

# EAZA Yearbook 2007/2008

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<http://www.eaza.net/activities/cp/Pages/yearbook.aspx>

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## EAZA Penguin TAG

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Gentoo penguin (*Pygoscelis papua*) ESB (by Lesley Garland)

## EAZA Penguin TAG Annual Report 2007 - 2008



### 1. Information on organisation, structure and activities of the TAG

<b>TAG chair:</b>	Miguel Bueno Brinkmann, Madrid-zoo	<a href="mailto:mbueno@grpr.com">mbueno@grpr.com</a>
<b>TAG vice-chair:</b>	Pierre de Wit, Emmen	<a href="mailto:p.dewit@zoo-emmen.nl">p.dewit@zoo-emmen.nl</a>
<b>TAG members:</b>	Clemens Becker (Karlsruhe) Jo Elliott (Edinburgh) Bjarne Klausen (Odense) Matthias Reinschmidt (Puerto-cruz) Harald Schmidt (Rotterdam) Janos Szantho (Amsterdam) Roslin Talbot (Edinburgh) Steven Vansteenkiste (Antwerpen) Sue Woodgate (Alfriston)	
<b>TAG advisors:</b>	<b>General</b> Tom Schenider, Detroit Zoo <b>Behavioural</b> <b>Taxonomy</b> <b>Veterinary</b> Gidona Goodman, Edinburgh Zoo (Royal Zoological Society of Scotland) <b>Nutritional</b> Helena Marqués, Conzoolting Wildlife Management <b>Conservation</b> Yves de Soye, Private, Independent consultant on conservation and climate change <b>Research</b> Andrés Barbosa, National Scientific Research Centre - CSIC <b>Educational</b>	
<b>Current EEPs:</b>	Black-footed penguin ( <i>Spheniscus demersus</i> ) Humboldt penguin ( <i>Spheniscus humboldti</i> )	
<b>Current ESBs:</b>	King penguin ( <i>Aptenodytes patagonica</i> ) Rockhopper penguin ( <i>Eudyptes chrysocome</i> ) Gentoo penguin ( <i>Pygoscelis papua</i> )	
<b>TAG meeting:</b>	Date of last meeting: 19 September 2008 Last meeting hosted at Antwerpen Zoo (Royal Zoological Society of Antwerp).	
<b>Regional Collection Plan:</b>	Has a RCP been published? No Next edition to be published in 2010.	
<b>Publications:</b>	Not specified.	

### 2. Information on developments during 2007 - 2008

- A vice-chair was officially appointed in 2008: Pierre de Wit (Emmen, The Netherlands).
- The EEP evaluation process was in process (Humboldt EEP in 2007 and Black-footed penguin EEP circulated in late 2008).
- TAG meetings took place during the annual conferences (Warsaw 2007 and Antwerpen 2008) and the midyear BirdTAGs meeting (Jerusalem, 2008).
- A space survey was circulated and compiled (de Wit, 2008).
- Decision tree and RCP categories were updated according to the changes in taxonomic and conservation status of some species.
- Debated about upgrading two species from an ESB to an EEP (King penguin and Rockhopper) went on. However after the publication of a statement from the EEP Committee that for ESBs also recommendations are expected, it was decided to postpone the decision.
- Survey on penguin nutrition was carried out (Marqués, 2007).
- A new veterinary advisor was appointed in 2008: Mrs. Gidona Goodman, Edinburgh zoo (RZSS).
- First international Workshop for Rockhopper penguins was held by Birdlife International, WWF, RZSS (Edinburgh, June 2008).
- First African penguin workshop was held (Gansbaai, South Africa, May 2008).
- The penguin TAG reviewed the AZA standardized animal care guidelines for penguins (2008).
- Contact was established to ARAZPA institutions (Adelaida, Taronga) to organize an import of blue penguins (Chris Hibbard, TAG chair).
- The following in situ conservation initiatives were supported by EAZA institutions:
  - 1) "Increasing wild African penguin populations through captive breeding and release", presentation by Bristol Zoo (Christoph Schwitzer and Nigel Simpson).
  - 2) "Faces of need" - A conservation project by the Dyer Island Conservation Trust (Lauren Waller and Wilfred Chivel).
  - 3) Society Sphenisco - Conservation and Protection of Humboldt-Penguins, presentation by Landau Zoo (Christine Schubert).

### **3. TAG goals for 2009**

- \* Discuss the status of the Rockhopper ESB, is a new ESB studbook keeper/coordinator needed?
- \* Finalize Regional Collection Plan.
- \* Finalize EEP Evaluation of the Black-footed penguin EEP.
- \* Proposal of two new EEPs.
- \* Possible import of blue penguins through ARAZPA.
- \* To compile and publish a comprehensive and detailed fish handling protocol for fish eating animals in cooperation with the EAZA nutrition group.



# Black-footed penguin

## EEP Annual Report 2007 - 2008



### 1. Programme information

Black-footed penguin

*Spheniscus demersus*

**EEP established in 1994.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

#### Species Coordinator

Janos Szantho (Amsterdam)

#### Species Committee members

Friederike von Houwald (Basel)

Nigel Simpson (Bristol)

Sandor Tibor Nagy (Debrecen)

Patricia Vilarinho (Lisboa-zoo)

Miguel Bueno Brinkmann (Madrid-zoo)

Dirk Wewers (Munster)

Andre Stadler (Wuppertal)

#### Veterinary advisor

Frank Verstappen (Amsterdam)

### 3. Activities

#### Species Committee

Last election: 2002

Last meeting: 22 September 2004 Kolmarden

#### Conservation activities

Not specified.

#### Research activities

Not specified.

### 4. Publications

#### Studbook

Recent edition: 2007

Next edition: 2010

#### Husbandry guidelines

Not yet published.

## 5. Status

### Status and developments over the year 2007 - 2008

Black-footed penguin  
*Spheniscus demersus*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AACHEN	5.8.10	0.0.13 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	4.2.7	1.6.16
		ALPHEN	4.7.0	0.0.2 (0.0.0)	0.0.0	3.7.2	0.0.0	0.0.0	1.0.0	0.0.0
		AMERSFOORT	18.9.2	5.2.10 (0.0.6)	0.0.0	0.0.0	0.0.0	0.0.0	2.2.5	21.9.1
		AMSTERDAM	37.35.0	11.11.25 (0.0.24)	0.0.0	0.0.0	0.0.0	0.0.0	5.5.1	43.41.0
		ARNHEM	23.22.0	4.4.12 (0.0.12)	0.0.0	0.0.0	0.0.0	0.0.0	1.4.0	26.22.0
		ATHINAI	7.6.6	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	7.6.6
		BANHAM	4.6.2	0.0.13 (0.0.8)	0.0.10	0.0.0	0.0.0	0.0.0	1.1.3	3.5.14
		BASEL	6.3.16	2.0.1 (0.0.0)	4.5.0	0.0.0	0.0.0	0.0.0	2.5.2	10.3.15
	*	BERLIN-ZOO	4.4.16	0.0.0 (0.0.0)	0.0.8	0.0.0	0.0.0	0.0.0	0.0.0	4.4.24
	*	BOULOGNE-MER	0.5.12	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.5.12
	*	BOURTON-WATER	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		BRISTOL	23.22.17	15.6.15 (0.0.11)	0.0.0	0.0.0	0.0.0	0.0.0	7.2.4	31.26.17
		BUDAPEST	8.12.6	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	7.11.6
		CAMBRON-CASTEAU	10.12.2	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	9.11.2
		DALTON-FURNESS	8.8.18	0.0.5 (0.0.3)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	8.8.20
		DARICA	1.0.28	0.0.3 (0.0.3)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.3	1.0.25
	*	DEBRECEN	0.0.0	0.0.0 (0.0.0)	9.8.0	0.0.0	0.0.0	0.0.0	0.0.0	9.8.0
		DOMPIERRE	10.5.1	2.1.3 (0.0.3)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	12.6.1
	*	DOUE-FONTAINE	17.21.18	0.0.4 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	16.20.22
		DUISBURG	5.5.11	2.5.2 (0.0.2)	5.3.0	0.0.0	0.0.0	0.0.0	1.1.2	11.12.9
		EPE	0.0.0	0.0.3 (0.0.0)	6.12.2	0.0.2	0.0.0	0.0.0	1.3.0	5.9.3
		GDANSK	7.10.42	0.0.25 (0.0.2)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.7	6.9.58
		HANNOVER	7.6.4	0.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	7.6.4
		HILVARENBEEK	22.19.14	4.3.0 (0.0.0)	4.5.0	0.0.0	0.0.0	0.0.0	5.5.3	25.22.11
	*	HUNAWIHR_NE	3.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.4.0
		JERUSALEM	8.12.3	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	7.11.3
	*	LE-CROISIC_NE	3.2.12	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.2.12
		LEEWARDEN	6.8.0	0.0.9 (0.0.6)	0.0.2	3.5.0	0.0.0	0.0.0	0.0.2	3.3.3
		LEIPZIG	3.6.9	1.2.0 (0.0.0)	4.5.0	0.0.0	0.0.0	0.0.0	2.2.0	6.11.9
		LES-MATHES	15.7.24	0.0.7 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	3.0.7	12.7.23
		LISBOA-ZOO	10.14.5	2.2.2 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	7.3.1	5.13.6
		LONDON	17.17.0	4.4.27 (0.0.15)	0.0.0	0.0.0	0.0.0	0.0.0	4.0.3	17.21.9
		MADRID-ZOO	9.11.1	0.0.6 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	9.11.6
		MULHOUSE	11.11.4	7.4.3 (3.0.3)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	14.15.4
		MUNSTER	32.41.5	17.19.13 (0.0.12)	0.0.0	18.16.0	0.0.0	0.0.0	2.2.1	29.42.5
		NEWCHURCH	5.2.0	1.2.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	6.3.1
	*	NURNBERG	6.6.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	6.6.0
		PAIGNTON	17.17.51	0.0.0 (0.0.0)	0.0.0	17.17.51	0.0.0	0.0.0	0.0.0	0.0.0
		PEAUGRES	28.24.4	0.0.0 (0.0.0)	0.0.0	4.5.0	0.0.0	0.0.0	0.0.0	24.19.4
		PONT-SCORFF	4.6.2	1.2.8 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.1	5.7.9
		ROTTERDAM	13.18.0	3.1.7 (0.0.4)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	16.19.3
	*	SABLES-OLONNE	10.8.8	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	10.8.8
		STRAUBING	6.7.5	4.2.4 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	10.9.8
		STUTTGART	0.2.38	7.5.8 (0.0.1)	0.0.0	4.5.0	0.0.0	0.0.0	1.1.3	2.1.42
	*	TORQUAY	0.0.0	0.0.35 (0.0.8)	17.17.51	0.0.18	0.0.0	0.0.0	2.2.5	15.15.55
		WARSAWA	10.9.14	0.0.14 (0.0.7)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	10.9.20
		WUPPERTAL	2.2.29	0.0.13 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.6	2.2.36
		Total (47)	444.459.439	92.75.294 (3.0.131)	49.55.73	49.55.73	0.0.0	0.0.0	57.47.70	476.487.532



## Black-footed penguin EEP Annual Report 2007 - 2008



### Discrepancy notes

Black-footed penguin  
*Spheniscus demersus*

ALPHEN	The status on 1 January 2007 is 4.7.0 instead of 3.3.5 as listed on 31 December 2006. The unknown birds were sexed.
BOURTON-WATER	The status on 1 January 2007 is 0.0.0 instead of 1.0.27 as listed on 31 December 2006. This zoo had no penguins since 2004.
DOUE-FONTAINE	No reply for 2008.
HUNAWIHR_NE	No reply in 2007-08, non EAZA EEP participant.
LE-CROISIC_NE	No reply in 2007-08, Non-EAZA EEP participant.
NEWCHURCH	No reply in 2008.
NURNBERG	No reply 2007-08.
PAIGNTON	All penguins were transferred to Living Coast, Torquay in March 2007.
SABLES-OLONNE	No reply 2007-08.
STUTTART	Status on 1 January 2007 is 0.2.38 instead of 0.0.40 as listed on 31 December 2006. Some birds were sexed.

### Summary

Not specified.



# Humboldt penguin

## EEP Annual Report 2007 - 2008



### 1. Programme information

Humboldt penguin

*Spheniscus humboldti*

**EEP established in 1992.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

Target population size A= 250 and B= 2500

#### Additional comments

Size B needs to be further assessed in relation to the other *Spheniscus* species, as long as a detailed RCP is not in place.

### 2. Programme personnel

#### Species Coordinator

Pierre de Wit (Emmen)

#### Species Committee members

Steven Vansteenkiste (Antwerpen)

Eduard Stirberg (Bochum)

Ilona Schappert (Dortmund)

Thomas Lind (Kolmarden)

Jan Hanel (Liberec)

John Meek (Newquay)

Ute Magiera (Osnabruck)

Gerard Meijer (Rhenen)

Jake Veasey (Woburn)

Samuel Furrer (Zurich)

### 3. Activities

#### Species Committee

Last election: 2008

Last meeting: 16 September 2008 Antwerpen

#### Conservation activities

Both in 2008:

- General support of the society Sphenisco - Conservation and Protection of Humboldt-Penguins.
- The resulting support of a petition against environmental and social threats in Comuna La Higuera, Cquimbo region, Northern Chile caused by the planned construction of three coal power plants.

#### Research activities

Not specified.

### 4. Publications

#### Studbook

Recent edition: 2005

Next edition: 2010

#### Husbandry guidelines

Published in 2002.

### 5. Status

#### Status and developments over the year 2007 - 2008

Humboldt penguin  
*Spheniscus humboldti*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		AALBORG	16.14.0	13.11.6 (0.0.0)	0.0.0	6.3.0	0.0.0	3.4.0	0.0.0	20.18.6
*		AALESUND	0.0.0	0.0.0 (0.0.0)	10.8.0	0.0.0	0.0.0	0.0.0	1.0.0	9.8.0
		ALFRISTON	9.10.2	0.3.13 (0.1.12)	0.0.0	1.1.1	0.0.0	0.0.0	0.4.1	8.7.1
		ALPHEN	17.15.0	0.0.1 (0.0.1)	8.3.0	0.0.0	0.0.0	0.0.0	6.4.0	19.14.0
*		AMIENS	6.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	6.5.0
		AMNEVILLE	4.6.0	2.1.3 (2.0.3)	2.2.0	0.0.0	0.0.0	0.0.0	0.0.0	6.9.0
		ANTWERPEN	11.12.0	4.1.17 (2.0.16)	4.6.0	0.0.0	0.0.0	0.0.0	2.5.0	15.14.1
*		BALLAUGH	3.4.2	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.4.2
		BARCELONA-AQUA	8.11.0	0.0.0 (0.0.0)	0.0.0	0.2.0	0.0.0	0.0.0	0.1.0	8.8.0
		BARCELONA-ZOO	15.5.1	0.0.4 (0.0.2)	0.5.0	0.0.0	0.0.0	0.0.0	1.0.0	14.10.3
		BELFAST	14.14.0	1.0.1 (0.0.0)	0.0.0	4.4.0	0.0.0	0.0.0	1.3.0	10.7.1
		BERLIN-ZOO	7.5.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	7.5.0
		BERN	7.11.0	5.5.3 (0.0.1)	0.0.0	1.6.0	0.0.0	0.0.0	0.0.2	11.10.0
		BETTEMBOURG	6.2.0	2.1.0 (0.0.0)	0.4.0	0.0.0	0.0.0	0.0.0	0.0.0	8.7.0
		BOCHUM	4.5.0	0.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.0.0	5.5.0
		BORAS	10.15.0	10.9.2 (0.1.2)	0.0.0	0.5.0	0.0.0	0.0.0	0.0.0	20.18.0
		BOURTON-WATER	1.1.0	0.0.1 (0.0.0)	2.2.1	0.0.0	0.0.0	0.0.0	1.1.1	2.2.1
		BREMERHAVEN	16.10.0	1.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	17.12.0
*		BROXBOURNE	0.0.0	0.0.0 (0.0.0)	3.3.0	0.0.0	0.0.0	0.0.0	0.1.0	3.2.0
		BURFORD	6.6.6	0.0.6 (0.0.4)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.2	5.6.6
*		CALVIA	10.13.0	1.0.2 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	11.13.1
		CHESSINGTON	3.5.1	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.3.1	3.2.0
		CHESTER	17.15.10	0.0.27 (0.0.2)	0.0.0	4.1.0	0.0.0	2.2.6	0.0.0	11.12.29
		COLCHESTER	10.9.0	3.0.5 (3.0.5)	0.7.0	0.0.0	0.0.0	0.0.0	1.1.0	9.15.0
		COLWYN-BAY	6.6.5	0.0.12 (0.0.3)	2.0.0	0.0.0	0.0.0	0.0.0	0.0.1	8.6.13
		DORTMUND	5.7.2	2.0.1 (2.0.0)	6.3.0	0.0.0	0.0.0	0.0.0	3.2.2	8.8.1
*		DOUE-FONTAINE	0.0.0	0.0.0 (0.0.0)	9.12.0	0.0.0	0.0.0	0.0.0	0.0.0	9.12.0
		DRESDEN	9.10.0	4.6.5 (3.2.3)	0.0.0	0.0.0	0.0.0	0.2.0	0.3.1	10.9.1
		DUBLIN	7.9.0	0.0.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.2.0	7.7.0
		DUDLEY	19.33.17	0.0.20 (0.0.12)	0.0.0	3.3.0	0.0.0	0.0.0	0.8.3	16.22.22
		EBERSWALDE	6.1.0	0.0.0 (0.0.0)	3.8.0	0.0.0	0.0.0	0.0.0	0.1.0	9.8.0
		EMMEN	66.72.0	0.0.12 (0.0.12)	0.0.0	0.0.0	0.0.0	0.0.0	3.3.0	63.69.0
		FOTA	6.9.0	0.0.7 (0.0.4)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.1	6.8.2
		GENOVA	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		HALLE	21.24.0	15.12.5 (1.0.4)	0.0.0	11.18.0	0.0.0	0.0.0	1.2.0	23.16.1
		HAMBURG	13.11.2	5.4.5 (2.0.5)	0.0.0	2.1.0	0.0.0	4.5.1	1.1.1	9.8.0
*		HAREWOOD	5.5.1	0.0.6 (0.0.6)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	5.5.1
		HAYLE	6.14.0	0.2.13 (0.0.13)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	5.15.0
		HOYERSWERDA	4.8.4	0.0.5 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.8.8
		JURQUES	9.8.9	1.2.8 (0.0.1)	0.0.0	1.3.0	0.0.0	0.0.0	2.0.1	7.7.15
		KARLSRUHE	12.11.0	6.9.2 (0.0.2)	0.0.0	0.3.0	0.0.0	1.1.0	0.0.0	17.16.0
*		KIRIAT-MOTZKIN	6.16.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0	5.14.0
		KOBENHAVN-ZOO	15.8.0	0.1.15 (0.0.14)	0.4.0	0.0.0	0.0.0	0.0.0	2.0.0	13.13.1
		KOLMARDEN	20.24.0	7.7.1 (1.0.1)	0.0.0	5.7.0	0.0.0	0.0.0	1.5.0	20.19.0
		KOLN	22.13.9	10.5.1 (0.0.0)	0.0.0	10.5.1	0.0.0	0.0.9	3.0.0	19.13.0
		KREFELD	5.5.5	0.0.0 (0.0.0)	1.7.0	0.0.0	0.0.0	0.0.0	6.2.3	0.10.2
		LA-FLECHE	9.4.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	8.4.0
		LANDAU	15.13.0	4.3.5 (0.0.4)	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0	18.14.1
		LEEWARDEN	8.8.1	0.1.4 (0.1.4)	15.9.1	2.1.0	0.0.0	0.0.0	2.2.2	19.14.0
		LIBEREC	4.4.0	0.3.0 (0.0.0)	2.0.0	2.2.0	0.0.0	0.0.0	0.0.0	4.5.0





## Humboldt penguin EEP Annual Report 2007 - 2008



	MADRID-FAUNIA	12.7.0	0.0.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	12.7.0
	MADRID-ZOO	13.12.0	0.0.4 (0.0.4)	0.0.0	0.0.0	0.0.0	12.9.0	0.2.0	1.1.0
	MAGDEBURG	15.10.0	12.18.3 (0.0.3)	0.0.0	15.11.0	0.0.0	0.0.0	1.0.0	11.17.0
*	MANNHEIM_NE	13.16.0	6.2.1 (0.0.0)	0.0.0	6.6.0	0.0.0	0.0.0	2.0.0	11.12.1
	MARLOW	8.5.11	0.0.2 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	8.5.13
	MARWELL	16.17.0	2.4.14 (0.1.14)	0.0.0	0.0.0	0.0.0	0.0.0	5.5.0	13.15.0
*	MOSKVA	9.10.0	0.2.1 (0.0.1)	0.0.0	1.7.0	0.0.0	0.0.0	0.0.0	8.5.0
	MUNCHEN	14.15.0	10.7.23 (0.0.23)	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0	22.22.0
*	NEUMUNSTER	0.0.0	0.0.0 (0.0.0)	10.10.0	0.0.0	0.0.0	0.0.0	0.0.0	10.10.0
*	NEUWIED	7.11.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	7.11.0
	NEWQUAY	8.8.1	1.0.11 (1.0.3)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	8.8.8
*	NURNBERG	17.9.1	6.3.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	23.12.2
	NYIREGYHAZA	4.7.3	1.0.7 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	5.7.9
*	OLDENBURG_NE	14.12.0	0.0.2 (0.0.1)	3.5.0	0.0.0	0.0.0	0.0.0	2.0.0	15.17.1
	OSNABRUCK	8.8.0	3.2.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0	10.8.0
	PARIS-ZOO	8.13.0	8.5.2 (5.1.2)	0.0.0	11.17.0	0.0.0	0.0.0	0.0.0	0.0.0
	PLZEN	9.19.0	4.4.16 (0.0.5)	0.3.0	0.4.0	0.0.0	0.4.0	0.1.1	13.17.10
	PRAHA	22.24.1	6.1.2 (2.0.1)	0.0.0	8.8.0	0.0.0	2.3.0	2.3.2	14.11.0
	PUERTO-CRUZ	35.28.0	0.0.0 (0.0.0)	1.7.0	0.0.0	0.1.0	0.0.0	2.3.0	34.33.0
	RHEINE	14.14.2	1.1.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.3.0	13.12.2
	RHENEN	16.16.0	0.0.5 (0.0.5)	0.0.0	0.0.0	0.0.0	4.6.0	1.2.0	11.8.0
*	ROSTOCK	16.15.0	3.4.6 (0.1.2)	0.0.0	5.9.0	0.0.0	0.0.0	1.1.0	13.8.4
	SCHWERIN	13.14.2	10.9.0 (2.1.0)	3.0.0	3.4.0	0.0.0	0.0.0	2.5.0	19.13.2
*	ST-AIGNAN	0.0.0	1.1.24 (0.1.6)	36.29.1	0.0.0	0.0.0	0.0.0	5.4.0	32.25.19
	TWYCROSS	2.2.1	0.0.2 (0.0.2)	5.4.0	0.0.0	0.0.0	0.0.0	0.0.0	7.6.1
	VALENCIA-OCEA	12.15.1	0.0.0 (0.0.0)	0.0.0	2.2.0	0.0.0	0.0.0	0.0.0	10.13.1
	VILLARS-DOBES	16.18.0	1.1.3 (0.0.2)	11.17.0	0.0.0	0.0.0	0.0.0	3.2.1	25.34.0
	WALSRODE	14.15.10	0.0.18 (0.0.6)	0.0.0	6.4.0	0.0.0	0.0.0	0.0.1	8.11.21
	WHIPSDADE	21.16.11	0.0.6 (0.0.3)	0.0.0	7.7.0	0.0.0	4.0.0	1.0.2	9.9.12
	WIEN-ZOO	17.15.19	13.7.0 (0.2.0)	0.0.0	8.6.1	0.0.0	2.1.0	4.1.1	16.12.17
	WOBURN	11.14.3	0.0.11 (0.0.5)	0.0.0	0.0.0	0.0.0	0.0.0	3.6.1	8.8.8
	ZLIN	12.11.0	4.2.5 (0.0.3)	0.4.0	0.3.0	0.0.0	0.0.0	1.2.0	15.12.2
	ZURICH	21.16.3	11.6.8 (2.0.8)	0.0.0	13.9.0	0.0.0	0.0.0	1.0.0	16.13.3
	Total (83)	915.928.146	39.167.398 (28.12.24)	137.162.3	137.162.3	0.1.0	34.37.16	83.102.32	969.945.255

### Discrepancy notes

Humboldt penguin

*Spheniscus humboldti*

AMIENS	No reply in 2008
BALLAUGH	No reply for both years.
CALVIA	No reply for 2008
HAREWOOD	No reply for 2008
HOYERSWERDA	No reply for 2008
MANNHEIM_NE	No reply for 2008
MOSKVA	No reply for 2008
NEUWIED	No reply for both years.
NURNBERG	No reply for 2008
OLDENBURG_NE	No reply for 2008
ROSTOCK	No reply for 2008

### Summary

Programme difficulties:

The size of the population makes management not easy, let alone the administrative problems associated with it. Also, some institutions are notoriously slow in sending in their data.

As the majority of the population is not strictly needed for genetic / demographic targets of the EEP, a core population has been defined. This means that part of the population (the core) - about 250 birds - is to be physically split off from the rest and recommended to breed, while the other part of the population is not. This strategy has been approved by the species committee, but the program coordinator suffers from a lack of time to complete it.



## Humboldt penguin

### EEP Annual Report 2007 - 2008



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The species has a high educational value and is therefore wide-spread throughout EAZA. Yet, the carrying capacity has virtually been reached and as a result breeding limitations are in place for the majority of the EEP. A space survey for the Penguin TAG was carried out in 2008 to confirm the space problem, while any space for penguins should be better used for more relevant species when it comes down to sustainability of their populations (such as King penguins, Rockhoppers, Macaroni penguins).

The program balances upon the dilemma of breeding, as a condition of welfare for the birds and for the sustainability of the population, on the one hand and its carrying capacity on the other.

Pending the actual establishment of the core population, it is the current strategy of the program coordinator to combine limited breeding with outplacement of birds not only in the EEP, but also out of the program.

A few transfers are still carried out without prior consultation of the species coordinator, but the situation has improved considerably over the last five years.

#### Summary:

The demographic profile of the total population is good, though the bottom of the age-pyramid - as a result of breeding limitations - is narrowing. Genetics are quite good, but can still be improved by the establishment of a core-population.



# King penguin

## ESB Annual Report 2007 - 2008



### 1. Programme information

King penguin

*Aptenodytes patagonica*

**ESB established in 1998.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

**European Studbook Keeper**

Roslin Talbot (Edinburgh)

### 3. Publications

#### Studbook

Recent edition: 2008

Next edition: 2010

#### Husbandry guidelines

Not yet published.

### 4. Status

#### Status and developments over the year 2007 - 2008

King penguin

*Aptenodytes patagonica*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ANTWERPEN	11.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	11.3.0
		BASEL	7.6.0	1.1.0 (0.0.0)	1.0.0	2.1.0	0.0.0	0.0.0	0.0.0	7.6.0
		BENALMADENA	9.9.0	0.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.2.0	8.7.1
*		BERLIN-ZOO	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		BOURTON-WATER	12.7.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	11.6.0
		BREST	9.3.1	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	9.3.1
		EDINBURGH	10.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	2.1.0	8.2.0
*		MADRID-FAUNIA	1.1.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		ODENSE	5.8.0	0.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.1	0.0.0	5.8.0
		PUERTO-CRUZ	35.26.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	35.25.0
		ROTTERDAM	14.10.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	15.10.0
		STUTTGART	2.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.1.0	2.1.0
		WIEN-ZOO	0.0.11	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.1	0.0.0	0.0.10
		WUPPERTAL	1.1.18	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.2	1.1.16
		ZURICH	12.7.0	0.0.0 (0.0.0)	2.1.0	1.0.0	0.0.0	0.0.0	2.1.0	11.7.0
		Total (15)	128.86.30	3.1.2 (0.0.0)	3.1.0	3.1.0	0.0.0	0.0.2	7.7.2	124.80.28

#### Discrepancy notes

King penguin

*Aptenodytes patagonica*

WIEN-ZOO

Status on 1 January 2007 is 6.4.1 instead of 0.0.11 as listed on 31 December 2006.

#### Summary

- One new institution holding king penguins found on ISIS: Faunia.
- Four transfers occurred within the ESB population, two birds moved out of the ESB.
- Six hatchings in 16 institutions holding 266 birds at the start of the year. This can be considered a very poor reproductive rate.
- Eighteen deaths in 16 institutions holding 266 birds at the start of the year. This might be considered a reasonable death rate.
- In short the biggest demographic problem seen in 2008 is the very low birth rate.

#### Notes

Marineland Antibes, non EAZA in 2008, held 12.5.5 at the beginning of 2007 and at the end of 2008.



# Rockhopper penguin

## ESB Annual Report 2007 - 2008



### 1. Programme information

Rockhopper penguin

*Eudyptes chrysocome*

**ESB established in 2004.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

**European Studbook Keeper**

Sue Woodgate (Alfriston)

### 3. Publications

#### Studbook

Recent edition: 2008

Next edition: 2010

#### Husbandry guidelines

Not yet published.

### 4. Status

#### Status and developments over the year 2007 - 2008

Rockhopper penguin  
*Eudyptes chrysocome*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ALFRISTON	1.1.0	0.0.1 (0.0.1)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0
		ANTWERPEN	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		BELFAST	3.2.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	2.2.0
		BERLIN-ZOO	2.2.1	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		EDINBURGH	12.7.0	1.0.2 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.2	12.6.0
		LISBOA-AQUA	2.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	2.0.0
		LONDON	1.2.0	0.0.0 (0.0.0)	2.0.0	0.0.0	0.0.0	0.0.0	2.0.0	1.2.0
		ODENSE	3.3.0	1.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	4.3.0
		PUERTO-CRUZ	26.18.0	0.0.3 (0.0.3)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	25.17.0
		ROSTOCK	0.0.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0
		WHIPSNADE	4.3.0	2.0.0 (0.0.0)	0.0.0	2.0.0	0.0.0	0.0.0	0.2.0	4.1.0
		WIEN-ZOO	3.3.20	6.3.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	9.6.20
		Total (12)	57.41.21	10.3.7 (0.0.4)	2.0.0	2.0.0	0.0.0	0.0.0	5.4.3	60.38.20

#### Summary

- One new participant added in 2007 was Marineland Antibes, France who had 13.12.0 at the start of 2007 and 13.12.0 at the end of 2008; no births or deaths or transfers occurred during this period.
- Vienna had exceptional breeding success during 2008.
- The aim is to ensure ALL birds are correctly classified at all institutions as per recent changes from sub-species to species and to have ALL birds sexed.
- More birds are needed for the ESB (some collections with big numbers would be welcome).
- More investigations on husbandry issues are needed.
- Cooperation between different institutions to debate the specific problems with the species through the ESB and the TAG is recommended.
- Probable upgrading to an EEP, according to husbandry needs, status in the wild and subject to TAG decisions for this species.



# Gentoo penguin

## ESB Annual Report 2007 - 2008



### 1. Programme information

Gentoo penguin

*Pygoscelis papua*

**ESB established in 1998.**

#### Goal(s)

Percentage of gene diversity 90% saved in 100 years.

### 2. Programme personnel

**European Studbook Keeper**

Lesley Garland (Edinburgh)

### 3. Publications

#### Studbook

Recent edition: Not yet published.

Next edition: 2010

#### Husbandry guidelines

Not yet published.

### 4. Status

#### Status and developments over the year 2007 - 2008

Gentoo penguin  
*Pygoscelis papua*

New	No reply	Participants	Status 1 Jan.	Births (DNS)	EAZA zoos		non-EAZA zoos		Deaths	31. Dec.
					In	Out	In	Out		
		ANTWERPEN	3.4.0	0.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.4.1
		BASEL	3.3.9	1.0.0 (0.0.0)	1.0.0	0.0.0	0.0.0	0.0.0	0.1.1	5.2.8
		BELFAST	2.5.0	0.1.4 (0.0.4)	0.0.0	0.0.0	0.0.0	0.0.0	1.1.0	1.5.0
*		BENALMADENA	5.5.7	0.0.3 (0.0.0)	0.0.0	0.0.0	0.0.1	0.0.0	0.0.1	5.5.10
*		BERGEN	3.4.2	0.0.8 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.1	3.4.9
	*	BREST	5.7.6	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	5.7.6
		DUSSELDORF	5.8.0	1.1.3 (0.0.3)	0.0.0	2.2.0	0.0.0	0.0.0	0.2.0	4.5.0
		EDINBURGH	35.61.0	37.35.9 (0.0.7)	2.7.0	0.4.0	0.0.0	0.0.0	3.8.2	71.91.0
		FRANKFURT	7.7.0	2.2.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	1.0.0	8.9.0
		GENOVA	3.3.0	0.0.0 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	3.3.0
*		MADRID-FAUNIA	11.5.0	0.0.1 (0.0.0)	0.0.0	0.0.0	0.0.0	0.0.0	0.0.0	11.5.1
*	*	MUNCHEN	0.0.0	0.0.0 (0.0.0)	6.7.0	0.0.0	0.0.0	0.0.0	0.0.0	6.7.0
		ODENSE	18.18.1	3.5.2 (0.0.2)	0.0.0	5.8.1	0.0.0	0.0.0	1.1.0	15.14.0
		PAIGNTON	3.7.0	0.0.0 (0.0.0)	0.0.0	2.7.0	0.0.0	0.0.0	1.0.0	0.0.0
*		PUERTO-CRUZ	37.39.1	0.1.0 (0.0.0)	0.0.0	5.5.0	0.0.0	0.0.0	2.5.0	30.30.1
*	*	VALENCIA-OCEA	0.0.0	0.0.0 (0.0.0)	5.8.1	0.0.0	0.0.0	0.0.0	0.0.0	5.8.1
*		WHIPSNADE	0.0.0	0.0.0 (0.0.0)	0.4.0	0.0.0	0.0.0	0.0.0	0.2.0	0.2.0
		Total (17)	140.176.26	44.45.31 (0.0.16)	14.26.1	14.26.1	0.0.1	0.0.0	9.20.5	175.201.37

#### Discrepancy notes

Gentoo penguin  
*Pygoscelis papua*

DUSSELDORF                      Data correct to September 2008.

#### Summary

- Numbers of gentoos in Europe continue to grow, although breeding is limited in collections with small or new colonies.
- A number of discrepancies will be seen between these data and last years - this is due to ongoing clean-up and validation of the dataset.



## Gentoo penguin

### ESB Annual Report 2007 - 2008



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#### Notes

Two distinct phenotypes of gentoo are currently seen in Europe:

- (1) a smaller animal, mostly descended from EDINBURGH imports.
- (2) a larger animal, mostly descended from more recent imports from the AZA region.

Some discussion about whether these represent two distinct subspecies has taken place. Currently there are no definitive conclusions and research is continuing.

Thanks to Jo Elliott (Edinburgh) for providing us with this report.