RHINO RESOURCE CENTER

www.rhinoresourcecenter.com

NEWSLETTER #65 DECEMBER 2021

Dear colleagues and friends,

This is the 65th issue of the quarterly e-newsletter of the Rhino Resource Center. Edited by Dr Kees Rookmaaker.

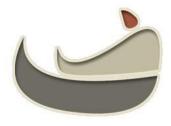
SUPPORT the RRC CLICK ON RHINO

The total number of references in the collection of the RRC now stands at **25,655**. This is an increase of 100 items in the last quarter. Over 25,000 references are available as PDF on the RRC website.

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The Rhino Resource Center is a Charity (Registered KvK Utrecht 30185802) Board Members: Tineke van Strien, Marjolein van Trigt, Dr. Kees Rookmaaker, Dr. Edgar Turner

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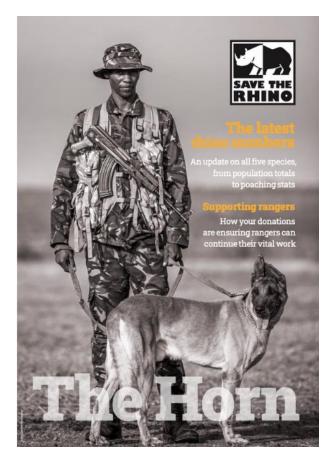
Emmanuel Billia (Italy) Jim Monson (France) Dan Ziegler (USA) Athanassios Athanassiou (Greece)

SAVE THE RHINO INTERNATIONAL published

THE HORN MAGAZINE for 2021

https://www.savetherhino.org/member/download/the-horn-magazine-2021/

As always a publication full of news and newsworthy stories. It takes the reader around the world of rhino conservation in Africa and Asia, and about the fund-raising efforts in Europe. The funds collected are carefully spent in a trustworthy effort to save all the species of rhinos.

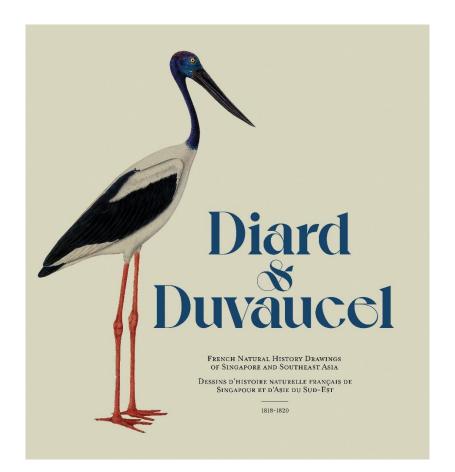


https://issuu.com/savetherhinointernational/docs/sr3421_thehorn21-v8-issu

The contents are available on the RRC including all issues of The Horn for the past years – a unique archive



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Diard & Duvaucel: French Natural History Drawings of Singapore and Southeast Asia (1818-1820)

This book of drawings was launched in Singapore on 12 November 2021 Access the video of the event <u>here</u> There are 120 drawings of various animals and a few plants. Mostly birds of the region.

The captions to the drawings were researched and written by KEES ROOKMAAKER

In the 1800s, two French naturalists named Pierre-Médard Diard and Alfred Duvaucel travelled to Singapore and other parts of Southeast Asia to collect and study the local flora and fauna. Knowing that it was important to supplement the specimens they sent back to scientists in Europe with sketches, Diard and Duvaucel commissioned artists to create hundreds of drawings of animals and plants at each of the locations they visited. Today, the Muséum National d'Histoire Naturelle in Paris houses 120 of these drawings, and the entire collection has been digitised and transferred to Singapore's National Library for safekeeping. Diard & Duvaucel is an initiative between the Embassy of France in Singapore and the National Library to celebrate the deep ties between France and Singapore, as well as the regional biodiversity. The stunning illustrations are accompanied by essays and captions written by curators and scientists.

https://epigrambookshop.sg/products/diard-duvaucel

ISBN: 9789814984072. Hardcover. 188 pages. Size: 280mm x 260mm.



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PACHYDERM – WE WELCOME SUBMISSIONS

https://pachydermjournal.org/

Call for papers

PACHYDERM is a journal dedicated to elephants and rhinos. It is a great venue to publish papers about researches and experiences in the field. There are a variety of options for submissions depending on length and subject.

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PACHYDERM AUTHOR GUIDELINES

Don't hesitate, we have a friendly team of editors, who want to hear from you today.





Postcard of Milwaukee Zoo, 1960s



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PACHYDERM NO. 62 – RELEASED IN OCTOBER 2021

CONTENTS: HTTPS://PACHYDERMJOURNAL.ORG/INDEX.PHP/PACHYDERM

Knight, M., 2021. African Rhino Specialist Group Chair report. *Pachyderm* 62: 16-28 Talukdar, B.K., 2021. Asian Rhino Specialist Group Chair report. *Pachyderm* 62: 29-34

- Badenhorst, S.; Ratshinanga, R.; Parrini, F.; Niekerk, K.L. van; Henshilwood, C.S., 2021.
 Rhinoceros from the Middle Stone Age in the Eastern and Western Cape of South Africa.
 Pachyderm 62: 53-62
- Dutta, D.K.; Bora, P.J.; Sharma, R.; Sarmah, A.; Sharma, A.;
 Kumar, J.; Dekaraja, K.S.; Saikia, R.B.; Halliday, A.,
 2021. Greater one-horned rhino (Rhinoceros unicornis) behaviour during high floods at Kaziranga National Park and the Burhachapori Wildlife Sanctuary, Assam, India. *Pachyderm* 62: 63-73
- Khayale, C.; Omondi, P.; Kariuki, L.; Muruthi, P.; Gichohi, N.; Stejskal, J.; Mulama, M.; Okita-Ouma, B.; Gaymer, J.; Chege, G.; Amin, R., 2021. Kenya's first White Rhino Conservation and Management Action Plan. *Pachyderm* 62: 112-118
- Das, Saureesh; Bhardwaj, R., 2021. Time series forecasting of greater one-horned rhinoceros poaching levels at Kaziranga National Park, Assam, India. *Pachyderm* 62: 119-127





- Pfannerstill, V.; Maboga, O.S., 2021. Not so solitary? White rhinos seek company when relaxed. *Pachyderm* 62: 130-134
- Patton, F., 2021. A rudimentary assessment of rhinoceros horn regrowth in Africa based on photographs. *Pachyderm* 62: 135-142
- Whitlatch, C., 2021. Fighting for their survival (International Rhino Foundation). *Pachyderm* 62: 146-147
- Kahumbu, P., 2021. Ian Lemaiyan: KWS bush pilot passionate about rhino conservation. *Pachyderm* 62: 148-149
- Church, J., 2021. Tribute to Colin Church. Pachyderm 62: 150-151
- Rookmaaker, L.C., 2021. Notice of Shibani Bose: Mega mammals in ancient India. *Pachyderm* 62: 145
- Rookmaaker, L.C., 2021. Review of George Dian Balan: The World As It Once Was. *Pachyderm* 62: 143-144

Rookmaaker, L.C., 2021. Early photographs of the greater one-horned rhinoceros (Rhinoceros unicornis) in the wild. *Pachyderm* 62: 98-104

Rookmaaker, L.C., 2021. Eponyms associated with the nomenclature of the recent species of rhinoceros. *Pachyderm* 62: 87-97.



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INCLUDED IN PACHYDERM 62 (OCTOBER 2021)

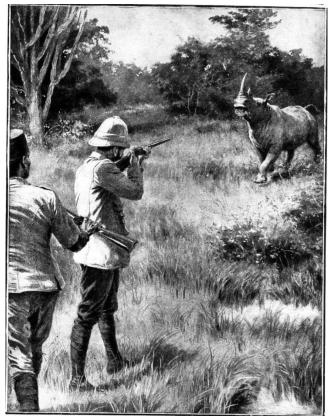
EPONYMS

ASSOCIATED WITH THE NOMENCLATURE OF THE RECENT SPECIES OF RHINOCEROS BY KEES ROOKMAAKER

https://pachydermjournal.org/index.php/pachyderm/article/view/450 free download of the pdf

Since 1758, a total of 16 eponyms have been described to honour explorers and taxonomists for the recent species of rhinoceros. This paper presents short biographies and the circumstances of the description of these names used in zoological nomenclature. The name *blythii* was named after Edward Blyth (1810–1873), *brucii* after James Bruce (1730–1794), *burchellii* after William John Burchell (1781–1863), Campbell's rhinoceros after John Campbell (1766–1840), *camperis, camperii, camperi* after Petrus Camper (1722–1789), *cottoni* after Percy Horace Gordon Powell-Cotton (1866–1940), *crossii* after Edward Cross (1774–1854), *floweri* after William Henry Flower (1831–1899), *gordoni* after Robert Jacob Gordon (1743–1795), *harrissoni* after Tom Harrisson (1911–1976), *holmwoodi* after Frederick Holmwood (d.1896), *jamrachi* after William Cotton Oswell (1818–1893).

15 historical figures of related rhino illustrations <u>Find it here</u>



Last to be discovered, first to be wiped out. The Nile rhinoceros named after Percy Horace Gordon Powell-Cotton.



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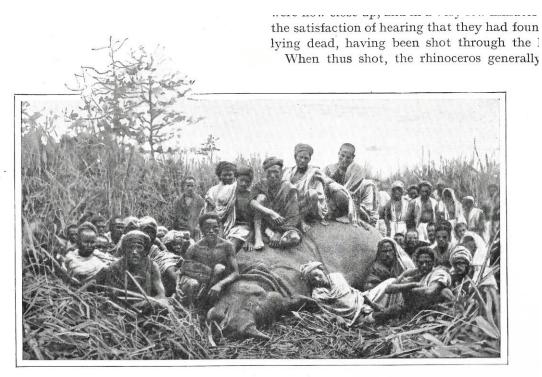
INCLUDED IN PACHYDERM 62 (OCTOBER 2021)

EARLY PHOTOGRAPHS OF THE GREATER ONE-HORNED RHINOCEROS (RHINOCEROS UNICORNIS) IN THE WILD BY KEES ROOKMAAKER

https://pachydermjournal.org/index.php/pachyderm/article/view/449 free download of the pdf

Despite recurrent obstacles in photographing animals in the wild, there are a few early examples. A dead rhinoceros shot in Assam by Wilfred Dakin Speer was photographed in 1862. An image of a living rhinoceros in Nepal was published in the Illustrated London News of 1906. This was followed by black and white photographs taken in 1909 by Victor Brooke of a rhinoceros attacking his elephant in 1911 during the tour of King George V in Nepal, and in 1923 by George Miller Dyott for the Vernay-Faunthorpe expedition of the American Museum of Natural History in New York. Those taken in 1932 by the Swedish photographer Bengt Berg in Jaldapara, West Bengal, are among the best of early attempts in the wild.

Some amazing examples, first dead rhino photographed in 1862 – first living rhino in the wild in 1906 – maybe the earliest, additions always welcome



RHINOCEROS SHOT BY THE LATE CAPTAIN SPEER IN ASSAM, 1862.

Find it here



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CLARA AT THE BARBER INSTITUTE IN BIRMINGHAM

NOW OPEN TO THE PUBLIC

Barber Institute of Fine Art, Birmingham 12 November 2021 to 27 February 2022 https://barber.org.uk/miss-clara/

Long before Grumpy Cat, Dolly the Sheep or Red Rum, there was Miss Clara, a female Indian rhinoceros who achieved an unprecedented level of fame during the 18th century.

Weighing in at around 5,000 lbs or 2268 kgs, Miss Clara disembarked in Rotterdam in 1741 after being transported from Bengal by an enterprising Dutch sea-captain, Douwe Mout van der Meer. She then began an extensive tour of many of Europe's major cities, travelling in a wooden carriage drawn by eight horses, her thick hide kept moist by the frequent application of fish oil. The first rhinoceros sighted in mainland Europe since 1579, Clara was feted wherever she was displayed – from Brussels to Venice, Paris to Prague, and Rome to Warsaw and London – where she died in 1758.

At each destination, Clara was viewed by kings, queens, courtiers and commoners. She inspired works of art and a lucrative trade in memorabilia – from luxury souvenirs such as clocks and paintings to medals, cheap popular posters and prints – and even hairstyles!

A small bronze sculpture – A Rhinoceros, called Miss Clara, cast in bronze after a model by Peter-Anton von Verschaffelt (1710 - 93) – commemorates this early celebrity pachyderm and is one of the most popular and intriguing works of art in the Barber's collection. It is the starting point for this autumn's lead exhibition – the first-ever major loan show devoted to Clara, and the latest of the Barber's acclaimed masterpiece-in-focus displays.

Spanning three centuries, the exhibition explores Clara's story in bronze and marble sculpture, from public and private collections across the UK, including the Victoria and Albert Museum, the Bowes Museum and the Rothschild Family Trust. It also features ceramics, coins, paintings, prints and drawings by major artists such as Dürer, Rembrandt, Hollar, Longhi and Oudry.

It also considers the emergence of menageries and zoos, and the significance of the capture and captivity of these big beasts within wider discussions of colonialism and empire. Other celebrity beasts sharing the spotlight including the elephants Hanno, Hansken, Jumbo and Chunee, and Obaysch, who in the 1850s became the first hippopotamus seen in Europe since Roman times.

The show will be accompanied by a richly illustrated full-colour paperback catalogue published by Paul Holberton Publishing.

https://barber.org.uk/miss-clara/

Clara's journey worked out in 1973:<u>Bijdragen tot de Dierkunde</u> Again in 1998: *Rhinoceros in Captivity*, <u>chapter 4</u>



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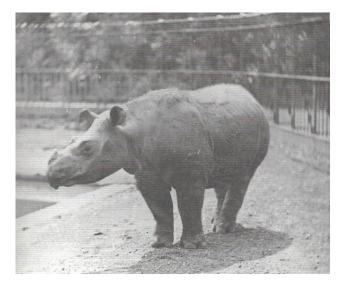


HISTORY OF THE CAPTIVE BREEDING PROGRAMS OF THE SUMATRAN RHINOCEROS 1984-2019 REPORT COMMISSIONED BY THE INTERNATIONAL RHINO FOUNDATION by Kees Rookmaaker

Now launched and available online: https://rhinos.org/blog/new-sumatran-rhino-sanctuary-to-be-built-in-northern-sumatra/

Find it here

Rookmaaker, L.C., 2019. The history of the captive breeding programs of the Sumatran Rhinoceros 1984-2019. Report to International Rhino Foundation, pp. 1-105





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OUR SPONSORS

The board and staff of the Rhino Resource Center gratefully acknowledge the support of our main sponsors:



SOS RHINO



INTERNATIONAL RHINO FOUNDATION



SAVE THE RHINO



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.



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CONTENTS OF THE RHINO RESOURCE CENTER

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

RRC	2020	2021	2021	2021	2021	ANNUAL
	Dec	March	June	Sept	Dec	INCREASE
References	24,952	25,110	25,270	25,555	25,655	+ 703
PDF files	24,936	25,054	25,240	25,535	25,625	+ 689
Images	4,589	4,603	4,641	4,670	4,675	+ 86

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.

RRC VISITORS

During three months September to November 2020, <u>www.rhinoresourcecenter.com</u> the RRC recorded 43,200 total clicks (excluding robots).

This is 480 per day. Thank you for visiting the RRC

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 <u>DONATION</u> when you feel the RRC has helped your work.



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NEW LITERATURE

(finalized 30 November 2021)

In this quarter (September to November 2021), we have added 100 new references, to bring the total number of items in the database to **25,655**.

Of these, 25,625 or 99 percent are available as PDF and searchable.

Below I have listed new entries published in the 21st century 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 <u>RRC website</u> first, many papers are available there.

NEW GENERAL PUBLICATIONS

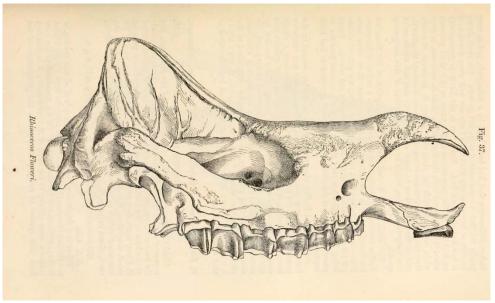
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- Chen, F.; t Sas Rolfes, M., 2021. Theoretical analysis of a simple permit system for selling synthetic wildlife goods. *Ecological Economics* 180 (106873): 1-11.
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- Dutta, D.K., 2021. Pachyderm pal: Dr Kees Rookmaaker. *Assam Tribune* 7 November 2021.
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- Liu, S.; Dalen, L.; Gilbert, T.; Rookmaaker, L.C.; and 35 others, 2021. Ancient and modern genomes unravel the evolutionary history of the rhinoceros family. *Cell* 184: 4874–4885 - https://doi.org/10.1016/j.cell.2021.07.032.
- Low, M.E.Y.; Lim, K.K.P.; Ng, P.K.L., 2021. The first Singapore biodiversity expedition: the legacy of Pierre-Médard Diard and Alfred Duvaucel. In: Dorai, F.; Low, M.E.Y., Diard & Duvaucel: French natural history drawings of Singapore and Southeast Asia, 1818-1820. Singapore, Epigram: pp. 36-51.



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General – continued

- Rookmaaker, L.C., 2019. *The history of the captive breeding programs of the Sumatran Rhinoceros 1984-2019.* Report commissioned by the International Rhino Foundation, pp. 1-105.
- Rookmaaker, L.C., 2021. Early photographs of the greater one-horned rhinoceros (Rhinoceros unicornis) in the wild. *Pachyderm* 62: 98-104.
- Rookmaaker, L.C., 2021. Eponyms associated with the nomenclature of the recent species of rhinoceros. *Pachyderm* 62: 87-97.
- Rookmaaker, L.C., 2021. Notice of Shibani Bose: Mega mammals in ancient India. *Pachyderm* 62: 145.
- Rookmaaker, L.C., 2021. Review of George Dian Balan: The World As It Once Was. *Pachyderm* 62: 143-144.
- Rookmaaker, L.C., 2021. The Diard and Duvaucel collection of drawings. In: Dorai, F.; Low, M.E.Y., Diard & Duvaucel: French natural history drawings of Singapore and Southeast Asia, 1818-1820. Singapore, Epigram: pp. 53-179.
- Rookmaaker, L.C.; Rhino Resource Center; Ziegler, D.; Billia, E.M.; Monson, J.; Strien, W. van; Athanassiou, A., 2021. New literature in the Rhino Resource Center. Electronic Newsletter of the Rhino Resource Center no. 64 (September): 1-20.
- Save The Rhino International, 2021. *The impact of zoos on rhino conservation*. London, SRI, pp. 1-30.
- Thompson, L., 2020. *Rhinoceros: the haunting of Ganda*. Cornwall, Broken Sleep Books, pp. 1-83.
- Whitlatch, C., 2021. Fighting for their survival (International Rhino Foundation). *Pachyderm* 62: 146-147.
- Wildlife Justice Commission, 2019. A preliminary analysis of raw rhino horn prices in Africa and Asia. New York, WJC, pp. 1-8.



Skull of Rhinoceros floweri, named after William Henry Flower (1831–1899)



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NEW PUBLICATIONS ON AFRICAN RHINOS

- Anderson, N., 2021. Zimbabwe: One + one. *The Horn (Save the Rhino International)* 2021: 14-15.
- Anonymous, 2021. Rhinos at Loisaba. Kenya, Loisaba Conservancy, pp. 1-8
- Badenhorst, S.; Ratshinanga, R.; Parrini, F.; Niekerk, K.L. van; Henshilwood, C.S., 2021. Rhinoceros from the Middle Stone Age in the Eastern and Western Cape of South Africa. *Pachyderm* 62: 53-622
- Brenner, E.E.; Capiro, J.; Terry, C.M.; Howard, L.L., 2021. A review of parturition parameters of three species of captive rhinoceros: white rhinoceros (Ceratotherium simum), black rhinoceros (Diceros bicornis) and greater onehorned rhinoceros (Rhinoceros unicornis). *Proceedings of the American Association of Zoo Veterinarians (AAZV)* 2021: 39-40.
- Church, J., 2021. Tribute to Colin Church. Pachyderm 62: 150-151.
- Cooke, J.; Druce, D.J., 2021. How do you indetify black rhinos. *The Horn (Save the Rhino International)* 2021: 25.
- Ferreira, S.; Dziba, L., 2021. Where are rhinos safest? *South African Journal of Science* 117, art. #11300: 1-3 https://doi.org/10.17159/sajs.2021/11300.
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- Gaymer, J., 2021. Kenya: Water, the essence of life on Ol Jogi. *The Horn (Save the Rhino International)* 2021: 10.
- Gaymer, J., 2021. Kenya: zero rhino poaching. *The Horn (Save the Rhino International)* 2021: 9.
- Goosen, E.J., 2021. South Africa: Every dog has its day. *The Horn (Save the Rhino International)* 2021: 24.
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Löwen im Kampfe mit einem Bashorn. Don Wilhelm Kuhnert Münchener Jahres-Ausstellung 1890



issue no. 65



Eastwood 1903

African Rhinos - continued

- Hagenah, N.; Prins, H.H.T.; Olff, H., 2009. Effects of large herbivores on murid rodents in a South African savanna. *Journal of Tropical Ecology* 25: 483-492 doi:10.1017/S0266467409990046.
- Hall, T., 2021. Namibia: mules on a mission. *The Horn (Save the Rhino International)* 2021: 18.
- Hill, D., 2021. Kenya: Supporting rangers and their families. *The Horn (Save the Rhino International)* 2021: 12.
- Jones, B., 2021. Fake rhino horns were supposed to foil poachers. What went wrong?. Vox News Online 22 October 2021: 1-4.
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- Khayale, C.; Omondi, P.; Kariuki, L.; Muruthi, P.; Gichohi, N.; Stejskal, J.; Mulama,
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- Kotting, B., 2021. Namibia: rhino custodians. *The Horn (Save the Rhino International)* 2021: 19.
- Linn, S.N., 2021. What the rhino's voice tells: Information encoded in the vocalizations of Southern White Rhinoceros (Ceratotherium simum simum). Thesis presented to Gottfried Wilhelm Leibniz Universität, Hannover, pp. 1-168
- Martens, R., 1970. The White rhinos of Milwaukee. American Association of Zoo Keepers Bulletin 3 (7-8) July-Aug: 1-3.
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African Rhinos – continued

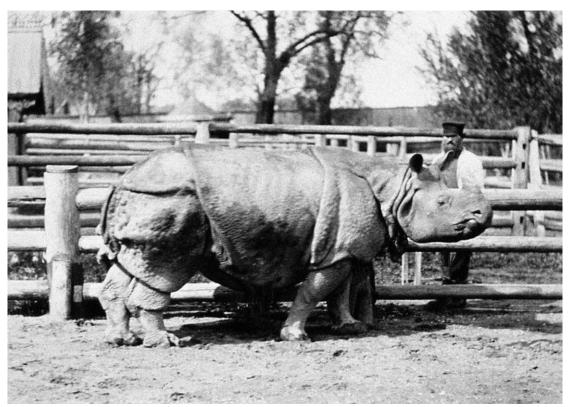
- Missier, S. del, 2021. Non-invasive monitoring of the reproductive cycle in the white rhino at Le Cornelle Wildlife Park: estrogen and progesterone fecal metabolite analysis. Thesis presented to the University of Parma, pp. 1-123.
- Parsons, I., 2021. Kenya: Borana's third generation. *The Horn (Save the Rhino International)* 2021: 11.
- Patton, F., 2021. A rudimentary assessment of rhinoceros horn regrowth in Africa based on photographs. *Pachyderm* 62: 135-142.
- Paula Santos, S. de; Pavan, W.D.; Caetano Caldeira, F.M., 2021. A relação entre nutrição e sobrecarga de ferro em rinoceronte-negro – Diceros bicornis Linnaeus, 1758. Anais da VII Semana de Integração Ensino, Pesquisa e Extensão, 22 a 26 de novembro 2021, pp. 1-4.
- Pfannerstill, V.; Maboga, O.S., 2021. Not so solitary? White rhinos seek company when relaxed. *Pachyderm* 62: 130-134.
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Francia Aosta Viaggi 1913



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Postcard from Moscow Zoo

NEW PUBLICATIONS ON ASIAN RHINOS

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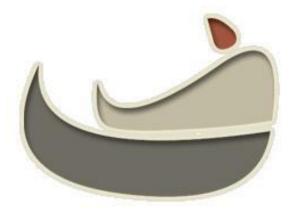
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Contact us:

Rhino Resource Center Dr Kees Rookmaaker - Email: rhinorrc [at] gmail.com

Dr Kees Rookmaaker has actively worked on the biology and history of the rhinoceros for 50 years. He is a member of the IUCN-SSC Asian Rhino Specialist Group, and advisor to the EAZA Rhino TAG and to the International Rhino Foundation. He is the editor of the rhino section of <u>Pachyderm</u>. Author of eight books on African and Asian exploration and on the rhinoceros, as well nearly 250 shorter publications, many in peer-reviewed journals. Until 2015, he worked as a Senior Research Fellow on <u>Darwin Online</u> and <u>Wallace Online</u> at the National University of Singapore. He was Secretary of the International Commission on Zoological Nomenclature (ICZN) for a short period in 2015. The Society for the History of Natural History awarded him their Founder's Medal, and he served in the Council for several years.

CHRONICLES OF THE RHINOCEROS IN SOUTH ASIA YOU CAN STILL HELP

This is a new project to review and archive the historical information on the interaction between men and rhinoceros in the South Asian subcontinent. There is much amazing information in all kinds of publications, as well as data on rhino trophies and specimens in museums and private collections. I am particularly excited about some of the older artwork and photographs which can still be found.

- Pictures of any rhinoceros in art or alive in Indian subcontinent
- → Historical photographs of rhinos hunted or seen before 1970
- Carta on trophies and specimens in museums and private collections

All contributions are always welcome

Kees Rookmaaker – 2021