

RHINO RESOURCE CENTER

www.rhinoresourcecenter.com

NEWSLETTER #69 DECEMBER 2022

Dear colleagues and friends,

This is the 69th issue of the quarterly e-newsletter of the Rhino Resource Center. Edited by Dr Kees Rookmaaker.

The total number of references in the collection of the RRC now stands at **27,175**. This is an increase of 455 items in the last quarter. Over 27,000 references are **available** as PDF on the RRC website.



SUPPORT the RRC

THE RRC IMAGE GALLERY

Regular users will know that the RRC has a fantastic Image Gallery with now over 6200 pictures of rhinos of all sorts. This is a great resource. The search engine finds any word in the description, or you can browse by species. There are images of old art work, of animals in the wild, rhinos in a wide variety of settings. Unsurpassed.

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The Rhino Resource Center is a Charity (Registered KvK Utrecht 30185802)

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STAR VOLUNTEER OF 2022: DAN ZIEGLER

The updates of the RRC are greatly enhanced by volunteer editors. This year MR DAN ZIEGLER of Wisconsin, USA has been of great assistance. This quarter he added many new items from the journals of the American Zoo association AZA (former AAZPA) and other zoo-related publications. His efforts will benefit many researchers and zoo-historians.

He also wants to acknowledge the help of Mary Kazmierczak, the librarian at the Milwaukee County Zoo (and co-author of Images of America : Milwaukee County Zoo).

The input of editors like Dan Ziegler is essential to the work of the RRC.

NOW PUBLISHED: RHINO SCULPTURES FOUND ON BENGAL TERRACOTTA TEMPLES – WITH THE STORY OF BEGUM, THE FIRST SUMATRAN RHINO IN LONDON ZOO, WRITTEN WITH THE HELP OF ZOO-HISTORIAN JOHN EDWARDS

Rookmaaker, L.C.; Edwards, John, 2022. The rhinoceros on terracotta temples and in jungles of West Bengal and Bangladesh. *Journal of Bengal Art*, vol. 26 (dedicated to Claudine Bautze-Picron): 71-88.

[READ IT HERE](#)

THE RHINOCEROS ON TERRACOTTA TEMPLES

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Plate 4.2: Rhinoceros with rider on a 9th century terracotta plaque found at Palampur, Rajshahi Division (from Dikshit 1938, pl. XLIV).
Plate 4.3: Rhinoceros facing left attacked by two hunters with spears, in a plaque of the Kantaji Temple in Kantanagar, Bangladesh. (Photo Joachim K. Bautze).



Plate 4.4: Rhinoceros hunted by a rider on horseback as well as two persons with spears, in a plaque of the Kantaji Temple in Kantanagar, Bangladesh (Photo Joachim K. Bautze).

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JOURNAL OF BENGAL ART

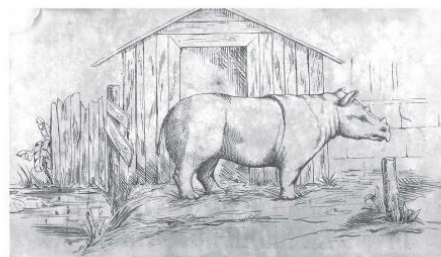


Plate 4.12: Drawing of the two-horned rhinoceros Begum when she was in Chittagong in 1867 or 1868, drawn by Captain Frederick Henry Hood (1837-1875). (*Oriental Sporting Magazine*, March 1869).

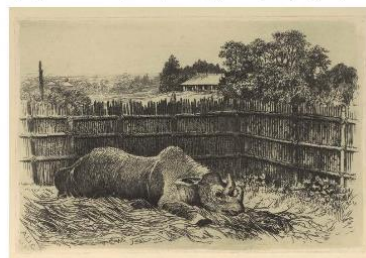
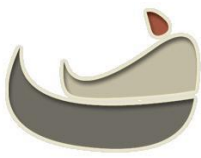


Plate 4.13: Drawing of Begum in her enclosure in Chittagong by Arthur Lloyd Clay (1842-1903). This was probably sketched in 1895, hence the shape of the horns which Begum developed in later life in London Zoo. (Clay, *Leaves from a Diary in Lower Bengal*, 1896, Plate facing p.209).



ANALYSING RRC IMAGE GALLERY – RESULT OF THESIS BY OSCAR WILSON

Wilson, Oscar E.; Pashkevich, M.D.; Rookmaaker, K.; Turner, E.C., 2022. Image-based analyses from an online repository provide rich information on long-term changes in morphology and human perceptions of rhinos. *People and Nature* 2022 [November 1]: 1-15 - DOI: [10.1002/pan3.10406](https://doi.org/10.1002/pan3.10406)

Abstract

1. Online image repositories can offer a freely accessible, information-rich and cost-effective alternative to museum collections for studying long-term changes in human interactions with nature and ecological and evolutionary change. The Rhino Resource Center (RRC) is one example, curated by experts and holding a collection of >4000 rhino images, including both artistic portrayals (1481–2021) and photographs (taken between 1862–2021), and representing a potentially valuable case study to investigate the utility of online image repositories for research into large vertebrates and, potentially, other well-recorded smaller taxa. The five extant species of rhino are all threatened by habitat loss and human hunting and therefore are an important focus for conservation research.

2. We used the RRC for two separate research approaches: (i) assessing the changing representations and human interactions with rhinos using 3158 images (1531 pieces of artwork and 1627 photographs); and (ii) determining to what extent morphological data can be extracted from photographs to assess changes in horn length over time, using a sample size of 80 photographs of rhinos taken in profile view.

3. We found that African rhino species have become more commonly depicted in images, compared to Asian rhino species over time. During the age of European imperialism (between the 16th and 20th centuries), rhinos were commonly portrayed as hunting trophies, but since the mid-20th century, they have been increasingly portrayed in a conservation context, reflecting a change in emphasis from a more to less consumptive relationship between humans and rhinos. Finally, we found evidence for declining horn length over time across species, perhaps related to selective pressure of hunting, and indicating a utility for image-based approaches in understanding societal perceptions of large vertebrates and trait evolution.

Also: Wilson, O., Pashkevich, M.D., Turner, E.C., Rookmaaker, L.C., 2022. The Rhino Resource Center: Accessing and utilizing a unique digital database. *Pachyderm* 63 - forthcoming

SHRINKING RHINOS – inspired by Wilson et al. 2022

<https://thepoetryofscience.scienceblog.com/3616/shrinking-rhinos/>

by SAM ILLINGWORTH, 4 November 2022

Coveted curves
march into view,
pointed tusks of
protein given artificial
weight by greed
and sport
and lust.
Captured portraits
position polygons
across the screen,
centuries of colour
that age
and waste
and bleed;
shifting perspectives
captured in black
and white
to mark the passing
of their mounting loss.

Received 8 January 2022 | Accepted 2 September 2022
DOI: 10.1002/pan3.10406

PEOPLE
NATURE

RESEARCH ARTICLE

Image-based analyses from an online repository provide rich information on long-term changes in morphology and human perceptions of rhinos

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Abstract

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CLARA THE RHINOCEROS AT THE RIJKSMUSEUM, AMSTERDAM

EXHIBITION BOOK BY GIJS VAN DER HAM

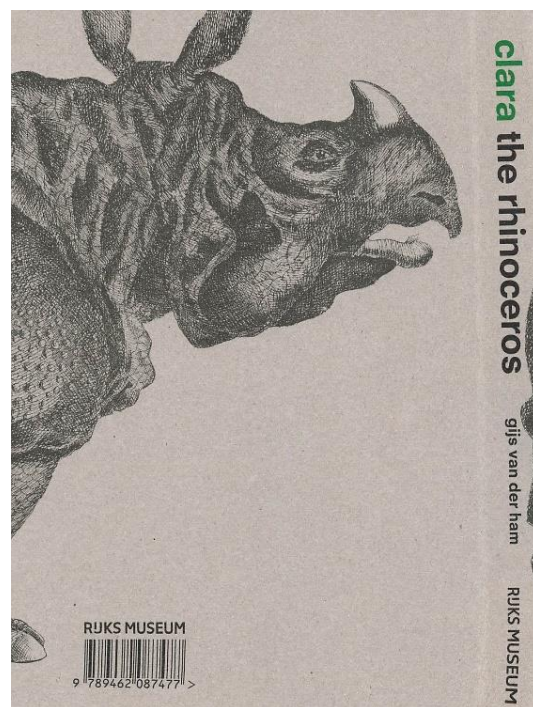
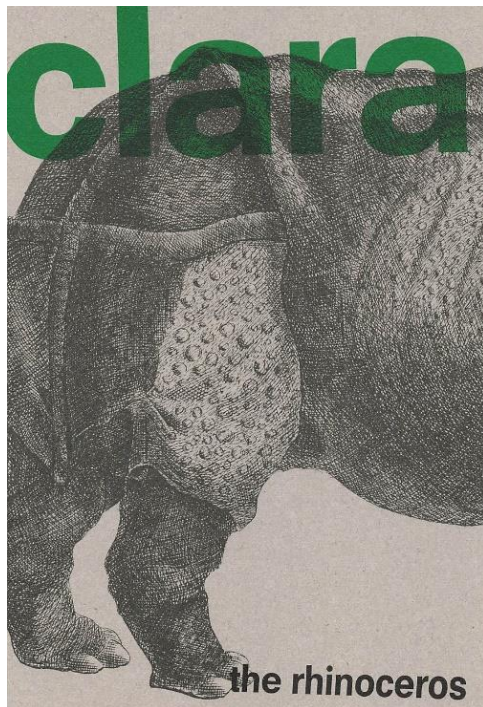
AVAILABLE IN ENGLISH AND DUTCH

‘A rhinoceros is coming to your town, a living rhinoceros! Such a wonder beast from distant parts has never been seen here before.’ The news made many European newspapers in the 1740s and 1750s. The young rhinoceros, whose name was Clara, had been brought from India to the Netherlands on board a ship of the Dutch East India Company. For seventeen long years she criss-crossed virtually every country in mainland Europe with her owner Douwe Mout. Clara’s appearances caused a sensation with the general public while scientists regarded her as a wonder beast and artists adopted her as their muse, immortalizing her in paintings, drawings and sculptures. In this book, Gijs van der Ham brings the most famous rhinoceros in European history to life.

This book accompanies the popular exhibition at the Rijksmuseum in Amsterdam (Netherlands) –

<https://www.rijksmuseum.nl/en/whats-on/exhibitions/clara-the-rhinoceros>

Still open until 15 January 2023 ... worth a detour for all rhino lovers.





Clara at the Rijksmuseum – continued

Building partly on previous research, Van der Ham has expanded our knowledge of the tour of Clara across the European continent. He add no less than 36 new cities or towns to the list. That is a major achievement. This is compared to the previous assessment in Rookmaaker, *The Rhinoceros in Captivity*, 1998, pp. 61-67.

The books accompanying the exhibition published in identical editions in Dutch and English have much to offer for anybody interested in the Dutch East India Company, the exhibition of exotic animals in fairs and markets, and about the immense impact of Clara n western knowledge about the rhinoceros in the 18th century and afterwards.

There remains scope for further research. There are oddities like the drawings made by Petrus Camper apparently in 1748 in the Dutch town of Leiden (when Clara most likely was elsewhere). And we need confirmation of her death in 1758 of which so far no definite new evidence has been found. Let us hope that this exhibition and the book will help to unearth the growing list of evidence of the importance of Clara to the knowledge about the rhinoceros in 18th century Europe.

The exhibition is well designed. The books by Gijs van der Ham contain many new insights concerning the knowledge of the rhinoceros now and in previous centuries.





CLARA ON THE RRC

When I was a regular visitor to the Artis Library in Amsterdam during my Gymnasium years 1965-1973, the new librarian Florence Pieters asked me if my research had yielded some good results which could be published in their journal the *Bijdragen tot de Dierkunde*, later generally known as *Contributions to Zoology*, and now fully [online](#) or [here](#) and open access.

This resulted in my first paper in a scientific journal, about the series of rhinos exhibited in Europe from 1515 to the start of the 19th century:

Rookmaaker, L.C., 1973. Captive rhinoceroses in Europe from 1500 until 1810. [Bijdragen tot de Dierkunde, Amsterdam](#) 43 (1): 39-63, figs. 1-13.

One of these early rhinos at first had no name, and was generally called the “Dutch Rhinoceros”. Later it was found that she was called Clara, or something very similar to that. My investigations were of course just careful baby steps, which were soon overtaken by further research, first in detail by Tim Clarke resulting in his book of [1986](#). There was an exhibition at the Natuurmuseum in Rotterdam with a booklet by Irene [Verhey](#). The story of Clara was popularized by Glynis Ridley in [2004](#), and supplemented by a host of other relevant contributions.

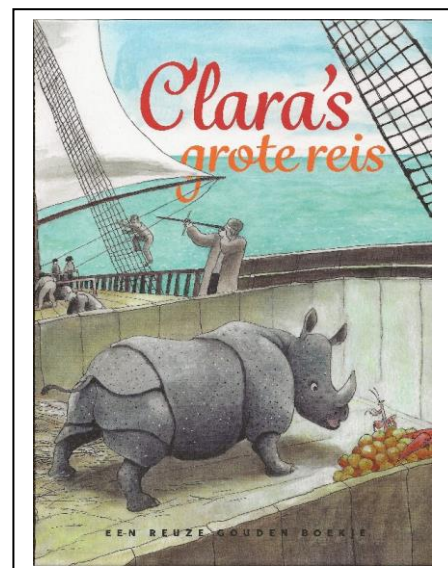
It has been a long road from 1973 to 2022, and the historical significance of the single rhino called Clara has been expanded and shown in a long series of contributions from a wide range of disciplines and countries.

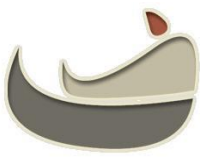
It is my intention to assist further historical research into the life of Clara and her environment by compiling all available evidence and sources and comments, which will be made available on the RRC. This will also identify current gaps in our knowledge and with the help of the internet, researchers from around the world can contribute to the efforts to find all art works and all literature and newspaper entries about Clara, the Dutch Rhinoceros.

CLARA’S LONG JOURNEY – A CHILDREN’S BOOK IN DUTCH

Bakels, J.; Tjong-Khing, T. (illustrator), 2022. **Clara's grote reis**. Amsterdam, Rubinstein Publishing (Een Reuze Gouden Boekje), pp. 1-30

Accompanying the Clara exhibition in the Rijksmuseum in Amsterdam 2022-2023,





CLARA, THE FIRST RHINOCEROS IN THE NETHERLANDS DUTCH ADULT NOVEL NOW PUBLISHED BY AGNITA DE RANITZ

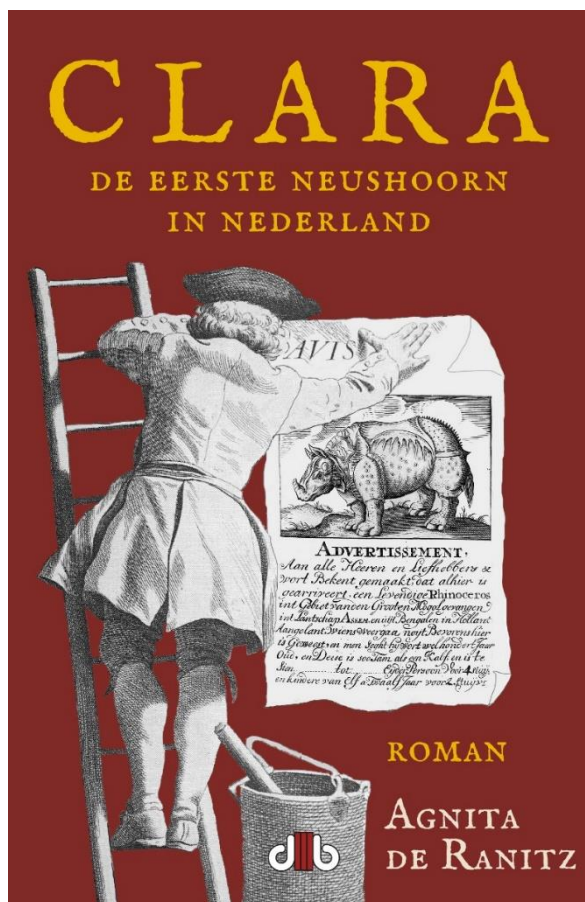
This novel about the life and peregrinations of the Dutch Rhinoceros called Clara is as yet only available in Dutch. This animal arrived from Bengal in 1741 and would travel around many West European countries until 1758 when she died, probably in London. Being the first living rhinoceros seen in most of the places which she visited, her exhibition caused quite a stir, both among the general population and among the learned scientists of the day. She was owned by the Captain Douwe Mout van der Meer, who obtained her from the Director of the Dutch Factory on the Hoogly just north of the present megacity Kolkata.

This novel tells the story of Douwe Mout, his friends, his family, his admirers, his helpers, centered around the life of the female rhino known as Clara.

For anybody with knowledge of the Dutch language and an interest in rhinos, this book is highly recommended.

<https://agnitaderanitz.com/clara-de-eerste-neushoorn-in-nederland/>

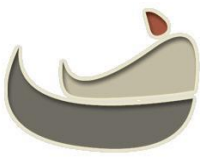
<https://www.uitgeverijdebrouwerij.nl/boeken/clara-de-neushoorn/>



Als Douwe Mout in 1740 kapitein wordt op een VOC-schip en daarmee in Bengalen arriveert, verandert zijn leven op slag als hij oog in oog komt te staan met een jonge neushoorn. Hij besluit het dier mee te nemen naar De Nederlanden, maar heeft geen idee wat hij zich daarmee op de hals haalt.

Bij een bevriende drukker in Leiden laat hij affiches maken om betalende bezoekers naar kermessen en jaarmarkten te trekken. Nieuwsgierigen stromen toe om het in die tijd nog onbekende dier te bewonderen. Geleerden bestuderen haar nauwkeurig en kunstenaars raken gefascineerd door elke plooi.

Al gauw blijkt dit voor Douwe een lucratieve bezigheid en neemt hij ontslag bij de VOC. Dan wordt het ook tijd om de grens over te trekken. Behalve boeren en burgers maken ook bepruikte en geparfumeerde edellieden en vorsten hun opwachting bij het monstrueuze dier. Zo reist Douwe Mout zeventien jaar lang met Clara door Europa en wordt de neushoorn een hype, een fenomeen dat je gezien moet hebben.



CLARA IN ITALY 1750-1751 – THREE ART WORKS REDISCOVERED



Engraving by Gian Francesco Costa (1711-1772) showing two poses of Clara when she was exhibited in Italy 1750-1751. Etching, . 225 x 320 mm. l. 248 x 327 mm. Venezia, Gabinetto Disegni e Stampe del Museo Correr (Cicogna 119).



Left. Leaping Rhinoceros, probably by Pietro Longhi (1701-1785). Current whereabouts of painting unknown. Colour negative from collection of Tim H. Clarke, 1980s.
Right. Magrath the Giant and the rhinoceros, combined in one painting after earlier originals also by Pietro Longhi. From Pignatti 1969, p.105/



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SAVE THE RHINO



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RHINO CARHIRE

We are grateful to all individuals who show their appreciation by their donation.
Thank you very much.

*The Rhino Resource Center is a registered charity.
We need your assistance to provide our service to all rhino lovers worldwide.*



CONTENTS OF THE RHINO RESOURCE CENTER

The development of the Rhino Resource Center is shown in the table here.

RRC	2021 Dec	2022 March	2022 June	2022 Sept	2022 Dec	ANNUAL INCREASE
References	25,655	x	26,092	26,720	27,175	+ 1,520
PDF files	25,625	x	26,095	26,820	27,265 *	+ 1,640
Images	4,675	x	4,818	6,005	6,202	+ 1,527

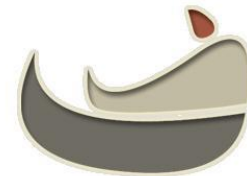
* Some references have more than one PDF attached, mostly due to file size restrictions.

Many thanks to everybody who has helped us by sending copies of books and papers, information, data, news, pictures, photographs – all shared across the globe.

DONATIONS TO THE RRC

It is really very easy. No problem to the audience of the RRC. To show appreciation of our work and to make future contents even better, a small donation goes a long way. Visits to libraries are no longer necessary, just think of the expensive time gained and research results improved. The button leads to a page with instructions.

[DONATE HERE](#)

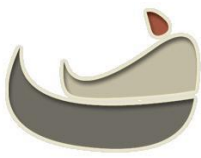


The Rhino Resource Center is an essential tool for

- 👉 Information and image supply to media
- 👉 Academic research in biology, conservation studies, art history
- 👉 Education in primary, secondary and tertiary levels
- 👉 Conservation of rhinos both *in-situ* and *ex-situ*
- 👉 Latest information supply of all rhino-related projects
- 👉 Information on all the latest conservation efforts
- 👉 All the historical and most current literature.

YES, YOU CAN HELP:

- 👉 Authors of books, papers and reports can send us a copy after publication.
- 👉 We are always looking for images of all rhinos in books and in the wild
- 👉 We aim to include a picture of every rhino ever kept in captivity
- 👉 Contribute a message to our blog and get into contact with others
- 👉 Place a link on your website to the RRC which will be reciprocated
- 👉 Give us a DONATION when you feel the RRC has helped your work.



NEW LITERATURE (finalized 28 November 2022)

In this quarter (September to November 2022), we have added 455 new references, to bring the total number of items in the database to **27,175**.

Due to ill health of the editor, the RRC this quarter has greatly benefitted from the constant updates of older and new literature by two temporary editors, Oscar Wilson (UK) and Dan Ziegler (USA). Thanks to IRF for their support.

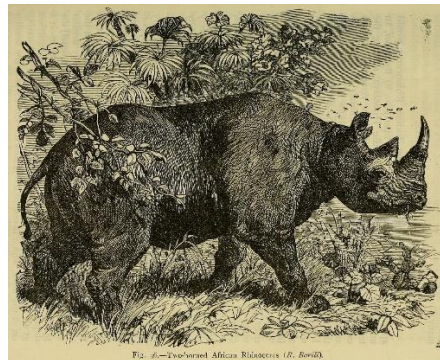
Below I have listed all new entries since 2000 in four categories: General (all species), African rhinos, Asian rhinos and Fossil rhinos.

A special feature this month is a list of the older (<2000) items added in this quarter.

Most additions are available on the website.

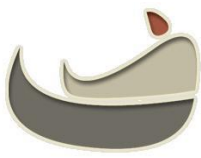
Search for them on the RRC, it's easy.

Always check the [RRC website](#) first, many papers are available there.



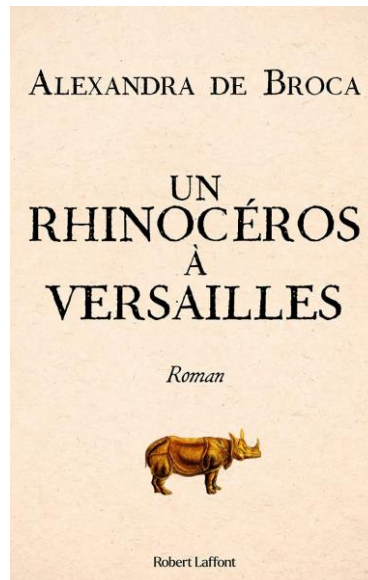
L.C. ROOKMAAKER – 2022 PUBLICATIONS TO DATE

- Jusoh, W.F.A.; Chua, M.A.H.; Bakker, P.A.J.; Kamminga, P.; Weller, D.; Rookmaaker, L.C.; Low, M.E.Y., 2022. A historical specimen of the Fishing Cat, *Prionailurus viverrinus* (Bennett, 1833) (Carnivora, Felidae) from Singapore in the zoological collection of the Naturalis Biodiversity Center, Leiden. *Zoosystematics and Evolution* 98 (1): 43-53
- Robovsky, J.; Rookmaaker, L.C.; Groves, C.P., 2022. Several zoological comments to depictions of jaguar and rhinoceros in the art of Roelandt Savery. *Archivum Trebonense* 15 (Bestia – Animals in historical context): 78-87 – <https://digi.ceskearchivy.cz/539312/81>
- Rookmaaker, L.C., 2022. Rhinoceros borili Blyth, 1870, a forgotten name for the black rhinoceros. *Pachyderm* 63 - forthcoming
- Rookmaaker, L.C.; Edwards, John, 2022. The rhinoceros on terracotta temples and in jungles of West Bengal and Bangladesh. *Journal of Bengal Art* 26 (dedicated to Claudine Bautze-Picon): 71-88.
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- Wilson, Oscar E.; Pashkevich, M.D.; Rookmaaker, K.; Turner, E.C., 2022. Image-based analyses from an online repository provide rich information on long-term changes in morphology and human perceptions of rhinos. *People and Nature* 2022 [November 1]: 1-15 - DOI: 10.1002/pan3.10406.



NEW GENERAL PUBLICATIONS

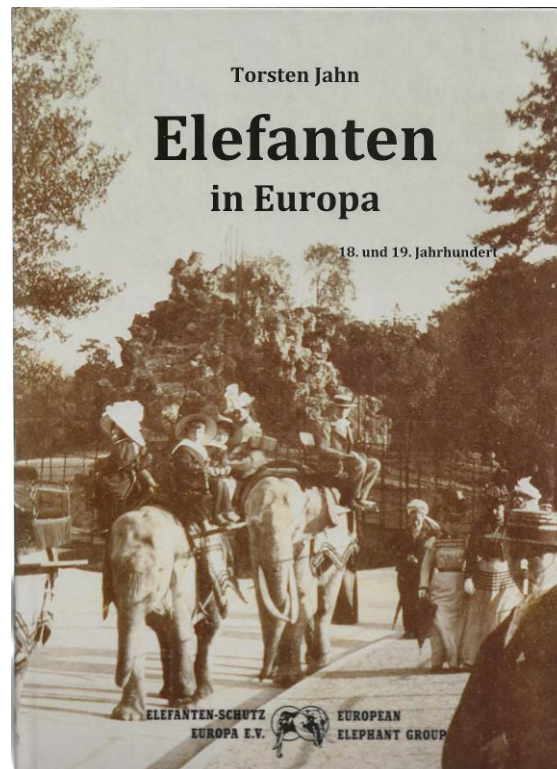
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- Bakels, J.; Tjong-Khing, T. (illustrator), 2022. *Clara's grote reis*. Amsterdam, Rubinstein Publishing (Een Reuze Gouden Boekje), pp. 1-30.



- Broca, Alexandra De, 2021. *Un rhinoceros à Versailles*. Roman. Paris, Robert Laffont, pp. 1-382.
- Dean, C., 2022. Same, same, but different. *The Horn (Save the Rhino International) 2022*: 3.
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- Gallardo Luque, A., 2018. Bucephalus-unicorn in the medieval illuminated manuscripts (in Italian). *Revista Digital de Iconografia Medieval* 10 (20): 73-101.
- Ham, G. van der, 2022. *Clara de neushoorn*. Amsterdam, Rijksmuseum, pp. 1-208 (paperback, ISBN 9789462087460).
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- Illingworth, S., 2022. Shrinking rhinos. Online: <https://thepoetryofscience.scienceblog.com/3616/shrinking-rhinos/>.
- International Rhino Foundation, 2019. State of the Rhino Report 2019: 10-year improvement in world rhino populations offers cautious hope. Washington, IRF, pp. 1-4 (online only).
- International Rhino Foundation, 2020. State of the Rhino Report 2020: COVID-19 provides short term poaching relief for rhinos but breeds long term concerns. Washington, IRF, pp. 1-4 (online only).
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- International Rhino Foundation, 2022. State of the Rhino Report (for 2022). Washington, IRF, pp. 1-17 (online only).
- International Rhino Keeper Association, 2022. Various notes. *The Crash*, Fall (September) 2022: 1-12.



General – continued

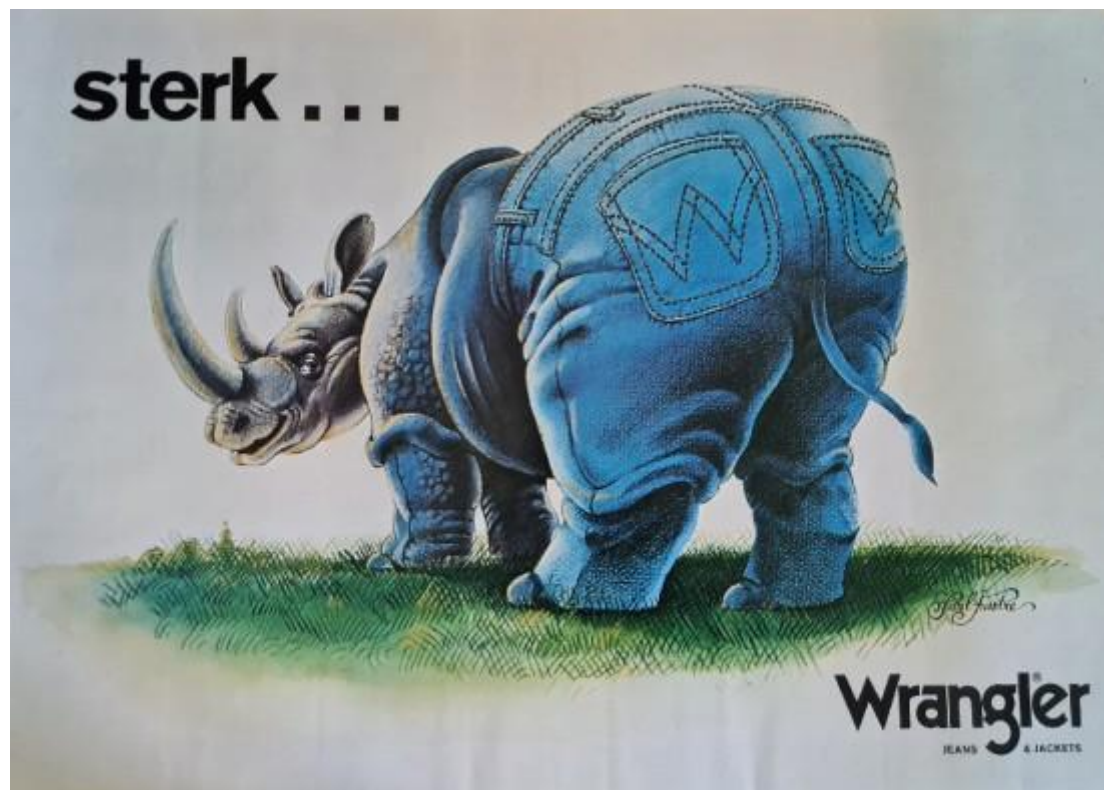


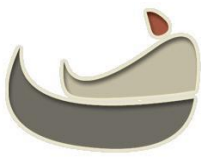
- Jahn, Torsten., 2022. *Elefanten in Europa, 18. und 19. Jahrhundert*. Münster, Schöningh Verlag für Elefanten-Schutz Europa E.V., pp. i, 1-434.
- Negra, O.; Pallaveri, A. (edited by), 2022. The shadow of the unicorn - Past, present, and future of rhinos. Presentation of the temporary exhibition. MUSE, Museo delle Scienze of Trento (Italy), 21 pp, 15 figs.
- Ranitz, A. de, 2022. *Clara, de eerste neushoorn in Nederland*. Roman. Maassluis, Uitgeverij de Brouwerij, pp. 1-250 - ISBN 9789083114583.
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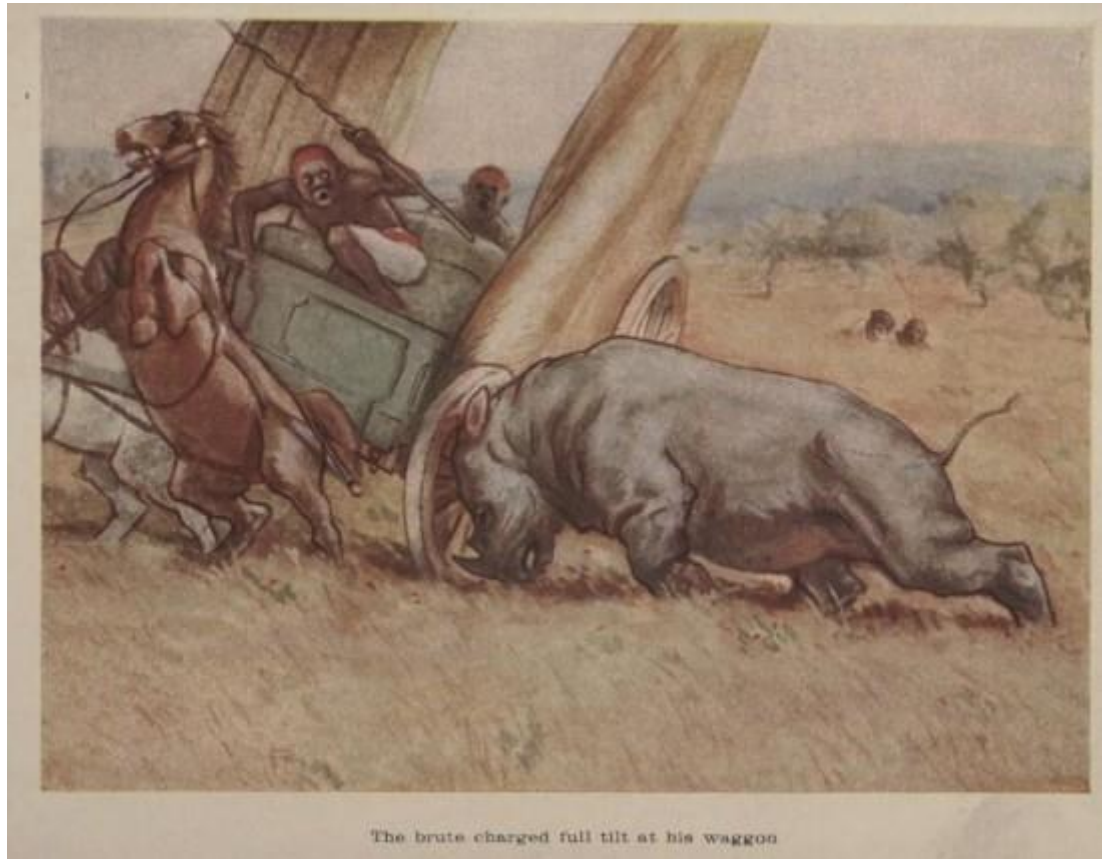
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The brute charged full tilt at his waggon

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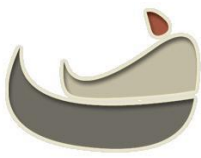
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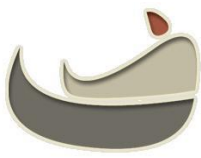
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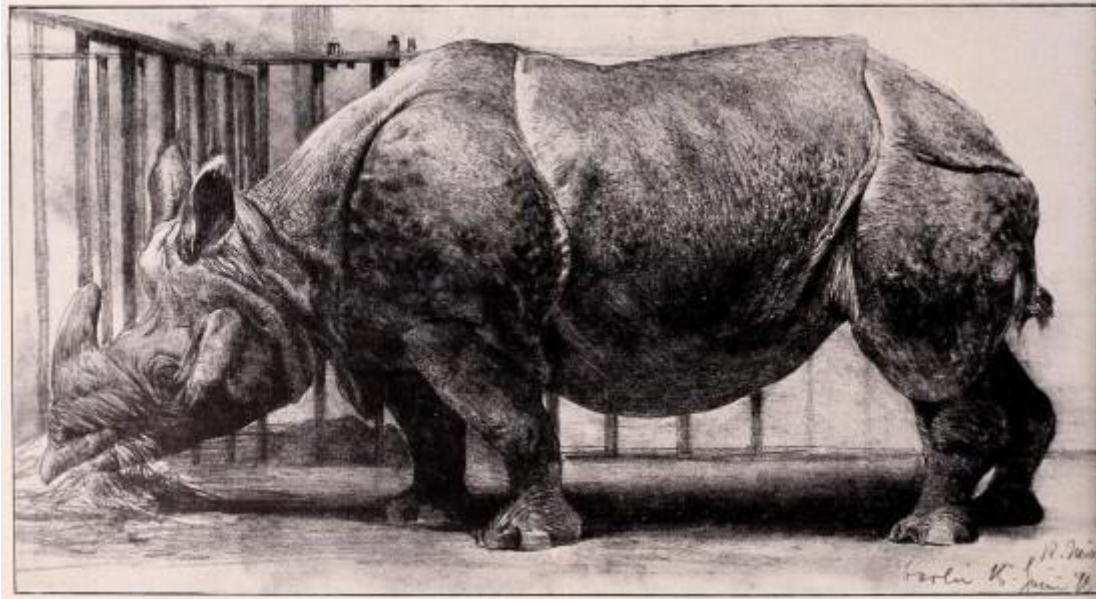
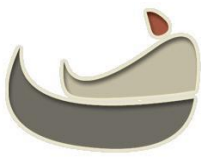
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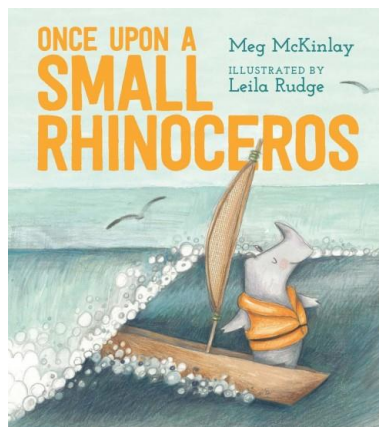


One of the first drawings of a rhinoceros in Europe since Roman times, portraying the Lisbon Rhinoceros or Ganda of 1515. This resembles the engraving published on 13 July 1515 by G.G. Penni (*Forma & natura et costumi de lo rinocerote stato condotto im Portogallo*). This is found among manuscripts in the Vatican, Vat.lat.2847_0390_fa_0190r – now online. See Walter 1994, fig. 5.

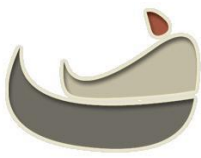


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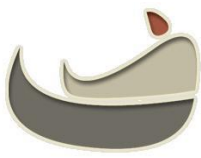


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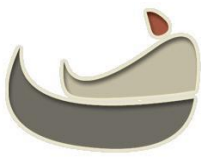
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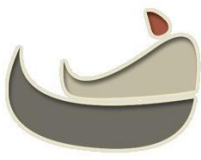


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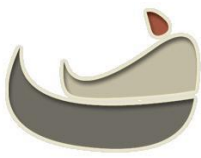
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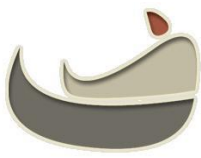
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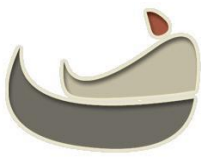
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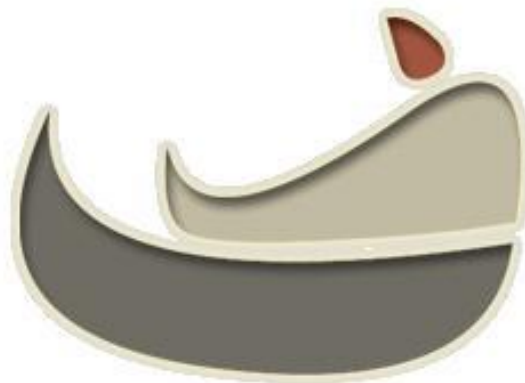
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