



SPECIES
SURVIVAL
COMMISSION

Editors

Dali Mwagore and Helen van Houten

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
Diane Skinner
Bibhab K Talukdar
Lucy Vigne

Design and layout

Dali Mwagore

Illustrations

Philip Miyare

Address all correspondence, including enquiries about subscription, to
The Editor, Pachyderm
PO Box 68200 – 00200
Nairobi, Kenya
tel: +254 20 249 3561/65
email: afesg@iucn.org
website: <http://african-elephant.org>
<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

January – June 2013

No. 53

1 Chair reports / Rapports des Présidents

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

Holly T Dublin

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

Mike Knight

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

Bibhab K Talukdar

28 Research

Elephant effect on forest physical structure
and plant species composition in Salonga
and Malebo (Lac Tumba landscape),
Democratic Republic of Congo

*Bila-Isia Inogwabini, Mafuta Ngama-Nkosi,
Lisalama Wema-Wema and
Mbende Longwango*

- 38 Status and trends of the elephant population
in the Tsavo–Mkomazi ecosystem

*Shadrack Ngene, Steve Njumbi,
Martha Nzisa, Kenneth Kimitei,
Joseph Mukeka, Shadrack Muya,
Festus Ihwagi and Patrick Omondi*

- 51 Increasing rhino awareness in Yemen and a
decline in the rhino horn trade

Lucy Vigne and Esmond Martin

- 59 Landscape-level assessment of the
distribution of the Sumatran rhinoceros in
Bukit Barisan Selatan National Park, Sumatra

Wulan Pusparini and Hariyo T Wibisono

Cover: African rhino in Kruger National Park, South
Africa

Credit: ©Bibhab K Talukdar

- 66 Desert-dwelling African elephants (*Loxodonta africana*) in Namibia dig wells to purify drinking water
Eva M Ramey, Rob R Ramey, Laura M Brown and Scott T Kelley
- 73 Two-choice discrimination learning in African elephants (*Loxodonta africana*)
Charles W Hyatt
- 81 Elephant population trends and associated factors: a review of the situation in western Ghana
Emmanuel Danquah and Samuel K Opong
- 91 **Management**
- 91 Systems approach towards surface water distribution in Kruger National Park, South Africa
Izak PJ Smit
- 99 **Field note**
- 99 Participatory survey of elephants (*Loxodonta africana*) in Kamuku National Park and its environs, northwestern Nigeria
TO Amusa, JA Ogunjobi, SK Halidu, IB Likita, AR Muraina, IJ Fxentirimam and AM Gunu
- 103 **MIKE / ETIS updates/Mise à jour de MIKE/ ETIS**
- 103 CITES-MIKE update
Julian Blanc
- 111 Progress in implementing the Elephant Trade Information System (ETIS)/
Avancement dans la mise en œuvre du Système d'Information sur le Trafic des Eléphants (ETIS)
Tom Milliken
- 118 **Guidelines for contributors**

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).

Pachyderm

January – June 2013

No. 53

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

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:

