

## RHINO RESOURCE CENTER

[www.rhinoresourcecenter.com](http://www.rhinoresourcecenter.com)

### NEWSLETTER #37 NOVEMBER 2014

Dear colleagues and friends,

This is the 37th 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 19,134. This is an increase of 273 items in the last quarter.  
**Over 18,700 references are available as PDF on RRC website**



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The Rhino Resource Center is a Charity (Registered KvK Utrecht 30185802)  
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Founding Chairman: Dr. Nico J. van Strien



#### OUR EXECUTIVE TEAM

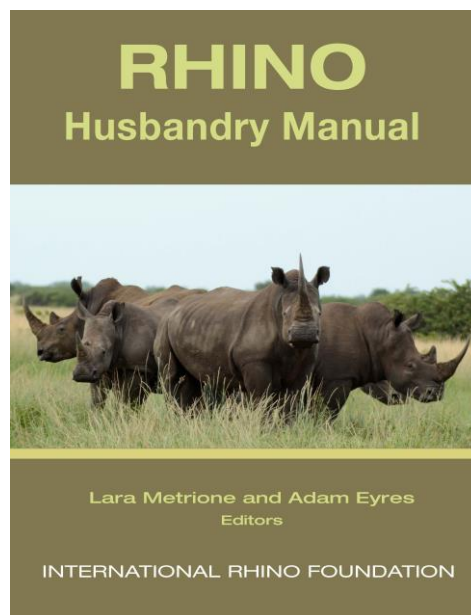
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### **IRF PUBLISHES A NEW *RHINO HUSBANDRY MANUAL***

The International Rhino Foundation is pleased to announce the release of a new, updated *Rhino Husbandry Manual* to guide health, nutrition, training, enrichment, exhibit design and behavior management for rhinos in managed breeding situations. The manual provides a single source for guidance on management for all four species now present in breeding centers: black, white, greater one-horned and Sumatran rhinos. Edited by Lara Metrione and Adam Eyres, the new document builds on the *Rhino Husbandry Manual* first published by the Fort Worth Zoo's Mike Fouraker and Tarren Wagener and in the late 1990s. More than 300 pages with 26 contributing authors, including members of the AZA Rhino Advisory Group, the new *Rhino Husbandry Manual* is an updated, "go to" document for all questions about rhino care. It is an invaluable resource for keepers, curators and zoo directors.



Published by the International Rhino Foundation, the manual can be downloaded at <http://bit.ly/husbandrymanual>. Each section listed in the Table of Contents can be accessed with one quick click from the bookmark list when the file is opened in Acrobat Reader. Several important supplementary documents referenced in the manual are hyperlinked for easy downloads. A living document, the manual will be updated as more and more is learned about the biology and husbandry of rhinos.



## STEPHEN BELCHER PHOTOGRAPHS THE JAVAN RHINO IN THE WILD

<http://www.stephenbelcher.net/gallery.asp?cat=145>



Photographs of the Javan Rhinoceros are rare, and good ones are even rarer. The wildlife photographer Stephen Belcher visited Ujung Kulon earlier this year, and was able to add some amazing images to his oeuvre. The results of his expedition are on his website, together with information on use and purchase.

## AARANYAK WINS INDIRA GANDHI PARYAVARAN PURASKAR

Bibhak Kumar Talukdar is not only the Chair of the Asian Rhino Specialist Group, but also CEO and General Secretary of [Aaranyak](#). This is an Assam based organisation fighting for the conservation of local wildlife through many different programs. The award is highly competitive and it is a great reward to the dedicated team of scientists and environmentalists in Aaranyak. Congratulations!

## AN OLD APRIL FOOL'S DAY HOAX

A young teenager named Battalus lives in a small town in Germany. One day he hears a rumour that a rhinoceros is exhibited in an Inn “Die Goldene Löwe” at the edge of town. His father forbids him to go and see the animal because it is far too dangerous and might well harm the boy. Not heeding the advice, Battalus makes his way to the inn with a group of friend. The innkeeper tells them that the Dutch owners have just left to see the town, but will be back shortly to show their rhinoceros. Many people gather and wait for the return of the Dutchmen. When nothing happens for a long time and the crowd becomes impatience, the innkeepers asks for attention and advises the people to check their calendar. It is the first of April – hence the rhinoceros was part of a hoax.

On first inspection, it sounded like a story connected with the travels of the Dutch rhinoceros in the 1740s. Not so, however, because the book was published as early as 1691 – at a time when no rhinoceros had ever traveled through the German countryside as far as we know. The first April Fool’s Day with a rhinoceros.

Printz, W.C., 1691. [Musicus Curiosus](#), oder Battalus, der vorwitzige Musicant, in einer sehr lustigen, anmuthigen, unertichteten, und mit schonen Moralien durchspickten Geschichte vorgestellt von Mimnermo, des Battali guten Freunde. Freyburg.



## PACHYDERM 55 NOW PUBLISHED

*Pachyderm* is the Journal of the African Elephant, African Rhino and Asian Rhino Specialist Groups. The rhino section is edited by Kees Rookmaaker.

Recent issues are available online here:

<http://www.pachydermjournals.org/index.php/pachy>

or on this [link](#)

and of course on the RRC.

In this issue (on rhinos):

Knight, M.H., 2014. African Rhino Specialist Group Chair report.

Talukdar, B.K., 2014. Asian Rhino Specialist Group report.

Knight, M.H., 2014. Passing of a conservation icon (Anthony Hall-Martin 1946-2014).

Barman, R.; Choudhury, B.; Ashraf, NVK; Menon, V., 2014. Rehabilitation of greater one-horned rhinoceros calves in Manas National Park, a World Heritage Site in India.

Ferreira, S.; Hofmeyr, M.; Pienaar, D.; Cooper, D., 2014. Chemical horn infusions: a poaching deterrent or an unnecessary deception.

Nardelli, F., 2014. The last chance for the Sumatran rhinoceros?

Rookmaaker, L.C., 2014. Three rhinos on maps of India drawn in Faizabad in the 18th century.

## Pachyderm

January – June 2014

Number 55



The maps referred to in my note were drawn by an Indian artist working for the French diplomat and surveyor Colonel Jean-Baptiste-Joseph Gentil (1726–1799). Working at the court of Oudh in around 1770, an Atlas was produced which included some small figures of animals. Rhinos are found on three of these maps, as shown here on the representation of Bihar – where once, of course, rhinos used to occur in the wild.





## THE INTERNATIONAL RHINO KEEPER ASSOCIATION (IRKA)

[www.rhinokeeperassociation.org](http://www.rhinokeeperassociation.org)

### 2015 IRKA CALENDAR



The 2015 Calendar (with 12 selected rhino photographs) produced by the International Rhino Keeper Association is now on sale for \$27 (this includes shipping, both domestic & international): click on this [Link](#).

And the International Rhino Keeper Association is organising its next workshop in Chester, United Kingdom, 14 to 18 June 2015. An event which rhino keepers from across the world should not miss!



### SUMATRAN RHINO FIRST CAPTIVE BIRTH 1872

Kees Rookmaaker has just published in *Der Zoologische Garten*  
The birth of the first Sumatran Rhinoceros *Dicerorhinus sumatrensis* (Fischer, 1814) –  
London Docks 1872. *Zool. Garten* N.F. (2014) 83 (1-3),  
<http://dx.doi.org/10.1016/j.zoolgart.2014.07.001>



## OUR SPONSORS

The board and staff of the Rhino Resource Center gratefully acknowledge the support of our two main sponsors, the International Rhino Foundation and SOS Rhino.

A generous donation was received from the WWF Areas Programme.



INTERNATIONAL RHINO FOUNDATION



SOS RHINO



WWF AREAS

We receive regular donations from Save the Rhino International and Rhino Carhire.



SAVE THE RHINO



RHINO CARHIRE

We are grateful to all individuals who donate to the RRC to show their appreciation of our work.

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	2013 November	2014 February	2014 May	2014 August	2014 November	ANNUAL INCREASE
References	18,145	18,374	18,621	18,861	<b>19,134</b>	+ <b>989</b>
PDF files	17,663	17,900	18,173	18,431	<b>18,759</b>	+ <b>1096</b>
Images	3,272	3,369	3,419	3,464	<b>3,516</b>	+ <b>244</b>
Members	1,942	2,000	2,062	2,108	<b>2,193</b>	+ <b>251</b>

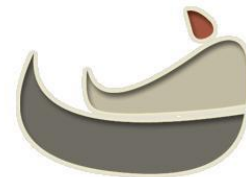
I thank everybody who has helped us by sending copies of books and papers.

All contributions are [acknowledged on the website](#).

### 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.



## AFRICAN ELEPHANT BIBLIOGRAPHY

<https://www.zotero.org/groups/ael/items>

The IUCN/SSC African Elephant Specialist Group has been working to put their bibliography of elephant conservation online: about 5000 references should be available. In time they are likely to surpass the RRC in numbers, as so much more is written on elephants than on rhinos.

The African Elephant Bibliography is an annotated list of references on the biology, ecology and management of the African elephant developed to facilitate the work of researchers, field staff and resource managers. The African Elephant Bibliography is now housed on Zotero as a group library and will continue to be updated by African Elephant Specialist Group Secretariat.

Anyone may browse the library. However, to download data you must be a member of the African Elephant Specialist Group or affiliated with them through research.



Historically, the rhinoceros and elephant were thought to be great enemies. From Gessner's Thierbuch of 1616.

## HEINZ-GEORG KLÖS PASSED AWAY

Director of the Zoo in Berlin from 1956 to 1991, Heinz-Georg Klös passed away on 28 July last. He always had a vivid interest in all species of rhinoceros and was proud of the history of Berlin in the exhibition of all species. He assisted me when I was compiling my book on the Rhinoceros in Captivity (1998) and together with his wife Ursula always encouraged me to visit the zoo. A tribute was written by his successor Bernhard Blaszkiewitz in Der Zoologische Garten. Saddened by the news.







## NEW LITERATURE (finalised 31 October 2014)

In this quarter (August to October 2014), we have added 273 new references, to bring the total number of items in the database to 19,134.

Of these, 18,759 or 98 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.

**This quarter saw the publication of some pivotal papers and reports,  
all well worth the attention for anybody interested in rhinos.  
Search for them on the RRC, it's easy.**

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

### NEW BOOKS AND GENERAL PUBLICATIONS

- Daniel, B.A.; Walker, S.R.; Pandian, S.R., 2014. *Rhino conservation teaching tool kit. Coimbatore, Zoo Outreach Organisation*, pp. 1-58
- Di Minin, E.; Laitila, J.; Montesino-Pouzols, F.; Leader-Williams, N.; Slotow, R.; Goodman, P.S.; Conway, A.J.; Moilanen, A., 2014. Identification of policies for a Sustainable Legal Trade in rhinoceros horn based on population projection and socioeconomic models. *Conservation Biology* 2014: 1-11
- Hauser, J., 2014. Transabdominal and transrectal ultrasound training in a chute. *The Crash* October 2014: 2-3
- International Rhino Keeper Association, 2013. *Zoo Keepers Calendar 2013*. San Diego
- International Rhino Keeper Association, 2014. *The Crash* October 2014: 1-13
- Lanza, E., 2014. The path of the unicorn: the image through the arts. Concord, St John International University (Catalog of the Exhibition)
- Metrione, L.; Eyres, A., 2014. *Rhino husbandry manual*. Fort Worth, TX, International Rhino Foundation, pp. 1-327
- Milliken, T., 2014. Illegal trade in ivory and rhino horn: An assessment report to improve law enforcement under the Wildlife Traps Project. Cambridge, Traffic, pp. 1-28
- Radcliffe, R.W.; Morkel, P.v.d.B., 2014. Rhinoceroses. In: West, G., Heard, D., Caulkett, N.: *Zoo Animal and Wildlife: Immobilization and Anesthesia*. Second edition. London, Blackwell: pp. 741-771

### NEW PUBLICATIONS ON AFRICAN RHINOS

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- Caro, T.; Riggio, J., 2014. Conservation and behavior of Africa's "Big Five". *Current Zoology* 60 (4): 486-499
- Chege, G., 2014. Technology for rhinos. *Newsletter Lewa Wildlife Conservancy* no. 36: 5



## African Rhinos – continued

Cinkova, I., 2013. Vocal and olfactory communication of the white rhinoceros. Progress report no. 2: pp. 1-12

Cinkova, I.; Policht, R., 2014. Discrimination of familiarity and sex from chemical cues in the dung by wild southern white rhinoceros. *Animal Cognition* DOI 10.1007/s10071-014-0810-8: 1-8

CITES, 2014. Directory of illegal trade in rhinoceros horn focal points. Notification to the Parties No. 2014/047 (15 october 2014), pp. 1-5



Illustrations of rhinoceros interacting with possible enemies are rare. Here and below are a few showing their reaction to big cats – no match for an adult but possibly a danger to the babies. From: Wagner, H. 1869. De warande. Utrecht.

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## African Rhinos – continued

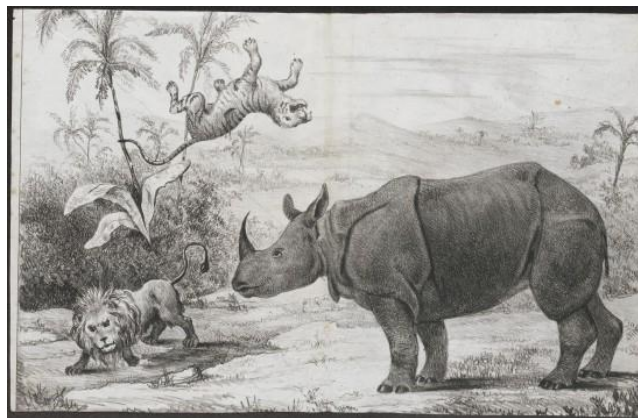
- Davies-Mostert, H.T., 2014. Overcoming barriers to understanding the biodiversity contribution of private ranchlands. *Animal Conservation* 17 (5): 399-400
- Dudley, R.J.; Wood, S.P.; Hutchinson, J.R.; Weller, R., 2014. Radiographic protocol and normal anatomy of the hind feet in the white rhinoceros (*Ceratotherium simum*). *Veterinary Radiology & Ultrasound* 2014: 1-9
- Edwards, Julie A.M., 2009. *Hokoyo: silent spoors & parting blades*. Johannesburg, Plains of Africa Safaris, pp. 1-264
- Edwards, K.L.; Shultz, S.; Pilgrim, M.; Walker, S., 2014. Irregular ovarian activity, body condition and behavioural differences are associated with reproductive success in female eastern black rhinoceros (*Diceros bicornis michaeli*). *General and Comparative Endocrinology* in press
- Ferreira, S.; Hofmeyr, M.; Pienaar, D.; Cooper, D., 2014. Chemical horn infusions: a poaching deterrent or an unnecessary deception?. *Pachyderm* 55: 54-61
- Haw, A.; Hofmeyr, M.; Fuller, A.; Buss, P.; Miller, M.; Fleming, G.; Meyer, L., 2014. Butorphanol with oxygen insufflation corrects etorphine-induced hypoxaemia in chemically immobilized white rhinoceros (*Ceratotherium simum*). *BMC Veterinary Research* 10(253): 1-9
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- Houszka, M.; Dzimira, S.; Krol, J.; Kandefer-Gola, M.; Ciaputa, R.; Sobieraj, L.; Podkowik, M., 2014. Streptococcal endocarditis in a captive southern white rhinoceros (*Ceratotherium simum simum*). *Journal of Zoo and Wildlife Medicine* 45 (3): 635-637
- Humphreys, J.; Smith, M.L.R., 2014. The 'rhinofication' of South African security. *International Affairs* 90 (4): 795-818
- Joubert, D. ; Kent, J., 2014. Rhinos without borders: a project of hope for the rhinos of southern Africa. Johannesburg, pp. 1-9
- Knight, M.H., 2014. African Rhino Specialist Group Chair report. *Pachyderm* 55: 6-19
- Knight, M.H., 2014. Passing of a conservation icon (Anthony Hall-Martin 1946-2014). *Pachyderm* 55: 110-111
- Kruger Park, 2010. Shocking rise in rhino poaching leads to formation of new unit. *Kruger Park Times* 6 (1): 3
- Labuschagne, C.; Kotze, A.; Grobler, J.P.; Dalton, D.L., 2014. Endonuclease V digestion for SNP discovery and marker development in South African white rhinoceros (*Ceratotherium simum*). *Conservations Genetics Resource* October 2014: pp. 1-4
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- Okita-Ouma, B., 2014. *Population densities of eastern black rhinoceros: unravelling the controls*. PhD thesis, Wageningen University, pp. 1-156
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- Pernetta, A.P., 2014. A disappearing drylands icon? White rhinoceros conservation and the need for public-private partnerships. *Biodiversity* 15 (2/3): 231-233
- Schwarz, C.; Grothmann, P.; Gottschalk, J.; Eulenberger, K.; Einspanier, A., 2014. Zuchtmanagement bei Spitzmaulnashörnern (*Diceros bicornis michaeli*) im Zoo Magdeburg. *Tierärztliche Praxis Großtiere* 2014 (3): 150-155
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- Waddington, 2014. *Decorative Arts Auction: Rhinoceros horn desk lamp, Carrington 1896*. Auction Catalogue
- Warren, J.D.; Aitken-Palmer, C.; Citino, S.B., 2014. Critical care for a hypothermic and hypoglycemic white rhinoceros (*Ceratotherium simum simum*) calf. *Journal of Zoo and Wildlife Medicine* 45 (3): 650-653
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- Watson, M., 2014. Finally, more space for Lewa's rhino. *Newsletter Lewa Wildlife Conservancy* no. 36: 3
- Wildlands Conservation Trust, 2014. [Notes]. *Rhino Reporter* August 2014: 1-10



Rhinoceros fighting a lion and throwing a tiger.  
Iconographia Zoologica, Artis Library, Amsterdam ([link](#))





## NEW PUBLICATIONS ON ASIAN RHINOS

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- Anonymous, 2014. On nature's trail [work of Aaranyak and Bibhab Talukdar for rhino conservation]. *Assam Tribune, Guwahati* 12 September 2014
- Anonymous, 2014. Vietnam today: Rx or RIP for rhinos. *Vietnam* 27 (3) October 2014: 3
- Barman, R.; Choudhury, B.; Ashraf, NVK; Menon, V., 2014. Rehabilitation of greater one-horned rhinoceros calves in Manas National Park, a World Heritage Site in India. *Pachyderm* 55: 78-88
- Basel Zoo; Houwald, F.von; Pagan, O.; Rieches, R., 2013. *International studbook for the greater one-horned or Indian rhinoceros, Rhinoceros unicornis, 31 December 2013*. Basel, Zoologischer Garten, pp. 1-66
- Christian, E., 2013. Silence is the loudest sound. Thesis presented to Honors College, University of Maine Paper 204, pp. 1-28
- Daniel, B.A., 2014. Rhino conservation education: methodology, evaluation and recommendations for future actions. *Zoo's Print Magazine* 29 (10): 13-16
- Department of Wildlife and National Parks (DWNP), Peninsular Malaysia, 2009. *Red list of mammals for Peninsular Malaysia*. Kuala Lumpur, pp. 1-159
- Ghosh, S.K.; Ghosh, P.R.; Mazumder, T.H.; Kshetrimayum, M., 2013. Development of species specific DNA Marker as barcode sequence of Greater Indian Rhinoceros [*Rhinoceros unicornis*] from Northeast India. *Journal of Environment and Sociobiology* 10 (1): 1-5
- Goswami, R.; Ganesh, T., 2014. Carnivore and herbivore densities in the immediate aftermath of ethno-political conflict: The case of Manas National Park, India. *Tropical Conservation Science* 7 (3): 475-487
- Heerebout, G., 2014. Een neushoorn in Middelburg. *Zeeland (Tijdschrift van het Zeeuwsch Genootschap der Wetenschappen)* 23 (3): 90-94
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- Nath, S.K., 2014. Vegetation and wildlife of Laokhowa Wildlife Sanctuary in Assam, India. *International Journal of Applied Biology and Pharmaceutical Technology* 3 (4): 248-253
- Parraman, C., 2014. Durer's Rhinoceros: Artists' approaches to reproducing texture in art. 50th Annual Convention of the Artificial Intelligence and Simulation of Behaviour (AISB), University of Goldsmiths, London, UK, 1-4 April 2014, pp. 1-2
- Putnam, A., 2013. Captive Sumatran Rhinoceros Population Modeling. San Diego Global, pp. 1-14
- Rookmaaker, L.C., 2014. The birth of the first Sumatran Rhinoceros *Dicerorhinus sumatrensis* (Fischer, 1814) – London Docks 1872. *Zoologische Garten* 83 (1/3): 1-16
- Rookmaaker, L.C., 2014. Three rhinos on maps of India drawn in Faizabad in the 18th century. *Pachyderm* 55: 95-96
- Talukdar, B.K., 2014. Asian Rhino Specialist Group report. *Pachyderm* 55: 20-22
- Thapa, S., 2014. A checklist of mammals of Nepal. *Journal of Threatened Taxa* 6 (8): 6061-6072



## Asian Rhinos – continued

- Thapa, V.; Acevedo, M.F.; Limbu, K.P., 2014. An analysis of the habitat of the Greater one-horned rhinoceros *Rhinoceros unicornis* (Mammalia: Perissodactyla: Rhinocerotidae) at the Chitwan National Park, Nepal. *Journal of Threatened Taxa* 6(10): 6313–6325
- Thayaparan, S., 2006. Population estimation, foraging ecology and nutrition of the free ranging Sumatran Rhinoceros in the Tabin Wildlife Reserve, Lahad Datu, Sabah, Malaysia. Thesis at Institute for Tropical Biology and Conservation, Universiti Malaysia Sabah.



Rhinoceros fighting off leopards.  
From: Gustav Canton, *Der Thiergarten*. Stuttgart 1854



## NEW PUBLICATIONS ON FOSSIL RHINOS

Section edited by Emmanuel Billia, Dan Ziegler and Athanassios Athanassiou.

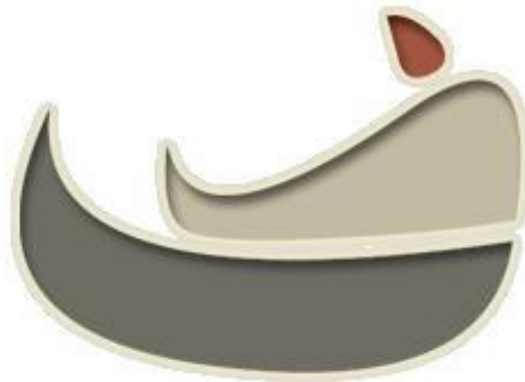
- Altuna, J., 2002. Los animales representados en el arte rupestre de la Península Ibérica. Frecuencias de los mismos - Animals represented in Iberian Peninsula cave art. How frequently are they each represented ?. *Munibe* (Antropología-Arkeología), San Sebastian 54: 21-33, 6 figs
- Athanassiou, A.; Roussiakis, S.J.; Giaourtsakis, I.X.; Theodorou, G.E.; Iliopoulos, G., 2014. A new hornless rhinoceros of the genus *Acerorhinus* (Perissodactyla: Rhinocerotidae) from the Upper Miocene of Kerassiá (Euboea, Greece), with a revision of related forms. *Palaeontographica* (A) 303 (1-3): 23-59
- Buynevich, I.V., 2014. Tracking extinct giants: pedobarometry and discovery potential of the largest land mammal (Indricotheriinae) and historic bird (Aepyornithidae) footprints. GSA Annual Meeting in Vancouver, British Columbia (19–22 October 2014) 2014, paper 131-14: 1
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