



SPECIES  
SURVIVAL  
COMMISSION

#### Managing Editor

Suzannah Goss

#### Section Editors

Deborah Gibson – African Elephants

Kees Rookmaaker – African and Asian Rhinos

#### Editorial Board

Julian Blanc

Holly T Dublin

Richard Emslie

Mike Knight

Esmond Martin

Benson Okita-Ouma

Robert Olivier

Tara Daniel

Bibhab K Talukdar

Lucy Vigne

#### Design and Layout

Suzannah Goss and Digital Hub

Address all correspondences, including enquiries about subscription, to

The Managing Editor, Pachyderm

PO Box 68200 – 00200

Nairobi, Kenya

Tel: +254 20 249 3561/65

Email: [pachydermeditor@gmail.com](mailto:pachydermeditor@gmail.com)

Website: [http://www.iucn.org/african\\_elephant](http://www.iucn.org/african_elephant)

<http://pachydermjournal.org>

Reproduction of this publication for educational or other non-commercial purposes is authorized without written permission from the copyright holder provided the source is fully acknowledged.

# Pachyderm

Journal of the African Elephant, African Rhino  
and Asian Rhino Specialist Groups

July 2014 - June 2015

No. 56

## 1 Chair reports / Rapports des Présidents

- 1 African Elephant Specialist Group report /  
Rapport du Groupe des Spécialistes des  
Eléphants d'Afrique

*Holly T Dublin*

- 10 African Rhino Specialist Group report /  
Rapport du Groupe des Spécialistes des  
Rhinocéros d'Afrique

*Mike Knight*

- 40 Asian Rhino Specialist Group report / Rapport  
du Groupe des Spécialistes Rhinocéros  
d'Asie

*Bibhab K Talukdar*

## 44 Research

- 44 Retrospective versus prospective designs  
for studies of crop-raiding by elephants in  
Kakum, Ghana

*Richard FW Barnes, Emmanuel Danquah,  
Emmanuel M Hema, Umaru-Farouk Dubiure,  
Mildred Manford, Awo Nandjui, Yaw Boafo*

- 51 Assessing perceived and documented crop  
damage in a Tanzanian village impacted by  
human-elephant conflict

*Rebekah R Hoffmeier-Karimi and Bruce A  
Schulte*

**Cover caption:** Thandi and her six month old calf ('Thembi' that means hope in *isiXhosa*) in Shamwari Game Reserve, South Africa. Thandi survived a brutal attack by poachers, defacing her and destroying her horn growth plate. Only through skilful veterinary work and innovative skin grafts did she survive.

**Credit:** Daniel Haesslich/Kariega Reserve

- 61 Habitat utilisation of white rhinoceros (*Ceratotherium simum simum*) on Willem Pretorius Game Reserve, Free-State Province, South Africa

*Herman Jordaan, Leslie R Brown and Kerry Slater*

**Colour Plates** 1-16, pp. i-viii; French captions to colour plates p. ix

- 72 The role of man, hand-raised black rhinos and elephants on woody vegetation, Matusadona National Park, Zimbabwe

*Never Muboko*

- 82 Monitoring of Javan Rhino Population in Ujung Kulon National Park

*Mohamad Haryono, Ujang Mamat Rahmat, Muhiban Daryan, Agung Suci Raharja, Aom Muhtarom, AsepYayus Firdaus, Ai Rohaeti, Irma Subchiyatin, Amila Nugraheni, Kurnia Oktalina Khairani and Kartina*

## **87 Management**

- 87 Repelling elephants with chilli pepper gas dispenser: field tests and practical use in Mozambique, Zambia and Zimbabwe from 2009 to 2013

*Sébastien Le Bel*

- 97 Lessons learned in the implementation of endangered species specific strategies: Midterm Review of the Kenya Black Rhino Strategy (2012-2016)

*Martin Mulama, Patrick Omondi, Charles Musyoki, Cedric Khayale, Linus Kariuki and Robert Ndeti*

## **102 Field Notes**

- 102 Black rhino population dynamics and the hidden cost of poaching at Solio Game Reserve, central Kenya

*Felix Patton*

- 105 Movement patterns and resource needs of Kamuku elephants along migration routes in Nigeria

*Tajudeen O Amusa, Johnson A Ogunjobi, Ibrahim J Fxentirimam and Kikwashi A Garba*

---

- 112 Integration of injured individuals into herds of African savannah elephants (*Loxodonta africana*): field observations from Kenya and Botswana

*Frank E Zachos and Kate Evans*

- 114 Birth of a wild white rhino calf at Ziwa Rhino Sanctuary, Uganda

*Felix Patton and Angie Genade*

**117 ETIS update**

- 117 Progress in implementing the Elephant Trade Information System (ETIS) /  
Avancement dans la mise en oeuvre du Système d'Information sur le Trafic  
des Eléphants (ETIS)

*Tom Milliken*

**122 Review**

- 122 China faces a conservation challenge: the expanding elephant and  
mammoth ivory trade in Beijing and Shanghai

*Daniel Stiles*

**127 Obituaries**

- 127 Ian Player

*Clive Walker and Peter Hitchins*

- 128 Theresa Warth

*Tracey Bridges*

**130 Guidelines for contributors**

---

---

# Pachyderm

---

July 2014 - June 2015

No. 56

Journal of the African Elephant,  
African Rhino and  
Asian Rhino Specialist Groups

## Donate to Pachyderm

To support the continued publication of *Pachyderm* and its contribution to the conservation and management of African elephants, African rhinos and Asian rhinos, please click <http://goo.gl/P2Czvk> to donate. Indicate *Pachyderm* in the organisation field.

## Acknowledgements

The production of this issue of *Pachyderm* was possible through contributions from a number of organizations and individuals. In particular, we would like to thank the following:



Anna Merz  
Rhino Trust

INTERNATIONAL  
ELEPHANT   
FOUNDATION.ORG

Views expressed in *Pachyderm* are those of the individual authors and do not necessarily reflect those of IUCN, the European Union, the Species Survival Commission or any of the three Specialist Groups responsible for producing *Pachyderm* (the African Elephant Specialist Group, the African Rhino Specialist Group and the Asian Rhino Specialist Group).