

RHINO RESOURCE CENTER

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NEWSLETTER #68 SEPTEMBER 2022

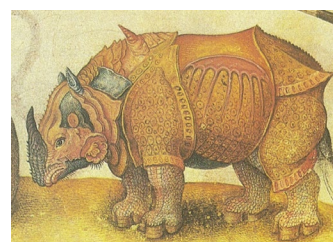
Dear colleagues and friends,

This is the 68th 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 **26,720**. This is an increase of 630 items in the last quarter. Over 26,000 references are **available** as PDF on the RRC website.

THE RRC IMAGE GALLERY

Regular users will know that the RRC has a fantastic Image Gallery with now over 6000 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.



**SUPPORT the RRC
CLICK ON RHINO**

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

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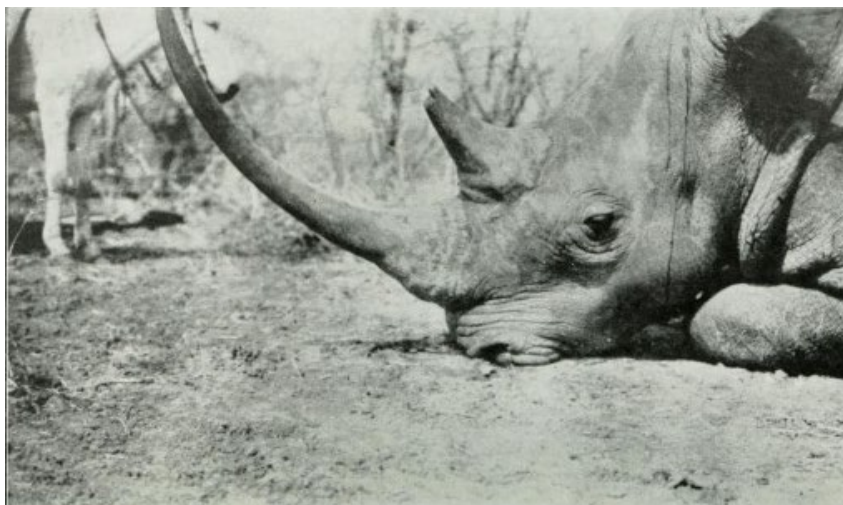
THE RRC IMAGE GALLERY

Images are of special importance in zoology, especially for popularizing and educational purposes. Children see pictures even before they can read which impresses the appearance of various animals on their mind for the rest of their life. Many scientific papers are also illustrated, because the figures can convey some concepts much better than a multitude of words. Images of course can be drawings, etchings, engravings, paintings, watercolours, representations of three-dimensional art or specimens in museums, and since the late 19th century increasingly photographs, black-and-white at first and now mainly in colour.

The RRC has an extensive image gallery, now including over 6000 items. The majority of these are taken from books and articles, both in the scientific and popular press. The aim is to include every illustration of a rhinoceros ever produced in any format, and as much as possible to show every rhinoceros which ever lived in a zoological garden or other captive setting.

A large part of the image gallery consists of art works dating from the 16th to 19th centuries, before the advent of photography. These have great historical importance in showing the changes in perception of the rhinoceros through the ages, the recognition of an increasing number of species, and even potential changes in rhino appearance (like horn sizes) over time. In an age of extinction, photographs are the silent witnesses of the existence of animals like the Nile (northern white) rhinoceros and others.

The RRC Image Gallery is a *curated* collection. There is information about the exact provenance of each image, and potentially of all the specimens depicted. I tend not to include recent photographs of the rhinos in the wild, or in captivity, unless there is information about the exact locality, date and photographer. In this way every image tells its own story, and we can enjoy browsing through past events in rhino research, conservation and education.



"Le rhinoceros de Armand Solvay." Northern white rhino shot in 1907 in the Lado Enclave, Congo. From p.94 in Calmeyn, M. et al., 1912. Au Congo Belge: chasses a l'elephant, les indigenes, l'administration. Bruxelles.



GUIDE TO USING THE RRC IMAGE GALLERY

From the RRC homepage, you can find a link to the Images. Here on the right side of the page are three entry points: a searchbox, a list of species, and a link to the Gargioni collection of rhinos in modern art.

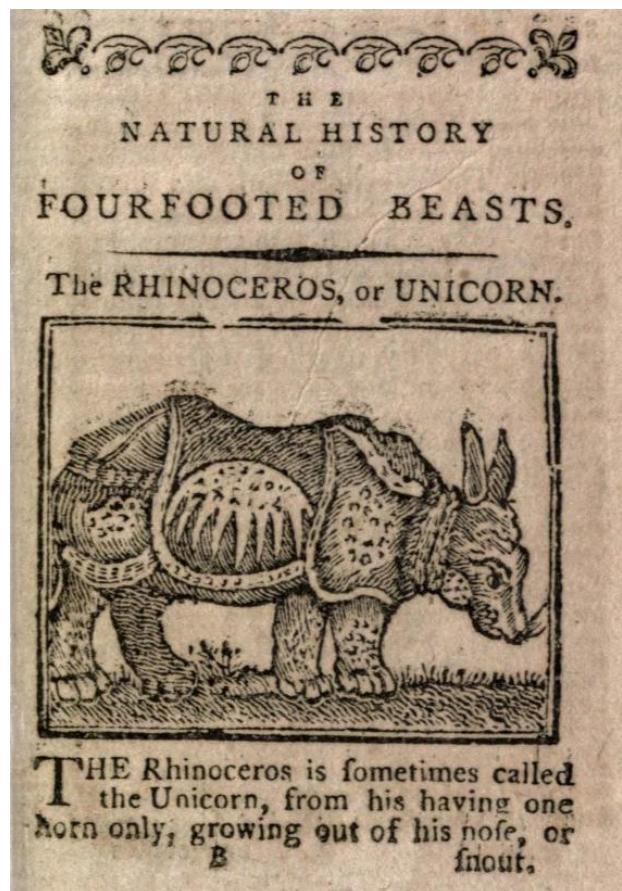
The Gargioni collection is a unique set of modern art works. This is no longer expanded and it is understood that the owner sold most of the items. However, they remain as a set on the RRC.

The list of species is useful when you are searching for images of one species, like the Javan Rhinoceros. Clicking on the link will show pages of thumbnails which can be browsed quickly. At the top of the pages there is a dropbox where various methods of sorting can be applied.

Once a thumbnail is found, click on it, and it will display a larger version of the image as well as the information that we hold about it. Note that all images are in low resolution which would not generally allow printing in publications. The holding institutions would be the place to negotiate any permissions.

The Search Box of the images is simple but powerful. You can put any text, or a date or number. One word or date is better than several, because it will narrow down the search. Obviously the number of results depends on the search term. Don't put "rhinoceros" but "lado" or "1896" will give a better result.

The RRC Image Gallery is a unique resource for historians, antiquarians, booksellers, zoologists and everybody who enjoys browsing through the rich history of rhino studies.



One of the early images of the rhinoceros in a book printed in the USA. From: Columbus, Charley, 1794. The natural history of beasts, which are to be met with in the four quarters of the globe. Worcester, Massachusetts, Isaiah Thomas.



ANNOUNCEMENT: IRKA CONFERENCE

<https://www.rhinokeeperassociation.org/coming-soon-01>

The next Rhino Keeper Workshop is scheduled from 7 to 11 May 2023

At the Wilds in Ohio.

May 7th: Registration and Ice Breaker

May 8th – 10th: Workshop

May 11th: Visit to the Wilds and Banquet Dinner

Workshop will be at Salt Fork Lodge & Conference Center

WUNDERTIER NASHORN - EXHIBITION IN NUREMBERG

<https://www.gnm.de/ausstellungen/highlights2022/wundertier-nashorn/>

The Wondrous Rhinoceros. Three Hundred Years Of Prints

Germanisches National Museum Nürnberg (Nuremberg)

July, 21st 2022 to July, 27th 2023

This is a special exhibition of the Monson-Baumgart collection of rhino prints. Jim Monson is editor of the RRC and for many years an avid collector of rhinos in prints up to the middle of the 19th century. There are some very special items. This exhibition is well produced, and well worth a visit for anybody who happens to be in the region.



Sehr wenige Menschen hatten bis weit in das 19. Jahrhundert hinein Gelegenheit, ein lebendes Nashorn zu sehen. Auch Dürer kannte ein *Rhinoceros unicornis* nur aus der Beschreibung aus zweiter Hand. Trotzdem schuf er mit seinem Holzschnitt das über 200 Jahre gültige, nahezu ausschließliche Vorbild für Darstellungen des exotischen Tiers.

Das Rhinoceros ist wohl die populärste Druckgraphik Dürers und hat Europas Vorstellung vom Aussehen eines Nashorns entscheidend geprägt. Die Studioausstellung widmet sich auch der Bildgeschichte der nachfolgenden Artgenossen. Rund 40 ausgewählte druckgraphische Blätter des 16. bis 18. Jahrhunderts veranschaulichen eindrucksvoll den Wandel von der phantastischen Kreatur zum realistisch dargestellten Säugetier.

Die Idee zu der Präsentation entstand dank Jim Monson, der die mit seiner Frau Isolde Monson-Baumgart zusammengetragene „Rhino-Collection“ 2018 dem Germanischen Nationalmuseum zum Geschenk machte. Illustrierte Bücher der Bibliothek und Medaillen des Münzkabinetts erweitern in der Ausstellung den Blick auf die Blätter aus der Sammlung Monson-Baumgart um wissenschafts- und kulturhistorische Aspekte. Nicht zuletzt soll auch auf die gegenwärtige Bedrohung dieser faszinierenden Tierart aufmerksam gemacht werden, die unter anderem auf die seit der Antike kursierenden Mythen über die Heilkraft des Horns zurückzuführen ist.



NOW UPDATED AND IMPROVED
Our feature on the RRC on fossil rhinos:
**A DATABASE OF OLD WORLD NEOGENE AND QUATERNARY
RHINO-BEARING LOCALITIES**

[Click here to access](#)



CLARA EXHIBITION TO COME IN RIJKSMUSEUM, AMSTERDAM
<https://www.rijksmuseum.nl/en/whats-on/exhibitions/clara-the-rhinoceros>

Many artists painted her and scholars studied her carefully, from horn to tail. It was thanks to Clara that rhinoceroses were now depicted as they really looked. Far from her natural habitat, Clara was surrounded only by people and would never see a fellow rhinoceros again. The exhibition on Clara's story shows how new knowledge changed a worldview, with art playing a central role. The centrepiece is the life-size portrait of Clara from the Staatliches Museum in Schwerin, painted by Jean-Baptiste Oudry in 1749 in Paris. When I started as a student of biological sciences, little was known about Clara, then still called the Dutch Rhinoceros. I collated the information in my first paper of 1973 which precedes some of the more influential books produced from the 1980s. There is a useful list of places visited by Clara in my book on The Rhinoceros in Captivity, 1998, pages 61 to 67.

There will be a guide to the exhibition by Gijs van der Ham

The exhibition opens on Friday 30 September 2022



This person depicted next to Clara, the Dutch Rhinoceros, is probably her owner Douwe Mout van der Meer. From the broadsheet by Elias Baeck for the show in Vienna in October 1746. Photo Kees Rookmaaker (at the exhibition in Nurnberg, 2022, of the Monson-Baumgart collection. The Baeck broadsheet is from the collection of the Germanisches National Museum in Nuremberg).



OUR SPONSORS

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SOS RHINO



INTERNATIONAL RHINO FOUNDATION



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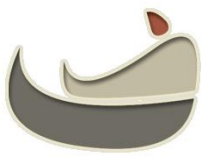


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RHINO CARHIRE

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 Sept	2021 Dec	2022 March	2022 June	2022 Sept	ANNUAL INCREASE
References	25,555	25,655	x	26,092	26,720	+ 1,165
PDF files	25,535	25,625	x	26,095 *	26,820	+ 1,285
Images	4,670	4,675	x	4,818	6,005	+ 1,335

* 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 31 August 2022)

In this quarter (June to August 2022), we have added 630 new references (7 per day !!), to bring the total number of items in the database to **26,720**.

Due to ill health of the editor, the RRC this quarter has greatly benefited 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.

Most additions are available on the website.

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

Always check the [RRC website](https://www.rhinosourcecenter.com) first, many papers are available there.



Rhinocere oder Nashorn. Detail. Anonymous, 1700. Aquarelle von Säugetieren, Vögeln, Insekten und Pflanzen samt deutschen Legenden. Manuscript [undated] in Zentralbibliothek Zürich, Ms Rh hist 161 (228 Bl. : Ill. ; 42 x 29 cm), p.2 Rhinocere oder Nashorn - <https://www.e-manuscripta.ch/zuz/content/titleinfo/20294>



NEW GENERAL PUBLICATIONS

- Anonymous, 2022. Dr Bernhard Blaszkewitz: biologist and director of Tierpark Berlin and Zoo Berlin. *Zooquaria* no. 114 (Summer): 27.
- Arranz, J.J. Garcia, 2017. Zoología simbólica: los animales en los libros de emblemas, empresas y bestiarios ilustrados de la Edad Moderna en España. Project: Biblioteca Digital Siglo de Oro 5 (BIDISO 5), pp. 392-456.
- CITES CoP19 Secretariat, 2022. Species-specific matters: Rhinoceroses (Rhinocerotidae spp). Report of the Standing Committee and the Secretariat. *Report to CITES CoP19 Doc. 75*, pp. 1-90
- Díez-del-Molino, D.; Sanchez-Barreiro, F. ; Barnes, I.; Gilbert, M.T.P.; Dalen, L., 2018. Quantifying temporal genomic erosion in endangered species. *Trends in Ecology and Evolution* 33 (3): 176-185 - <https://doi.org/10.1016/j.tree.2017.12.002>.
- El Hurgador [Arte en la Red], 2018. Hurgador XCI: The Ark of Noah. Internet Blog, pp. 1-31.
- Gilger, B.C.; Matthews, A.G. , 2022. Ophthalmology of Perissodactyla: zebras, tapirs, rhinoceroses, and relatives. In: Montiani-Ferreira, F.; Moore, B.A.; Ben-Shlomo, G., *Wild and Exotic Animal Ophthalmology: Volume 2: Mammals*, pp. 145-154.
- International Rhino Keeper Association, 2022. Various notes. *The Crash* June 2022: 1-6.
- Kawata, K., 2022. A sunset for the giant: remembering Bill Conway. *ZAA Journal (Zoological Association of America)* 16 (2): 12-21.



Von dem Rhinocerot oder Nashorn. Woodcut of a rhinoceros in a pillar. From the third page in Boillot, I., 1604. *New Termis Buch, von allerley grossen vierfussigen Thieren* zugerichtet. Frankfurt. This is the German translation of a French boom published in 1592. Rhinoceros with Dürer hornlet.



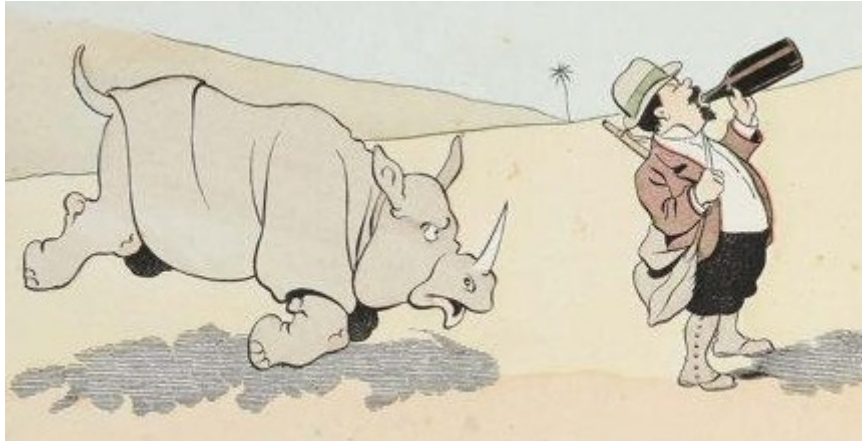
General – continued

- Mallet, C.; Billet, G.; Cornette, R; Houssaye, A., 2022. Adaptation to graviportality in Rhinocerotidae? An investigation through the long bone shape variation in their hindlimb. *Zoological Journal of the Linnean Society* 2022: 1-37 - <https://doi.org/10.1093/zoolinnean/zlac007>.
- Monson, J., 2022. Germanisches Nationalmuseum zeigt "Wundertier Nashorn". Nurnberg Media online 2022.
- Reichenbach, H., 2022. Zoological gardens of China. In: V.N. Kislung (ed.), *Zoo and Aquarium History*, 2nd edition. CRC Press (Taylor & Francis), pp. 299-318
- Robin des Bois, 2022. Notes on rhinoceros poaching. *On the Trail* (Information and analysis bulletin on animal poaching and smuggling) no.33: 58-75.
- Robin des Bois, 2022. Information sur braconnage des rhinoceros. *A La Trace* (Bulletin d'information et d'analyses sur le braconnage et la contrebande d'animaux) no.33: 58-75.



Luigi Ambrosini (1883-1929). Illustration with rhinoceros in the Italian adventure story. Page 14 in Ambrosini, L., 1944. *Ringhi Tinghi: storia di un cucciolo di tigre*. Torino, Paravia

- Shan, S.; Ju, X.; Wei, Y.; Wen, X., 2022. Concerned or apathetic? Using social media platform (Twitter) to gauge public awareness about wildlife conservation - A case study of the illegal rhino trade. *International Journal of Environmental Research and Public Health* 19 (11) 6869: 1-21, 11 figs., 5 tables, <https://doi.org/10.3390/ijerph19116869>.
- Simons, F., 2022. The donkey of Anšan: a rhino in Mesopotamia? Notes on the construction of meaning in a bilingual proverb. *Journal of Ancient Civilizations* 37 (1): 1-31 - doi: 10.16758/j.cnki.1004-9371.2022.02.013.
- Wildt, D.; Miller, P.; Koepfli, K.P.; Puzazhenti, B.; Palfrey, K.; Livingston, G.; Beitem, D.; Shurter, S.; Gregory, J.; Takacs, M.; Snodgrass, K., 2019. Breeding centers, private ranches, and genomics for creating sustainable wildlife populations. *BioScience* 69: 928-943.



Benjamin Rabier (1864–1939). Comment Carolus tua le rhinocéros. Preparatory drawings: Musée de l'Image (D 996.1.16693 B et D 996.1.16722 B).

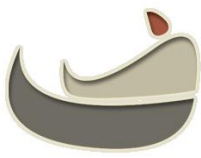
General – continued

Wilson, O.E. , 2019. What's the point? Use of image repositories in rhino research. Undergraduate dissertation for Department of Zoology, University of Cambridge, pp. 1-24 [largely based on the Image Gallery of the RRC].

Wyhe, J. van, 2021. Charles Darwin on Tahiti. *Bulletin de la Société des Études Océaniques* no. 355 (Sept./Dec.): 106-170.

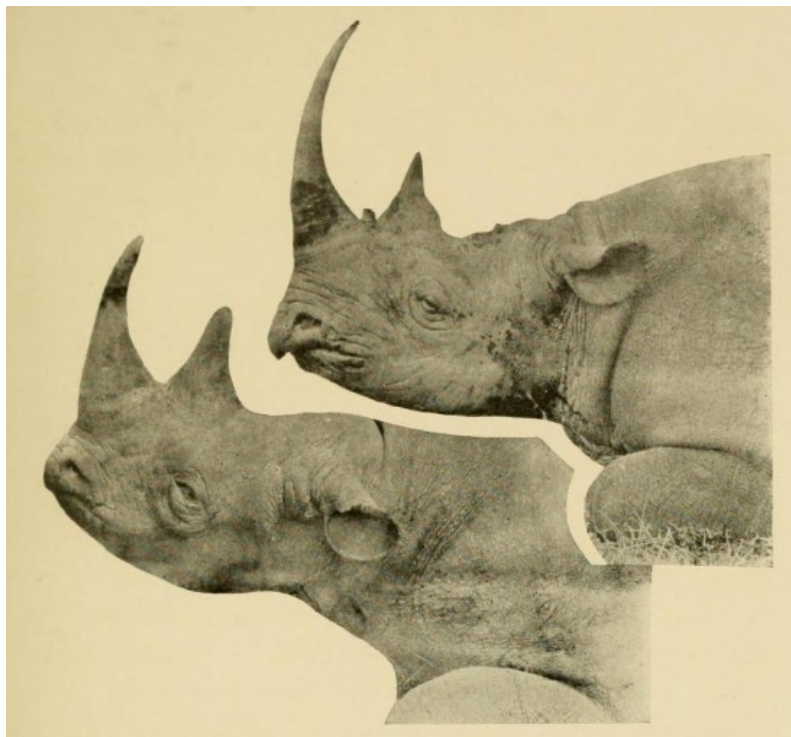


"The ungainly brute shot past him, bearing his friend upon his broad back". Front cover of *Chums (Magazine for Boys)* vol. VII no. 351 dated June 21, 1899.

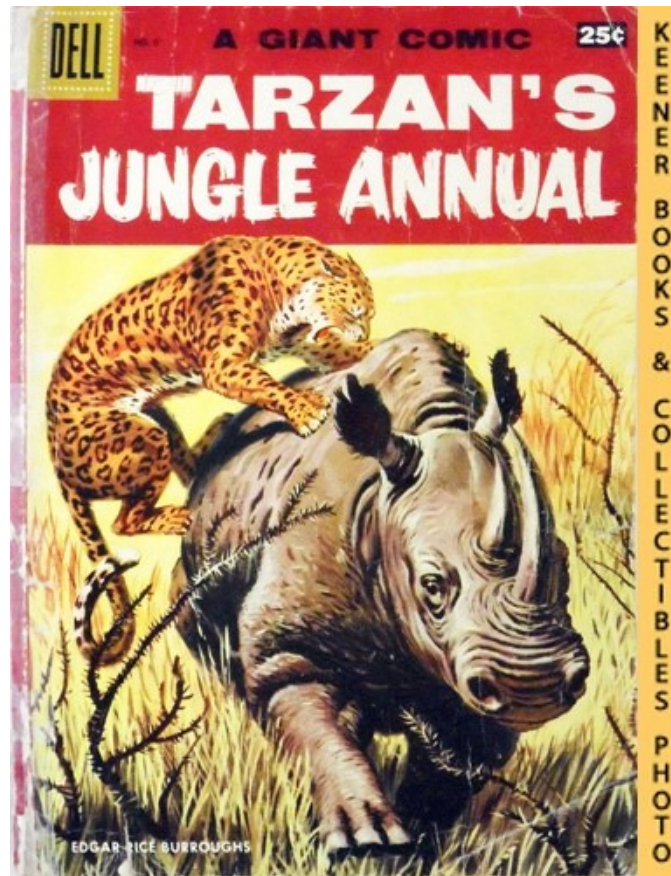


NEW PUBLICATIONS ON AFRICAN RHINOS

- Abegglen, L.M.; Harrison, T.M.; Moresco, A.; Fowles, J.S.; Troan, B.V.; Kiso, W.K.; Schmitt, D.; Boddy, A.M.; Schiffman, J.D., 2022. Of Elephants and other mammals: A comparative review of reproductive tumors and potential impact on conservation. *Animals* (www.mdpi.com) 12, 2005 (published 8 August 2022): 1-18. 3 tables, <https://doi.org/10.3390/ani12152005>.
- Adamo, I.; Duraccio, S.; De Francesco, T., 2020. Note preliminari sulle collezioni zoologiche dell'Istituto Bianchi dei Padri Barnabiti di Napoli. *Atti della Societa dei Naturalisti e Matematici di Modena* 151: 295-305.
- Andres-Brummer. D., 2020. Mister Serengeti: ein Nachruf auf Markus Borner. *ZGF-Gorilla* 2020 (1): 26-37
- Andres-Brummer. D., 2021. Grosser Auftritt: Die Nashorner kehren zuruck in den Gonarezhou-Nationalpark. *ZGF-Gorilla* 2021 (3): 12-16
- Anonymous, 2022. Rhinoceros poaching reaches new highs in South Africa. *Oryx* 56 (3): 323.
- Aouraghe, H.; van der Made, J.; Haddoumi, H.; Agusti, J.; Benito-Calvo, A.; Rodriguez-Hidalgo, A.; Lazagabaster, I.A.; Soubir, M.; Mhambi, H.; El Atmani, A.; Ewague, A.; Sala-Ramos, R.; Chacon, M.G., 2021. New materials of the white rhinoceros *Ceratotherium simum* and aurochs *Bos primigenius* from a Late Pleistocene terrace of the Oued el Hai (NE Morocco) - two elements of the Maghrebi Palearctic fauna. *Historical Biology* 2021: 1-19 - <https://doi.org/10.1080/08912963.2021.1995381>.
- Aubrey, L., 2004. Is time running out for the Northern White Rhino?. *Zoonoos (San Diego)* 77 (3) Mar: 22-25, 8 images.
- Australian Rhino Project, 2022. Progress update. *ARP Newsletter* (online) June 2022: 1-7.



Richard Tjader (1869-1916). "Two types of rhino." Upper one is the bush rhino, lower one is plains rhino. The little third horn of the upper animal is unusual. From p.146 in Tjader, R., 1910. *The big game of Africa*. London.



Cover of Tarzan's Jungle Annual #6 - 1957 : A Giant Comic

African Rhinos – continued

- Bartle, E.; Bell, L., 2022. Body Condition Scoring and activity levels of Southern white rhinoceros (*Ceratotherium simum simum*). *BIAZA Research Committee Conference July 2021: Book of Abstracts*: p. 19.
- Bohaker, R.B., 2020. Electroejaculation in the rhinoceros: seminal experiments with large, horned animals. *Annals of Improbable Research* 26 (2): 18-19.
- Boutonnet, R.; Kozlowski, E., 2012. Tres belle corne - *Ceratotherium simum* - Mozambique 1950. *Tajan catalogue vente 9728*: 16-17, 2 images.
- Bruin, M. de; Schmitz, P.M.U., 2021. The application of forensic geomorphology in rhinoceros poaching investigations in Africa. *South African Geographical Journal* 103: 43-63 - <https://doi.org/10.1080/03736245.2020.1835700>.
- Chapman, A., 2021. Want to buy a rhino? (1684). <https://www.gethistories.com/p/want-to-buy-a-rhino-1684>.
- Chimes, L.; Beytell, P; Muntifering, J.R.; Koetting, B.; Neville, V., 2022. Effects of dehorning on population productivity in four Namibia sub-populations of black rhinoceros (*Diceros bicornis bicornis*). *European Journal of Wildlife Research* 68, Article number: 58: 1-17 - <https://doi.org/10.1007/s10344-022-01607-5>.
- Conservation Education Staff, 2009. White rhino born at Lion Country Safari. *Connect (AZA)* April: 38-39, 1 image.
- Conservation Education Staff, 2010. Black rhino born at Brec's Baton Rouge Zoo. *Connect (AZA)* April: 35, 1 image.

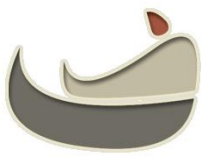


African Rhinos – continued

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- Conservation Education Staff, 2010. Southern White rhinoceros born at Tampa's Lowry Park Zoo. *Connect (AZA)* July: 41-42, 1 image.
- Dwyer, R.; Goosen, W.; Buss, P.; Kedward, S.; Manamela, T.; Hausler, G.; Chileshe, J.; Rossouw, L.; Fowler, J.H.; Miller, M.; Witte, C., 2022. Epidemiology of *Mycobacterium bovis* infection in free-ranging rhinoceros in Kruger National Park, South Africa. *Proceedings of the National Academy of Sciences* 119: 1-11.
- Enthoven, V.; Murdoch, Steve; Williamson, E., 2010. The Navigator: The Log of John Anderson, VOC Pilot-Major, 1640-1643. Leiden, E.J. Brill.
- Gao, Chenyuan; San Diego Zoo Institute for Conservation Research, 2020. Metabolic characterization of induced pluripotent stem cells from the critically endangered northern White rhinoceros. Project submitted in partial fulfillment of degree requirements for Master of Science in Biotechnology, California State University, San Marcos 2020 (July 24): summary, 10 slides.
- Gippoliti, S., 2022. Taxonomic history affects current conservation efforts: examples from the primates of the Horn of Africa. *Journal of Animal Diversity* 4 (1): 18-20 -.
- Godbey, M., 2001. The interdependence of photography and painting on the South West Africa expedition of James Chapman and Thomas Baines, 1861-62. *Kronos: journal of Cape history* 27 (1): 30-42.
- Gonzalez Estrada, A.J., 2022. The influence of illicit wildlife trafficking in security matters. The case of illicit trafficking of elephant ivory and rhino horn in Africa. Thesis presented to Arctic University of Norway: pp. 1-104.



Central Africa in the centre of Rotterdam. The rhino 'Kali' likes his young keeper Nasor bin Sef. Black rhino imported in 1931 with his African helper, a boy called Nasor. From newspaper *Rotterdamsch Nieuwsblad* 8 May 1931. This young black rhino was caught in the northern part of Tanganyika (Tanzania). Obtained from the animal dealer Christoph Schulz. This male lived 6 May 1931 to 3 May 1943 in Rotterdam Blijdorp Zoo.



African Rhinos – continued

- Goosen, W.J.; Clarke, C.; Kleynhans, L.; Kerr, T.J.; Buss, P.; Miller, M.A., 2022. Culture-Independent PCR detection and differentiation of Mycobacteria spp. in antemortem respiratory samples from African elephants (*Loxodonta africana*) and Rhinoceros (*Ceratotherium simum*, *Diceros bicornis*) in South Africa. *Pathogens* (www.mdpi.com/journal/pathogens) 11, 709: 1-16, <https://doi.org/10.3390/pathogens11060709>.
- Hooijberg, E.H.; Cray, C.; Steenkamp, G.; Buss, P.; Goddard, A.; Miller, M., 2020. Assessment of the acute phase response in healthy and injured Southern White rhinoceros (*Ceratotherium simum simum*). *Frontiers in Veterinary Science* 6 (Article 475) Jan 9: 1-10, 2 figures, 2 tables, doi:10.3389/fvets.2019.00475.
- Hope, M.E.; Moge, R.; Walker, S.L.; Edwards, K.L., 2022. Validating faecal thyroid hormones in the black rhinoceros (*Diceros bicornis*). *BIAZA Research Committee Conference July 2021: Book of Abstracts*: p. 18.
- Hyvärinen, O., 2022. Megaherbivores and Earth system functioning: Landscape-scale effects of white rhino loss on vegetation, fire and soil carbon dynamics. Thesis presented to the Swedish University of Agricultural Sciences, Umea, pp. 160.
- Isles, T.E., 2009. The socio-sexual behaviour of extant archosaurs: implications for understanding dinosaur behaviour. *Historical Biology* 21 (3-4): 139-214.
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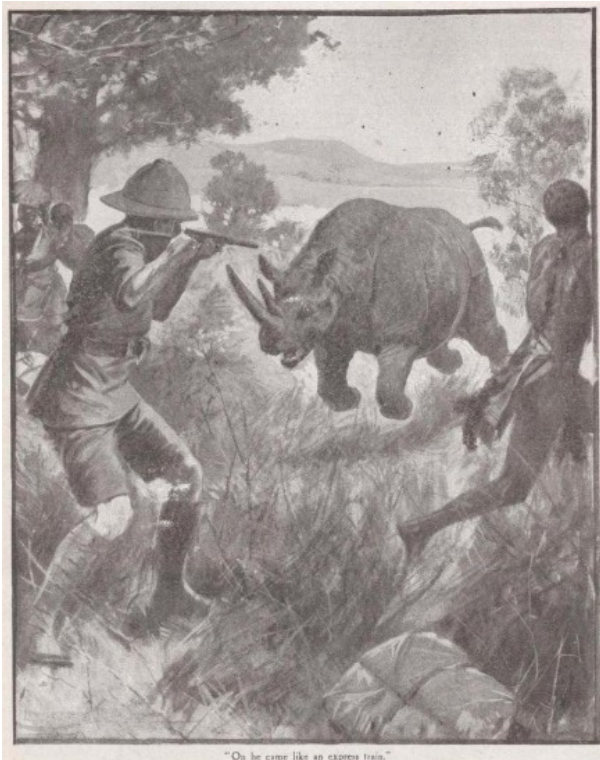


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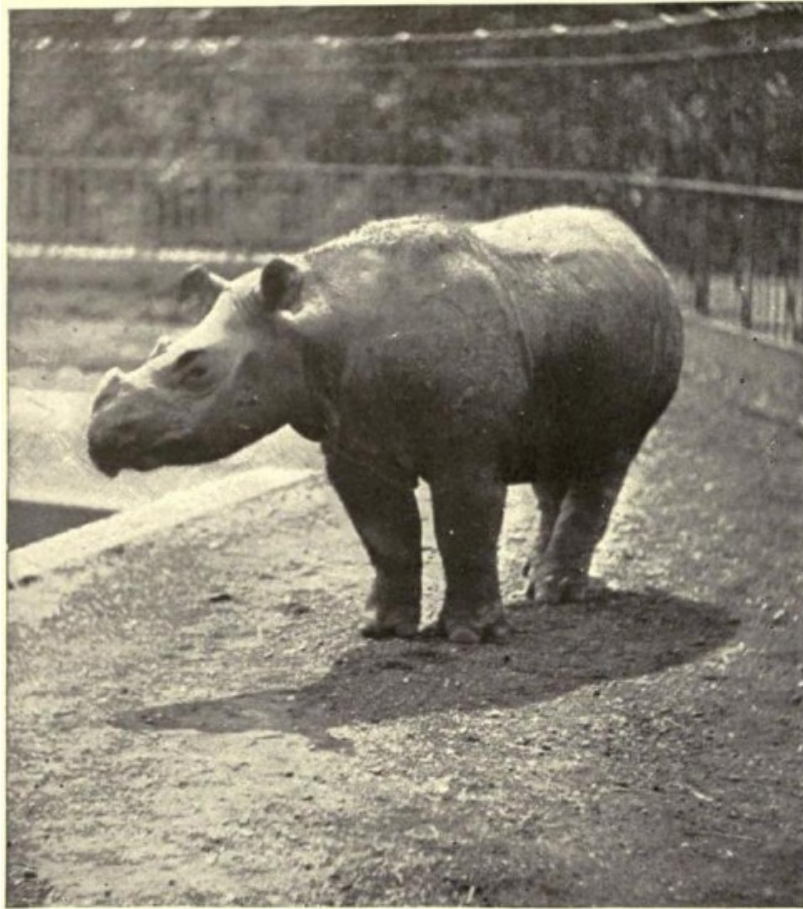
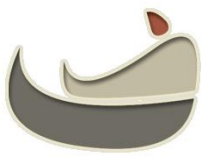
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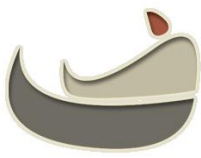
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