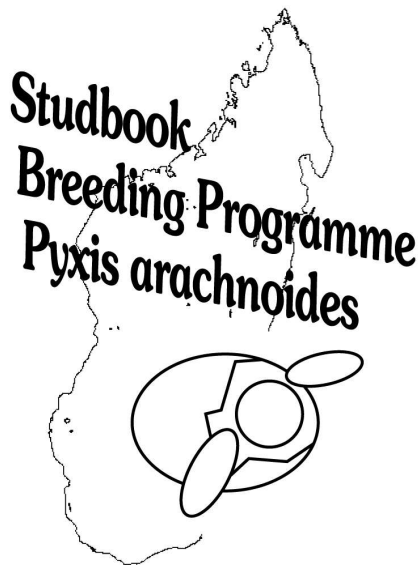


**Studbook**  
**Breeding Programme**  
***Pyxis arachnoides***



**Annual Report**  
**2004**

*Frank Van Loon*  
*January 2005*



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### APPENDIX HUSBANDRY CONDITIONS AND ADDITIONAL INFORMATION PER LOCATION

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Since 1992 several Dutch herpetological societies have initiated studbook programmes on reptile and amphibian species. In 1997, all programmes were condensed into an independent foundation currently known as European Studbook Foundation. Early in its development, the foundation formulated the very important criteria that no studbook participant would jeopardise their important herpetological contributions and goals with any commercial enterprise from their specimens, either currently or in the future.

The aims of the studbook programmes in general are:

- To inform the herpetological community with data and publications generated from captive situations and field studies
- Procuring, maintaining, and reproducing genetically healthy captive individuals for future loans to recognised individuals and institutions

These conservation goals are particularly relevant today as wild populations of many reptiles and amphibians experience increasing survival pressures. Establishing working programs that emphasise captive husbandry in conjunction with fieldwork is crucial in developing sound wildlife management. A significant contribution that captive animals may perform is through the concept of re-introduction of their potential offspring. Although re-introduction of species is at a very early stage and occasionally controversial, there may come a time when the offspring of captive animals are the sole source for re-introducing species into previously suitable habitat where the natural population has become extinct. More importantly re-introduction has the potential of insuring genetic diversity to populations that have become unnaturally isolated due to human interference.



## 1. INTRODUCTION AND ACTIVITIES IN 2004

### Introduction

This report is an update of the annual report of the Studbook Breeding Programme *Pyxis arachnoides* published in 2003. The programme aims to form genetically healthy, reproducing captive populations, to study these, and to gather and distribute as much information about *P. arachnoides* as possible. In order to keep the studbook manageable (in terms of number of tortoises and contacts between participants and coordinator), it has been decided that the studbook will operate exclusively in Europe, despite occasional applications from keepers of *P. arachnoides* in the USA. *Pyxis a. arachnoides* especially appears to be present in Europe in sufficiently large numbers. It would be a welcome development if someone in the USA would set up a studbook on *P. arachnoides*, similar to the Studbook Breeding Programme *Pyxis arachnoides*. Eventually, both studbooks could be linked.

This report will summarise the activities of the Studbook Breeding Programme *Pyxis arachnoides* in 2004, plans for 2005, and it will give an overview of the current composition and changes in the captive population *P. arachnoides*. Additional information may be obtained from the internet site of the programme, <http://home.kabelfoon.nl/~loehr/pyxis>, or from the studbook co-ordinator.

In the following sections, an overview of the main activities in 2004 is presented.

### Internet site

The internet site of the Studbook Breeding Programme *Pyxis arachnoides* has not undergone any major changes. A new studbook programme, SEBAG, has been introduced to make maintaining of a studbook population easier.

The actual composition of the studbook population has been updated on an annual basis. The appendices in the annual studbook reports remain the major source of husbandry information.

There have been no more complaints on commercials popping up at the site, however the situation has remained the same. It remains the idea of the studbook coordinator that a private site for the studbook breeding programme *Pyxis arachnoides* is in order. The coordinator will see what the possibilities are (eg. Domainname, costs, webbuilding,...).

### Presentations and publications

In 2004, several publications, written by studbook participants, were submitted and published. One manuscript on breeding *Pyxis arachnoides brygooi* was published in "Radiata" (a German magazine). Another manuscript on keeping and breeding *Pyxis a. arachnoides* was published in "Schildkroeten im Focus" (a German magazine).

### Contacts

In 2004 the search for interested keepers was continued. Several new locations were found interested in the studbook but so far only one new location was registered. Slowly but surely, more and more keepers/breeders of *Pyxis arachnoides* seem to find their way to the studbook coordinator, not always resulting in registration (there still seems to be a certain threshold for a number of people) but definitely resulting in providing and distributing valuable information on husbandry of *Pyxis arachnoides*. Perhaps the new CITES-status of the species will persuade more keepers to join the studbook. All participants have been notified that, as of this year, all *Pyxis arachnoides* are placed under CITES I (as requested by Madagascar).

An American zoo has made contact for husbandry information about their newly acquired specimen.

## 2. PLANS FOR ACTIVITIES IN 2005

A certain amount of time was spend on the studbook during 2004, but it was far from enough. The studbook coordinator will have to spend more time on this studbook to reach more people. Updating and working on the studbook could be more efficient if the website were to be placed in the coordinator's hands. The biggest disadvantage is that the website will have to change its address.

On the other hand a certain amount of cooperation will have to be provided by the studbookparticipants. This is a known problem for not only this studbook but for several studbooks. As known there are participants that will allways answer and those who seem to be, more or less, never home. This, off course, makes running a studbook more difficult then it should be.

As more keepers start to breed one or more subspecies, the interaction between the participants and between the participants and the studbook coordinator will have to increase in order to avoid inbreeding and to maintain the optimum amount of unrelated bloodlines. Not allways easy to achieve this, due to the fact that the species is highly priced and not allways easy to find or not allways found at the right time or by the right person(s). It happens that persons buy 2 related hatchlings but have no more funding to acquire more unrelated hatchlings or start coupling captive born adults to their wild-caught counterparts. This situation is not ideal for the species but , sometimes, cannot be avoided by the coordinator.

The studbook coordinator replaced his adult couple to another location in Oct 2003 and the first positive results are visible. The couple, or better the female, started laying eggs. Where no more than two eggs were laid at my location, this first year already 4 eggs were laid. That this new location has the right environment for this species is becoming more obvious every year.

More attempts will be made to reach keepers/breeders. This will be done by contacting several tortoise and reptile societies in Europe. An article will be publised, in English, to try to boost the interest of the people and to reach a broader public.

### Internet site

In 2005, the internet site of the Studbook Breeding Programme *Pyxis arachnoides* will remain to be maintained by Victor Loehr, who receives the updates from Frank Van Loon. There are indirect plans for changes, the sooner, the better.

### Presentations and publications

A major English manuscript on husbandry and breeding of *P. a. arachnoides* is currently in press in the proceedings of the first European symposium on turtles and tortoises (Vienna, January 2002). However, this has not been written by a studbook participant.

### 3. CURRENT LIVING STUDBOOK POPULATION

The total number of registered live specimens *P. arachnoides* increased to 78. Three specimens died, and 5 were born at three locations. Five specimens were acquired from outside the studbook. Three captive bred animals were sold to a person outside the studbook, who does not wish to join. This, off course, is his privilege but we have to try to keep as much animals in the studbook as we can. One way of doing this could be to include in the transfer, the statement that the animals should stay in the studbook. The specimens are currently housed at 15 locations (14 in 2003) in the Netherlands (8), Belgium (1) and Germany (6). All subspecies are represented in the studbook, but *P. a. oblonga* and *P. a. brygooi* are very limited in numbers.

All transfers in 2004 are related to subspecies *P. a. arachnoides*. Although negotiations are being made for the transfer of *Pyxis arachnoides oblonga*.

**Table I:** Current living studbook population *Pyxis arachnoides* per location as registered in the studbook. The numbers far right are relative numbers per location, indicating which specimens are housed together. MULT1 is sire 26 or 27. UNKx specimens are founders outside of the studbook, used to register relationships between offspring in the studbook.

**a) *Pyxis arachnoides arachnoides***

```

=====
Location: A08
=====
Stud # | Sex | Hatch Date | Sire | Dam | Location | Date | Local ID | Event |
=====
18 M ???? WILD WILD A08 ~ Jan 1995 _____ Transfer
ROTTERDAM 4 Sep 2002 704790 Loan to
A08 17 Nov 2004 _____ Transfer 3

23 M ???? WILD WILD A05 ???? _____ Transfer
A10 28 Jun 1999 PAAM1 Transfer
A08 29 Sep 2003 _____ Loan to 3

24 F ???? WILD WILD A05 ???? _____ Transfer
A10 28 Jun 1999 PAAF1 Transfer
A08 29 Sep 2003 _____ Loan to 3

26 M ???? WILD WILD A11 ~ 1985 _____ Transfer
A02 29 Dec 1999 I Loan to
A08 18 Feb 2001 _____ Loan to 1

27 M ???? WILD WILD A11 ~ 1985 _____ Transfer
A02 29 Dec 1999 II Loan to
A08 18 Feb 2001 _____ Loan to 1

29 F ???? WILD WILD A11 ~ 1985 _____ Transfer
A02 29 Dec 1999 IV Loan to
A08 18 Feb 2001 _____ Loan to 1

71 F ???? WILD WILD LONDON RP ???? _____ Transfer
ROTTERDAM 23 Dec 2001 704781 Transfer
A08 17 Nov 2004 _____ Loan to 3

80 ? 26 Jul 2002 MULT1 29 A08 26 Jul 2002 _____ Hatch 2

88 ? 19 Jun 2003 MULT1 29 A08 19 Jun 2003 _____ Hatch 2

89 ? 18 Jul 2003 MULT1 29 A08 18 Jul 2003 _____ Hatch 2

90 ? 08 Aug 2003 MULT1 29 A08 08 Aug 2003 _____ Hatch 2

91 ? 31 Aug 2003 MULT1 29 A08 31 Aug 2003 _____ Hatch 2

93 ? 09 Jun 2004 MULT1 29 A08 09 Jun 2004 _____ Hatch 2

94 ? 17 Jun 2004 MULT1 29 A08 17 JUN 2004 _____ Hatch 2

95 ? 04 Jul 2004 MULT1 29 A08 04 Jul 2004 _____ Hatch 2
    
```

Totals: 4.3.8 (15)

**Location: A10**

| Stud # | Sex | Hatch Date  | Sire  | Dam | Location   | Date                       | Local ID | Event             |
|--------|-----|-------------|-------|-----|------------|----------------------------|----------|-------------------|
| 79     | ?   | 06 May 2002 | MULT1 | 29  | A08<br>A10 | 06 May 2002<br>29 Sep 2003 | _____    | Hatch<br>Transfer |
| 84     | ?   | 08 Jun 2002 | MULT1 | 29  | A08<br>A10 | 08 Jun 2002<br>29 Sep 2003 | _____    | Hatch<br>Transfer |

Totals: 0.0.2 (2)

**Location: A11**

| Stud # | Sex | Hatch Date  | Sire  | Dam | Location   | Date                       | Local ID      | Event               |
|--------|-----|-------------|-------|-----|------------|----------------------------|---------------|---------------------|
| 68     | ?   | 14 Jun 2001 | MULT1 | 29  | A02<br>A11 | 14 Jun 2001<br>17 Feb 2002 | IV-2<br>_____ | Hatch<br>Transfer 1 |

Totals: 0.0.1 (1)

**Location: A19**

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location   | Date                      | Local ID | Event                |
|--------|-----|-------------|------|------|------------|---------------------------|----------|----------------------|
| 40     | ?   | 13 Aug 1999 | UNK1 | UNK2 | A07<br>A19 | 13 Aug 1999<br>1 Mar 2000 | _____ 1  | Hatch<br>Transfer 1? |
| 41     | ?   | 28 Aug 1999 | UNK1 | UNK2 | A07<br>A19 | 28 Aug 1999<br>1 Mar 2000 | _____ 2  | Hatch<br>Transfer 1? |
| 42     | ?   | 8 Aug 2000  | UNK1 | UNK2 | A07<br>A19 | 8 Aug 2000<br>1 Sep 2000  | _____ 3  | Hatch<br>Transfer 1? |
| 43     | ?   | 12 Aug 2000 | UNK1 | UNK2 | A07<br>A19 | 12 Aug 2000<br>1 Sep 2000 | _____ 4  | Hatch<br>Transfer 1? |

Totals: 0.0.4 (4)

**Location: A22**

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location          | Date                                      | Local ID     | Event                         |
|--------|-----|-------------|------|------|-------------------|---|--------------|-------------------------------|
| 1      | M   | 9 Sep 1996  | UNK1 | UNK2 | A07<br>A02<br>A22 | 9 Sep 1996<br>22 Nov 1998<br>24 Feb 2001  | _____ 960909 | Hatch<br>Loan to<br>Loan to 1 |
| 2      | F   | 16 Nov 1996 | UNK1 | UNK2 | A07<br>A02<br>A22 | 16 Nov 1996<br>22 Nov 1998<br>24 Feb 2001 | _____ 961116 | Hatch<br>Loan to<br>Loan to 1 |
| 3      | M   | 16 Sep 1997 | UNK1 | UNK2 | A07<br>A02<br>A22 | 16 Sep 1997<br>22 Nov 1998<br>24 Feb 2001 | _____ 970916 | Hatch<br>Loan to<br>Loan to 1 |
| 96     | F   | ????        | WILD | WILD | A22               | 27 Dec 2004                               | _____        | Transfer 2                    |
| 97     | M   | ????        | WILD | WILD | A22               | 27 Dec 2004                               | _____        | Transfer 2                    |

Totals: 3.2.0 (5)

**Location: A23**

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location | Date        | Local ID | Event      |
|--------|-----|-------------|------|------|----------|-------------|----------|------------|
| 58     | M   | ????        | WILD | WILD | A23      | 30 Jul 2000 | DONALD   | Transfer 1 |
| 59     | F   | ????        | WILD | WILD | A23      | 30 Jul 2000 | DAISY    | Transfer 1 |
| 60     | F   | ????        | WILD | WILD | A23      | 30 Jul 2000 | EUSEBI   | Transfer 1 |
| 61     | F   | ????        | WILD | WILD | A23      | 30 Jul 2000 | PAULA    | Transfer 2 |
| 69     | M   | ????        | WILD | WILD | A23      | 5 Jul 2001  | PLUTO    | Transfer 2 |
| 98     | ?   | 04 May 2004 | 58   | 60   | A23      | 5 May 2004  | KNIRPS   | Hatch 3    |

Totals: 2.3.1 (6)

**Location: A32**



| Stud # | Sex | Hatch Date | Sire | Dam  | Location   | Date                       | Local ID   | Event               |
|--------|-----|------------|------|------|------------|----------------------------|------------|---------------------|
| 4      | M   | ????       | WILD | WILD | A04<br>A32 | 17 May 1999<br>25 May 2002 | ULI<br>ULI | Transfer<br>Loan to |

Totals: 1.0.0 (1)

**Location: A36**

| Stud # | Sex | Hatch Date  | Sire  | Dam  | Location   | Date                       | Local ID | Event               |
|--------|-----|-------------|-------|------|------------|----------------------------|----------|---------------------|
| 67     | ?   | 15 Mar 2001 | MULT1 | 29   | A02<br>A36 | 15 Mar 2001<br>24 Feb 2002 | _____    | Hatch<br>Transfer 1 |
| 82     | ?   | ~ Jan 2000  | UNK8  | UNK9 | A32<br>A36 | ~ Jan 2000<br>15 Aug 2002  | _____    | Hatch<br>Transfer 1 |
| 101    | ?   | ~2000       | UNK8  | UNK9 | A32<br>A36 | ~2000<br>10 Dec 2004       | _____    | Hatch<br>Transfer 1 |

Totals: 0.0.3 (3)

**Location: A39**

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location   | Date                       | Local ID | Event               |
|--------|-----|-------------|------|------|------------|----------------------------|----------|---------------------|
| 86     | ?   | 28 Oct 2000 | UNK1 | UNK2 | A07<br>A39 | 28 Oct 2000<br>16 Jul 2002 | _____    | Hatch<br>Transfer 1 |
| 87     | ?   | 29 Aug 2001 | UNK1 | UNK2 | A07<br>A39 | 29 Aug 2001<br>16 Jul 2002 | _____    | Hatch<br>Transfer 1 |

Totals: 0.0.2 (2)

**Location: ROTTERDAM**

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location               | Date                      | Local ID | Event                  |
|--------|-----|-------------|------|------|------------------------|---------------------------|----------|------------------------|
| 20     | M   | ????        | WILD | WILD | WASS BR C<br>ROTTERDAM | 8 Dec 1990<br>17 Apr 2002 | _____    | Transfer<br>Transfer 1 |
| 34     | M   | ????        | WILD | WILD | ROTTERDAM              | 7 Jun 1997                | 703791   | Transfer 2             |
| 35     | M   | ????        | WILD | WILD | ROTTERDAM              | 7 Jun 1997                | 703792   | Transfer 3             |
| 36     | F   | ????        | WILD | WILD | ROTTERDAM              | 7 Jun 1997                | 703793   | Transfer 2             |
| 37     | F   | ????        | WILD | WILD | ROTTERDAM              | 7 Jun 1997                | 703794   | Transfer 4             |
| 38     | M   | ????        | WILD | WILD | VLISSINGE<br>ROTTERDAM | 12 Jul 1987<br>9 Jul 1997 | _____    | Transfer<br>Transfer 4 |
| 48     | ?   | 21 Oct 1999 | 34   | 36   | ROTTERDAM              | 21 Oct 1999               | 704297   | Hatch 5                |
| 72     | F   | ????        | WILD | WILD | LONDON RP<br>ROTTERDAM | ????<br>23 Dec 2001       | _____    | Transfer<br>Transfer 3 |
| 73     | ?   | ????        | WILD | WILD | LONDON RP<br>ROTTERDAM | ????<br>23 Dec 2001       | _____    | Transfer<br>Transfer 6 |
| 102    | ?   | 02 Jun 2004 | 34   | 36   | ROTTERDAM              | 02 Jun 2004               | 705088   | Hatch 7                |

Totals: 4.4.3 (11)

**Location: WASS BR C**

| Stud # | Sex | Hatch Date | Sire | Dam  | Location  | Date       | Local ID | Event      |
|--------|-----|------------|------|------|-----------|------------|----------|------------|
| 19     | M   | ????       | WILD | WILD | WASS BR C | 8 Dec 1990 | DAMAGE   | Transfer 1 |

Totals: 1.0.0 (1)

ROTTERDAM did agree to transfer a couple to another location. Location A08 was the previous owner of one of the animals involved and has great breeding results with the subspecies. Breeding at ROTTERDAM seems to start also, although it is in an early stage.

Locaton A22 has many (juvenile) animals, but 5 animals will be transferred to location A11. A request has been send to Location A11 to register the animals, no reply has been received to this date.

Solitary males fit for breeding are present at locations A08 (specimen 26 or 27), WASS BR C (19) and location A22 (specimen 1 or 3) . Male 4 at location A32 is probably housed in a breeding pair, since additional specimens *P. a. arachnoides* are present at this location. These have not yet been registered in the studbook, and therefore location A32 has been requested ,again, to register these specimens too. The request was declined.

A solitary female (59 or 60) is present at location A23. It would be advisable to transfer one female to a location with fewer specimens and with a solitary male, to form an additional (potential) bloodline (this suggestion has been turned down by the owner) or a captive bred specimen (97) could be exchanged with a solitary WILD male (for example at location A08 or WASS BR C) and, at his turn, this male could be paired with a WILD female housed at this location (specimen 59 or 60). A last option is to put another solitary WILD male at this location (A23).

Location A22 keeps all the captive bred *Pyxis arachnoides arachnoides* in the same enclosure, this is not recommended. As the tortoises reach sexual maturity, they will start to breed, in this case inbreeding could be the result. It is advised that males 1 and 3 are put in another enclosure. Remember that once the tortoises have been seen mating, the female could store sperm for 3 years. Another possibility is the exchange of a male (1 or 3) from location A22 with a male at another location (A08 or WASS BR C).

Location A08 has 8 captive bred juveniles, all of the same adults. It is advised that, once the juveniles become older, they should be paired with (recent) offspring of Location A07 (location A39, A19, since it has been a while that the coordinator has heard from A19, the coordinator would advice location A39) or location A23 or other captive bred animals of the same subspecies.

**b) *Pyxis arachnoides brygooi***

**Location: A03**

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location         | Date                       | Local ID                    | Event               |   |
|--------|-----|-------------|------|------|------------------|----------------------------|-----------------------------|---------------------|---|
| 30     | M   | ????        | WILD | WILD | ROTTERDAM<br>A03 | 14 Jan 1991<br>4 Jan 1995  | 702004<br>HZ0305            | Transfer<br>Loan to | 1 |
| 31     | F   | ????        | WILD | WILD | ROTTERDAM<br>A03 | 14 Jan 1991<br>4 Jan 1995  | 702005<br>HZ0306            | Transfer<br>Loan to | 1 |
| 32     | F   | 11 Nov 1994 | 30   | 31   | ROTTERDAM<br>A03 | 11 Nov 1994<br>25 Apr 1998 | 703152<br>HZ0539            | Hatch<br>Loan to    | 2 |
| 49     | F   | ????        | WILD | WILD | ROTTERDAM<br>A03 | ????<br>21 Jun 1998        | <u>          </u><br>HZ0561 | Transfer<br>Loan to | 1 |
| 50     | M   | 1 Jul 1996  | 30   | 31   | A03              | 1 Jul 1996                 | HZ0428                      | Hatch               | 3 |
| 52     | M   | 14 May 1999 | 30   | 31   | A03              | 14 May 1999                | HZ0624                      | Hatch               | 5 |
| 53     | F   | 7 Jun 1999  | 30   | 31   | A03              | 7 Jun 1999                 | HZ0627                      | Hatch               | 6 |
| 54     | ?   | 19 Mar 2000 | 30   | 31   | A03              | 19 Mar 2000                | HZ0683                      | Hatch               | 7 |
| 55     | ?   | 12 May 2000 | 30   | 31   | A03              | 12 May 2000                | HZ0691                      | Hatch               | 8 |
| 92     | ?   | 03 May 2003 | 30   | 31   | A03              | 03 May 2003                | HZ0899                      | Hatch               |   |

Totals: 3.4.3 (10)

**Location: A10**

| Stud # | Sex | Hatch Date | Sire | Dam  | Location | Date        | Local ID | Event    |   |
|--------|-----|------------|------|------|----------|-------------|----------|----------|---|
| 74     | F   | ????       | UNK1 | UNK2 | A10      | 10 Oct 2001 | Pabf01   | Transfer | 1 |
| 75     | ?   | ????       | UNK1 | UNK2 | A10      | 10 Oct 2001 | Pabu02   | Transfer | 2 |
| 76     | M   | ????       | UNK1 | UNK2 | A10      | 10 Oct 2001 | Pabm01   | Transfer | 1 |

Totals: 1.1.1 (3)

**Location: A11**

| Stud # | Sex | Hatch Date | Sire | Dam  | Location | Date        | Local ID | Event    |
|--------|-----|------------|------|------|----------|-------------|----------|----------|
| 56     | M   | ????       | WILD | WILD | A11      | ~1985       |          | Transfer |
|        |     |            |      |      | A03      | 16 Oct 1999 | HZ0664   | Loan to  |
|        |     |            |      |      | A11      | 08 Nov 2003 |          | Transfer |

Totals: 1.0.0 (1)

A large proportion of the *P. a. brygooi* population in the studbook is housed at location A03. As has already been outlined for *P. a. arachnoides*, this makes the population vulnerable for disaster, and spreading the specimens over several locations should be considered. Location A03 has argued that long-term growth data is gathered from the captive-bred specimens at this location and this should be included in any considerations to transfer specimens. The current combination of adult founder specimens appears to be reasonable, given the lack of solitary specimens. However, it is of the utmost importance that locations A03 and A10 provide the gender of their juvenile specimens as soon as this is known, to allow exchange of specimens and formation of additional breeding pairs.

Location A10 has put animals 74 and 75 together, this is not advisable. Better is to couple the female and male to other animals from location A03 and/or location A11.

**c) *Pyxis arachnoides oblonga***

**Location: A17**

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location | Date        | Local ID | Event       |
|--------|-----|-------------|------|------|----------|-------------|----------|-------------|
| 13     | ?   | 24 Oct 1997 | UNK1 | UNK2 | A06      | 24 Oct 1997 |          | Hatch       |
|        |     |             |      |      | A17      | 25 Jul 2000 |          | Transfer 1? |
| 14     | ?   | 28 May 1997 | UNK1 | UNK2 | A06      | 28 May 1997 |          | Hatch       |
|        |     |             |      |      | A17      | 25 Jul 2000 |          | Transfer 1? |
| 15     | ?   | 26 Jun 1997 | UNK1 | UNK3 | A06      | 26 Jun 1997 |          | Hatch       |
|        |     |             |      |      | A17      | 25 Jul 2000 |          | Transfer 1? |

Totals: 0.0.3 (3)

**Location: A18**

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location | Date        | Local ID | Event      |
|--------|-----|-------------|------|------|----------|-------------|----------|------------|
| 16     | ?   | 27 Apr 1999 | UNK1 | UNK2 | A06      | 27 Apr 1999 |          | Hatch      |
|        |     |             |      |      | A18      | 25 Jul 2000 |          | Transfer 1 |
| 17     | ?   | 20 Jul 1999 | UNK1 | UNK2 | A06      | 20 Jul 1999 |          | Hatch      |
|        |     |             |      |      | A18      | 25 Jul 2000 |          | Transfer 1 |

Totals: 0.0.2 (2)

**Location: A40**

| Stud # | Sex | Hatch Date  | Sire  | Dam   | Location | Date        | Local ID | Event      |
|--------|-----|-------------|-------|-------|----------|-------------|----------|------------|
| 99     | M   | 31 Dec 1999 | UNK12 | UNK13 | A40      | 21 Jul 2004 |          | Transfer 1 |
| 100    | M   | 31 Dec 1999 | UNK12 | UNK13 | A40      | 21 Jul 2004 |          | Transfer 1 |

Totals: 2.0.0 (2)

A new location has been found with two related captive bred specimen. Location A18 probably has a female and a male, the male at this location is somewhat behind in growth. Therefore it is advised by the coordinator that Location A18 and location A40 should get in touch to transfer one of their specimen to the other Location (in progress).

Overall, the situation still is very worrisome. It is of importance to acquire additional founder specimens in the studbook.

## 4. IMPORTS, BIRTHS AND DEATHS

Imports of *P. arachnoides*, organised by the Studbook Breeding Programme *Pyxis arachnoides*, did not take place in 2004. Plans to import small numbers of *P. a. brygooi* and *P. a. oblonga* might be supported by the programme, as it appears unlikely that a sufficiently large number of tortoises for a viable captive population will be found.

One subspecies was bred in 2004, *Pyxis arachnoides arachnoides* (3 at location A08, 1 at location A23 and 1 at location ROTTERDAM).

**Table II:** Births of *P. arachnoides* in 2004.

=====

**a) *Pyxis arachnoides arachnoides*. MULT1 is sire 27 or 28**

=====

| Stud # | Sex | Hatch Date  | Sire  | Dam | Location  | Date        | Local ID | Event |
|--------|-----|-------------|-------|-----|-----------|-------------|----------|-------|
| 93     | ?   | 09 Jun 2004 | MULT1 | 29  | A08       | 09 Jun 2004 | _____    | Hatch |
| 94     | ?   | 17 Jun 2004 | MULT1 | 29  | A08       | 17 Jun 2004 | _____    | Hatch |
| 95     | ?   | 4 Jul 2004  | MULT1 | 29  | A08       | 4 Jul 2004  | _____    | Hatch |
| 98     | ?   | 4 May 2004  | 58    | 60  | A23       | 4 May 2004  | _____    | Hatch |
| 102    | ?   | 2 Jul 2004  | 34    | 36  | ROTTERDAM | 2 Jul 2004  | _____    | Hatch |

Totals: 0.0.5 (5)

A total of 3 *P. arachnoides* died in 2004, at 3 locations. One *P. a. arachnoides* died at location A22. This specimen was a male. One *P. a. arachnoides* died in 2004 at location A23 (female) from unknown causes. One *P. a. arachnoides* juvenile died at location A36. Another *P. a. arachnoides* died in 2003 at ROTTERDAM, this specimen is not listed below but is listed in the total overview (chapter 5).

**Table III:** Deaths of *P. arachnoides* in 2004.

=====

**a) *Pyxis arachnoides arachnoides***

=====

| Stud # | Sex | Hatch Date | Sire  | Dam   | Location | Date        | Local ID | Event    |
|--------|-----|------------|-------|-------|----------|-------------|----------|----------|
| 81     | ?   | ~Jan 2000  | UNK8  | UNK9  | A32      | ~Jan 2000   | _____    | Hatch    |
|        |     |            |       |       | A36      | 16 Jul 2002 | _____    | Transfer |
|        |     |            |       |       | A36      | ~2004       | _____    | Death    |
| 83     | F   | ~1996      | UNK10 | UNK11 | A38      | ~1996       | _____    | Hatch    |
|        |     |            |       |       | A23      | 1 Aug 2002  | Tamara   | Transfer |
|        |     |            |       |       | A23      | 17 Jan 2004 | Tamara   | Death    |
| 85     | M   | ~1980      | WILD  | WILD  | A22      | 10 Sep 2002 | _____    | Transfer |
|        |     |            |       |       | A22      | 2004        | _____    | Death    |

Totals: 1.1.1 (3)

**b) *Pyxis arachnoides brygooi***

=====

| Stud # | Sex | Hatch Date  | Sire | Dam | Location | Date        | Local ID | Event |
|--------|-----|-------------|------|-----|----------|-------------|----------|-------|
| 51     | ?   | 27 Oct 1996 | 30   | 31  | A03      | 27 Oct 1996 | HZ0454   | Hatch |
|        |     |             |      |     |          | 30 Sep 2004 | HZ0454   | Death |

## 5. TOTAL STUDBOOK POPULATION AND FUTURE PERSPECTIVES

The current total registered studbook population consists of 93 specimens: 64 *P. a. arachnoides*, 7 *P. a. oblonga*, and 22 *P. a. brygooi*. From these, 41 are wild-caught specimens and 52 are captive-bred. Captive-bred specimens of all three subspecies are present. All but 16 tortoises are currently alive, housed at 15 (participating) locations.

The population is strongly biased towards subspecies *P. a. arachnoides*. The number of specimens of this subspecies is sufficiently large to offer a positive perspective for the studbook, but it is necessary to combine the specimens in an optimal way to create as many bloodlines as possible, to increase breeding success, and to minimise risks of disaster in the relatively small population (see chapter 3).

The other two subspecies are present in much smaller numbers. Especially the situation regarding *P. a. oblonga* is critical. Inclusion of American keepers of this subspecies in the studbook, or importing a small number of (preferably captive) *P. a. brygooi* or *P. a. oblonga* should be considered.

Although many registered specimens in the studbook are captive-bred, it has to be kept in mind that many of these breeding results have been accomplished years ago, and often the reproducing adult specimens are housed at other locations, and have not been registered in the studbook population. In 2004, yet again few breeding results have been reported. Therefore, the main focus from this studbook should still be the distribution of information on husbandry and breeding of *P. arachnoides*. Appendix 1 of this report provides a small contribution to this objective.

**Table IV:** Total studbook population *Pyxis arachnoides*. MULT1 is sire 26 or 27. UNKx specimens are founders outside of the studbook, used to register relationships between offspring in the studbook.

### a) *Pyxis arachnoides arachnoides*

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location  | Date        | Local ID | Event    |
|--------|-----|-------------|------|------|-----------|-------------|----------|----------|
| 1      | M   | 9 Sep 1996  | UNK1 | UNK2 | A07       | 9 Sep 1996  |          | Hatch    |
|        |     |             |      |      | A02       | 22 Nov 1998 | 960909   | Loan to  |
|        |     |             |      |      | A22       | 24 Feb 2001 |          | Loan to  |
| 2      | F   | 16 Nov 1996 | UNK1 | UNK2 | A07       | 16 Nov 1996 |          | Hatch    |
|        |     |             |      |      | A02       | 22 Nov 1998 | 961116   | Loan to  |
|        |     |             |      |      | A22       | 24 Feb 2001 |          | Loan to  |
| 3      | M   | 16 Sep 1997 | UNK1 | UNK2 | A07       | 16 Sep 1997 |          | Hatch    |
|        |     |             |      |      | A02       | 22 Nov 1998 | 970916   | Loan to  |
|        |     |             |      |      | A22       | 24 Feb 2001 |          | Loan to  |
| 4      | M   | ????        | WILD | WILD | A04       | 17 May 1999 | ULI      | Transfer |
|        |     |             |      |      | A32       | 25 May 2002 | ULI      | Loan to  |
| 5      | F   | ????        | WILD | WILD | A04       | 17 May 1999 | ESTHER   | Transfer |
| 18     | M   | ????        | WILD | WILD | A08       | ~ Jan 1995  |          | Transfer |
|        |     |             |      |      | ROTTERDAM | 4 Sep 2002  | 704790   | Loan to  |
|        |     |             |      |      | A08       | 17 Nov 2004 |          | Transfer |
| 19     | M   | ????        | WILD | WILD | WASS BR C | 8 Dec 1990  | DAMAGE   | Transfer |
| 20     | M   | ????        | WILD | WILD | WASS BR C | 8 Dec 1990  |          | Transfer |
|        |     |             |      |      | ROTTERDAM | 17 Apr 2002 | 704725   | Transfer |
| 21     | F   | ????        | WILD | WILD | WASS BR C | 8 Dec 1990  |          | Transfer |
|        |     |             |      |      | ROTTERDAM | 17 Apr 2002 | 704726   | Transfer |
|        |     |             |      |      | ROTTERDAM | 13 Jun 2003 | 704726   | Death    |
| 22     | M   | ????        | WILD | WILD | A05       | ????        |          | Transfer |
|        |     |             |      |      | A10       | 28 Jun 1999 | PAAM1    | Transfer |
| 23     | M   | ????        | WILD | WILD | A05       | ????        |          | Transfer |
|        |     |             |      |      | A10       | 28 Jun 1999 | PAAM2    | Transfer |
| 24     | F   | ????        | WILD | WILD | A05       | ????        |          | Transfer |
|        |     |             |      |      | A10       | 28 Jun 1999 | PAAF1    | Transfer |
| 25     | ?   | 2 Sep 1999  | UNK3 | 24   | A05       | 2 Sep 1999  |          | Hatch    |

|    |   |             |       |      |                               |  |        |   |
|----|---|-------------|-------|------|-------------------------------|--|--------|---|
|    |   |             |       |      | A10                           | 18 Sep 1999<br>20 Feb 2000                         | PAAU1  | Transfer<br>Death                       |
| 26 | M | ????        | WILD  | WILD | A11<br>A02<br>A08             | ~ 1985<br>29 Dec 1999<br>18 Feb 2001               | I      | Transfer<br>Loan to<br>Loan to          |
| 27 | M | ????        | WILD  | WILD | A11<br>A02<br>A08             | ~ 1985<br>29 Dec 1999<br>18 Feb 2001               | II     | Transfer<br>Loan to<br>Loan to          |
| 28 | F | ????        | WILD  | WILD | A11<br>A02<br>A08             | ~ 1985<br>29 Dec 1999<br>31 Dec 2000<br>9 Mar 2002 | III    | Transfer<br>Loan to<br>Loan to<br>Death |
| 29 | F | ????        | WILD  | WILD | A11<br>A02<br>A08             | ~ 1985<br>29 Dec 1999<br>18 Feb 2001               | IV     | Transfer<br>Loan to<br>Loan to          |
| 33 | M | ????        | WILD  | WILD | ROTTERDAM<br>LONDON RP        | 14 Jan 1991<br>11 Aug 2000<br>~ Jul 2001           | 702003 | Transfer<br>Loan to<br>Death            |
| 34 | M | ????        | WILD  | WILD | ROTTERDAM                     | 7 Jun 1997   | 703791 | Transfer                                |
| 35 | M | ????        | WILD  | WILD | ROTTERDAM                     | 7 Jun 1997   | 703792 | Transfer                                |
| 36 | F | ????        | WILD  | WILD | ROTTERDAM                     | 7 Jun 1997   | 703793 | Transfer                                |
| 37 | F | ????        | WILD  | WILD | ROTTERDAM                     | 7 Jun 1997   | 703794 | Transfer                                |
| 38 | M | ????        | WILD  | WILD | VLISSINGE<br>ROTTERDAM        | 12 Jul 1987<br>9 Jul 1997                          | 703825 | Transfer<br>Transfer                    |
| 39 | F | ????        | WILD  | WILD | VLISSINGE<br>ROTTERDAM        | 12 Jul 1987<br>9 Jul 1997<br>9 Mar 2001            | 703826 | Transfer<br>Transfer<br>Death           |
| 40 | ? | 13 Aug 1999 | UNK1  | UNK2 | A07<br>A19                    | 13 Aug 1999<br>1 Mar 2000                          | 1      | Hatch<br>Transfer                       |
| 41 | ? | 28 Aug 1999 | UNK1  | UNK2 | A07<br>A19                    | 28 Aug 1999<br>1 Mar 2000                          | 2      | Hatch<br>Transfer                       |
| 42 | ? | 8 Aug 2000  | UNK1  | UNK2 | A07<br>A19                    | 8 Aug 2000<br>1 Sep 2000                           | 3      | Hatch<br>Transfer                       |
| 43 | ? | 12 Aug 2000 | UNK1  | UNK2 | A07<br>A19                    | 12 Aug 2000<br>1 Sep 2000                          | 4      | Hatch<br>Transfer                       |
| 48 | ? | 21 Oct 1999 | 34    | 36   | ROTTERDAM                     | 21 Oct 1999  | 704297 | Hatch                                   |
| 58 | M | ????        | WILD  | WILD | A23                           | 30 Jul 2000  | DONALD | Transfer                                |
| 59 | F | ????        | WILD  | WILD | A23                           | 30 Jul 2000  | DAISY  | Transfer                                |
| 60 | F | ????        | WILD  | WILD | A23                           | 30 Jul 2000  | EUSEBI | Transfer                                |
| 61 | F | ????        | WILD  | WILD | A23                           | 30 Jul 2000  | PAULA  | Transfer                                |
| 62 | ? | 1 Aug 1998  | UNK1  | UNK2 | A07<br>A23                    | 1 Aug 1998<br>16 Sep 1999                          | TIC    | Hatch<br>Transfer                       |
| 65 | ? | 1 Aug 1998  | UNK6  | UNK7 | A24<br>A23                    | 1 Aug 1998<br>1 Jul 1999                           | TRIC   | Hatch<br>Transfer                       |
| 66 | ? | 1 Aug 1998  | UNK6  | UNK7 | A24<br>A23                    | 1 Aug 1998<br>1 Jul 1999                           | TRAC   | Hatch<br>Transfer                       |
| 67 | ? | 15 Mar 2001 | MULT1 | 29   | A02<br>A36                    | 15 Mar 2001<br>24 Feb 2002                         | IV-1   | Hatch<br>Transfer                       |
| 68 | ? | 14 Jun 2001 | MULT1 | 29   | A02<br>A11                    | 14 Jun 2001<br>17 Feb 2002                         | IV-2   | Hatch<br>Transfer                       |
| 69 | M | ????        | WILD  | WILD | A23                           | 5 Jul 2001   | PLUTO  | Transfer                                |
| 70 | M | ????        | WILD  | WILD | A23                           | 14 Jul 2001<br>1 Apr 2002                          | OSCAR  | Transfer<br>Death                       |
| 71 | F | ????        | WILD  | WILD | LONDON RP<br>ROTTERDAM<br>A08 | ????<br>23 Dec 2001<br>17 Nov 2004                 | 704781 | Transfer<br>Transfer<br>Transfer        |
| 72 | F | ????        | WILD  | WILD | LONDON RP<br>ROTTERDAM        | ????<br>23 Dec 2001                                | 704582 | Transfer<br>Transfer                    |

|     |   |             |       |       |                        |                                     |                           |                            |
|-----|---|-------------|-------|-------|------------------------|-------------------------------------|---------------------------|----------------------------|
| 73  | ? | ????        | WILD  | WILD  | LONDON RP<br>ROTTERDAM | ????<br>23 Dec 2001                 | 704583                    | Transfer<br>Transfer       |
| 79  | ? | 6 May 2002  | MULT1 | 29    | A08                    | 6 May 2002                          | _____                     | Hatch                      |
| 80  | ? | 26 Jul 2002 | MULT1 | 29    | A08                    | 26 Jul 2002                         | _____                     | Hatch                      |
| 81  | ? | ~ Jan 2000  | UNK8  | UNK9  | A32<br>A36<br>A36      | ~ Jan 2000<br>15 Aug 2002<br>~2004  | _____<br>_____<br>_____   | Hatch<br>Transfer<br>Death |
| 82  | ? | ~ Jan 2000  | UNK8  | UNK9  | A32<br>A36             | ~ Jan 2000<br>15 Aug 2002           | _____<br>_____            | Hatch<br>Transfer          |
| 83  | F | ~ 1996      | UNK10 | UNK11 | A38<br>A23<br>A23      | ~ 1996<br>1 Aug 2002<br>17 Jan 2004 | _____<br>TAMARA<br>TAMARA | Hatch<br>Transfer<br>Death |
| 84  | ? | 8 Jun 2002  | MULT1 | 29    | A08                    | 8 Jun 2002                          | _____                     | Hatch                      |
| 85  | M | ~1980       | WILD  | WILD  | A22<br>A22             | 10 Sep 2002<br>~2004                | _____<br>_____            | Transfer<br>Death          |
| 86  | ? | 28 Oct 2000 | UNK1  | UNK2  | A39                    | 16 Jul 2002                         | _____                     | Transfer                   |
| 87  | ? | 29 Aug 2001 | UNK1  | UNK2  | A39                    | 16 Jul 2002                         | _____                     | Transfer                   |
| 88  | ? | 19 Jun 2003 | MULT1 | 29    | A08                    | 19 Jun 2003                         | _____                     | Hatch                      |
| 89  | ? | 18 Jul 2003 | MULT1 | 29    | A08                    | 18 Jul 2003                         | _____                     | Hatch                      |
| 90  | ? | 8 Aug 2003  | MULT1 | 29    | A08                    | 8 Aug 2003                          | _____                     | Hatch                      |
| 91  | ? | 31 Aug 2003 | MULT1 | 29    | A08                    | 31 Aug 2003                         | _____                     | Hatch                      |
| 93  | ? | 09 Jun 2004 | MULT1 | 29    | A08                    | 09 Jun 2004                         | _____                     | Hatch                      |
| 94  | ? | 17 Jun 2004 | MULT1 | 29    | A08                    | 17 Jun 2004                         | _____                     | Hatch                      |
| 95  | ? | 04 Jul 2004 | MULT1 | 29    | A08                    | 04 Jul 2004                         | _____                     | Hatch                      |
| 96  | F | ????        | WILD  | WILD  | A22                    | 27 Dec 2004                         | _____                     | Transfer                   |
| 97  | M | ????        | WILD  | WILD  | A22                    | 27 Dec 2004                         | _____                     | Transfer                   |
| 98  | ? | 04 May 2004 | 58    | 60    | A23                    | 04 May 2004                         | KNIRPS                    | Hatch                      |
| 101 | ? | ~2000       | UNK8  | UNK9  | A32<br>A36             | ~2000<br>10 Dec 2004                | _____<br>_____            | Hatch<br>Transfer          |
| 102 | ? | 02 Jun 2004 | 34    | 36    | ROTTERDAM              | 02 Jun 2004                         | _____                     | Hatch                      |

Totals: 19.16.29 (64)

**b) *Pyxis arachnoides brygooi***

| Stud # | Sex | Hatch Date  | Sire | Dam  | Location         | Date                        | Local ID         | Event               |
|--------|-----|-------------|------|------|------------------|-----------------------------|------------------|---------------------|
| 6      | ?   | ????        | WILD | WILD | A04              | 19 Sep 1998<br>~15 Aug 2002 | _____            | Transfer<br>Death   |
| 7      | ?   | ????        | WILD | WILD | A04              | 19 Sep 1998                 | _____            | Transfer            |
| 8      | ?   | ????        | WILD | WILD | A04              | 19 Sep 1998<br>~15 Aug 2002 | _____            | Transfer<br>Death   |
| 9      | ?   | ????        | WILD | WILD | A04              | 19 Sep 1998<br>~15 Aug 2002 | _____            | Transfer<br>Death   |
| 30     | M   | ????        | WILD | WILD | ROTTERDAM<br>A03 | 14 Jan 1991<br>4 Jan 1995   | 702004<br>HZ0305 | Transfer<br>Loan to |
| 31     | F   | ????        | WILD | WILD | ROTTERDAM<br>A03 | 14 Jan 1991<br>4 Jan 1995   | 702005<br>HZ0306 | Transfer<br>Loan to |
| 32     | ?   | 10 Oct 1994 | 30   | 31   | ROTTERDAM<br>A03 | 10 Oct 1994<br>25 Apr 1998  | 703152<br>HZ0539 | Hatch<br>Loan to    |
| 49     | F   | ????        | WILD | WILD | ROTTERDAM<br>A03 | ????<br>21 Jun 1998         | _____<br>HZ0561  | Transfer<br>Loan to |
| 50     | ?   | 1 Jul 1996  | 30   | 31   | A03              | 1 Jul 1996                  | HZ0428           | Hatch               |
| 51     | ?   | 27 Oct 1996 | 30   | 31   | A03              | 27 Oct 1996                 | HZ0454           | Hatch               |

|    |   |             |      |      |                   |                                      |                          |                                 |
|----|---|-------------|------|------|-------------------|--------------------------------------|--------------------------|---------------------------------|
| 52 | ? | 14 May 1999 | 30   | 31   | A03               | 14 May 1999                          | HZ0624                   | Hatch                           |
| 53 | ? | 7 Jun 1999  | 30   | 31   | A03               | 7 Jun 1999                           | HZ0627                   | Hatch                           |
| 54 | ? | 19 Mar 2000 | 30   | 31   | A03               | 19 Mar 2000                          | HZ0683                   | Hatch                           |
| 55 | ? | 12 May 2000 | 30   | 31   | A03               | 12 May 2000                          | HZ0691                   | Hatch                           |
| 56 | M | ????        | WILD | WILD | A11<br>A03<br>A11 | ~ 1985<br>16 Oct 1999<br>08 Nov 2003 | _____<br>HZ0664<br>_____ | Transfer<br>Loan to<br>Transfer |
| 57 | F | ????        | WILD | WILD | A11<br>A03        | ~ 1985<br>16 Oct 1999                | _____<br>HZ0665          | Transfer<br>Loan to             |
| 74 | ? | ????        | UNK1 | UNK2 | A10               | 10 Oct 2001                          | PABU01                   | Transfer                        |
| 75 | ? | ????        | UNK1 | UNK2 | A10               | 10 Oct 2001                          | PABU02                   | Transfer                        |
| 76 | ? | ????        | UNK1 | UNK2 | A10               | 10 Oct 2001                          | PABU03                   | Transfer                        |
| 77 | ? | ????        | UNK1 | UNK2 | A10               | 10 Oct 2001<br>15 Feb 2002           | PABU04<br>PABU04         | Transfer<br>Death               |
| 78 | ? | ????        | UNK1 | UNK2 | A10               | 10 Oct 2001<br>01 Dec 2002           | PABU05<br>PABU05         | Transfer<br>Death               |
| 92 | ? | ????        | 30   | 31   | A03               | 03 May 2003                          | HZ0899                   | Hatch                           |

Totals: 2.3.17 (22)

**c) *Pyxis arachnoides oblonga***

| Stud # | Sex | Hatch Date  | Sire  | Dam   | Location   | Date                       | Local ID       | Event             |
|--------|-----|-------------|-------|-------|------------|----------------------------|----------------|-------------------|
| 13     | ?   | 24 Oct 1997 | UNK1  | UNK2  | A06<br>A17 | 24 Oct 1997<br>25 Jul 2000 | _____<br>_____ | Hatch<br>Transfer |
| 14     | ?   | 28 May 1997 | UNK1  | UNK2  | A06<br>A17 | 28 May 1997<br>25 Jul 2000 | _____<br>_____ | Hatch<br>Transfer |
| 15     | ?   | 26 Jun 1997 | UNK1  | UNK3  | A06<br>A17 | 26 Jun 1997<br>25 Jul 2000 | _____<br>_____ | Hatch<br>Transfer |
| 16     | ?   | 27 Apr 1999 | UNK1  | UNK2  | A06<br>A18 | 27 Apr 1999<br>25 Jul 2000 | _____<br>_____ | Hatch<br>Transfer |
| 17     | ?   | 20 Jul 1999 | UNK1  | UNK2  | A06<br>A18 | 20 Jul 1999<br>25 Jul 2000 | _____<br>_____ | Hatch<br>Transfer |
| 99     | M   | 31 Dec 1999 | UNK12 | UNK13 | A40        | 21 Jul 2004                | _____          | Transfer          |
| 100    | M   | 31 Dec 1999 | UNK12 | UNK13 | A40        | 21 Jul 2004                | _____          | Transfer          |

Totals: 1.1.5 (7)



## Appendix 1

### Husbandry conditions and additional information per location

The information below is an update on the information presented in appendix 1 of the previous annual report.

#### **Location A40**

Terrarium : 200 x 80 x 70 cm (LxWH)

Lighting : 1 daylight tubelight, 2 spotlight (both at one end of the enclosure). Temperature under the lamps may reach 38°C while the other end reaches 28°C. One OsramUltra Vitalight UVB lamp which is switched on for half an hour in the morning and 15 minutes during the afternoon.

During the summertime the lights are switched on for 14 hours, which is reduced to 10 hours (first week of November). From the beginning of March, the lighting period is increased again.

Care : No spraying during the resting period. During the summer, the terrarium is sprayed every day. The substrate consists of plain building sand (depth 20 cm.). Furthermore, there is dry wood, rocks and dried bamboo which provide hiding places. In one corner of the enclosure a madagascar palm (*Pachypodium lamerti*) is planted.

Food is provided on daily basis (wild herbs, grasses, salade, endive and some fruit). Once a week some vitamins are added (calcicare+). During the resting period, no food is offered.