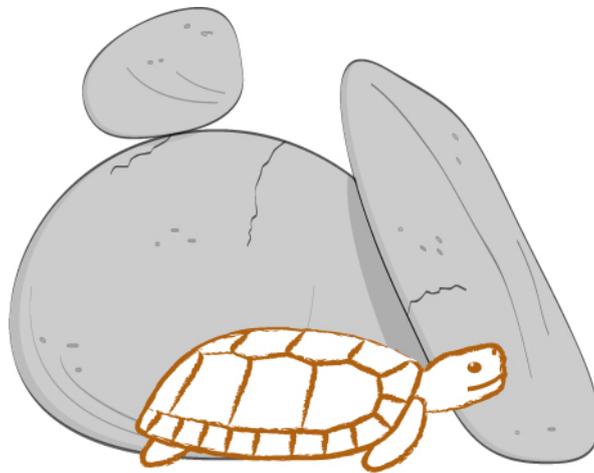


Homopus Research Foundation



Homopus Research Foundation

Annual Report 2012

*Victor Loehr
January 2013*

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1. INTRODUCTION AND ACHIEVEMENTS IN 2012

The Homopus Research Foundation aims to facilitate the long-term survival of *Homopus* spp. in the wild, by gathering and distributing information about their biologies and by the formation of genetically healthy *ex situ* populations. In 2012, several activities contributed to this aim. The current report presents an overview of achievements in 2012, as well as activities planned for 2013 and thereafter. Moreover, the actual studbook populations for *Homopus areolatus*, *Homopus femoralis* and *Homopus signatus* are described, focussing on changes that occurred in 2012. All previous annual reports can be found on the website of the Homopus Research Foundation, <http://www.homopus.org>, section Publications.

The 2011 annual report anticipated on several results for 2012. The following table summarises these plans, with results obtained in 2012.

Result	Due
Project proposal (permit application) for a study on thermoregulation in wild <i>H. signatus</i> (2012-2013) drawn up and submitted 2012: Project proposal drawn up and submitted, and permits granted. See Paragraph 1.2.	30-04-2012
Fieldwork conducted on <i>H. signatus</i> thermoregulation 2012: Fieldwork conducted in August-September. See Paragraph 1.2.	Aug-2012
Detailed studbook management plan <i>H. signatus</i> finalised 2012: Studbook management plan finalised, except for several comments from the Northern Cape Department of Environment and Nature Conservation (South Africa). See Paragraph 1.1.	31-12-2012
Form distributed to all studbook participants to indicate which contact details should be revealed to other participants, to facilitate information exchange 2012: Form distributed several times in 2012.	01-06-2012
Manuscript submitted on: • Ecological characteristics of wild <i>H. femoralis</i> 2012: A scientific paper on activity in <i>H. femoralis</i> was submitted and accepted in 2012. In addition, a scientific note on reproduction in <i>H. femoralis</i> was submitted. Further papers were submitted on husbandry and breeding of <i>H. areolatus</i> . See Chapter 6.	31-12-2012

Further progress that is worth listing:

- Six studbook participants have visited natural habitats of *Homopus* spp. in South Africa and Namibia.
- Possibilities were explored for Knoxville Zoo, and possibly other USA-based zoos, to help realise the studbook management plan for *H. signatus*. This will be discussed further once the management plan will have been finalised (see Paragraph 1.1).
- The Dutch Platform Verantwoord Huisdierbezit (organisation encouraging responsible husbandry practises) requested cooperation for a news bulletin on Dutch television. Unfortunately the request was at too short notice.
- Several zoos, expositions and private tortoise keepers in Belgium, Denmark, Germany, Hungary, Italy, Netherlands, Poland and USA asked to obtain *Homopus* spp. Some of them received *H. signatus* in 2012.
- Information about *Homopus* spp. and the Homopus Research Foundation was distributed over various internet forums and other social networks.
- Information requests were received regarding:
 - Construction and decoration of enclosures for *Homopus* spp. (e.g., visual barriers at nesting sites for *H. signatus*)
 - Overgrowth of beaks and wear of plastrons in *H. signatus*
 - Presence of tortoise research or breeding centres in the Western Cape, South Africa
 - Husbandry of *Psammobates tentorius* in Portugal
- Reprint requests for *Homopus* papers were received from:
 - James Cook University, Australia
 - Leningrad Zoo, Russia
 - British Trust for Ornithology, UK

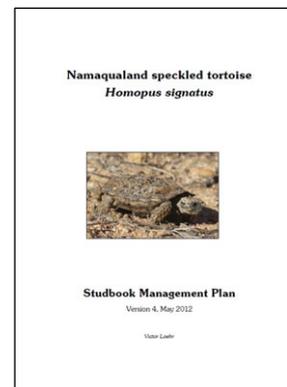
- Tennessee Safari Park, USA
- Fish and Wildlife Service, USA
- Several private individuals (France, USA)
- Review requests were received from:
 - Journal of Thermal Biology
- Photographic material was provided to:
 - Science North (a science centre) in Sudbury, Ontario, Canada, for an exhibition on small animal species
 - Website <http://www.testudines.org>
- Presentations were held:
 - Research on the behaviour of *H. signatus* (Dutch-Belgian Turtle and Tortoise Society, and Dutch herpetological society Lacerta, Netherlands)
 - *Malacochersus tornieri*, with notes on incubation conditions for *H. areolatus* and *H. signatus* (Dutch-Belgian Turtle and Tortoise Society, Belgium)
- The website of the Homopus Research Foundation was updated with new publications, actual studbook overviews, the final studbook management plan *H. signatus*, and fieldwork photos.

1.1. Long-term studbook management plan *Homopus signatus*

The development of the studbook management plan for *H. signatus* from 2008 till 2011 was summarised in the 2011 annual report. In 2012, all comments resulting from the studbook participants' meeting in Isernhagen were processed, resulting in a conservation-orientated management plan. This new plan was sent to the Northern Cape Department of Environment and Nature Conservation for a formal review.

In November 2012, the review by the department was completed, requiring several final adjustments to the plan. It was agreed that the final plan will be resent to the department as soon as the changes will have been implemented. Simultaneously, a draft memorandum of understanding will be sent to the department. This memorandum should lay down the responsibilities of the department and the Homopus Research Foundation to ensure the realisation of the studbook management plan.

The process to develop a long-term studbook management plan for a private breeding programme was described and submitted in an abstract for the symposium of the Herpetological Association of Africa, at Pretoria Zoo in February 2013.



1.2. Progress thermoregulation field study *Homopus signatus*

This study was permitted by the Northern Cape Department of Environment and Nature Conservation. The permits that were issued require periodic updates for the department. Because this information may be informative for *Homopus* studbook participants, it is included in the annual reports of the Homopus Research Foundation.

Fieldwork was conducted from 21 August till 17 October 2012, and attended by three participants in the studbook on *H. signatus*. Near Springbok, 37 live *H. signatus* were located, including many individuals marked in 2000-2004. Twelve females were equipped with transmitters and iButtons, and 8 males were equipped with iButtons. Unfortunately, encountered males were not large enough to carry a transmitter. Consequently, the behavioural study included only females. Tortoise models were placed in the field according to the experimental design described in the project proposal.

The behavioural data are currently processed, and a manuscript will be prepared in 2013. Thermoregulation data will be collected from the field in September 2013 and processed thereafter. The state of the research materials (i.e., transmitters, iButtons, tortoise models) might allow extension of the study from 2013 to 2014, measuring finer scale temperature data for winter and spring.

The side study near Pofadder was unsuccessful. The region was visited twice, but dry conditions appeared to prevent any tortoise activity. This side study was terminated.



2. PLANS FOR 2013 AND THEREAFTER

The table below lists results anticipated for 2013 and thereafter, with progress indicated:

Result	Due	Current status
Manuscript submitted on:		
• Behaviour in wild <i>H. signatus</i>	31-12-2013	Data available
• Feeding on mealworms in captive <i>H. signatus</i>	31-12-2013	In preparation
• Thermoregulation in wild <i>H. signatus</i>	31-12-2015	Not yet started
Permit for study on thermoregulation in wild <i>H. signatus</i> (2012-2013) renewed	01-09-2013	Not yet started
Fieldwork conducted on <i>H. signatus</i> thermoregulation	Sep-2013	Not yet started
Detailed studbook management plan <i>H. signatus</i> finalised	01-06-2013	Plan finished but comments from Northern Cape Department of Environment and Nature Conservation need be implemented (see Paragraph 1.1).
Memorandum of understanding with Northern Cape Department of Environment and Nature Conservation drafted and submitted	01-06-2013	Not yet started
Permit application to collect and export 5.5 wild <i>H. signatus</i> drawn up and submitted	31-12-2013	Conditional for the application are the studbook management plan and memorandum of understanding.
Setup for studbook management plan <i>H. areolatus</i> drafted	31-12-2013	Not yet started
Presentations held:		
• Thermoregulation in <i>H. signatus</i> (symposium Herpetological Association of Africa)	Feb-2013	Abstract submitted, see Paragraph 1.2
• Studbook <i>H. signatus</i> (symposium Herpetological Association of Africa)	Feb-2013	Abstract submitted, see Paragraph 1.1
Fieldwork conducted on <i>H. signatus</i> thermoregulation	Sep-2014	Not yet started

3. STUDBOOK SUMMARIES

To keep the studbook registrations up to date, it is vital that all studbook participants keep the coordinator informed of any changes. In the studbooks on *H. femoralis* and *H. signatus*, each participant has accepted this obligation in a formal agreement between participant and the Homopus Research Foundation. Regardless of the agreements, most participants are very motivated and inform the coordinator spontaneously when changes occur throughout the year. Others choose to wait until information is requested by the coordinator in the end of each year. However, some participants remain silent for an entire year or longer, despite repeated messages from the studbook coordinator. In order to keep track of where these communication flaws occur, the annual reports include a list of unresponsive locations. This will make it easier for the reader to assess the validity of studbook information per location, and will facilitate the coordinator when approaching a silent participant. In 2012, locations A45, A78 and PRAHA were unresponsive. Location A42, which was unresponsive in 2011, resumed its active participation.

Homopus areolatus

Live specimens on 1 January 2012: 76 (excluding 6 specimens lost to follow-up)

Number of locations on 1 January 2012: 16 (6 countries, 1 zoo; excluding 1 location lost to follow-up)

New registrations: 0

Births: 13, at 3 locations

Deaths: 1

Live specimens on 31 December 2012: 90 (excluding 4 specimens lost to follow-up)

Number of locations on 31 December 2012: 21 (6 countries, 2 zoos; excluding 1 location lost to follow-up)

Interpretation of changes:

Besides structurally breeding locations A16 and A46, location A44 resumed breeding in 2012. Both females produced eggs, but one of them died from pneumonia after producing a clutch of six eggs (none

hatched). Two wild-caught adults were recovered after being lost to follow-up in 2004. Location A54 produced eggs that failed to develop. Survival of *H. areolatus* remains high, with only one death despite a relatively large population size.

The number of locations grew considerably in 2012, including a second professional institution, in the USA. Many locations are keeping genetically related offspring from location A46. The genes from the founders at the latter location are heavily over-represented in the captive population, and it will be a matter of time until inbreeding will start. Bloodline 16 x 17 forms the other cornerstone of the population, and offspring from this couple might be used to avoid inbreeding in the second generation. However, this will require a studbook management plan supported by all locations. In 2013, a setup for this plan will be drafted.

Homopus femoralis

Live specimens on 1 January 2012: 10
 Number of locations on 1 January 2012: 3 (2 countries)
 New registrations: 0
 Births: 0
 Deaths: 1
 Live specimens on 31 December 2012: 9
 Number of locations on 31 December 2012: 3 (2 countries)
 Interpretation of changes:

Breeding results at location HRF remain discontinuous (2008, 2010, 2011), and no eggs were produced in 2012. All three locations are exchanging information to find an explanation for the breeding pattern. One juvenile born in 2011 died from unknown causes. Location A08 produced a clutch of two eggs that is currently being incubated.

Risks associated with the accumulation of individuals at location HRF were partly mitigated by improved climate control (see Chapter 5, Location HRF).

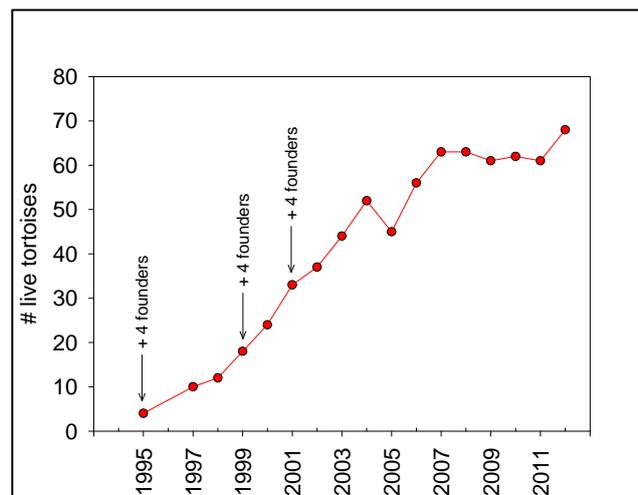
Homopus signatus

Live specimens on 1 January 2012: 61 (excluding 17 specimens lost to follow-up)
 Number of locations on 1 January 2012: 26 (6 countries, 1 zoo; excluding 1 location lost to follow-up)
 New registrations: 0
 Births: 7, at 3 locations
 Deaths: 2, at 2 locations
 Live specimens on 31 December 2012: 67 (excluding 16 specimens lost to follow-up)
 Number of locations on 31 December 2012: 33 (10 countries, 3 zoos; excluding 1 location lost to follow-up)
 Interpretation of changes:

After a number of years with a constant or decreasing population size, the live population increased again in 2012. This was due to a relatively large number of hatchlings at the same three locations as in previous years, and a recovered tortoise that had been lost to follow-up in 2004. At location A55, a dead hatchling was recovered from the adult enclosure. Location A18 produced an egg that died at an early stage.

One male and one female died, at different locations. At location A37, an adult captive-bred male was found dead in its enclosure unexpectedly. At location A33, an adult captive-bred female died as a result of soil compaction in the digestive tract. The soil in the enclosure had already been adjusted in response to another death from the same cause in 2011, but this appeared too late for the female.

Many tortoises were transferred to new locations. Since mates are not currently available for most of these tortoises, they are housed solitarily for the time-being. Mates should become available when the studbook management plan will be effectuated (see Paragraph 1.1). Two new locations are professional institutions in the Netherlands and the USA.



As was recommended previously, it is important that locations A18, A40 and A57 start breeding to fortify the presence of the genes of (deceased) bloodline 1 x 2 in the captive population. Currently, only location A18 produces eggs. Location A40 will move the tortoises to an improved enclosure in 2013, and the female at location A57 is not yet large enough to produce eggs.

Similarly, the presence of the genes of (lost to follow-up) female 60 should be fortified in the population. This will be done by combining offspring from female 60 (e.g., 92) with offspring from bloodline 35 x 36 (e.g., 121, 128) when a female will become available.

4. ACTUAL STUDBOOK OVERVIEWS

Homopus areolatus: Total studbook population. MULTX are groups of unregistered specimens at locations outside of the studbook. UNKX are specimens at locations outside of the studbook. ltf means that a specimen is lost to follow-up.

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event

A03								
1	F	????	WILD	WILD	KRAAIFONT	~ Jul 1997	_____	Transfer
						21 Nov 1997	I	Transfer
						14 Dec 1997	HZ0525	Transfer
						9 Nov 1998		Death
2	F	????	WILD	WILD	KRAAIFONT	~ Jul 1997	_____	Transfer
						21 Nov 1997	II	Transfer
						14 Dec 1997	_____	Transfer
						13 Aug 1999		Death
6	M	????	MULT1	MULT2	KRAAIFONT	????	_____	Hatch
						21 Nov 1997	VI	Transfer
						14 Apr 2001	HZ0738	Loan to
						~12 Sep 2007		Death
7	M	????	WILD	WILD	ROTTERDAM	????	_____	Transfer
						5 Jul 1998	HZ0457	Loan to
								Death
32	F	????	WILD	WILD	A29	~ Jun 2000	_____	Transfer
						15 Jun 2001	HZ0752	Transfer
						16 May 2002		Death
33	F	????	WILD	WILD	LONDON RP	????	_____	Transfer
						23 Dec 2001	HZ0793	Transfer
						28 Jul 2003		Death
45	M	14 Dec 1999	58	UNK5	A46	14 Dec 1999	_____	Hatch
						4 Nov 2004	V3	Transfer
						5 Nov 2004	HZ0989	Loan to
						25 Mar 2006		Death
Totals: 3.4.0 (7)								

A10								
4	F	????	MULT1	MULT2	KRAAIFONT	????	_____	Hatch
						21 Nov 1997	IV	Transfer
						27 Oct 2004		Loan to
5	M	????	MULT1	MULT2	KRAAIFONT	????	_____	Hatch
						21 Nov 1997	V	Transfer
						27 Oct 2004		Loan to
117	?	6 Sep 2010	5	4	A10	6 Sep 2010	_____	Hatch
						6 Sep 2010	_____	Ownership
						4 Dec 2010	_____	Death
Totals: 1.1.1 (3)								

A12								
8	F	????	WILD	WILD	KRAAIFONT	????	_____	Transfer
						~16 Sep 1999	A1	Transfer
						19 Mar 2000		Death
9	F	????	WILD	WILD	A13	????	_____	Transfer
						~16 Sep 1999	BLACKY	Transfer
						30 Apr 2000		Death

13	M	????	WILD	WILD	KRAAIFONT A12	???? ~16 Sep 1999 15 Feb 2000	A7	Transfer Transfer Death
15	F	????	WILD	WILD	A13 A12	???? ~16 Sep 1999 15 Feb 2000	A4	Transfer Transfer Death
19	?	5 Feb 2000	MULT3	11	A12	5 Feb 2000 5 Feb 2000		Hatch Death
20	?	16 Mar 2000	MULT3	11	A12	16 Mar 2000 16 Mar 2000		Hatch Death
21	?	16 Mar 2000	MULT3	11	A12	16 Mar 2000 16 Mar 2000		Hatch Death

Totals: 1.3.3 (7)

A16								
16	M	????	WILD	WILD	A16	30 Aug 1994		Transfer
17	F	????	WILD	WILD	A16	30 Aug 1994		Transfer
18	M	23 May 2000	16	17	A16	23 May 2000 30 Mar 2003		Hatch Death
38	F	5 Apr 2003	16	17	A16	5 Apr 2003 28 Nov 2006		Hatch Death
39	M	9 Apr 2003	16	17	A16	9 Apr 2003		Hatch
48	M	23 Mar 2004	16	17	A16	23 Mar 2004		Hatch
49	F	25 Mar 2004	16	17	A16	25 Mar 2004		Hatch
50	F	8 Aug 2004	16	17	A16	8 Aug 2004		Hatch
51	M	19 Aug 2004	16	17	A16	19 Aug 2004		Hatch
52	F	25 Aug 2004	16	17	A16	25 Aug 2004		Hatch
54	M	10 Jun 2005	16	17	A16	10 Jun 2005		Hatch
55	M	27 Jun 2005	16	17	A16	27 Jun 2005		Hatch
56	F	6 Oct 2005	16	17	A16	6 Oct 2005		Hatch
57	F	3 Nov 2005	16	17	A16	3 Nov 2005		Hatch
61	?	17 Dec 2006	16	17	A16	17 Dec 2006 ~ 9 May 2007		Hatch Death
108	M	8 Mar 2010	47	37	A44 A16	8 Mar 2010 4 Jun 2010		Hatch Transfer
109	F	8 Mar 2010	47	37	A44 A16	8 Mar 2010 4 Jun 2010		Hatch Transfer
115	?	30 May 2010	16	17	A16	30 May 2010		Hatch
116	?	31 May 2010	16	17	A16	31 May 2010		Hatch
122	?	2 Jul 2011	16	17	A16	2 Jul 2011		Hatch
134	?	27 Apr 2012	16	17	A16	27 Apr 2012		Hatch
135	?	25 Aug 2012	16	17	A16	25 Aug 2012		Hatch

Totals: 8.8.6 (22)

A26								
27	M	????	WILD	WILD	KRAAIFONT A26	???? 9 Jul 2001		Transfer lft Transfer
28	F	????	WILD	WILD	KRAAIFONT A26	???? 9 Jul 2001		Transfer lft Transfer

Totals: 1.1.0 (2)

A27								
29	M	????	WILD	WILD	KRAAIFONT A27	???? 9 Jul 2001 9 Nov 2001		Transfer Transfer Death
30	F	????	WILD	WILD	KRAAIFONT A27	???? 9 Jul 2001 11 Nov 2001		Transfer Transfer Death

Totals: 1.1.0 (2)

A37

22	M	????	WILD	WILD	UNKNOWN A20 A21 A37	???? ???? 17 Oct 2000 15 Sep 2002	NONE _____ _____ 1	Capture Transfer Transfer Transfer
23	F	????	WILD	WILD	UNKNOWN A20 A21 A37	???? ???? 17 Oct 2000 15 Sep 2002	NONE _____ _____ 2	Capture Transfer Transfer Transfer
24	F	~ 1993	UNK1	UNK2	A20 A21 A37	~ 1993 17 Oct 2000 15 Sep 2002	_____ _____ 3	Hatch Transfer Transfer
46	?	30 Sep 2004	22	24	A37	30 Sep 2004	_____	Hatch
107	F	8 Mar 2010	47	37	A44 A37	8 Mar 2010 5 May 2010	_____ _____	Hatch Transfer
111	F	29 Mar 2010	47	37	A44 A37	29 Mar 2010 7 Jun 2010	_____ _____	Hatch Transfer

Totals: 1.2.3 (6)

A42

35	M	9 Jul 2002	16	17	A16 A42	9 Jul 2002 ~30 Sep 2005	_____ _____	Hatch Loan to
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Totals: 1.0.0 (1)

A43

12	F	????	WILD	WILD	KRAAIFONT A12 A43	???? ~16 Sep 1999 ~ May 2004	_____ A6 _____	Transfer Transfer lft Loan to
14	F	????	WILD	WILD	KRAAIFONT A12 A43	???? 16 Sep 1999 ~ May 2004	_____ BABY _____	Transfer Transfer lft Loan to

Totals: 0.2.0 (2)

A44

37	F	7 Aug 2003	5	4	HRF A10 HRF A44	7 Aug 2003 21 Aug 2004 27 Oct 2004 31 Oct 2004 14 Feb 2012	IV-3 _____ IV-3 ESMERA	Hatch Loan to Transfer Loan to Death
41	M	????	WILD	WILD	WUPPERTAL A44	28 Mar 1991 27 Aug 2010	91586B H.BERT	Transfer Loan to
47	M	~ Jun 1993	UNK3	UNK4	A47 A48 A44	~ Jun 1993 ~ 2000 21 Nov 2004	_____ _____ HUGO	Hatch Transfer Transfer
62	F	~25 Nov 2007	5	4	A10 HRF A44	~25 Nov 2007 ~25 Nov 2007 27 Mar 2011	_____ _____ _____	Hatch Ownership Loan to
94	M	7 Jul 2009	16	17	A16 A44	7 Jul 2009 5 Jun 2010	_____ AUGUST	Hatch Transfer
113	M	30 Mar 2010	47	37	A44 HRF A44	30 Mar 2010 30 Mar 2010 20 Aug 2010	_____ _____ _____	Hatch Ownership Death
114	M	30 Mar 2010	47	37	A44 HRF A44	30 Mar 2010 30 Mar 2010 26 Aug 2010	_____ _____ _____	Hatch Ownership Death
130	?	16 Mar 2012	94	62	A44	16 Mar 2012	_____	Hatch
131	?	27 May 2012	94	62	A44 HRF	27 May 2012 27 May 2012	_____ _____	Hatch Ownership
132	?	18 Jul 2012	94	62	A44	18 Jul 2012	_____	Hatch
133	?	13 Aug 2012	94	62	A44 HRF	13 Aug 2012 13 Aug 2012	_____ _____	Hatch Ownership

Totals: 5.2.4 (11)

A45									
25	F	15 Sep 2001	5	4	HRF A10 A16 A45	15 Sep 2001 24 May 2003 4 Dec 2004 27 Feb 2005	IV-1 _____ _____ _____	Hatch Loan to Loan to Loan to	
34	M	30 Jun 2002	16	17	A16 A45	30 Jun 2002 27 Feb 2005	_____ _____	Hatch Loan to	
53	M	12 Jun 2005	34	25	A45	12 Jun 2005	_____	Hatch	
Totals: 2.1.0 (3)									

A46									
58	M	????	WILD	WILD	A46	9 Sep 1997	03	Transfer	
59	F	????	WILD	WILD	A46	9 Sep 1997	01	Transfer	
60	F	????	WILD	WILD	A46	25 Mar 1999	02	Transfer	
100	?	3 Feb 2010	58	MULT4	A46	3 Feb 2010 25 Sep 2010	_____ _____	Hatch Death	
103	?	3 Apr 2010	58	MULT4	A46	3 Apr 2010 18 Sep 2010	_____ _____	Hatch Death	
104	?	3 Mar 2010	58	MULT4	A46	3 Mar 2010 13 May 2010	_____ _____	Hatch Death	
106	?	9 Apr 2010	58	MULT4	A46	9 Apr 2010 16 Sep 2010	_____ _____	Hatch Death	
123	?	23 Jan 2012	58	MULT4	A46	23 Jan 2012	_____	Hatch	
124	?	24 Jan 2012	58	MULT4	A46	24 Jan 2012	_____	Hatch	
125	?	31 Jan 2012	58	MULT4	A46	31 Jan 2012	_____	Hatch	
126	?	1 Feb 2012	58	MULT4	A46	1 Feb 2012	_____	Hatch	
127	?	2 Feb 2012	58	MULT4	A46	2 Feb 2012	_____	Hatch	
128	?	3 Feb 2012	58	MULT4	A46	3 Feb 2012	_____	Hatch	
129	?	4 Feb 2012	58	MULT4	A46	4 Feb 2012	_____	Hatch	
Totals: 1.2.11 (14)									

A48									
90	M	3 Feb 2009	47	37	A44 A48	3 Feb 2009 3 Feb 2009 10 Feb 2009	_____ _____ _____	Hatch Ownership Transfer	
93	M	7 Jul 2009	16	17	A16 A44 A48	7 Jul 2009 5 Jun 2010 13 Jun 2010	_____ _____ _____	Hatch Transfer Transfer	
Totals: 2.0.0 (2)									

A54									
79	M	~15 Mar 2007	58	MULT4	A46 A54	~15 Mar 2007 ~15 Jun 2008	_____ _____	Hatch Transfer	
80	?	~15 Mar 2007	58	MULT4	A46 A54	~15 Mar 2007 ~15 Jun 2008 15 Oct 2008	_____ _____ _____	Hatch Transfer Death	
81	F	~15 Mar 2007	58	MULT4	A46 A54	~15 Mar 2007 ~15 Jun 2008	_____ _____	Hatch Transfer	
82	F	~15 Mar 2007	58	MULT4	A46 A54	~15 Mar 2007 ~15 Jun 2008	_____ _____	Hatch Transfer	
83	?	~15 Mar 2007	58	MULT4	A46 A54	~15 Mar 2007 ~15 Jun 2008 15 Oct 2008	_____ _____ _____	Hatch Transfer Death	
Totals: 1.2.2 (5)									

A56									
67	F	8 Apr 2004	58	MULT4	A46 A56	8 Apr 2004 ~15 Jun 2008	_____ _____	Hatch Transfer	
70	F	14 Mar 2004	58	MULT4	A46 A56	14 Mar 2004 ~15 Jun 2008 8 May 2009	_____ _____ _____	Hatch Transfer Death	

73	M	14 Mar 2004	58	MULT4	A46 A56	14 Mar 2004 ~21 May 2006	_____	Hatch Transfer
75	M	6 Jan 2004	58	59	A46 A56	6 Jan 2004 ~15 Jun 2008	_____	Hatch Transfer
76	F	11 Jan 2004	58	59	A46 A56	11 Jan 2004 ~15 Jun 2008	_____	Hatch Transfer
78	F	23 Mar 2005	58	MULT4	A46 A56	23 Mar 2005 ~15 Jun 2008	_____	Hatch Transfer
99	?	17 Feb 2010	75	67	A56	17 Feb 2010	_____	Hatch
118	?	13 Nov 2010	75	67	A56	13 Nov 2010	_____	Hatch
Totals: 2.4.2 (8)								

A66								
68	M	8 Apr 2004	58	MULT4	A46 A56 A66	8 Apr 2004 ~15 Jun 2008 18 Sep 2009	_____	Hatch Transfer Transfer
77	F	14 Feb 2005	58	MULT4	A46 A56 A66	14 Feb 2005 ~15 Jun 2008 18 Sep 2009	_____	Hatch Transfer Transfer
86	M	~ 7 Feb 2008	58	MULT4	A46 A56 A66	~ 7 Feb 2008 23 May 2011 9 Sep 2011	_____	Hatch Transfer Transfer
89	M	6 Feb 2009	58	MULT4	A46 A56 A66	6 Feb 2009 23 May 2011 9 Sep 2011	_____	Hatch Transfer Transfer
92	M	~ 7 Mar 2009	58	MULT4	A46 A56 A66	~ 7 Mar 2009 23 May 2011 9 Sep 2011	_____	Hatch Transfer Transfer
Totals: 4.1.0 (5)								

A70								
110	?	8 Mar 2010	47	37	A44 HRF A70	8 Mar 2010 8 Mar 2010 5 Sep 2010	_____	Hatch Ownership Loan to
112	?	30 Mar 2010	47	37	A44 HRF A70	30 Mar 2010 30 Mar 2010 5 Sep 2010	_____	Hatch Ownership Loan to
Totals: 0.0.2 (2)								

A73								
69	M	~22 Apr 2004	58	MULT4	A46 A56 A73	~22 Apr 2004 ~21 May 2006 19 Jun 2010	_____	Hatch Transfer Transfer
71	F	~ 6 Mar 2004	58	MULT4	A46 A56 A73	~ 6 Mar 2004 ~21 May 2006 19 Jun 2010	_____	Hatch Transfer Transfer
Totals: 1.1.0 (2)								

A74								
74	M	~11 Feb 2004	58	MULT4	A46 A56 A74	~11 Feb 2004 ~21 May 2006 ~ Mar 2009	_____	Hatch Transfer Transfer
Totals: 1.0.0 (1)								

A77								
84	M	~ 7 Feb 2008	58	MULT4	A46 A77	~ 7 Feb 2008 2 Jun 2011	_____	Hatch Transfer
85	M	~ 7 Feb 2008	58	MULT4	A46 A77	~ 7 Feb 2008 2 Jun 2011	_____	Hatch Transfer
Totals: 2.0.0 (2)								

A86								
72	M	14 Mar 2004	58	MULT4	A46 A56 A86	14 Mar 2004 ~21 May 2006 ~2012 +/-1yr	_____	Hatch Transfer Transfer
Totals: 1.0.0 (1)								

A87									
88	?	5 Feb 2009	58	MULT4	A46	5 Feb 2009	_____		Hatch
					A56	23 May 2011	_____		Transfer
					A87	23 Jul 2011	_____		Transfer
97	?	27 Jan 2010	75	67	A56	27 Jan 2010	_____		Hatch
					A87	~11 Jun 2011	_____		Transfer
Totals: 0.0.2 (2)									

A88									
87	?	~25 Feb 2008	58	MULT4	A46	~25 Feb 2008	_____		Hatch
					A56	23 May 2011	_____		Transfer
					A88	~ Apr 2012	_____		Transfer
91	?	12 Feb 2009	58	MULT4	A46	12 Feb 2009	_____		Hatch
					A56	23 May 2011	_____		Transfer
					A88	6 Apr 2012	_____		Transfer
Totals: 0.0.2 (2)									

A89									
95	?	~15 Jan 2010	58	MULT4	A46	~15 Jan 2010	_____		Hatch
					A89	~ 1 Jun 2012	_____		Transfer
96	?	~18 Jan 2010	58	MULT4	A46	~18 Jan 2010	_____		Hatch
					A89	~ 1 Jun 2012	_____		Transfer
98	?	11 Feb 2010	58	MULT4	A46	11 Feb 2010	_____		Hatch
					A89	~ 1 Jun 2012	_____		Transfer
101	?	~12 Feb 2010	58	MULT4	A46	~12 Feb 2010	_____		Hatch
					A89	~ 1 Jun 2012	_____		Transfer
102	?	~24 Feb 2010	58	MULT4	A46	~24 Feb 2010	_____		Hatch
					A89	~ 1 Jun 2012	_____		Transfer
105	?	~ 3 Apr 2010	58	MULT4	A46	~ 3 Apr 2010	_____		Hatch
					A89	~ 1 Jun 2012	_____		Transfer
119	?	~20 Jan 2011	58	MULT4	A46	~20 Jan 2011	_____		Hatch
					A89	~ 1 Jun 2012	_____		Transfer
120	?	~21 Jan 2011	58	MULT4	A46	~21 Jan 2011	_____		Hatch
					A89	~ 1 Jun 2012	_____		Transfer
121	?	~ 2 Feb 2011	58	MULT4	A46	~ 2 Feb 2011	_____		Hatch
					A89	~ 1 Jun 2012	_____		Transfer
Totals: 0.0.9 (9)									

HRF - Homopus Research Foundation									
3	?	????	MULT1	MULT2	KRAAIFONT HRF	???? 21 Nov 1997	_____	III	Hatch
						29 Oct 1999	_____		Transfer
26	?	15 Oct 2001	5	4	HRF	15 Oct 2001	_____	IV-2	Hatch
						26 Apr 2002	_____		Death
31	?	11 Nov 2001	5	4	HRF	11 Nov 2001	_____		Hatch
						11 Nov 2001	_____		Death
36	?	12 Oct 2002	5	4	HRF	12 Oct 2002	_____		Hatch
						12 Oct 2002	_____		Death
Totals: 0.0.4 (4)									

TCBCC - Turtle Conservancy Behler Chelonian Center									
10	M	????	WILD	WILD	A13	????	_____		Transfer
					A12	~16 Sep 1999	_____	ERNST	Transfer
					A43	~ May 2004	_____		Loan to
					TCBCC	7 Oct 2005	_____	AREO02	Transfer
11	F	????	WILD	WILD	KRAAIFONT	????	_____		Transfer
					A12	~16 Sep 1999	_____	A5	Transfer
					A43	~ May 2004	_____		Loan to
					TCBCC	7 Oct 2005	_____	AREO01	Transfer
Totals: 1.1.0 (2)									

WUPPERTAL - Wuppertal Zoological Garten									
40	M	????	WILD	WILD	WUPPERTAL	28 Mar 1991	_____	91586A	Transfer
42	F	22 Feb 1999	58	MULT4	A46	22 Feb 1999	_____		Hatch
					HRF	4 Nov 2004	_____	NOMARK	Transfer
					WUPPERTAL	9 Nov 2004	_____	91586C	Loan to
						14 Apr 2005	_____		Death

43	F	21 Dec 1999	58	MULT4	A46 HRF WUPPERTAL	21 Dec 1999 4 Nov 2004 9 Nov 2004 26 Mar 2005	CR1 91586D	Hatch Transfer Loan to Death
44	F	20 Dec 2001	58	MULT4	A46 HRF WUPPERTAL	20 Dec 2001 4 Nov 2004 9 Nov 2004 4 Nov 2005	CL2 91586E	Hatch Transfer Loan to Death

Totals: 1.3.0 (4)

TOTALS: 41.39.51 (131)

Homopus femoralis: Total studbook population.

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	
A08	1	M	????	WILD	WILD	A28 HRF A08	~ Jan 2001 23 Dec 2001 17 Apr 2002	I	Transfer Loan to Loan to
	6	F	????	WILD	WILD	BEAUF W HRF A08	16 Mar 2006 19 Mar 2006 2 Apr 2006	NONE	Capture Transfer Loan to

Totals: 1.1.0 (2)

A10	2	M	????	WILD	WILD	A28 A08 A10	~ Jan 2001 23 Dec 2001 30 Jul 2006		Transfer Loan to Loan to
	5	F	????	WILD	WILD	BEAUF W HRF A10	16 Mar 2006 19 Mar 2006 30 Jul 2006	NONE	Capture Transfer Loan to

Totals: 1.1.0 (2)

HRF - Homopus Research Foundation	3	M	????	WILD	WILD	A28 HRF	~ Jan 2001 23 Dec 2001	III	Transfer Loan to
	4	F	????	WILD	WILD	BEAUF W HRF	16 Mar 2006 19 Mar 2006	NONE	Capture Transfer
	7	M	7 Jun 2008	3	4	HRF	7 Jun 2008		Hatch
	8	F	30 Jun 2010	3	4	HRF	30 Jun 2010		Hatch
	9	?	26 May 2011	3	4	HRF	26 May 2011 27 Dec 2012		Hatch Death
	10	?	28 May 2011	3	4	HRF	28 May 2011		Hatch

Totals: 2.1.3 (6)

TOTALS: 4.3.3 (10)

Homopus signatus: Total studbook population. MULT1 are specimens 18 and 19, MULT2 specimens 20 and 21. UNK1 and UNK2 are unknown specimens outside of the studbook. ltf means that a specimen is lost to follow-up. Specimen number 95 is inbred and not available for further breeding.

Stud #	Sex	Hatch Date	Sire	Dam	Location	Date	Local ID	Event	
A07	103	M	10 Aug 2008	35	36	A07 HRF A07	10 Aug 2008 10 Aug 2008 27 Feb 2009		Hatch Ownership Death
	108	?	~27 Sep 2009	35	36	A07 HRF A07	~27 Sep 2009 ~27 Sep 2009 ~15 Dec 2009		Hatch Ownership Death
	116	?	12 Aug 2010	35	36	A07 HRF A07	12 Aug 2010 12 Aug 2010 16 Nov 2010		Hatch Ownership Death

Totals: 1.0.2 (3)

A08								
42	F	20 Aug 2002	1	2	HRF A08	20 Aug 2002 19 Apr 2003	II-11	Hatch Loan to
73	M	2 Aug 2005	37	38	HRF A08	2 Aug 2005 18 Apr 2009	HSS73	Hatch Loan to
95	M	18 Sep 2007	41	42	A08 HRF	18 Sep 2007 ~18 Sep 2007		Hatch Ownership
101	?	10 Nov 2008	41	42	A08 HRF A08	10 Nov 2008 10 Nov 2008 ~24 Nov 2008		Hatch Ownership Death
Totals: 2.1.1 (4)								

A10

6	M	8 Nov 1996	1	3	HRF A10 A31 A10	8 Nov 1996 4 Aug 2001 7 May 2002 8 Dec 2002 5 Sep 2009	III-2	Hatch Loan to Loan to Loan to Death
35	M	????	WILD	WILD	SPRINGBOK HRF A07 A10	4 Oct 2001 6 Oct 2001 16 Dec 2001 26 Oct 2012	NONE	Capture Transfer Loan to Loan to
36	F	????	WILD	WILD	SPRINGBOK HRF A07 A10	3 Oct 2001 6 Oct 2001 16 Dec 2001 26 Oct 2012	NONE	Capture Transfer Loan to Loan to
80	?	10 Sep 2006	44	7	A10 HRF A10	10 Sep 2006 10 Sep 2006 1 Mar 2007		Hatch Ownership Death
81	?	3 Sep 2006	44	7	A10 HRF A10	3 Sep 2006 3 Sep 2006 8 Apr 2008		Hatch Ownership Death
120	?	~19 Sep 2011	44	7	A10 HRF	~19 Sep 2011 ~19 Sep 2011		Hatch Ownership
Totals: 2.1.3 (6)								

A12

45	?	~ Jun 2002	MULT1	20	A12	~ Jun 2002 ~ Jun 2002		Hatch Death
46	?	~ Jun 2002	MULT1	20	A12	~ Jun 2002 ~ Jun 2002		Hatch Death
48	?	~ Jul 2002	MULT1	20	A12	~ Jul 2002 ~ Jul 2002		Hatch Death
49	?	~ Jul 2002	MULT1	20	A12	~ Jul 2002 ~ Jul 2002		Hatch Death
Totals: 0.0.4 (4)								

A16

11	M	10 Nov 1997	1	3	HRF A06 A07 A16	10 Nov 1997 22 Nov 1998 5 Jul 2000 16 Sep 2000	III-4	Hatch Loan to Loan to Loan to
14	M	22 Oct 1998	1	3	HRF A07 A16	22 Oct 1998 22 Nov 1998 16 Sep 2000	III-5	Hatch Loan to Loan to
97	F	15 Sep 2007	35	36	A07 HRF A16	15 Sep 2007 15 Sep 2007 14 Mar 2010		Hatch Ownership Loan to
Totals: 2.1.0 (3)								

A18

15	F	20 Sep 1999	1	2	HRF A31 A18	20 Sep 1999 6 May 2002 8 Dec 2002	II-6	Hatch Loan to Loan to
69	M	9 May 2005	37	38	HRF A33 A18	9 May 2005 28 May 2006 3 Sep 2007	HSS69 NURI	Hatch Loan to Loan to

Totals: 1.1.0 (2)

A25	3	F	????	WILD	WILD	SPRINGBOK HRF A25	26 Sep 1995 30 Sep 1995 12 Jun 2004 22 Aug 2008	NONE III	Capture Transfer Loan to Death

Totals: 0.1.0 (1)

A31	22	M	19 Jun 2000	1	2	HRF A31	19 Jun 2000 6 May 2002 14 Sep 2002	II-7	Hatch Loan to Death
	29	?	15 Jul 2001	1	3	HRF A31	15 Jul 2001 6 May 2002 14 Aug 2002	III-9	Hatch Loan to Death

Totals: 1.0.1 (2)

A33	53	F	20 Jul 2003	13	5	HRF A51 A33	20 Jul 2003 16 Sep 2006 30 Dec 2007	030720	Hatch Loan to Loan to
	63	M	6 Jul 2004	35	36	A07 HRF A51 A33	6 Jul 2004 6 Jul 2004 14 Aug 2006 30 Dec 2007 12 Nov 2011		Hatch Ownership Loan to Loan to Death
	66	F	6 Aug 2004	13	5	HRF A51 A33	6 Aug 2004 2 Jun 2006 30 Dec 2007 ~ Apr 2012	040806	Hatch Loan to Loan to Death

Totals: 1.2.0 (3)

A35	31	M	3 Aug 2001	1	2	HRF A31 A35	3 Aug 2001 6 May 2002 30 Nov 2002 ~ Jul 2006	II-10	Hatch Loan to Loan to Death
	34	M	30 Sep 2001	1	3	HRF A31 A35	30 Sep 2001 6 May 2002 30 Nov 2002 ~ 1 Apr 2007	III-11	Hatch Loan to Loan to Death

Totals: 2.0.0 (2)

A36	12	M	21 Nov 1997	1	2	HRF A07 A18 A31 A36	21 Nov 1997 22 Nov 1998 14 Dec 2001 6 May 2002 8 Dec 2002 20 Oct 2003	II-4	Hatch Loan to Loan to Loan to Loan to Death

Totals: 1.0.0 (1)

A37	33	M	19 Aug 2001	1	3	HRF A31 A37	19 Aug 2001 6 May 2002 11 Dec 2002 26 Dec 2003	III-10	Hatch Loan to Loan to Death
	60	F	????	WILD	WILD	UNKNOWN A37	~15 Mar 2003	NONE	Capture lftf Transfer
	61	M	7 Oct 2003	WILD	60	A37	7 Oct 2003 18 Dec 2011		Hatch lftf Transfer
	62	F	5 Jun 2004	WILD	60	A37	5 Jun 2004 18 Dec 2011		Hatch lftf Transfer
	67	M	5 Aug 2004	WILD	60	A37	5 Aug 2004 18 Dec 2011		Hatch lftf Transfer
	83	?	~15 Jan 2006	25	60	A37	~15 Jan 2006 ~15 Jan 2006		Hatch Death
	84	?	~15 Feb 2006	25	60	A37	~15 Feb 2006 ~15 May 2006		Hatch Death

85	?	~15 Mar 2006	25	60	A37	~15 Mar 2006 ~20 Mar 2006	_____	Hatch Death
86	M	~20 Apr 2006	25	60	A37	~20 Apr 2006	_____	Hatch
87	M	~15 Oct 2005	25	60	A37	~15 Oct 2005	_____	Hatch
89	M	18 Jan 2007	25	60	A37	18 Jan 2007	_____	Hatch
92	M	10 Aug 2007	25	60	A37 HRF	10 Aug 2007 ~10 Aug 2007	_____ _____	Hatch Ownership
98	M	29 Dec 2007	25	60	A37	29 Dec 2007 7 May 2012	_____ _____	Hatch Death

Totals: 8.2.3 (13)

A39

40	M	2 Jul 2002	1	3	HRF A39	2 Jul 2002 12 Apr 2003	III-13 _____	Hatch Loan to
88	M	~15 Nov 2005	25	60	A37 HRF A69 A39	~15 Nov 2005 ~15 Nov 2005 30 Aug 2010 24 Nov 2011	_____ _____ _____ _____	Hatch Ownership Loan to Loan to
111	F	13 May 2010	37	38	HRF A39	13 May 2010 3 Dec 2011	_____ _____	Hatch Loan to

Totals: 2.1.0 (3)

A40

43	F	29 Sep 2002	1	2	HRF A40	29 Sep 2002 6 Jun 2003	_____ _____	Hatch Loan to
91	M	3 Aug 2007	37	38	HRF A40	3 Aug 2007 14 Nov 2009	_____ _____	Hatch Loan to

Totals: 1.1.0 (2)

A42

41	M	25 Jul 2002	1	3	HRF A08 A60 A42	25 Jul 2002 19 Apr 2003 12 Oct 2009 22 Jan 2010	III-14 _____ _____ _____	Hatch Loan to Loan to Loan to
55	?	3 Sep 2003	1	2	HRF A42	3 Sep 2003 7 Nov 2003 13 Mar 2004	II-14 _____ _____	Hatch Loan to Death

Totals: 1.0.1 (2)

A43

17	M	????	WILD	WILD	A12 A43	8 Sep 1999 ~ May 2004	_____ _____	Transfer lft Loan to
18	M	????	WILD	WILD	SPRINGBOK A12 A43	~16 Sep 1999 ~16 Sep 1999 ~ May 2004	NONE VIEJO _____	Capture Transfer lft Loan to
19	M	????	WILD	WILD	SPRINGBOK A12 A43	~16 Sep 1999 ~16 Sep 1999 ~ May 2004	NONE STUMPY _____	Capture Transfer lft Loan to
21	F	????	WILD	WILD	SPRINGBOK A12 A43	~16 Sep 1999 ~16 Sep 1999 ~ May 2004	NONE BERTHA _____	Capture Transfer lft Loan to
27	?	17 Oct 2000	MULT1	MULT2	A12 A43	17 Oct 2000 ~ May 2004	SASHI _____	Hatch lft Loan to
28	?	15 Nov 2000	MULT1	MULT2	A12 A43	15 Nov 2000 ~ May 2004	PEANUT _____	Hatch lft Loan to
30	?	26 Jul 2001	MULT1	20	A12 A43	26 Jul 2001 ~ May 2004	_____ _____	Hatch lft Loan to
32	?	10 Aug 2001	MULT1	20	A12 A43	10 Aug 2001 ~ May 2004	_____ _____	Hatch lft Loan to
47	M	????	UNK1	UNK2	A12 A43	~ Jan 2002 ~ May 2004	ERNST _____	Transfer lft Loan to
56	?	22 Aug 2003	MULT1	20	A12 A43	22 Aug 2003 ~ May 2004	_____ _____	Hatch lft Loan to
57	?	17 Sep 2003	MULT1	20	A12 A43	17 Sep 2003 ~ May 2004	_____ _____	Hatch lft Loan to

58	?	20 Sep 2003	MULT1	20	A12 A43	20 Sep 2003 ~ May 2004	_____	Hatch ltf Loan to
Totals: 4.1.7 (12)								

A50								
1	M	????	WILD	WILD	SPRINGBOK HRF A25 A50	27 Sep 1995 30 Sep 1995 12 Jun 2004 8 Mar 2009	NONE I _____	Capture Transfer Loan to Loan to
5	F	27 Feb 1996	WILD	3	HRF A50	27 Feb 1996 16 Sep 2006 24 Mar 2009	III-1 _____	Hatch Loan to Death
13	M	26 Sep 1998	1	2	A07 A18 A31 HRF A50	22 Nov 1998 14 Dec 2001 6 May 2002 8 Dec 2002 16 Sep 2006 15 Sep 2010	_____	Loan to Loan to Loan to Transfer Loan to Death
64	M	29 Jul 2004	1	3	HRF A50	29 Jul 2004 17 Apr 2005 25 Mar 2009	III-19 _____	Hatch Loan to Death
Totals: 3.1.0 (4)								

A52								
70	M	24 Jun 2005	1	3	A25 HRF A52	24 Jun 2005 24 Jun 2005 5 Jan 2007 11 Jun 2007	DOPPIE _____	Hatch Ownership Loan to Death
Totals: 1.0.0 (1)								

A54								
68	M	14 Aug 2004	35	36	A07 HRF A61 A60 A54	14 Aug 2004 15 Aug 2004 8 Oct 2006 ~18 Sep 2008 ~16 Apr 2011 ~17 Oct 2011	_____	Hatch Ownership Loan to Loan to Loan to Death
75	M	9 May 2006	13	5	HRF A54	9 May 2006 24 Mar 2007 ~27 Oct 2010	_____	Hatch Loan to Death
102	M	28 Jun 2008	35	36	A07 HRF A54	28 Jun 2008 28 Jun 2008 2 Jan 2010 ~27 Oct 2010	_____	Hatch Ownership Loan to Death
Totals: 3.0.0 (3)								

A55								
74	M	31 Jul 2005	1	3	A25 HRF A55	31 Jul 2005 31 Jul 2005 24 Mar 2007	_____	Hatch Ownership Loan to
96	F	30 Jul 2007	35	36	A07 HRF A61 A64 A55	30 Jul 2007 30 Jul 2007 13 Apr 2008 10 May 2009 12 Sep 2009	_____	Hatch Ownership Loan to Loan to Loan to
122	?	31 May 2012	74	96	A55 HRF	31 May 2012 31 May 2012	_____	Hatch Ownership
125	?	7 Jul 2012	74	96	A55 HRF	7 Jul 2012 7 Jul 2012	_____	Hatch Ownership
127	?	~ Sep 2012	74	96	A55 HRF	~ Sep 2012 12 Sep 2012	_____	Hatch Ownership
Totals: 1.1.3 (5)								

A57								
10	M	22 Oct 1997	1	2	HRF A10 A31 A33 A57	22 Oct 1997 4 Aug 2001 7 May 2002 8 Nov 2002 6 Apr 2008	II-3 _____	Hatch Loan to Loan to Loan to Loan to
79	F	9 Aug 2006	37	38	HRF A57	9 Aug 2006 5 Nov 2009	_____	Hatch Loan to
Totals: 1.1.0 (2)								

A59
 51 M 1 Jul 2003 1 2 HRF 1 Jul 2003 II-13 Hatch
 A41 2 Nov 2003 Loan to
 A59 13 Sep 2008 Loan to
 113 F 16 Jun 2010 37 38 HRF 16 Jun 2010 Hatch
 A59 3 Dec 2011 Loan to
 Totals: 1.1.0 (2)

A60
 54 F 5 Sep 2003 1 3 HRF 5 Sep 2003 III-17 Hatch
 A42 7 Nov 2003 THEODO Loan to
 A60 22 Jan 2010 Loan to
 29 May 2010 Death
 Totals: 0.1.0 (1)

A62
 25 M 12 Sep 2000 1 3 HRF 12 Sep 2000 III-8 Hatch
 A31 6 May 2002 Loan to
 A37 11 Dec 2002 Loan to
 A62 ~ 9 Oct 2008 Loan to
 2 Jan 2009 Death
 Totals: 1.0.0 (1)

A63
 77 F 13 Jul 2006 44 7 A10 13 Jul 2006 Hatch
 HRF 13 Jul 2006 Ownership
 A63 14 Aug 2010 Loan to
 78 M 10 Jun 2006 44 7 A10 10 Jun 2006 Hatch
 HRF 10 Jun 2006 Ownership
 A63 7 Mar 2009 Loan to
 23 Jul 2010 Death
 93 M 30 Jul 2007 44 7 A10 30 Jul 2007 Hatch
 HRF 30 Jul 2007 Ownership
 A63 14 Aug 2010 Loan to
 Totals: 2.1.0 (3)

A65
 7 F 24 Dec 1996 1 3 HRF 24 Dec 1996 III-3 Hatch
 A06 22 Nov 1998 Loan to
 A07 5 Jul 2000 Loan to
 A18 14 Dec 2001 Loan to
 A31 6 May 2002 Loan to
 A10 8 Dec 2002 Loan to
 A65 11 Nov 2012 Loan to
 44 M 31 Oct 2002 35 36 A07 31 Oct 2002 Hatch
 HRF 31 Oct 2002 Ownership
 A10 24 Jul 2004 Loan to
 A65 11 Nov 2012 Loan to
 72 M 24 Jul 2005 MULT3 MULT4 HRF 24 Jul 2005 ?-1 Hatch
 A65 17 Oct 2009 Loan to
 Totals: 2.1.0 (3)

A67
 76 F 20 Jun 2006 13 5 HRF 20 Jun 2006 V-4 Hatch
 A54 24 Mar 2007 Loan to
 A67 25 Jun 2012 Loan to
 106 M 20 May 2009 35 36 A07 20 May 2009 Hatch
 HRF 20 May 2009 Ownership
 A67 13 Mar 2010 Loan to
 107 M 21 Jul 2009 35 36 A07 21 Jul 2009 Hatch
 HRF 21 Jul 2009 Ownership
 A67 13 Mar 2010 Loan to
 121 ? 23 Sep 2011 35 36 A07 23 Sep 2011 Hatch
 HRF 23 Sep 2011 Ownership
 A67 18 Nov 2011 Loan to
 Totals: 2.1.1 (4)

A68
 99 M 21 May 2008 37 38 HRF 21 May 2008 Hatch
 A68 5 Jun 2010 Loan to

100	M	24 Jun 2008	37	38	HRF A68	24 Jun 2008 5 Jun 2010	_____	Hatch Loan to
Totals: 2.0.0 (2)								

A71								
82	M	26 Dec 2005	25	60	A37 HRF A71	26 Dec 2005 26 Dec 2005 30 Aug 2010	_____ _____ _____	Hatch Ownership Loan to
Totals: 1.0.0 (1)								

A72								
105	M	27 Jul 2009	37	9	HRF A72	27 Jul 2009 29 Oct 2010	_____ _____	Hatch Loan to
Totals: 1.0.0 (1)								

A75								
59	M	10 Jun 2004	1	3	HRF A61 A64 A75	10 Jun 2004 ~17 Apr 2005 10 May 2009 27 Apr 2011	III-18 _____ _____ PANSER	Hatch Loan to Loan to Loan to
Totals: 1.0.0 (1)								

A76								
114	M	4 Jul 2010	37	9	HRF A76	4 Jul 2010 ~27 Jun 2011	_____ _____	Hatch Loan to
Totals: 1.0.0 (1)								

A78								
71	M	25 Jun 2005	44	7	A10 HRF A58 A10 A78	25 Jun 2005 25 Jun 2005 6 May 2008 22 Jan 2012 10 Mar 2012	_____ _____ _____ _____ _____	Hatch Ownership Loan to Loan to Loan to
Totals: 1.0.0 (1)								

A79								
118	F	1 May 2010	44	7	A10 HRF A58 A10 A79	1 May 2010 ~ 1 May 2010 10 Nov 2011 22 Jan 2012 22 Feb 2012	_____ _____ _____ _____ _____	Hatch Ownership Loan to Loan to Loan to
Totals: 0.1.0 (1)								

A80								
109	F	3 Feb 2010	44	7	A10 HRF A58 A10 A80	3 Feb 2010 ~ 3 Feb 2010 10 Nov 2011 22 Jan 2012 17 Mar 2012	_____ _____ _____ _____ _____	Hatch Ownership Loan to Loan to Loan to
Totals: 0.1.0 (1)								

A81								
110	F	23 Mar 2010	44	7	A10 HRF A58 A10 A81	23 Mar 2010 ~23 Mar 2010 10 Nov 2011 22 Jan 2012 22 Feb 2012	_____ _____ _____ _____ _____	Hatch Ownership Loan to Loan to Loan to
Totals: 0.1.0 (1)								

A82								
94	M	27 Aug 2007	44	7	A10 HRF A82	27 Aug 2007 ~27 Aug 2007 10 Mar 2012	_____ _____ _____	Hatch Ownership Loan to
Totals: 1.0.0 (1)								

A83								
112	M	8 Jun 2010	37	9	HRF A72 A83	8 Jun 2010 29 Oct 2010 16 Aug 2012	_____ _____ _____	Hatch Loan to Loan to
Totals: 1.0.0 (1)								

A84								
119	?	~20 Apr 2011	44	7	A10 HRF A84	~20 Apr 2011 ~20 Apr 2011 8 Sep 2012	_____ _____ _____	Hatch Ownership Loan to
Totals: 0.0.1 (1)								

A85									
128	?	15 Jun 2012	35	36	A07	15 Jun 2012	_____	Hatch	
					HRF	15 Jun 2012	_____	Ownership	
					A85	20 Oct 2012	_____	Loan to	

Totals: 0.0.1 (1)

AMSTERDAM - Artis Zoo

115	?	6 Jul 2011	37	9	HRF	6 Jul 2011	_____	Hatch
					AMSTERDAM	6 Nov 2012	R12043	Loan to
117	?	12 Jun 2011	37	9	HRF	12 Jun 2011	_____	Hatch
					AMSTERDAM	6 Nov 2012	R12042	Loan to

Totals: 0.0.2 (2)

HRF - Homopus Research Foundation

2	F	????	WILD	WILD	SPRINGBOK	26 Sep 1995	NONE	Capture
					HRF	30 Sep 1995	II	Transfer
						14 May 2004		Death
4	M	????	WILD	WILD	SPRINGBOK	28 Sep 1995	NONE	Capture
					HRF	30 Sep 1995	IV	Transfer
						24 Dec 1995		Death
8	?	26 Jan 1997	1	2	HRF	2 Feb 1997		Death
9	F	30 Nov 1996	1	2	HRF	30 Nov 1996	II-1	Hatch
16	?	4 Oct 1999	1	3	HRF	4 Oct 1999	III-6	Hatch
						4 Oct 1999		Death
23	?	19 Jul 2000	1	2	HRF	19 Jul 2000	II-8	Hatch
						29 Jun 2001		Death
24	?	2 Aug 2000	1	3	HRF	2 Aug 2000	III-7	Hatch
						2 Aug 2000		Death
37	M	????	WILD	WILD	SPRINGBOK	3 Oct 2001	NONE	Capture
					HRF	6 Oct 2001	_____	Transfer
					A25	6 Oct 2001	_____	Loan to
					HRF	12 Jun 2004	0612-I	Transfer
38	F	????	WILD	WILD	SPRINGBOK	3 Oct 2001	NONE	Capture
					HRF	6 Oct 2001	_____	Transfer
					A25	6 Oct 2001	_____	Loan to
					HRF	12 Jun 2004	612-II	Transfer
39	?	11 Jun 2002	1	3	HRF	11 Jun 2002	III-12	Hatch
						20 Jun 2002		Death
90	F	29 May 2007	37	38	HRF	29 May 2007	_____	Hatch
						8 Jul 2007		Death
104	M	4 Jun 2009	37	38	HRF	4 Jun 2009	_____	Hatch
123	?	24 Jun 2012	37	38	HRF	24 Jun 2012	_____	Hatch
124	?	30 Jun 2012	37	9	HRF	30 Jun 2012	_____	Hatch
126	?	16 Aug 2012	37	9	HRF	16 Aug 2012	_____	Hatch

Totals: 3.4.8 (15)

PRAHA - Zoo Praha

50	M	17 Jun 2003	1	3	HRF	17 Jun 2003	III-15	Hatch
					PRAHA	20 Dec 2003	_____	Loan to
						3 Dec 2010		Death
52	F	9 Jul 2003	1	3	HRF	9 Jul 2003	III-16	Hatch
					PRAHA	20 Dec 2003	_____	Loan to
65	M	31 Jul 2004	35	36	A07	31 Jul 2004	_____	Hatch
					HRF	31 Jul 2004	_____	Ownership
					PRAHA	31 Aug 2006	_____	Loan to

Totals: 2.1.0 (3)

TCBCC - Turtle Conservancy Behler Chelonian Center

20	F	????	WILD	WILD	SPRINGBOK	16 Sep 1999	NONE	Capture
					A12	~17 Sep 1999	MIDGE	Transfer
					A43	~ May 2004	_____	Loan to
					TCBCC	7 Jan 2005	SIGN01	Transfer

Totals: 0.1.0 (1)

WUPPERTAL - Wuppertal Zoological Garten								
26	F	7 Oct 2000	1	2	HRF	7 Oct 2000	II-9	Hatch
					A31	6 May 2002	_____	Loan to
					WUPPERTAL	18 Dec 2002	_____	Loan to
						2 Jun 2008	_____	Death

Totals: 0.1.0 (1)

=====

TOTALS: 60.30.38 (128)

5. SPECIFIC INFORMATION FROM STUDBOOK PARTICIPANTS

Location A16

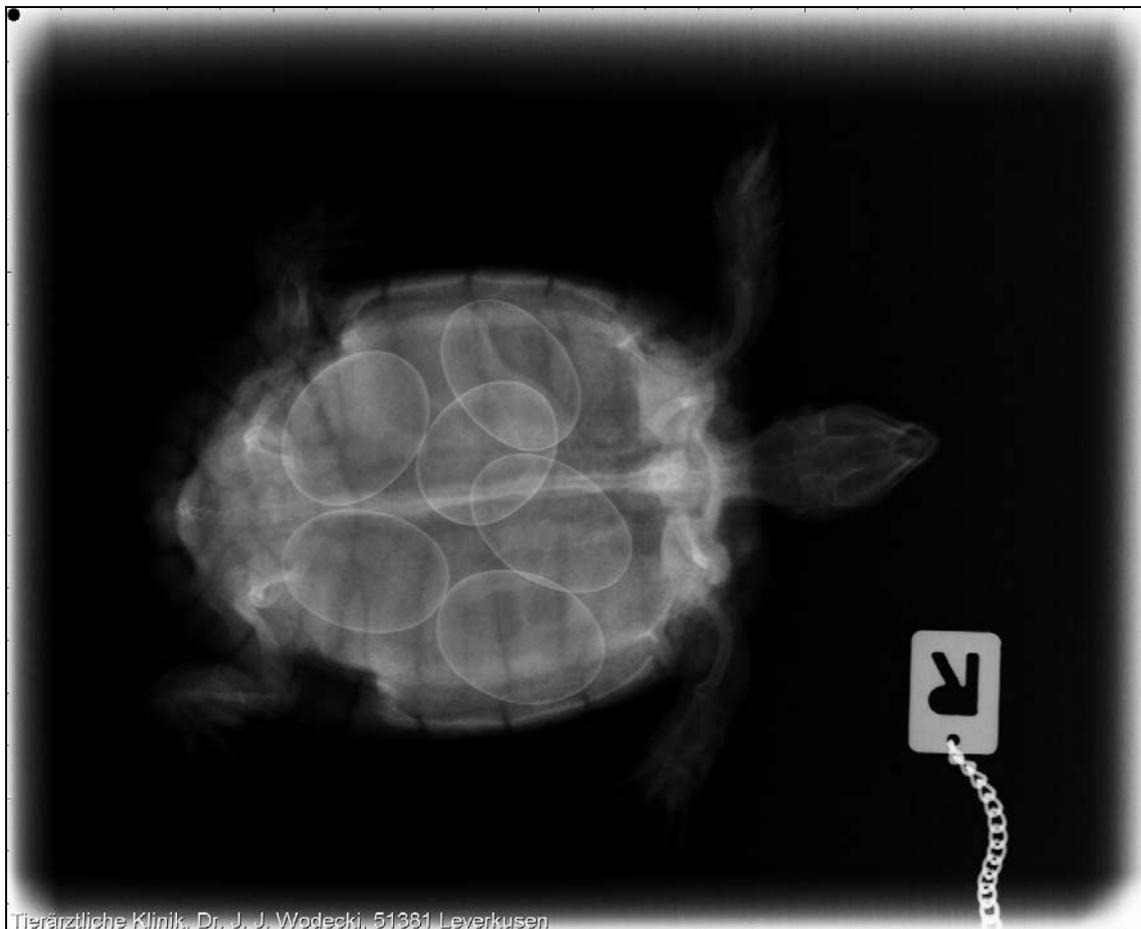
One of the hatchlings *H. areolatus* hatched in the adult enclosure. The hatchling appears strong and has a rigid shell.



The female *H. signatus* did not produce any eggs yet, despite an attempt to switch males.

Location A44

Homopus areolatus female number 37 developed a clutch of six eggs (see photo), and did not appear to do well. The animal died from pneumonia after producing the eggs.



Tierärztliche Klinik, Dr. J. J. Wodecki, 51381 Leverkusen

Location A46

The photo at the right shows a *H. areolatus* hatchling hatching under semi-natural conditions in Namibia.



Location A63

After the conventional lighting had been changed to UV lighting, *H. signatus* appeared to be more active and initiate activity (basking) sooner after switching the lights on in the morning. UV lamps used are Lucky Reptile 70 Watts UV desert HID, and Osram Biolux 18 Watts.

Homopus signatus increasingly preferred dry food instead of fresh food, regardless if fresh food originated from the supermarket or from weeds collected outside. Tortoises would not eat Agrobs/Equifyt pellets unless mixed with other food.



Location A65

The enclosure of *H. signatus* is shared with *Xenagama* sp., for which mealworms form part of the diet. Despite feeding a varied diet that includes nitrogen-rich seedlings, the male *H. signatus* unexpectedly ate mealworms. This was never observed in the previous years. The mealworms appeared to pass the digestive tract undigested.

*Location A68*

A new room is under construction. This new room will use natural sunlight for illumination and heating as much as possible.



Original situation



New situation with large roof windows

Location A75

The male *H. signatus* is a bit shy, as are many other *Homopus*, but eats well and displays normal activity. It seems to prefer semi-dried food, even if the tortoise may choose between fresh plants and dried plants. The faeces are very compact.

Location A77

A detailed report from location A77 can be found in Appendix 1.

Location A82

The male *H. signatus* is a very active fellow, and spent the whole summer in his outside enclosure. At this location, summers tend to be very hot. The tortoise is fed only freshly picked weeds, flowers and succulents. His main staple consists of about 15 different kinds of succulents.

Location HRF

The climate control for all enclosures was changed to reduce the risk that a technical failure (e.g., faulty thermostat or relay) might result in loss of animals. The new system is based on reliable Siemens LOGO! (Siemens AG, Munich, Germany) technology and includes several control and feedback mechanisms to shut off equipment, open windows, or start spraying when high (or faulty) temperatures are indicated. Furthermore, it sends automatic warnings to cellphones, and may be remotely controlled by means of a cellphone. It also logs temperature data and posts these on a website.



Central switchboard



Siemens LOGO! device with one of the programmed control screens.



LOGO!Contact relays to switch large currents.



GSM relay to enable remote control via cellphone.

6. NEW PUBLICATIONS

The following overview summarises all manuscripts and articles that were submitted, accepted,

published, or under review in 2012.

Subject	Submitted	Accepted	Published	Journal
High body temperatures in an arid, winter-rainfall environment: thermal biology of the smallest tortoise	2011	2012	2012	Journal of Arid Environments (English)
<i>Homopus femoralis</i> Boulenger, 1888, greater padloper, diet	2012	2012	2012	African Herp News (English)
Erfahrungen bei der Haltung und Fortpflanzung der Areolen-Flachschildkröte (<i>Homopus areolatus</i>) unter unterschiedlichen Bedingungen in Namibia und in der Schweiz. Teil 1: Haltung und Fortpflanzung der Art in Namibia (Südliches Afrika)	2012	2012	2012	Marginata (German)
Erfahrungen bei der Haltung und Fortpflanzung der Areolen-Flachschildkröte (<i>Homopus areolatus</i>) unter unterschiedlichen Bedingungen in Namibia und in der Schweiz. Teil 2: Haltung und Fortpflanzung der Art in der Schweiz	2012	2012	2012	Marginata (German)
Road mortality in the greater padloper, <i>Homopus femoralis</i>	2009/2012	2012		Turtle and Tortoise Newsletter (English), resubmitted to Chelonian Conservation and Biology (English)
Activity of the greater padloper (<i>Homopus femoralis</i> , Testudinidae) in relation to rainfall	2012	2012		African Zoology (English)
<i>Homopus femoralis</i> (greater padloper): reproduction	2012			Herpetological Review (English)

7. FINANCIAL REPORT

Funds that were accumulated over the past years were depleted in 2012, as a result of the purchase of equipment (e.g., transmitters, iButtons, tortoise models) for the *H. signatus* thermoregulation study (see Paragraph 1.2). Equipment will enable this study to continue till 2013 or 2014. Several significant donations were received from studbook participants Martijn Kooijman and Paul van Sloun.

Financial report Homopus Research Foundation 2012

Revenues		Expenses	
Net amount	Item	Amount	Item
€		€	
Project <i>H. signatus</i> 2012-2013		Project <i>H. signatus</i> 2012-2013	
4,496	Remaining funds 2011	3,624	Radiotransmitters (10 pcs) and recharging (10 pcs)
854	Donations private individuals	1,393	iButtons (38 pcs)
		274	Tortoise models (18 pcs)
		18	Other research materials
		41	Reservation project expenses 2013
5,350	Subtotal	5,350	Subtotal
Other		Other	
105	Donation V. Loehr to cover non-project expenses	24	Chamber of Commerce 2012
		81	Annual costs bank accounts
105	Subtotal	105	Subtotal
5,455	Total	5,455	Total

8. PERMIT OVERVIEW

The activities reported in this document would not have been possible without the following permits

issued by the South African and Namibian authorities:

Exporting of H. areolatus

- Exporting permit 49683 (Ministry of Environment and Tourism, Namibia)
- CITES exporting permit 8830 (Ministry of Environment and Tourism, Namibia)
- CITES exporting permit 3558 (Ministry of Environment and Tourism, South Africa)
- Health certificate 13\1\4\2\ 09/2- 1676/04 (Ministry of Agriculture, Water and Rural Development, Namibia)
- Various additional permits issued to individual studbook participants (Namibia)

Collecting and exporting of H. femoralis

- Collecting permit AAA004-00010-0035 (CapeNature, South Africa)
- CITES exporting permit 58679 (Department of Environmental Affairs and Tourism, South Africa)
- Health declaration dated 17-03-06 (Department of Agriculture, South Africa)

Collecting and exporting of H. signatus

- Collecting permit 331/95 (Western Cape Nature Conservation Board, South Africa)
- Collecting permit 28/2001 (Northern Cape Nature Conservation, South Africa)
- CITES exporting permits 16579 and 281/95C (Department of Environmental Affairs and Tourism, South Africa)
- Permit to move animals/animal products 2001/10/3/A (Department of Agriculture, South Africa)

Field study on H. boulengeri

- Research permits 755/05, 43/2005 and 35/2005 (Northern Cape Nature Conservation, South Africa)

Field study on H. femoralis

- Research permit AAA-004-000185-0035
- Research permit AAA-004-00020-0028
- Research permit AAA-004-000392-0035
- Research permit AAA-004-00027-0028

Field studies on H. signatus and H. s. cafer

- Research permits 137/99, 84/99, 019/2001, 010/2001, 46/2003, 26/2003, 8/2003, 168/2003, 43/2003, 158/2003, 633/2003, 25/2003, 158/2004 and 633/2004 (Northern Cape Nature Conservation, South Africa)
- Research permits 428/2002 and 41/2002 (Western Cape Nature Conservation Board, South Africa)
- Research permits 152/2012 and 153/2012 (Northern Cape Department of Environment and Nature Conservation, South Africa)

APPENDIX 1 - REPORT FROM LOCATION A77

Jahresbericht 2012

1. Erfahrungen zur Haltung der Homopus areolatus während der Wintermonate in einem Terrarium. Das Terrarium befindet sich in einem Wintergarten, welcher kaum beheizt ist und sich somit bei tiefen Außentemperaturen schnell auskühlt, während er sich bei Sonnenschein schnell aufwärmt.

Die Temperaturschwankungen bewegten sich im Terrarium von 8 o C (Nachts ohne Lampen) bis zu 40 o C (Tagsüber bei Sonnenschein).

Als **Fazit** kann gesagt werden, dass die beiden Homopus diese Bedingungen sehr gut überstanden haben.

2. Weiterhin war von Interesse, ob ein Zusammenhang erkennbar ist zwischen den Wetterbedingungen und den Aktivitäten der Tiere und ob sich Unterschiede bei den beiden Homopus zeigen. Hierzu wurden die Tiere täglich beobachtet und die Bedingungen wie Wetter und Temperatur festgehalten.

Der Erfassungs- und Auswertungszeitraum ging vom 27.12.2011 – 31.3.2012. Die Erfassung danach wurde fortgesetzt aber nicht mehr ausgewertet.

Nachstehend ein kleiner Ausschnitt aus der Datensammlung.

Datensammlung: Tägliche Beobachtungen (daily observation)									
Legende:									
			Aktivität (activity): A = gering (small)						
			AA = mittel (middle)						
			AAA = hoch (high)						
			J = Ohne Werte/Angaben (without values)						
			35 Watt = Zusatzlampe nachts geschaltet (additional lamp during the night)						
Datum (date)	Wetter (weather)	Temperatur (temperature outside)	Aktivität (activity)	No. 04 Dauer (duration)	Fressen (eating)	Aktivität (activity)	No. 05 Dauer (duration)	Fressen (eating)	Sonstige (others)
25.12.2011	J	J	A	11:30 - ?	J	J	13:00 - ?		
26.12.2011	J	J	A	2 Std.	J	J			
27.12.2011	Sonne	J	A	9:00 - ?	J	A	12:30 - ?		
28.12.2011	Sonne	J	AA	11:00 - 17:00	J	A	kurz		
29.12.2011	Sonne (wenig)	J	AA	13:00 - 17:00	J	A	kurz		
30.12.2011	trüb / kalt	J	keine	J	J	keine			
31.12.2011	trüb / kalt	J	keine	J	J	keine			
01.01.2012	wenig Sonne	J	AA	13:00	ja	AA	14:00	ja	
02.01.2012	Sonne	J	AAA	12:00	J	AA	14:00	J	
03.01.2012	Sonne (warm)	J	AAA	J	J	AA	J	J	
04.01.2012	Sonne	J	AA	12:00 - 16:00	J	keine	J	J	
05.01.2012	kalt windig	J	keine	J	J	keine	J	J	
06.01.2012	Sonne (wenig)	J	AAA	J	ja	AAA	J	ja	gebadet
07.01.2012	kalt windig	J	keine	J	J	J	J	J	
08.01.2012	Sonne (wenig)	J	AA	13:00 - 16:00	ja	AA	13:00 - 16:00	ja	
09.01.2012	keine Sonne	J	keine	J	J	keine	J	J	
10.01.2012	Sonne (wenig)	J	AA	14:00 - 17:30	ja	keine	13:00 - 15:00	ja	
11.01.2012	trüb / kalt	J	A	13:00 - 16:00	ja	kaum	J	J	gebadet
12.01.2012	trüb / kalt	J	A	11:00 - 15:00	ja	kaum	J	J	
13.01.2012	trüb / kalt	J	A	9:30 - 14:00	ja	kaum	J	J	
14.01.2012	Sonne (wenig)	J	AA	10:30 - 16:15	J	kaum	13:30 - 16:00	J	
15.01.2012	Sonne (wenig)	J	AA	10:00 - 17:00	ja	kaum	13:00 - 15:00	ja	gebadet
16.01.2012	Sonne	J	AAA	11:00 - ?	ja	AA	11:00 - 16:00	ja	
17.01.2012	Sonne	J	AAA	10:00 - ?	ja	AA	12:00 - ?	ja	
18.01.2012	Sonne	J	AAA	11:00 - ?	ja	AA	13:00 - ?	ja	gebadet
19.01.2012	trüb	J	AA	13:00 - 16:00	ja	keine	J	J	
20.01.2012	Sonne (wenig)	J	AA	11:30 - 16:30	ja	keine	13:00 - 15:30	J	
21.01.2012	kalt	J	A	11:30 - 16:00	kaum	keine	J	J	
22.01.2012	kalt	J	keine	J	J	keine	J	J	
23.01.2012	kalt	J	A	11:00 - 16:00	ja	keine	J	J	
24.01.2012	kalt	J	A	10:00 - ?	kaum	keine	J	J	
25.01.2012	kalt	J	AA	11:00 - 16:00	kaum	keine	J	J	gebadet

Yearly report 2012

1. The experiences for the attitude of the Homopus areolatus during the winter months in a Terrarium. That Terrarium is in a winter garden, which is scarcely heated and so cools down fast with deep outside temperatures and during sunshine fast warms up.

Temperature fluctuations were moving in the Terrarium by 8 o C (night without lights) up to 40 o C (during the day with sunshine). It can be said as a conclusion that the two Homopus have survived these conditions very well.

2. Still was of interest, whether a link is visible between the weather conditions and the activities of the animals and whether or not it shows differences between the both Homopus. To do this, the animals were observed daily and the conditions such as weather and temperature were fixed.

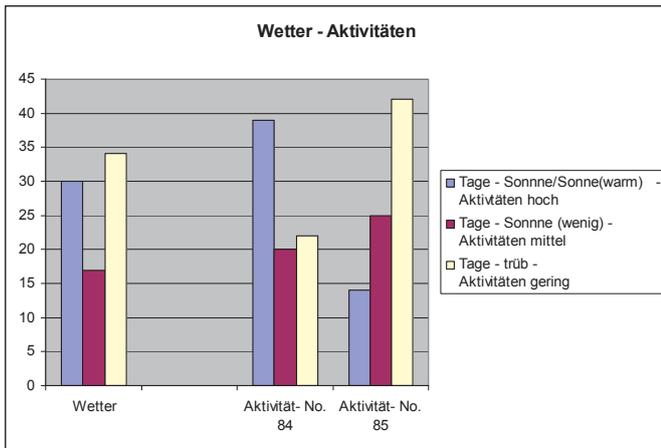
The collection and evaluation period went from the 27.12.2011 - 31.3.2012. The collection was then continued but no longer evaluated.

Hereafter see a small excerpt from the Data collection.

Dies ist nur ein Beispiel
This is only an example

Die Auswertung der Datensammlung zeigt sehr deutlich, dass Homopus No. 84 viel aktiver als das No. 85 war. Darüber hinaus zeigt sich insbesondere bei No. 84, dass bei Sonnenschein oft auch eine stärkere Aktivität festzustellen ist und dies obwohl sich das Terrarium in einem Wintergarten befindet (also unter Glas)

The evaluation of data collection shows very clear that the Homopus No. 84 was more active as No. 85. In addition shows particularly for the No. 84, that often also by sunshine the activity is greater and this although the terrarium himself is in a winter garden (so under glass)



weather - activities

■ days – sun / sun (warm)
activity high

■ days - sun little
activity middle

■ days - cloudy
activity small

3. Die Entwicklung der Homopus areolatus.

Homopus No. 84

3. The development of the Homopus areolatus



Information in general:			
Incubation period: unknown			
hatching mass: 8,0 g			
hatchling born in the outside terraria			
oviposition: unknown!			
found in outside enclosure 07.02.2008			
Studbook No. 84			
Growth data:			
Date	l x w x h in mm	mass in g	
07.02.2008	31,5 x 30,0 x 28,0	8,0	
20.04.2008		11,0	
08.06.2008	38,0 x 38,0 x 22,0	13,0	
17.10.2008	49,0 x 46,0 x 24,0	21,0	
05.02.2009	54,5 x 48,5 x 25,0	29,0	
03.05.2009	61,5 x 55,0 x 21,0	40,0	
02.09.2009	64,0 x 56,0 x 28,5	44,0	
26.11.2009	68,5 x 58,0 x 30,5	55,0	
03.04.2010	70,0 x 58,5 x 30,5	59,0	
26.08.2010	71,5 x 59,5 x 32,0	64,0	* after hibernation
19.01.2011	77,5 x 62,0 x 35,0	80,0	
19.05.2011	77,5 x 62,0 x 34,5	83,0	Sex: most possibly female
02.06.2011 Specimen will be send to Mrs Ursula Weber Langenau/Germany			
03.07.2011	78,3 x 62,2 x 35,0	89,0	
07.09.2011	85,5 x 63,0 x 36,0	109,0	
13.11.2011	87,5 x 66,7 x 39,1	117,0	
23.12.2011	88,9 x 66,7 x 39,1	124,0	
18.02.2012	90,2 x 67,0 x 39,2	134,0	
09.04.2012	92,6 x 68,4 x 41,4	146,0	
26.05.2012	93,9 x 68,7 x 42,2	142,0	

Homopus No. 85



Information in general:			
Incubation period: unknown			
hatching mass: 9.0 g			
hatchling born in the outside terraria			
oviposition: unknown			
found in outside enclosure 07.02.2008			
Studbook No. 85			
Growth data:			
Date	l x w x h in mm	mass in g	
07.02.2008	32,0 x 31,0 x 18,0	9,0	
20.04.2008		12,0	
08.06.2008	39,5 x 38,0 x 19,5	13,0	
17.10.2008	48,5 x 44,5 x 23,5	21,0	
05.02.2009	54,0 x 43,0 x 24,5	28,0	
03.06.2009	68,0 x 51,5 x 25,6	32,0	
02.09.2009	59,5 x 53,5 x 26,0	38,0	
26.11.2009	64,0 x 54,0 x 29,0	45,0	
03.04.2010	65,5 x 54,5 x 28,5	44,0	
26.08.2010	66,5 x 55,0 x 29,5	52,0	* after hibernation
19.01.2011	71,5 x 58,0 x 31,0	62,0	
19.05.2011	75,5 x 59,5 x 33,5	73,0	sex: male most possibly
02.06.2011 Specimen will be send to Ursula Weber, Langenau/Germany			
03.07.2011	77,5 x 62,0 x 34,5	81,0	
07.09.2011	82,5 x 62,1 x 34,5	99,0	
13.11.2011	84,5 x 62,1 x 35,5	105,0	
23.12.2011	85,9 x 63,9 x 38,0	102,0	
18.02.2012	86,3 x 63,9 x 38,0	115,0	
09.04.2012	87,5 x 63,9 x 38,4	111,0	
26.05.2012	88,7 x 63,9 x 38,9	116,0	



Homopus areolatus

Es zeigt sich, dass das No. 84 schneller gewachsen ist und auch stärker zugenommen hat.

Aufenthaltszeiten

Außengehege: Mai - September
Terrarium: Oktober – April

Verhalten

Die weiteren Beobachtungen der beiden Homopus verstärkten immer mehr die Zweifel, ob es sich tatsächlich um ein Pärchen handelte. Die Tiere zeigten überhaupt kein Paarungsverhalten. Dann war zu beobachten, dass ein Tier plötzlich wie von der Tarantel gestochen durch das ganze Terrarium rannte. Dabei entwickelte es eine Geschwindigkeit, wie wir uns dies bis dato nicht vorstellen konnten. Der nächste Schritt war, dass sich die Tiere mit aufgerissenen Mäulern anfauchten und letztlich sich sogar richtig ineinander verbissen.

Die absolute Sicherheit, dass es sich nicht um ein Pärchen sondern um 2 Männchen handelt erhielten wir durch Alfred der uns im Juli besuchte und der unsere Vermutung bestätigte.

Hieraus folgt natürlich und dies ist sehr schade, dass Nachzuchten nicht möglich sind.

It is evident, that the No. 84 has grown faster and his weight has increased even more.

Residence time

External enclosure: May - September
Terrarium: October – April

Behavior

The other observations of the two Homopus increased the doubts more and more, whether it was actually a couple. The animals showed no mating behaviour at all. Then was to observe that an animal suddenly ran as stung by the Tarantula through the hole terrarium. Thus, it developed a speed as we could not imagine up this to date. The next step was, that the animals with mouths torn up hissed and ultimately even properly dogged into one another.

The absolute certainty, that it is not a couple but 2 male, we received by Alfred who came to visit us in July and who confirmed our guess.

From it follows naturally and this is very regrettable that offsprings are not possible.



*Nicht gut aufeinander zu sprechen.
Not good each other to speak.*

Eine weitere Konsequenz war, dass im Außengehege und im Terrarium jeweils eine Trennwand eingebaut werden musste.



*Außengehege mit Trennwand
External enclosure with dividing wall*



*Terrarium mit Trennwand
Terrarium with dividing wall*



*Unterschlupf mit Türe im Außengehege
Shelter with a door in the external enclosure*

Ausstattungen - equipments



Planzenauswahl – plant selection

- Dickblattgewächse – z.B. *Graptopetalum paraguayense*, *Pachyveria nigra*, *Sedum pachyphyllum*
- Ananasgewächse – Bromeliaceae – z.B. *Tillandsia crocata*, *-usneoides*, *-ionantha*

Pflanzen werden 1 x mal in der Woche gegossen und 2 -3 x mal besprüht.

Die Pflanzen werden auch gerne von den Homopus gefressen

Plants are cast 1 x time a week and 2-3 x times sprayed.

The plants are also eaten by the Homopus

Weitere Ausstattungen

Das Terrarium ist ausgerüstet mit:

- 2 Lampen Lucky Reptile Bright Sun jungle/desert flood 70 Watt und Bright Sun desert 70 Watt.
Beleuchtungsdauer von 7 – 18.00 Uhr
- Weitere Lampen: Dupla T5- Halogen Leuchtstoffröhren 4 x 24 Watt
Beleuchtungsdauer von 7 – 18.00 Uhr

Luftbefeuchter Lucky Reptile Super Fog.
Befeuchtungsdauer von 8 – 8.30 Uhr

Das Außengehege wird mit einem engmaschigen Drahtgeflecht abgedeckt. Bei Kälte und Regen und in der Nacht mit Doppelstegplatten.

Further equipment

The terrarium is equipped with:

- 2 lamps Lucky Reptile Bright Sun jungle/desert flood 70 watt and Bright Sun desert 70 watt.
Cyclic duration of 7 o'clock to 18 o'clock
- Further lamps: Dupla T5- Halogeneous fluorescent tubes 4 x 24 watt
Cyclic duration of 7 o'clock to 18 o'clock

An air moisturizer Lucky Reptile Super Fog.
Cyclic duration of 8 o'clock to 8.30 o'clock.

The outdoor enclosure is covered with a fine-meshed wire mesh.

When it is cold and rain, and at night with double-walled plates