group size*.

Perceived group size: These variables give the values of group size as perceived by the animals in the group (i. e. a group of three animals would be counted three times, a group of fifty would be counted fifty times, once for each individual Jarman, 1974): *mean perceived group size*, *standard deviation of perceived group size*, *median perceived group size* and the *inter-quartile range of perceived group size*.

Other measures of group size: Independent of whether one works with observed or perceived group size the same value results for *minimum group size* and *maximum group size*.

An additional variable gives the *number of observed groups* that are included in calculating the measures of group size.

Other measures of sociality: Rather little information is available for many species regarding the *fluidity* and the *structure* of groups.

Ideally *group fluidity* would be measured by the association indices observed between different age-sex classes. Unfortunately there are only very few populations for which this information is available. Thus only a rough coding is possible. (1) **Low fluidity:** groups are highly stable. Typical example: killer whales and pilot whales with average association indices of about 0.6 (Jacobson, 1990; Bigg *et al.*, 1990) and 0.4 (Heimlich-Boran, 1993), respectively. (2) **Moderate fluidity:** groups are quite variable but show a certain pattern. Typical example: bottlenose dolphins with association indices of usually somewhat lower than 0.2 (Weller, 1991; Harzen, 1995; Wilson, 1995; Ballance, 1990; Bräger *et al.*, 1994; Smolker *et al.*, 1992; Caldwell, 1997; Félix, 1997). (3) **High fluidity:** groups change very quickly. Typical example: spotted dolphins with indices of less than 0.1 on average (Dudzinski, 1996), possibly spinner (Östman, 1994; Norris *et al.*, 1994) and also most offshore dolphins. As very little is known about the exact details of the fluidity of offshore groups of dolphins **moderate fluidity** and **high fluidity** are lumped in one class. There is a *pop-indicator* variable for *fluidity*.

The *group structure* should reflect the composition of the groups (and are correlated with the way a species disperses). Here more details should be known as well and again only a rough coding is possible: (1) **Matrifocal:** groups consist of animals of both sexes that were born into the group (e. g. killer whales, Bigg *et al.*, 1990). (2) **Fission-fusion:** groups are of variable composition of one or both sexes and usually only one sex (the females?) are observed in their natal group (e. g. Scott *et al.*, 1990). (3) **Mixed:** these are all species of which little is known about the details of group structure but mixed groups have been observed (this group is likely to be highly variable as it might consist of several types). (4) **Segregated:** Species where some sexual segregation has been observed (e. g. the Monodontidae, Koski and Davis, 1994; Smith *et al.*, 1994; Brodie, 1989). (5) **Familial:** species that usually occur in core families (e. g.

Sotalia spp., Geise, 1991; da Silva and Best, 1994). There is a *pop-indicator* variable with the *group structure*.

The *lifestyle* indicates whether the animals under observation are **resident**, **migratory** (transient) or whether they show a **mixed** pattern and also comes with a *pop-indicator*.

“Phylogeny”

The *species* in the data base include (in alphabetical order): *Australophocoena dioptrica*, *Cephalorhynchus commersoni*, *Cephalorhynchus eutropia*, *Cephalorhynchus heavisidi*, *Cephalorhynchus hectori*, *Delphinapterus leucas*, *Delphinus delphis*, *Feresa attenuata*, *Globicephala macrorhynchus*, *Globicephala melas*, *Grampus griseus*, *Lagenodelphis hosei*, *Lagenorhynchus acutus*, *Lagenorhynchus albirostris*, *Lagenorhynchus australis*, *Lagenorhynchus cruciger*, *Lagenorhynchus obliquidens*, *Lagenorhynchus obscurus*, *Lissodelphis borealis*, *Lissodelphis peroni*, *Monodon monoceros*, *Neophocoena phocoenoides*, *Orcaella brevirostris*, *Orcinus orca*, *Peponcephala electra*, *Phocoena phocoena*, *Phocoena sinus*, *Phocoena spinipinnis*, *Phocoenoides dalli*, *Pontoporia blainvillei*, *Pseudorca crassidens*, *Sotalia* spp., *Sousa* spp., *Stenella albirostris*, *Stenella attenuata*, *Stenella clymene*, *Stenella coeruleoalba*, *Stenella frontalis*, *Stenella longirostris*, *Stenella plagiodon*, *Steno bredanensis*, *Tursiops aduncus*, *Tursiops truncatus*

The following *regions* were identified: North West Atlantic (West of 30 degrees West), North East Atlantic and Baltic Sea (East of 30 degrees West), Mediterranean, South West Atlantic (West of 30 degrees West), South African waters, Indian Ocean, Australian Waters (coast and shelf), North West Pacific (West of 170 degrees West), North East Pacific (East of 170 degrees West), South West Pacific (West of 130 degrees West), South East Pacific (East of 130 degrees West), Arctic Waters (Bering Sea and farther North, Polar Sea and waters around Greenland) and Antarctic Waters (South of Antarctic Current).

Physical environment

The *habitat*: is characterized as either riverine, inshore, coastal, continental shelf and slope or offshore. These are coded with the values from 0 to 5. Observations of one presumable population of a species that stretch across several of these categories were assigned a mean value.

The *habitat structure* is low (straight coastline, open ocean), moderate (some islands with smooth outlines, convoluted underwater topography on the shelf or shelf slope) or high (convoluted coastline or many island or islands with convoluted coastline). These are coded with the values 1, 3 and 5. Intermediate values (2 and 4) were also allowed.

The *latitude* of the location of observation is measured in degrees from the South Pole (thus 0 to 180 deg).

The *typical temperature* is the measure of the water temperature in degrees (summary is given in Celsius, calculations were done in Kelvin) during the time and in the area of the observations. The *range of temperature* is the average maximum minus average minimum temperature at the locations where the animals were observed and the *variability of temperature* is the *range of temperature* divided by the *typical temperature*.

The *typical depth* is the measure of water depth in the area of the observations. The *range of depths* is the maximum minus minimum depth where the animals were observed and the *depth contour index* is the *range of depth* divided by the *typical depth*.

Life history parameters

Additional variables give information on (a) the size of the animals: *length of females* (with *number of observations*), *weight of females* (with *number of observations*), *length of males* (with *number of observations*), *weight of males* (with *number of observations*), *length dimorphism* (length of females / length of males), *weight dimorphism* (weight of females / weight of males). All size variables together have one *pop-indicator*.

(b) the reproductive parameters: *seasonality* of reproduction (**yes**: at most two striking birth peaks, each lasting up to three months; **no**: otherwise, year-round births), *length of gestation*, *length of lactation*, *calving interval*. For all reproductive variables together there is a *number of observations* and one *pop-indicator*.

(c) the maturation: *age of females at maturation* (with *number of observations*), *length of females at maturation* (with *number of observations*), *age of males at maturation* (with *number of observations*), *length of males at maturation* (with *number of observations*), *maximum life span of females*, *maximum life span of males*. All maturation variables together have again one *pop-indicator*.

Food

Four main food categories are considered: small invertebrates (mainly crustacea), cephalopods, fish and mammals & birds. For each category there is information on whether they occurred in the diet of a species at all (a yes-no variable), how frequent they were (in how many of the investigated cases/stomachs) and in what proportion they were found. The proportion was estimated by different *methods*: according to the number of **items**, the **weight**, the **volume**, the **energy**, the number of **observations** of prey captures or a mean over different methods (**mixed**). Additionally the *number of observations* is given and the *pop-indicator*.

Occurrence, frequency and proportion are sometimes combined in an index of relative importance. Such an index is not included as a variable but the additive or multiplicative effect of the occurrence, frequency and proportion can account for it in a statistical model.

Each of the four food categories is additionally divided in those species that occur at the surface (epipelagic), in the water column (mesopelagic) or on the ground (benthic). An even finer split is achieved by considering whether the food organisms occur singly, both singly and in swarms or only in swarms (groups with more than one individual).

Thus occurrence, frequency and proportion data is available for (1) the unsplit food categories (total 12 variables), (2) the food categories split by where they occur in the water column (total 36 variables) and (3) food categories split by the occurrence in the water column and their grouping patterns (total 108 variables).

Whereas information on the food category is available for all food species the occurrence in the water column is less well known and the knowledge of grouping patterns is even more sketchy. Thus there is an increasing exactness of the life pattern of the food species with the finer splitting but at the same time fewer and fewer prey species can be classified with high reliability.

Univariate summary

Table 1: Univariate summaries of all variables in the main database.

Variable	Type ^a	NIO ^b	NAs ^c	mean	STD ^d	min	med ^e	max	TF ^f
				or: number of cases on each level ^g					
MEASURES OF GROUP SIZE AND STRUCTURE									
observed group sizes:									
<i>mean</i>	c	–	32	45	107	1	10	1040	log
<i>standard deviation</i>	c	–	103	52	149	0	8	1462	log
<i>median</i>	c	–	180	28	71	1	6	500	log
<i>inter–quartile range</i>	c	–	221	49	155	0	7	1457	log
perceived group sizes:									
<i>mean</i>	c	–	224	132	358	1	19	3148	log
<i>standard deviation</i>	c	–	225	92	306	0	11	3449	log
<i>median</i>	c	–	225	116	280	1	14	2000	log
<i>inter–quartile range</i>	c	–	226	131	399	0	15	4000	log
other group sizes:									
<i>minimum</i>	c	–	89	5	16	1	1	200	log
<i>maximum</i>	c	–	88	365	1310	1	40	10000	log
<i>number of groups</i>	c	–	0	208	1131	1	25	21406	log
other measures of sociality:									
<i>fluidity</i>	o2	–	0	yes: 360, no: 120				none	
<i>pop–indicator</i>	o2	–	0	1: 293, 0: 187				none	
<i>structure</i>	n5	–	0	mix: 167, fifu: 145, 3 levels: 168				none	
<i>pop–indicator</i>	o2	–	0	1: 290, 0: 190				none	
<i>lifestyle</i>	o3	–	0	mig: 271, res: 116, mix: 93				none	
<i>pop–indicator</i>	o2	–	0	1: 373, 0: 107				none	
PHYLOGENY									
<i>species</i>	n40	–	0	O.o: 82, T.t: 81, 38 levels: 317				none	
<i>region</i>	n13	–	0	nep: 122, nea: 76, 11 levels: 282				none	

^a c: (pseudo-)continuous, n: nominal, o: ordered; a number indicates the number of levels for nominal and ordered variables ^b number of independent observations in specific data bases ^c number of missing values in main data base (Total of cases: 480) ^d standard deviation ^e median ^f transformation used for statistical analysis; log: logarithm) ^g the number of cases of the two most common levels are given followed by the number of additional levels and their summed number of cases

Variable	Type ^a	NIO ^b	NAs ^c	mean	STD ^d	min	med ^e	max	TF ^f
or: number of cases on each level									
PHYSICAL ENVIRONMENT									
<i>habitat</i>	c	–	0	3.04	1.24	0	3.5	5	none
<i>structure</i>	c	–	0	1.94	1.14	1	2	5	none
<i>latitude</i>	c	–	0	110	37	15	125	167	none
temperature									
<i>typical</i>	c	–	0	17	8	0	18	30	log
<i>range</i>	c	–	0	9	5	1	8	26	log
<i>variability</i>	c	–	0	1.87	7.88	0.04	0.5	70	log
depth									
<i>typical</i>	c	–	0	1005	1366	2	300	5000	log
<i>range</i>	c	–	0	1791	1712	4	2000	8000	log
<i>contour index</i>	c	–	0	5.38	11.27	0.2	3	100	log
LIFEHISTORY PARAMETERS									
size:									
<i>pop-indicator</i>	o2	–	0			1: 317, 0: 163			none
females									
<i>length</i>	c	92	0	311	184	125	245	795	log
<i># observations</i>	c	92	0	186	386	1	65	1967	log
<i>weight</i>	c	24	309	150	127	33	165	900	log
<i># observations</i>	c	24	309	325	463	2	164	1297	log
males									
<i>length</i>	c	80	0	343	228	100	255	905	log
<i># observations</i>	c	80	0	146	264	1	44	1416	log
<i>weight</i>	c	22	311	182	230	35	176	1600	log
<i># observations</i>	c	22	311	230	282	8	140	813	log
dimorphism									
<i>size</i>	c	80	0	0.95	0.11	0.72	0.96	1.8	log
<i>weight</i>	c	22	311	0.93	0.18	0.56	0.9	1.4	log

^a , ^b , ^c , ^d , ^e , ^f see begin of Table Univariate summary

Variable	Type ^a	NIO ^b	NAs ^c	mean	STD ^d	min	med ^e	max	TF ^f
or: number of cases on each level									
LIFEHISTORY PARAMETERS									
(cont.)									
reproduction:									
<i>seasonality</i>	o2	61	0	weak: 332, yes: 120, unknown: 28				none	
<i>gestation</i>	c	51	99	12	1	9	12	16	log
<i>lactation</i>	c	36	210	17	9	2	20	42	log
<i>calving</i>	c	42	133	39	14	15	36	84	log
<i># observations</i>	c	65	26	226	453	1	100	1925	log
<i>pop-indicator</i>	o2	–	23	1: 346, 0: 111				none	
maturation:									
<i>pop-indicator</i>	o2	–	69	1: 295, 0: 116				none	
females									
<i>age</i>	c	43	93	9	3	3	9	15	log
<i># observations</i>	c	43	93	187	337	2	100	1800	log
<i>length</i>	c	43	92	261	133	130	178	495	log
<i># observations</i>	c	43	92	190	344	2	100	1800	log
<i>max. age</i>	c	13	259	44	15	18	40	70	log
males									
<i>age</i>	c	39	109	11	4	3	14	17	log
<i># observations</i>	c	39	109	151	293	2	100	1978	log
<i>length</i>	c	41	97	305	169	105	240	590	log
<i># observations</i>	c	41	97	145	293	1	100	1978	log
<i>max. age</i>	c	11	266	37	7	18	40	45	log

^a , ^b , ^c , ^d , ^e , ^f see begin of Table Univariate summary

Variable	Type ^a	NIO ^b	NAs ^c	mean	STD ^d	min	med ^e	max	TF ^f			
				or: number of cases on each level								
FOOD												
<i># observations</i>	c	422	3	37	86	1	10	790	log			
<i>pop-indicator</i>	o2	–	4		0: 331, 1: 145				none			
<i>method</i>	n5	170	189	ite: 162, mix: 79, 3 levels: 50				none				
<i>TM</i> ^g	<i>CP</i> ^h	<i>LW</i> ⁱ	<i>PG</i> ^j									
o	i	–	–	o2	422	3		0: 376, 1: 104		none		
o	c	–	–	o2	422	3		1: 345, 0: 135		none		
o	f	–	–	o2	422	3		1: 406, 0: 74		none		
o	m	–	–	o2	422	3		0: 407, 1: 73		none		
f	i	–	–	c	109	255	10	21	0	0	100	none
f	c	–	–	c	109	255	44	33	0	50	100	none
f	f	–	–	c	109	255	60	31	0	68	100	none
f	m	–	–	c	109	255	6	22	0	0	100	none
p	i	–	–	c	170	170	1	6	0	0	71	none
p	c	–	–	c	170	170	30	38	0	9	100	none
p	f	–	–	c	170	170	64	39	0	85	100	none
p	m	–	–	c	170	170	3	15	0	0	100	none

^a, ^b, ^c, ^d, ^e, ^f see begin of Table Univariate summary ^g type of measure; o: occurrence, f: frequency, p: proportion ^h class of prey species; i: invertebrates, c: cephalopods, f: fish, m: mammals and birds ⁱ location of prey in water column; e: epipelagic, m: mesopelagic, b: benthic ^j prey grouping; s: single prey, m: mixed, g: grouping prey

Variable				Type ^a	NIO ^b	NAs ^c	mean	STD ^d	min	med ^e	max	TF ^f
TM ^g	CP ^h	LW ⁱ	PG ^j				or: number of cases on each level					
o	i	e	–	o2	422	3		0: 476, 1: 4				none
o	i	m	–	o2	422	3		0: 393, 1: 87				none
o	i	b	–	o2	422	3		0: 441, 1: 39				none
o	c	e	–	o2	422	3		0: 241, 1: 239				none
o	c	m	–	o2	422	3		0: 288, 1: 192				none
o	c	b	–	o2	422	3		0: 335, 1: 145				none
o	f	e	–	o2	422	3		1: 316, 0: 164				none
o	f	m	–	o2	422	3		1: 289, 0: 191				none
o	f	b	–	o2	422	3		1: 257, 0: 223				none
o	m	e	–	o2	422	3		0: 407, 1: 73				none
o	m	m	–	o2	422	3		0: 475, 1: 5				none
o	m	b	–	o2	422	3		0: 480				none
f	i	e	–	c	109	255	0	7	0	0	100	none
f	i	m	–	c	109	255	8	19	0	0	100	none
f	i	b	–	c	109	255	5	15	0	0	100	none
f	c	e	–	c	109	255	26	33	0	12	100	none
f	c	m	–	c	109	255	21	29	0	2	100	none
f	c	b	–	c	109	255	17	26	0	0	100	none
f	f	e	–	c	109	255	32	33	0	17	100	none
f	f	m	–	c	109	255	32	32	0	25	100	none
f	f	b	–	c	109	255	27	29	0	13	100	none
f	m	e	–	c	109	255	6	22	0	0	100	none
f	m	m	–	c	109	255	0	0	0	0	1	none
f	m	b	–	c	109	255	0	0	0	0	0	none
p	i	e	–	c	170	170	0	4	0	0	71	none
p	i	m	–	c	170	170	1	5	0	0	52	none
p	i	b	–	c	170	170	0	1	0	0	5	none
p	c	e	–	c	170	170	13	25	0	1	100	none
p	c	m	–	c	170	170	6	17	0	0	97	none
p	c	b	–	c	170	170	11	24	0	0	100	none
p	f	e	–	c	170	170	18	30	0	1	100	none
p	f	m	–	c	170	170	24	34	0	4	100	none
p	f	b	–	c	170	170	22	30	0	3	100	none
p	m	e	–	c	170	170	3	15	0	0	100	none
p	m	m	–	c	170	170	0	0	0	0	1	none
p	m	b	–	c	170	170	0	0	0	0	0	none

^a , ^b , ^c , ^d , ^e , ^f see begin of Table Univariate summary ^g ^h ⁱ ^j see begin of food

Variable				Type ^a	NIO ^b	NAs ^c	mean	STD ^d	min	med ^e	max	TF ^f
TM ^g	CP ^h	LW ⁱ	PG ^j				or: number of cases on each level					
o	i	e	s	o2	422	3		0: 480				none
o	i	e	m	o2	422	3		0: 476, 1: 4				none
o	i	e	g	o2	422	3		0: 480				none
o	i	m	s	o2	422	3		0: 480				none
o	i	m	m	o2	422	3		0: 393, 1: 87				none
o	i	m	g	o2	422	3		0: 480				none
o	i	b	s	o2	422	3		0: 479, 1: 1				none
o	i	b	m	o2	422	3		0: 442, 1: 38				none
o	i	b	g	o2	422	3		0: 480				none
o	c	e	s	o2	422	3		0: 472, 1: 8				none
o	c	e	m	o2	422	3		0: 247, 1: 233				none
o	c	e	g	o2	422	3		0: 436, 1: 44				none
o	c	m	s	o2	422	3		0: 480				none
o	c	m	m	o2	422	3		0: 300, 1: 180				none
o	c	m	g	o2	422	3		0: 439, 1: 41				none
o	c	b	s	o2	422	3		0: 468, 1: 12				none
o	c	b	m	o2	422	3		0: 350, 1: 130				none
o	c	b	g	o2	422	3		0: 444, 1: 36				none
o	f	e	s	o2	422	3		0: 470, 1: 10				none
o	f	e	m	o2	422	3		0: 330, 1: 150				none
o	f	e	g	o2	422	3		1: 275, 0: 205				none
o	f	m	s	o2	422	3		0: 475, 1: 5				none
o	f	m	m	o2	422	3		1: 278, 0: 202				none
o	f	m	g	o2	422	3		0: 419, 1: 61				none
o	f	b	s	o2	422	3		0: 431, 1: 49				none
o	f	b	m	o2	422	3		0: 244, 1: 236				none
o	f	b	g	o2	422	3		0: 331, 1: 149				none
o	m	e	s	o2	422	3		0: 442, 1: 38				none
o	m	e	m	o2	422	3		0: 455, 1: 25				none
o	m	e	g	o2	422	3		0: 412, 1: 68				none
o	m	m	s	o2	422	3		0: 480				none
o	m	m	m	o2	422	3		0: 480				none
o	m	m	g	o2	422	3		0: 475, 1: 5				none
o	m	b	s	o2	422	3		0: 480				none
o	m	b	m	o2	422	3		0: 480				none
o	m	b	g	o2	422	3		0: 480				none

^a, ^b, ^c, ^d, ^e, ^f see begin of Table Univariate summary ^g ^h ⁱ ^j see begin of food

Variable				Type ^a	NIO ^b	NAs ^c	mean	STD ^d	min	med ^e	max	TF ^f
TM ^g	CP ^h	LW ⁱ	PG ^j				or: number of cases on each level					
f	i	e	s	c	109	255	0	0	0	0	0	none
f	i	e	m	c	109	255	0	7	0	0	100	none
f	i	e	g	c	109	255	0	0	0	0	0	none
f	i	m	s	c	109	255	0	0	0	0	0	none
f	i	m	m	c	109	255	8	19	0	0	100	none
f	i	m	g	c	109	255	0	0	0	0	0	none
f	i	b	s	c	109	255	0	0	0	0	0	none
f	i	b	m	c	109	255	5	15	0	0	100	none
f	i	b	g	c	109	255	0	0	0	0	0	none
f	c	e	s	c	109	255	2	13	0	0	100	none
f	c	e	m	c	109	255	21	30	0	8	100	none
f	c	e	g	c	109	255	6	17	0	0	100	none
f	c	m	s	c	109	255	0	0	0	0	0	none
f	c	m	m	c	109	255	15	24	0	0	100	none
f	c	m	g	c	109	255	8	22	0	0	100	none
f	c	b	s	c	109	255	1	5	0	0	67	none
f	c	b	m	c	109	255	14	25	0	0	100	none
f	c	b	g	c	109	255	5	17	0	0	100	none
f	f	e	s	c	109	255	0	1	0	0	4	none
f	f	e	m	c	109	255	12	23	0	0	100	none
f	f	e	g	c	109	255	26	31	0	12	100	none
f	f	m	s	c	109	255	0	1	0	0	7	none
f	f	m	m	c	109	255	31	32	0	25	100	none
f	f	m	g	c	109	255	4	12	0	0	90	none
f	f	b	s	c	109	255	3	8	0	0	38	none
f	f	b	m	c	109	255	21	27	0	9	100	none
f	f	b	g	c	109	255	12	21	0	0	100	none
f	m	e	s	c	109	255	4	17	0	0	84	none
f	m	e	m	c	109	255	0	7	0	0	100	none
f	m	e	g	c	109	255	5	21	0	0	100	none
f	m	m	s	c	109	255	0	0	0	0	0	none
f	m	m	m	c	109	255	0	0	0	0	0	none
f	m	m	g	c	109	255	0	0	0	0	1	none
f	m	b	s	c	109	255	0	0	0	0	0	none
f	m	b	m	c	109	255	0	0	0	0	0	none
f	m	b	g	c	109	255	0	0	0	0	0	none

^a , ^b , ^c , ^d , ^e , ^f see begin of Table Univariate summary ^g ^h ⁱ ^j see begin of food

Variable				Type ^a	NIO ^b	NAs ^c	mean	STD ^d	min	med ^e	max	TF ^f
TM ^g	CP ^h	LW ⁱ	PG ^j				or: number of cases on each level					
p	i	e	s	c	170	170	0	0	0	0	0	none
p	i	e	m	c	170	170	0	4	0	0	71	none
p	i	e	g	c	170	170	0	0	0	0	0	none
p	i	m	s	c	170	170	0	0	0	0	0	none
p	i	m	m	c	170	170	1	5	0	0	52	none
p	i	m	g	c	170	170	0	0	0	0	0	none
p	i	b	s	c	170	170	0	0	0	0	0	none
p	i	b	m	c	170	170	0	1	0	0	5	none
p	i	b	g	c	170	170	0	0	0	0	0	none
p	c	e	s	c	170	170	1	6	0	0	83	none
p	c	e	m	c	170	170	9	20	0	0	100	none
p	c	e	g	c	170	170	3	12	0	0	97	none
p	c	m	s	c	170	170	0	0	0	0	0	none
p	c	m	m	c	170	170	6	15	0	0	96	none
p	c	m	g	c	170	170	1	8	0	0	95	none
p	c	b	s	c	170	170	0	1	0	0	12	none
p	c	b	m	c	170	170	10	23	0	0	100	none
p	c	b	g	c	170	170	1	6	0	0	77	none
p	f	e	s	c	170	170	0	0	0	0	0	none
p	f	e	m	c	170	170	4	13	0	0	64	none
p	f	e	g	c	170	170	13	26	0	0	100	none
p	f	m	s	c	170	170	0	0	0	0	0	none
p	f	m	m	c	170	170	22	32	0	4	100	none
p	f	m	g	c	170	170	2	13	0	0	97	none
p	f	b	s	c	170	170	0	2	0	0	12	none
p	f	b	m	c	170	170	15	25	0	0	89	none
p	f	b	g	c	170	170	7	16	0	0	92	none
p	m	e	s	c	170	170	2	12	0	0	94	none
p	m	e	m	c	170	170	0	1	0	0	4	none
p	m	e	g	c	170	170	1	6	0	0	49	none
p	m	m	s	c	170	170	0	0	0	0	0	none
p	m	m	m	c	170	170	0	0	0	0	0	none
p	m	m	g	c	170	170	0	0	0	0	1	none
p	m	b	s	c	170	170	0	0	0	0	0	none
p	m	b	m	c	170	170	0	0	0	0	0	none
p	m	b	g	c	170	170	0	0	0	0	0	none

^a , ^b , ^c , ^d , ^e , ^f see begin of Table Univariate summary ^g ^h ⁱ ^j see begin of food

Correlations among the variables.

Figure 1: Correlation coefficients between all the variables (A: group sizes, B: other social variables, C: physical environment, D: food species, E: life–history parameters). Coefficients above the diagonal are the correlations within the main database and the coefficients below the diagonal from the specific databases. The darker the shading the higher the correlation.

Literature used

The database was put together using the following literature given by species in alphabetical order (please report typos, errors, insufficient references or inconsistencies to the author):

Australophocoena dioptrica: Goodall and Schiavini 1995.

Cephalorhynchus commersoni: Bastida *et al.* 1988, De Buffrenil *et al.* 1989, Clarke and Goodall 1994, Gewalt 1990, Goodall *et al.* 1988b, Goodall 1994b, Kastelein *et al.* 1993, Leatherwood *et al.* 1988, Mermoz 1980, Robineau and Duhamel 1984, Robineau 1985, Robineau and de Buffr enil 1988, Robineau 1989, Stewardson and Child 1997.

Cephalorhynchus eutropia: Goodall *et al.* 1988a, Goodall 1994a, Leatherwood *et al.* 1988.

Cephalorhynchus heavisidi: Best and Abernethy 1994, Findlay *et al.* 1992, Rice and Saayman 1984, Sekiguchi *et al.* 1992.

Cephalorhynchus hectori: Abel *et al.* 1971, Baker 1978, Cawthorn 1988, Dawson and Slooten 1993, Dawson and Slooten 1996, Slooten and Dawson 1988, Slooten 1991, Slooten *et al.* 1993, Slooten and Dawson 1994, Stone *et al.* 1995.

Delphinapterus leucas: Braham 1984, Brodie 1971, Brodie 1989, Caron and Smith 1990, Cosens and Dueck 1991, Evans 1980, Fish and Vania 1971, Frost and Lowry 1990, Geraci and Smith 1990, Harrison and Hall 1978, Harwood *et al.* 1996, Heide-J orgensen and Teilmann 1994, Kajimura and Loughlin 1988, Kenney and Winn 1986, Martin *et al.* 1993, Michaud *et al.* 1990, Ognetev 1981,  ystein and Isaksen 1995, Richard *et al.* 1990, Seaman *et al.* 1982, Sergeant 1973, Smith and Martin 1994, Stewart 1994.

Delphinus delphis: Azzali *et al.* 1994, Au and Perryman 1985, Ballance and Pitman 1998, Barlow 1995, Berrow and Rogan 1996, Boutiba and Abelghani 1996, Ca adas and Sagarminaga 1996, Cockcroft and Peddermos 1990, Collet 1981, Cresswell and Walker 1998, Dohl *et al.* 1986, Evans 1980, Evans 1982, Evans 1994, Ferrero and Walker 1995, Findlay *et al.* 1992, Fitch and Brownell 1968, Forcada *et al.* 1994, Forney *et al.* 1995, Gallo Reynoso 1991, Gaskin 1968a, Gaskin 1992b, Gonzalez *et al.* 1994, Gowans and Whitehead 1995, Hassani *et al.* 1997, Hui 1979, Hui 1985, Jones 1981, Kenney and Winn 1986, Kruse 1989, Laurent 1991, Major 1986, Martin 1988, Norris *et al.* 1974, Overholtz and Waring 1991, Pascoe 1986, Perrin *et al.* 1983, Perryman and Lynn 1993, Politi *et al.* 1997, Reiner *et al.* 1996, Reilly and Fiedler 1994, Ross 1984, Scott and Cattanach 1998, Sekiguchi *et al.* 1992, Selzer and Payne 1988, Sergeant and Fisher 1957, Shane 1994, Silber 1990a, Silber *et al.* 1994, Silva and Sequeria 1997, Smith *et al.* 1986, Sonntag *et al.* 1997, Young and Cockcroft 1994, Young and Cockcroft 1995.

Feresa attenuata: Ballance and Pitman 1998, Davis *et al.* 1998, Jefferson 1996a, Kenney and Winn 1986, Ross 1984, Ross and Leatherwood 1994, Sekiguchi *et al.* 1992.

Globicephala macrorhynchus: Baird and Stacey 1993, Ballance and Pitman 1998, Davis *et al.* 1998, Gales *et al.* 1992, Heimlich-Boran 1993, Hui 1985, Jefferson 1996a, Kasuya and Marsh 1984, Kasuya *et al.* 1988b, Kasuya and Tai 1993, Kenney and Winn 1986, Overholtz and Waring 1991, Perryman and Foster 1980, Pike and Macaskie 1969, Politi *et al.* 1997, Ross 1984, Seagers and Henderson 1985, Shane 1994, Shane 1995, Sinclair 1992.

Globicephala melas: Amos and Dover 1990, Amos *et al.* 1991, Amos *et al.* 1993, Andersen 1988, Andersen 1993, Andersen and Siegismund 1994, Bloch *et al.* 1993, Cañadas and Sagar minaga 1996, Clarke and Goodall 1994, Cresswell and Walker 1998, Desportes 1993, Evans 1980, Findlay *et al.* 1992, Forcada *et al.* 1994, Gannon 1995, Gannon *et al.* 1997b, Gannon *et al.* 1997a, Gonzalez *et al.* 1994, Gowans and Whitehead 1995, Kasamatsu and Joyce 1995, Kasuya *et al.* 1988a, Kenney and Winn 1986, Leatherwood and Dahlheim 1978, Martin *et al.* 1987, Martin and Rothery 1993, Mercer 1975, Mullin *et al.* 1994a, Overholtz and Waring 1991, P

1994, Kajimura and Loughlin 1988, Kasuya and Jones 1984, Kruse 1989, Leatherwood 1979b, Miyashita 1993, Smith *et al.* 1986, Walker and Jones 1993.

Lissodelphis peroni: Baker 1981, Brown 1973, Cruickshank and Brown 1981, Findlay *et al.* 1992, Gaskin 1968a, Jefferson *et al.* 1994, Newcomer *et al.* 1996, Rose and Payne 1991, Stewardson and Child 1997, Torres and Aguayo 1979, Van Waerebeek *et al.* 1991.

Monodon monoceros: Born *et al.* 1994, Braham 1984, Campbell *et al.* 1988, Cosens and Dueck 1991, Dietz *et al.* 1994, Dietz and Heide Jorgensen 1995, Evans 1980, Finley and Gibb 1982, Geraci and Smith 1990, Hay and Mansfield 1989, Heide-Jørgensen *et al.* 1994, Heide-Jørgensen and Dietz 1995, McKinnon 1994, Koski and Davis 1994, Larsen *et al.* 1994, Mansfield *et al.* 1975, Neve 1996, Reeves and Tracey 1980, Silverman 1979.

Neophocoena phocoenoides: Kasuya and Kureha 1979, Kataoka *et al.* 1976, Shirakihara *et al.* 1992.

Orcaella brevirostris: Freeland and Bayliss 1989, Marsh *et al.* 1989.

Orcinus orca: Anderson and Prince 1985, Arnbom *et al.* 1987, Awbrey 1982, Bain 1990, Baird and Stacey 1987, Baird and Stacey 1988, Baird and Stacey 1989, Baird *et al.* 1992, Baird and Dill 1995, Baird and Dill 1996, Balcomb *et al.* 1982, Baldrige 1972, Barlow 1995, Barr and Barr 1972, Barrett-Lennard 1992, Baranov 1996, Bigg 1982, Bigg *et al.* 1990, Bloch and Lockyer 1988, Braham and Dahlheim 1982, Brennan and Rodriguez 1994, Budylenko 1981, Bychkov 1967, Caldwell and Caldwell 1969, Campbell *et al.* 1988, Christensen 1982, Christensen 1984, Christensen 1988, Condy *et al.* 1978, Constantine *et al.* 1998, Couperus 1994, Cresswell and Walker 1998, Dahlheim 1981, Dahlheim *et al.* 1982, Dahlheim and Towell 1994, Dolphin 1987, Ellis 1987, Evans 1980, Evans *et al.* 1982, Evans 1988, Fertl *et al.* 1996, Findlay *et al.* 1992, Fish and Vania 1971, Florez-Gonzalez *et al.* 1994, Ford and Fisher 1982, Ford 1989, Ford 1991, Forney *et al.* 1995, Frost *et al.* 1992, Gaskin 1968b, George *et al.* 1994, George and Suydam 1998, Goley and Straley 1994, Guinet 1988, Guinet 1990, Guinet 1991, Guinet 1992, Hammond 1984, Hammond and Lockyer 1988, Hancock 1965, Harms 1997, Heide-Jørgensen 1988, Heimlich-Boran 1988, Heise *et al.* 1992, Heyning and Dahlheim 1988, Hodges and Woehler 1994, Hoelzel 1991, Hoelzel 1993, Hoyt 1990, Ivashin and Votrogov 1981, Jacobson 1990, Jefferson *et al.* 1991, Jønsgard 1968, Kajimura and Loughlin 1988, Kasamatsu and Joyce 1995, Kasuya 1971, Kasuya and Jones 1984, Katona *et al.* 1988, Kenney and Winn 1986, Kraus 1990, Kruse 1989, Leatherwood and Dahlheim 1978, Leatherwood *et al.* 1984b, Leatherwood *et al.* 1990, Lien *et al.* 1988b, Lien *et al.* 1988a, Ling 1991, Ljungblad and Moore 1983, Lopez and Lopez 1985, Lowry *et al.* 1987, Lyrholm *et al.* 1987, Lyrholm 1988, Matkin *et al.* 1994, Matkin and Sausalitis 1994, Matkin *et al.* 1997, McBrearty *et al.* 1986, Mikhalev *et al.* 1981, Mitchell and Reeves 1982, Mitchell and Reeves 1988, Miyazaki 1989, Morejohn 1968, Morton 1990, Nichol and Shackleton 1996, Nishiwaki and Handa 1958, Odlum 1948, Øien 1988, Olesiuk *et al.* 1990, O'Sullivan and Mullin 1997, Perryman and Foster 1980, Randall and Randall 1990, Reeves and Mitchell 1988b, Reeves and Mitchell 1988a, Rice 1968, Rice and Saayman 1987, Ridoux 1987, Rose 1992, Ross 1984, Roux 1986, Saulitis 1993, Sergeant and Fisher 1957, Sigurjónsson 1984, Sigurjónsson *et al.* 1988, Silber *et al.* 1988, Silber *et al.* 1994, Similä and Ugarte 1993a, Similä and Ugarte 1993b, Similä 1996, Siniff and Bengston 1977, Smith *et al.* 1981, Stacey *et al.* 1990, Steltner *et al.* 1984, Stewardson and Child 1997, Strager 1995, Straneck *et al.* 1983, Tarpay 1979, Thomas *et al.* 1981, Thomas and Felleman 1988, Voisin 1972, Voisin 1976, Waite 1988, Walters

et al. 1992, Wenzel and Sears 1988, Whitehead and Glass 1985, Williams *et al.* 1990, Würsig and Würsig 1978, Würsig and Würsig 1980, Yano and Dahlheim 1995.

Peponcephala electra: Ballance and Pitman 1998, Jefferson 1996a, Perryman *et al.* 1994, Sekiguchi *et al.* 1992.

Phocoena phocoena: Aarefjord *et al.* 1995, Amano and Miyazaki 1992, Amundin and Amundin 1974, Bandomir-Krischak 1996, Baptist and Witte 1997, Barlow *et al.* 1988, Barlow 1988, Barlow 1995, Berrow and Rogan 1996, Bjørge and Øien 1995, Börjesson and Berggren 1997, Camphuysen and Leopold 1993, Cresswell and Walker 1998, Donovan and Bjørge 1995, Evans 1980, Fontaine *et al.* 1994, Forney *et al.* 1995, Gaskin *et al.* 1974, Gaskin and Watson 1985, Gaskin 1992c, Gaskin *et al.* 1993, Gonzalez *et al.* 1994, Heide-Jørgensen *et al.* 1992, Heide-Jørgensen *et al.* 1993, Hoyt 1990, Jones 1981, Kaarstad *et al.* 1994, Kajimura and Loughlin 1988, Kasuya and Jones 1984, Kenney and Winn 1986, Kremer *et al.* 1994, Kruse 1989, Leopold *et al.* 1992 Lockyer 1995, Malinga *et al.* 1997, McBrearty *et al.* 1986, Neave and Wright 1968, Northridge *et al.* 1995, Øien and Hartvedt 1995, Palka 1995, Palka *et al.* 1996, Rae 1965, Rae 1973, Read and Gaskin 1990, Recchia and Read 1989, Read and Tolley 1997, Read and Westgate 1997, Rogan and Berrow 1996, Scheffer 1953, Sekiguchi 1995, Sergeant and Fisher 1957, Skora *et al.* 1988, Smith and Gaskin 1974, Smith and Gaskin 1983, Sorensen and Kinze 1994, Watson 1976, Watts and Gaskin 1985, Wulf *et al.* 1996, Yasui and Gaskin 1986.

Phocoena sinus: Barlow *et al.* 1997, Brownell 1982, Brownell 1983, Gerrodette *et al.* 1995, Hohn *et al.* 1996, Silber 1990a, Silber 1990b, Silber and Norris 1991, Silber *et al.* 1994.

Phocoena spinipinnis: Brownell and Praderi 1984, Goodall *et al.* 1995b, Goodall *et al.* 1995a, McKinnon 1988, Reyes and van Waerebeek 1995, Würsig *et al.* 1977.

Phocoenoides dalli: Amano and Kuramochi 1992, Amano and Miyazaki 1993, Barlow 1995, Buckland *et al.* 1993, Cowan 1944, Crawford 1981, Ferrero 1998, Forney *et al.* 1995, Jefferson 1987, Jefferson 1988 Jefferson 1990b, Jefferson 1990a, Jefferson 1991, Jones 1981, Kajimura and Loughlin 1988, Kasuya 1978, Kasuya 1982, Kasuya and Jones 1984, Kruse 1989, Kuramochi *et al.* 1993, Loeb 1972, Miller 1989, Miyashita and Kasuya 1988, Miyazaki *et al.* 1984, Mizue *et al.* 1966, Morejohn 1979, Newby 1982, Norris and Prescott 1961, Pike and Macaskie 1969, Scheffer 1949, Scheffer 1953, Shane 1994, Smith *et al.* 1986, Stroud *et al.* 1981, Turnock and Buckland 1995, Walker 1996, Wilke *et al.* 1953, Wilke and Nicholson 1958.

Pontoporia blainvillei: Brownell 1975, Brownell 1989, Fitch and Brownell 1971, Kasuya and Brownell 1979, Pinedo *et al.* 1988.

Pseudorca crassidens: Acevedo-Gutiérrez *et al.* 1997, Baird *et al.* 1989, Ballance and Pitman 1998, Evans 1980, Findlay *et al.* 1992, Jefferson 1996a, Kenney and Winn 1986, McBrearty *et al.* 1986, Palacios and Mate 1996, Perryman and Foster 1980, Ross 1984, Sekiguchi *et al.* 1992, Stacey and Baird 1991a, Stacey *et al.* 1994.

Sotalia spp.: Barros and Teixeira 1994, Borobia *et al.* 1991, Geise 1989, Geise 1991, da Silva and Best 1994, da Silva and Best 1996a, da Silva and Best 1996b, Vidal *et al.* 1997.

Sousa spp.: Barros and Cockcroft 1991, Corkeron 1990, Eyre 1995, Findlay *et al.* 1992, Peddemors and Thompson 1994, Ross 1984, Ross *et al.* 1994, Saayman *et al.* 1972, Saayman and Taylor 1973, Saayman 1979.

Stenella albirostris: Sonntag *et al.* 1997.

Stenella attenuata: Au and Perryman 1985, Ballance and Pitman 1998, Bernard and Hohn 1989, Douglas *et al.* 1984, Edwards 1992, Eyre 1995, Findlay *et al.* 1992, Jefferson and Lynn 1994, Kasuya *et al.* 1974, Kenney and Winn 1986, Mullin *et al.* 1994a, Myrick *et al.* 1986, Nishiwaki 1975, Perrin *et al.* 1973, Perrin *et al.* 1976, Perrin *et al.* 1983, Perrin and Hohn 1994, Reilly and Fiedler 1994, Richard and Barbeau 1994, Robertson and Chivers 1997, Ross 1984, Sekiguchi *et al.* 1992, Scott and Cattanach 1998.

Stenella clymene: Davis *et al.* 1998, Fertl *et al.* 1997, Jefferson 1996b, Jefferson 1996a, Mullin *et al.* 1994b, Perrin *et al.* 1981, Perrin and Mead 1994.

Stenella coeruleoalba: Au and Perryman 1985, Azzali *et al.* 1994, Baird *et al.* 1993b, Ballance and Pitman 1998, Barberis *et al.* 1996, Barlow 1995, Bello 1992, Berrow and Rogan 1996, Blanco *et al.* 1994, Bloch *et al.* 1996, Calzada and Aguiar 1995, Calzada *et al.* 1996, Calzada *et al.* 1997, Cañadas and Sagar minaga 1996, Cresswell and Walker 1998, Di-Méglio and Collet 1994, Di-Méglio *et al.* 1996, Evans 1980, Eyre 1995, Findlay *et al.* 1992, Forcada *et al.* 1994, Giordano 1984, Gowans and Whitehead 1995, Hassani *et al.* 1997, Jefferson 1996a, Kajimura and Loughlin 1988, Kasuya 1972, Kasuya and Miyazaki 1982, Kasuya and Jones 1984, Kenney and Winn 1986, Laurent 1991, Miyazaki *et al.* 1973, Miyazaki 1977, Miyazaki and Nishiwaki 1978, Miyazaki 1984, Nascetti and di Sciara 1997, Nishiwaki 1975, Nishiwaki 1982, Perrin *et al.* 1983, Perrin *et al.* 1994c, Perryman and Lynn 1994, Politi *et al.* 1997, Ross 1984, Sekiguchi *et al.* 1992, Silva and Sequeira 1997, Silva and Sequeira 1997, Smith *et al.* 1986, Würtz and Marrale 1993.

Stenella frontalis: Davis *et al.* 1996, Davis *et al.* 1998, Dudzinski 1996, Fertl and Wuersig 1995, Herzing and Brunnick 1997, Jefferson 1996a, Martin 1986, Martin 1988, Mills and Rademacher 1996, Mullin *et al.* 1994a, Perrin *et al.* 1994a, Politi *et al.* 1997, Richard and Barbeau 1994.

Stenella longirostris: Au and Perryman 1985, Ballance and Pitman 1998, Eyre 1995, Fitch and Brownell 1968, Jefferson 1996a, Kenney and Winn 1986, Norris and Dohl 1980, Norris *et al.* 1994, Östman 1994, Perrin *et al.* 1973, Perrin *et al.* 1976, Perrin *et al.* 1977, Perrin *et al.* 1983, Perrin *et al.* 1989, Perrin and Gilpatrick 1994, Poole 1995, Reilly and Fiedler 1994, Reiner *et al.* 1996, Scott and Cattanach 1998.

Stenella plagiodon: Caldwell and Caldwell 1966.

Steno bredanensis: Ballance and Pitman 1998, Ferrero *et al.* 1994, Jefferson 1996a, Kenney and Winn 1986, Miyazaki and Perrin 1994, Nishiwaki 1975, Perrin and Walker 1975, Steiner 1995.

Tursiops aduncus: Ross 1984, Ross *et al.* 1987, Saayman *et al.* 1973.

Tursiops truncatus: Acevedo 1991, Azzali *et al.* 1994, Baird *et al.* 1993a, Ballance 1990, Ballance 1992, Ballance and Pitman 1998, Barberis *et al.* 1996, Barham *et al.* 1980, Barlow 1995, Barros 1991, Barros 1993, Barros and Wells 1997, Bearzi *et al.* 1996, Berrow *et al.* 1996, Blaylock 1984, Blaylock 1988, Bräger *et al.* 1994, Bompar *et al.* 1994, Caldwell 1996, Cañadas and Sagar minaga 1996, Cockcroft and Ross 1990, Cockcroft and Ross 1990, Connor *et al.* 1992a, Connor *et al.* 1992b, Connor *et al.* 1996, Corkeron *et al.* 1990, Corkeron 1990, Cresswell and Walker 1998, Davis *et al.* 1998, Duffield and Wells 1991, Evans 1980, Eyre 1995, Félix 1994, Félix 1997, Fertl 1995, Fertl and Wilson 1997,

Fernandez and Hohn 1998, Findlay *et al.* 1992, Forcada *et al.* 1994, Forney *et al.* 1995, Gales *et al.* 1992, Gonzalez *et al.* 1994, Gowans and Whitehead 1995, Gruber 1981, Gunar and Caldwell 1997, Gunter 1942, Hamilton and Nishimoto 1977, Hammond and Thompson 1991, Hansen 1983, Hansen 1990, Hanson and Defran 1993, Harzen 1989, Harzen 1995, Hussenot 1980, Irvine *et al.* 1981, Janik 1997, Jefferson and Lynn 1994, Jefferson 1996a, Kasuya and Jones 1984, Kenney and Winn 1986, Kenney 1990, McKinnon 1988, Lauriano 1997, Lear and Bryden 1980, Leatherwood 1975, Leatherwood *et al.* 1978a, Leatherwood *et al.* 1978b, Leatherwood 1979a, Lynn 1995, Marini *et al.* 1996, Martin 1988, McGurk *et al.* 1995, McHugh 1989, McKinnon 1988, Mullin 1988, Mullin *et al.* 1990, Mullin *et al.* 1994a, Nishiwaki 1975, Oehen 1996, Politi *et al.* 1997, Pulcini *et al.* 1997, Read *et al.* 1993, Reiner *et al.* 1996, Relini *et al.* 1994, Rice 1960, Richards 1996, Ross 1984, Rossbach and Herzing 1997, Saayman *et al.* 1972, Saayman and Taylor 1973, Salomon *et al.* 1997, dos Santos and Lacerda 1987, Scott *et al.* 1990, Scott and Wells 1996, Scott and Cattanch 1998, Sekiguchi *et al.* 1992, Shane 1980, Shane *et al.* 1986, Shane 1987, Shane 1990, Shane 1994, Silber 1990a, Silber *et al.* 1994, Silber and Fertl 1995, Silva and Sequeira 1997, Silva and Sequeria 1997, Smith *et al.* 1986, Smolker *et al.* 1992, Taylor and Saayman 1972, Thomas *et al.* 1997, Tregenza 1994, Van Waerebeek *et al.* 1990, Weaver 1987, Weigle 1990, Weller 1991, Wells 1978, Wells 1986, Wells *et al.* 1987, Wells and Scott 1990, Wells *et al.* 1990, Wilson 1995, Würsig and Würsig 1978.

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