

# **An Annotated Bibliography of the Captive Husbandry, Breeding, Behavior, Veterinary Management and Trade of Tree Monitor Lizards (*Varanus prasinus* Complex)**

ROBERT W. MENDYK

*Department of Herpetology  
Jacksonville Zoo and Gardens  
370 Zoo Parkway  
Jacksonville, FL 32218*

*Department of Herpetology  
Smithsonian National Zoological Park  
3001 Connecticut Avenue NW  
Washington, D.C. 20001*

E-mail: mendykr@jacksonvillezoo.org

**Abstract – Members of the *Varanus prasinus* complex, commonly referred to as tree monitors, have been maintained in captivity since the 1960s. To date, seven of the nine recognized species comprising this group have been kept and reproduced in captivity. This bibliography provides an extensive compilation of published literature referencing this group in captivity, which should prove useful to zoos and private keepers currently keeping or looking to add representatives of this group to their collections, as well as researchers, veterinary personnel, and wildlife officials monitoring their trade and exploitation.**

## **Introduction**

There are currently nine recognized species of varanid lizard belonging to the *Varanus prasinus* species complex (Ziegler *et al.*, 2007), although the validity of one taxon, *V. telenesetes*, has recently been called into question (Koch *et al.*, 2014). Commonly referred to as tree monitors, representatives of this group have been known to science since the 19th century, with *V. prasinus* described by Schlegel in 1839, *V. beccarii* described by Doria in 1874 and *V. kordensis* by Meyer in 1874. Yet, unlike several other varanid species such as *V. niloticus*, *V. albigularis*, *V. griseus* and *V. salvator* which were displayed in zoos and kept in private collections throughout the 19th century (*e.g.*, Anonymous, 1883), it wasn't until the 1960s that living specimens of this group were first maintained in captivity. This absence of *V. prasinus* complex animals from living collections

was most likely due to a combination of factors, including their remote geographical origins within Indo-Australia, their difficulty to locate and collect in the wild, and the lack of a trade network or supply chain of live reptiles from this region at the time. Additionally, given their frailty and susceptibility to dehydration (Boyer & Boyer, 1997; Card, 1995; Hartdegen, 1997; Kirschner *et al.*, 1996; Salisbury, 2010), it is doubtful that living representatives would have survived the long oceanic transport from their home range to Europe or North America during the 19th and first half of the 20th century.

The earliest known representative to be kept in captivity was *V. prasinus*, with a single specimen acquired by German herpetologist Robert Mertens in 1960 (Mertens, 1971) that survived for 10 years

(Mertens, 1970). Since then and as additional species belonging to the complex were discovered and described (e.g., Böhme & Jacobs, 2001; Eidenmüller & Wicker, 2005; Jacobs, 2003), a total of seven species have been maintained in zoos and private collections: *V. beccarii*, *V. boehmei*, *V. keithhornei*, *V. kordensis*, *V. macraei*, *V. prasinus* and *V. reisingeri*. All seven of these taxa have successfully been reproduced in captivity, with some species, particularly *V. prasinus* bred to multiple generations (e.g., Baldwin, 2006; Lemm, 2014; Mendyk, 2012). Although the Convention on International Trade in Endangered Species (CITES) reported the export of several *V. bogerti* from Indonesia during the mid-1990s (CITES, 2015), such claims are highly dubious. Instead, it is likely that these individuals were either misidentified or intentionally mislabeled by traders to thwart or circumvent export restrictions and quotas for similar species within the *V. prasinus* complex, especially considering that *V. bogerti* is not indigenous to Indonesia, and its native Papua New Guinea prohibits the export of wildlife.

Published bibliographies on a particular subject or taxonomic group can be an invaluable resource to keepers and institutions seeking to maintain and reproduce reptiles in captivity. Unfamiliarity with literature on the biology, husbandry and veterinary management of a particular species or taxonomic group can prevent keepers from providing optimal conditions needed for their captives to thrive or inhibit the provision of key parameters needed for successful reproduction to occur. A general unfamiliarity with current and historical literature on the biology, keeping and breeding of varanid lizards has been observed among some keepers, including zoos, and may be contributing to some of the issues and challenges experienced with their care and breeding (Mendyk, 2015; Mendyk *et al.*, in press). Several published bibliographies have been compiled for varanid lizards (Bayless, 1996; Kenyon, 1995; Kronen, 1983); however, these accounts, now around two or more decades old, are grossly outdated and require extensive updating.

To date, no such compilation of literature has been presented for the *V. prasinus* complex, a particularly difficult group of varanids to maintain and breed in captivity (e.g., Aucone *et al.*, 2007; Mendyk, 2006). The following bibliography with accompanying annotations provides a compilation of references, organized by species, which pertain to the captive husbandry, breeding, behavior, veterinary management and trade of the *V. prasinus* complex, with the hopes of familiarizing keepers, researchers, veterinarians,

wildlife officials and general enthusiasts with the information presently available on this unique group of varanids. It should be noted that husbandry, breeding and veterinary information presented for one species may be applicable to other species within the complex given their remarkable similarities in size, morphology, ecology and captive requirements.

## References

- Anonymous. 1883. Family: Varanidae. Pp. 578-580. *In*: List of the Vertebrated Animals Now or Lately Living in the Gardens of the Zoological Society of London, Eighth Edition. Messers, Longmans, Green, Reader & Dyer, London.
- Aucone, B., V. Hornyak, S. Foley, D. Barber, K. Murphy, J. Johnson, J. Krebs, J. Kinkaid, R. Hartdegen & C. Peeling. 2007. Lizard Advisory Group (LAG) Regional Collection Plan. Association of Zoos and Aquariums. 73 pp.
- Baldwin, B. 2006. Successful care and reproduction of green tree monitors (*Varanus prasinus*) at the San Diego Zoo. *Iguana* 13(4): 283-287.
- Bayless, M.K. 1996. Bibliographie zum Thema Papuawaran (*Varanus [Papusaurus] salvadorii* Peters & Doria, 1878). *Monitor* 4(2): 38-40.
- Böhme, W. & H.J. Jacobs. 2001. *Varanus macraei* sp. n., eine neue Waranart der *V. prasinus*-Gruppe aus West Irian, Indonesien. *Herpetofauna* 23(133): 5-10.
- Boyer, D. & T.H. Boyer. 1997. Comments on husbandry and medical problems in captive varanids. *Varanids* 1(1): 4-11.
- Card, W.C. 1995. North American Regional Asian Forest Monitor Studbook. Dallas Zoo, Dallas. 79 pp.
- CITES. 2015. CITES Trade Database. <http://trade.cites.org>. Last accessed 15 November 2015.
- Eidenmüller, B. & R. Wicker. 2005. Eine weitere neue Waranart aus dem *Varanus prasinus*-Komplex von der Insel Misol, Indonesien. *Sauria* 27(1): 3-8.
- Hartdegen, R. 1997. Notes on the natural history and husbandry of the black tree monitor, *Varanus beccarii*. *Varanids* 1(1): 12-13.
- Jacobs, H.J. 2003. A further new emerald tree monitor lizard of the *Varanus prasinus* species group from Waigeo, West Irian (Squamata: Sauria: Varanidae). *Salamandra* 39(2): 65-74.
- Kenyon, K.A. 1995. Komodo dragon (*Varanus komodoensis*): A Bibliography. National Zoological Park Branch, Smithsonian Institution Libraries,

- Washington. 8 pp.
- Kirschner, A., T. Müller & H. Seufer. 1996. Faszination Warane. Kirshner & Seufer Verlag, Keltern-Weiler. 254 pp.
- Koch, A., N. Ernst, B. Eidenmüller & F. Kraus. 2014. New data on the rare *Varanus bogerti* Mertens, 1950 and *V. telenesetes* Sprackland, 1991 (Squamata: Varanidae), two endemic monitor lizard taxa from island groups off southern New Guinea. *Herpetological Journal* 24: 111-122.
- Kronen, D. 1983. A preliminary bibliography of the Varanidae to 1974. *Bulletin of the Chicago Herpetological Society* 18(3/4): 96-110.
- Lemm, J. 2014. Keen on green: Natural history and captive husbandry of green tree monitors (*Varanus prasinus*). *Herp Nation* 16: 32-39.
- Mendyk, R.W. 2006. Keeping the green tree monitor: A herpetological gem. *Reptiles* 14(8): 44-53.
- Mendyk, R.W. 2012. Reproduction of varanid lizards (Reptilia: Squamata: Varanidae) at the Bronx Zoo. *Zoo Biology* 31(3): 374-389.
- Mendyk, R.W. 2015. Life expectancy and longevity of varanid lizards (Reptilia: Squamata: Varanidae) in North American zoos. *Zoo Biology* 34: 139-152.
- Mendyk, R.W., M. Baumer, L. Augustine & E.S. Herrelko. *In press*. A comparative assessment of varanid lizard thermal husbandry in zoos and private collections: Disparate ideologies or a paradigm disconnect? *Proceedings of the Interdisciplinary World Conference on Monitor Lizards*.
- Mertens, R. 1970. Über die Lebensdauer einiger Amphibien und Reptilien in Gefangenschaft. *Der Zoologische Garten* 39(1/6): 193-209.
- Mertens, R. 1971. Über eine Waransammlung aus dem östlichen Neuguinea. *Senckenbergiana Biologica* 52(1/2): 1-5.
- Salisbury, H. 2010. Keeping and breeding green tree monitors. *Practical Reptile Keeping*, April: 17-20.
- Ziegler, T., A. Schmitz, A. Koch & W. Böhme. 2007. A review of the subgenus *Euprepiosaurus* of *Varanus* (Squamata: Varanidae): Morphological and molecular phylogeny, distribution and zoogeography, with an identification key for the members of the *V. indicus* and the *V. prasinus* species groups. *Zootaxa* 1472: 1-28.

### Bibliography of the *Varanus prasinus* Complex

A brief description of the content presented in each publication is provided at the end of each reference in brackets.

#### *Varanus beccarii*

- Anonymous. 1991. *Herp hot spots*. *Varanews* 1(3): 4. [brief mention of keeping at Lincoln Park Zoo]
- Anonymous. 1991. Captive breeding of *Varanus prasinus beccarii*. *Varanews* 1(7): 7. [documents successful reproduction at Fort Worth Zoo]
- Anonymous. 1997. From the incubator. *Rep-Tales*, Herpetology Department, Bronx Zoo, Summer 1997: 6. [documents successful breeding at Bronx Zoo]
- Anonymous. 1997. Species of wild animals bred in captivity during 1994 and multiple generation captive births. *Reptiles. International Zoo Yearbook* 35(1): 354-362. [documents breeding at Fort Worth Zoo]
- Anonymous. 2003. Zoological and Botanical Garden Pilsen Annual Report 2003: 20-21, xxxviii. [documents confiscated *V. beccarii* donated to Pilsen Zoo]
- Anonymous. 2008. Oakland Zoo hatches *Varanus beccarii*. *Biawak* 2(2): 58. [documents successful breeding at Oakland Zoo]
- Anonymous. 2008. Výroční Zpráva 2008. Unie Českých a Slovenských Zoologických Zahrad. 219 pp. [documents successful reproduction at Pilsen Zoo]
- Aucone, B., V. Hornyak, S. Foley, D. Barber, K. Murphy, J. Johnson, J. Krebs, J. Kinkaid, R. Hartdegen & C. Peeling. 2007. Lizard Advisory Group (LAG) Regional Collection Plan. Association of Zoos and Aquariums. 73 pp. [provides census numbers in North American zoos and notes difficulties in raising offspring, high

- mortality]
- Auliya, M. 2003. Hot trade in cool creatures: A review of the live reptile trade in the European Union in the 1990s with a focus on Germany. Traffic Europe, Brussels, Belgium. 105 pp. [trade, mentions *V. beccarii* high in demand in the EU]
- Bayless, M.K. 1997. Increases in breeding. *Varanids* 1(1): 3. [documents successful reproduction]
- Bennett, D. 1998. Monitor Lizards: Natural History, Biology and Husbandry. Edition Chimaira, Frankfurt am Main. 352 pp. [describes general husbandry, documentation of reproduction, behavior]
- Biebl, H. 1994. Erfolgreiche Nachzucht von Beccar's Smaragdwaran (*Varanus [Euprepiosaurus] prasinus beccarii*). *Monitor* 3(1): 37-40. [describes husbandry and successful reproduction]
- Bosch, H. 1996. Schwarze smaragdwarane: *Varanus beccarii* im Löbbecke Museum und Aquazoo Düsseldorf. *TI Magazin* 131: 64-65. [describes husbandry]
- Bosch, H. 1998. Smaragdwarane- Schmuckstücke im Terrarium. *Die Aquarien- und Terrarien Zeitschrift* 51(2): 108-111. [describes husbandry]
- Boyer, D. & T.H. Boyer. 1997. Comments on husbandry and medical problems in captive varanids. *Varanids* 1(1): 4-11. [details veterinary considerations, dehydration]
- Card, W.C. 1995. North American Regional Asian Forest Monitor Studbook. Dallas Zoo, Dallas. 79 pp. [census of animals in North American Zoos]
- Card, W. 1995. Monitor lizard husbandry. *Bulletin of the Association of Reptilian and Amphibian Veterinarians* 5(3): 9-17. [describes general husbandry]
- Card, W. 1995. Monitor lizards: This man's best friends. *Tropical Fish Hobbyist* 44(1): 148-163. [describes general husbandry]
- Card, W. 1994. A reproductive history of monitors at the Dallas Zoo. *Vivarium* 6(1): 26-27, 44, 46-47. [describes husbandry and breeding]
- Egorova, L.V. 2006. Moscow Zoo 2005 Annual Report. Moscow State Zoological Park, Moscow. 279 pp. (*In Russian*) [documents *V. beccarii* being kept in Moscow Zoo collection]
- Eidenmüller, B. 1992. Einige Bemerkungen über die Zeitungsparamater von Warangelegen. *Monitor* 1(1): 14-20. [describes general husbandry and breeding information]
- Eidenmüller, B. 1996. Keeping and breeding the Aru black tree monitor. *Reptiles* 4(12): 76-83. [describes husbandry and successful reproduction]
- Eidenmüller, B. 1997. Warane: Lebensweise, Pflege, Zucht. Herpeton Verlag, Offenbach. 157 pp. [describes general husbandry and breeding information]
- Eidenmüller, B. 1997. The monitor family. Pp. 35-46. *In: Wilkie, A.H. (ed.), Proceedings of the 1997 International Herpetological Society Symposium. International Herpetological Society.* [describes general husbandry and breeding information]
- Eidenmüller, B. 1998. Bemerkungen zur Haltung und Nachzucht von *Varanus p. prasinus* (Schlegel, 1839) und *Varanus p. beccarii* (Doria, 1874). *Herpetofauna* 20(112): 8-13. [describes husbandry and successful reproduction]
- Eidenmüller, B. 2007. Monitor Lizards: Natural History, Captive Care & Breeding. Edition Chimaira, Frankfurt am Main, 176 pp. [describes general husbandry and breeding information]
- Eidenmüller, B. 2009. Warane: Lebensweise, Pflege, Zucht. Herpeton Verlag, Offenbach. 207 pp. [describes husbandry and breeding]
- Eidenmüller, B. & R. Wicker. 1993. *Varanus (Odatria) prasinus beccarii* (Doria, 1874), Pflege und Zucht. *Salamandra* 28(3/4): 171-178. [describes husbandry, successful reproduction, medical issues and mortality]
- Fischer, D. 2012. Notes on the husbandry and breeding of the black tree monitor *Varanus (Euprepiosaurus) beccarii* (Doria, 1874). *Biawak* 6(2): 79-87. [describes husbandry and successful reproduction; also incubation difficulties and egg repair]
- Fost, M. 1991. Southeast Asia in southeast USA. *Varanews* 1(5): 5. [brief mention of *V. beccarii* being kept at Zoo Atlanta]
- Gamble, K.C. & R. Hartdegen. 2000. What's your diagnosis? *Journal of Herpetological Medicine and Surgery* 10(2): 31-32. [describes veterinary treatment for dystocia]
- Garner, M.M. 2008. A retrospective study of disease in monitor lizards (*Varanus* spp.). *Proceedings of the Association of Reptilian and Amphibian Veterinarians* 2008: 1-2. [brief veterinary synopsis of diseases]
- Garrett, C.M. & M.C. Peterson. 1991. *Varanus prasinus beccarii*. (NCN). *Behavior. Herpetological Review* 22(3): 99-100. [describes nest-guarding behavior]
- Greve, J.H. 1996. An anomaly (Gynandromorphism) in *Abbreviata* sp. (Nematoda: Physalopteridae). *Journal of the Helminthological Society of*



- Washington 63(2): 261-262. [veterinary report, describes parasite]
- Hartdegen, R. 1997. Notes on the natural history and husbandry of the black tree monitor, *Varanus beccarii*. *Varanids* 1(1): 12-13. [describes husbandry and behavior]
- Hartdegen, R.W. 1999. Herpetoculture of the black tree monitor, *Varanus beccarii*. *Vivarium* 10(6): 20-22. [provides husbandry and breeding information]
- Hartdegen, R.W. 2000. 1999 Asian Forest Monitor North American Regional Studbook. Dallas Zoo, Dallas. 144 pp. [census of animals in North American Zoos]
- Hartdegen, R.W. 2002. 2002 Asian Forest Monitor North American Regional Studbook. Dallas Zoo, Dallas. 123 pp. [census of animals in North American Zoos]
- Hartdegen, R. 2013. Black tree monitor *Varanus beccarii*. Pp. 50-52. *In*: Aucone, B. & C. Peeling (eds.), Regional Collection Plan. AZA Lizard Advisory Group. Association of Zoos and Aquariums, Silver Spring. [describes husbandry, mortality, challenges to captive zoo population]
- Hartdegen, R.W., D. Chiszar & J.B. Murphy. 1999. Observations on the feeding behavior of captive black tree monitors, *Varanus beccarii*. *Amphibia-Reptilia* 20(3): 330-332. [description of feeding behavior]
- Hartdegen, R.W., D.T. Roberts & D. Chiszar. 2000. Laceration of prey integument by *Varanus prasinus* (Schlegel, 1839) and *V. beccarii* (Doria, 1874). *Hamadryad* 25(2): 196-198. [description of feeding behavior]
- Hellmuth, H., L. Augustine, B. Watkins & K. Hope. 2012. Using operant conditioning and desensitization to facilitate veterinary care with captive reptiles. *Veterinary Clinics of North America: Exotic Animal Practice* 15: 425-443. [general discussion of operant conditioning and training]
- Holmstrom, W. 1993. Foraging behavior in the black tree monitor, *Varanus prasinus beccarii*. *Varanews* 3(5): 4. [description of foraging behavior]
- Horn, H.-G. 1999. Evolutionary efficiency and success in monitors: A survey on behavior and behavioral strategies. Pp. 167-180. *In*: Horn, H.-G. & W. Böhme (eds.), *Advances in Monitor Research II*, Mertensiella 11. Deutsche Gesellschaft für Herpetologie und Terrarienkunde e.V., Rheinbach. [describes behavior]
- Horn, H.-G. & G.J. Visser. 1991. Basic data on the biology of monitors. Pp. 176-187. *In*: Böhme, W. & H.-G. Horn (eds.), *Advances in Monitor Research*, Mertensiella 2. Deutsche Gesellschaft für Herpetologie und Terrarienkunde e.V., Rheinbach. [presents reproductive, length and weight data]
- Horn, H.-G. & G.J. Visser. 1997. Review of reproduction of monitor lizards *Varanus* spp. in captivity II. *International Zoo Yearbook* 35: 227-246. [describes general husbandry, documentation of successful reproduction]
- Hudson, R., A. Alberts, S. Ellis & O. Byers. 1994. Conservation Assessment and Management Plan for Iguanidae and Varanidae. AZA Lizard Taxon Advisory Group & IUCN/SSC Conservation Breeding Specialist Group, Apple Valley. 247 pp. [discusses trade; also documents cases of successful breeding]
- Kirschner, A., T. Müller & H. Seuffer. 1996. Faszination Warane. Kirshner & Seuffer Verlag, Keltern-Weiler. 254 pp. [description of husbandry, breeding, behavior and medical considerations]
- Klingenberg, R. 1999. Reptile vision: A view to survival. *Vivarium* 10(6): 12-15. [veterinary report – description of disease]
- Konáš, J. 2005. Cold-blooded animals. Pp. 30. *In*: Zoological and Botanical Garden Pilsen Annual Report 2005. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [documentation of successful reproduction at Pilsen Zoo]
- Konáš, J. 2006. Cold-blooded animals. Pp. 22-24, 37-38. *In*: Zoological and Botanical Garden Pilsen Annual Report 2005. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [documentation of successful reproduction at Pilsen Zoo]
- Konáš, J. 2007. Cold-blooded animals. Pp. 39. *In*: Zoological and Botanical Garden Pilsen Annual Report 2007. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [documentation of successful reproduction at Pilsen Zoo]
- Krebs, U. 1997. Ethologische Untersuchungsmöglichkeiten an Waranen (*Varanus* spp.) in menschlicher Obhut. *Monitor* 5(2): 22-36. [discusses potential for behavioral observations in captivity]
- Labenda, W. 2000. A trip to the Long Island Reptile Expo & Museum. *Reptile & Amphibian Hobbyist* 6(2): 44-48. [brief mention of *V. beccarii* in a large varanid zoo collection]
- Lemm, J.M. 2001. Die Aufgisten Warane im Tierhandel- Arten und Grundlagen der Haltung.

- Draco 7: 20-29. [describes general husbandry]
- Mendyk, R.W. 2012. Reaching out for enrichment in arboreal monitor lizards. *Animal Keepers' Forum* 39(1): 33-36. [describes foraging behavior and behavioral enrichment]
- Mendyk, R.W. 2012. Reproduction of varanid lizards (Reptilia: Squamata: Varanidae) at the Bronx Zoo. *Zoo Biology* 31(3): 374-389. [documents successful reproduction, reproductive data]
- Mendyk, R.W. 2015. Life expectancy and longevity of varanid lizards (Reptilia: Squamata: Varanidae) in North American zoos. *Zoo Biology* 34: 139-152. [provides data on life expectancy, longevity, mortality and husbandry]
- Mendyk, R.W. & H.-G. Horn. 2011. Skilled forelimb movements and extractive foraging in the arboreal monitor lizard *Varanus beccarii* (Squamata: Varanidae). *Herpetological Review* 42(3): 343-349. [describes foraging behavior, behavioral enrichment]
- Mendyk, R.W. & H.-G. Horn. 2011. Forelimb-assisted extractive foraging sheds new light on the behavioral complexity of arboreal varanid lizards. *Biawak* 5(3): 51-52. [describes foraging behavior, behavioral enrichment]
- Mendyk, R.W., A.L. Newton & M. Baumer. 2013. A retrospective study of mortality in varanid lizards (Reptilia: Squamata: Varanidae) at the Bronx Zoo: Implications for husbandry and reproductive management in zoos. *Zoo Biology* 32(2): 152-162. [provides data on mortality, pathology, husbandry]
- Mendyk, R.W., L. Augustine & M. Baumer. 2014. On the thermal husbandry of monitor lizards. *Herpetological Review* 45(4): 619-632. [describes husbandry, description of thermal biology]
- Murphy, J.B. 2007. *Herpetological History of the Zoo and Aquarium World*. Krieger, Malabar. 327 pp. [documentation of successful breeding at Buffalo Zoo]
- Murphy, J.B. 2015. Studies on lizards and tuataras in zoos and aquariums. Part II- Families Teiidae, Lacertidae, Bipedidae, Amphisbaenidae, Scincidae, Cordylidae, Xantusiidae, Anguinae, Helodermatidae, Varanidae, Lanthanotidae, Shinisauridae, Xenosauridae, and Sphenodontidae. *Herpetological Review* 46(4): 672-685. [discusses husbandry, behavior and breeding]
- Natusch, D.J.D. & J.A. Lyons. 2012. Exploited for pets: The harvest and trade of amphibians and reptiles from Indonesian New Guinea. *Biodiversity Conservation* 21: 2899-2911. [discusses illicit trade]
- Peavy, B. 2010. *Asian Forest Monitor 2010 North American Regional Studbook*, 4th Edition. Dallas Zoo, Dallas. 106 pp. [census of animals in North American zoos]
- Pedersen, K., A.-M. Lassen-Nielsen, S. Nordentoft & A.S. Hammer. 2009. Serovars of *Salmonella* from captive reptiles. *Zoonoses and Public Health* 56(5): 238-242. [veterinary report on salmonellosis]
- Pernetta, A.P. 2009. Monitoring the trade: Using the CITES database to examine the global trade in live monitor lizards (*Varanus* spp.). *Biawak* 3(2): 37-45. [report on trade]
- Purser, P. 2014. A monitor foursome. *Reptiles* 22(1): 38-45. [describes general husbandry]
- Spitsin, V.V. (ed.). 2012. Breeding of wild and some domestic animals at regional zoological institutions. Information on the Zoological Collections 2012. Informational Issue of the Eurasian Regional Association of Zoos & Aquariums 31: 40-41, 261-264. (*In Russian*) [documentation of *V. beccarii* being kept in Eurasian zoos]
- Sprackland, R.G. 1991. The emerald monitor lizard, *Varanus prasinus*. *Tropical Fish Hobbyist* 39(8): 110-114. [documents early specimens in the trade]
- Sprackland, R.G. 1991. *Giant Lizards*. TFH Publications, Neptune. 288 pp. [describes husbandry]
- Sprackland, R.G. 1993. Carnivorous lizards and their diet. *Vivarium* 5(5): 12-14. [describes general husbandry, diet information]
- Sprackland, R.G. 2009. *Giant Lizards*, 2nd Ed. TFH Publications, Neptune. 335 pp. [describes husbandry]
- Stanfill, M. 1995. Medical considerations. Pp. 62-64. *In*: Card, W. (ed.), 1995 *North American Regional Asian Forest Monitor Studbook*. Dallas Zoo, Dallas. [veterinary report documenting parasitism]
- UNEP-WCMC. 2009. Review of species from Indonesia subject to long-standing import suspensions. UNEP-WCMC, Cambridge. 123 pp. [discusses trade]
- Upton, S.J. & P.S. Freed. 1990. Description of the oocysts of *Eimeria beccarii* n. sp. (Apicomplexa: eimeriidae) from *Varanus prasinus beccarii* (Reptilia: Varanidae). *Systematic Parasitology* 16(3): 181-184. [veterinary report describing parasite]
- Valaoras, G. 1998. *Monitoring of Wildlife Trade in the*

- European Union: Assessing the Effectiveness of EU CITES Import Policies. Traffic Europe, Brussels. 112 pp. [discusses trade, refers to bans in EU]
- Vobruba, M. 2005. A field trip to the history of monitor keeping in Zoo Plzen. Pp. 66-69. *In: Zoological and Botanical Garden Pilsen Annual Report 2005. Zoologická a Botanická Zahrada Města Plzně, Plzeň.* [documentation of successful breeding at Pilsen Zoo]
- Wanner, M. 1991. Black tree monitors hatch at Fort Worth Zoo. AAZPA Communique, August: 17. [documentation of successful reproduction at Fort Worth Zoo]
- Woodruff, D. 2012. Tree monitor success: A UK first breeding? *Practical Reptile Keeping*, June: 10-11. [describes husbandry and successful reproduction]
- Yuwono, F.B. 1998. The trade of live reptiles in Indonesia. Pp. 9-15. *In: Erdelen, W. (ed.), Conservation, Trade, and Sustainable Use of Lizards and Snakes in Indonesia, Mertensiella 9. Deutsche Gesellschaft für Herpetologie und Terrarienkunde e.V., Rheinbach.* [description of trade]

### *Varanus boehmei*

- Eidenmüller, B. 2007. Monitor Lizards: Natural History, Captive Care & Breeding. Edition Chimaira, Frankfurt am Main, 176 pp. [describes general husbandry and breeding]
- Eidenmüller, B. 2009. Warane: Lebensweise, Pflege, Zucht. Herpeton Verlag, Offenbach. 207 pp. [describes husbandry and breeding]
- Honsa, V. 2004. Cold-blooded animals. Pp. 16-18, 25-26, 82. *In: Zoological and Botanical Garden Pilsen Annual Report 2004. Zoologická a Botanická Zahrada Města Plzně, Plzeň.* [documents receiving confiscated animals]
- Hroudova, Z. 2004. Czech Republic. Pp. 34-36. *In: Kecse-Nagy, K., D. Papp, C. Raymakers, A. Steiner & S. Theile (eds.), Proceedings of the Enforcement of Wildlife Trade Controls in Central Eastern Europe. Traffic Europe, Budapest.* [documents the illicit trade and smuggling of *V. boehmei*]
- Jacobs, H.J. 2003. A further new emerald tree monitor lizard of the *Varanus prasinus* species group from Waigeo, West Irian (Squamata: Sauria: Varanidae). *Salamandra* 39(2): 65-74. [original species description; also describes aspects of the captive trade of *V. boehmei* prior to its description]
- Konáš, J. 2007. Cold-blooded animals. Pp. 39. *In: Zoological and Botanical Garden Pilsen Annual Report 2007. Zoologická a Botanická Zahrada Města Plzně, Plzeň.* [documentation of successful reproduction at Pilsen Zoo]
- Mendyk, R.W. 2012. Reaching out for enrichment in arboreal monitor lizards. *Animal Keepers' Forum* 39(1): 33-36. [describes behavioral enrichment applicable to *V. boehmei*]
- Natusch, D.J.D. & J.A. Lyons. 2012. Exploited for pets: The harvest and trade of amphibians and reptiles from Indonesian New Guinea. *Biodiversity Conservation* 21: 2899-2911. [describes aspects of the trade]
- Reisinger, M. & D. Reisinger-Raweyai. 2007. *Varanus boehmei*: Keeping and first breeding in the terrarium. *Reptilia* 50: 20-24. [description of husbandry and successful reproduction]
- Sprackland, R.G. 2009. *Giant Lizards*, 2nd Ed. TFH Publications, Neptune. 335 pp. [describes general husbandry]
- Sy, E.Y. 2015. Checklist of exotic species in the Philippine pet trade, II. Reptiles. *Journal of Nature Studies* 14(1): 66-93. [documentation of *V. boehmei* in illegal Philippine trade]
- Vobruba, M. 2005. A field trip to the history of monitor keeping in Zoo Plzen. Pp. 66-69. *In: Zoological and Botanical Garden Pilsen Annual Report 2005. Zoologická a Botanická Zahrada Města Plzně, Plzeň.* [details the history of varanid keeping at Pilsen Zoo, documents *V. boehmei* being kept]

*Varanus keithhornei*

- Bayless, M.K. 1997. Increases in breeding. *Varanids* 1(1): 3. [documents egg laying]
- Eidenmüller, B. 2007. *Monitor Lizards: Natural History, Captive Care & Breeding*. Edition Chimaira, Frankfurt am Main, 176 pp. [describes general husbandry]
- Eidenmüller, B. 2003. *Warane: Lebensweise, Pflege, Zucht*. Herpeton Verlag, Offenbach. 174 pp. [describes husbandry and egg laying at Beerwah Reptile Park]
- Eidenmüller, B. 2009. *Warane: Lebensweise, Pflege, Zucht*. Herpeton Verlag, Offenbach. 207 pp. [describes husbandry and breeding]
- Engle, K. 1997. Parting shot: hatchling canopy goanna, *V. keithhornei*, at the Queensland Reptile and Fauna Park. The first captive reproduction of this species. *Dragon News* 1(4): 14. [photograph documenting successful hatching]
- Engle, K. undated. Breeding behavior of the canopy goanna (*Varanus keithhornei*). Unpublished manuscript. 11 pp. [describes in detail husbandry, behavior and successful reproduction at Australia Zoo]
- Hogston, J. 1997. The jewel of Australia: A look at the Queensland Reptile & Fauna Park. *Dragon News* 1(4): 7-9. [brief mention of successful reproduction]
- Husband, G. & M. Bonnett. 2009. Monitors. Pp. 484-583. *In: Swan, M. (ed.), Keeping and Breeding Australian Lizards*. Mike Swan Herp Books, Lilydale. [discusses general husbandry and breeding information]
- Irwin, S. Undated. Taxon Management Account: Arboreal Habitat Group. Queensland Reptile & Fauna Park, Beerwah. 9 pp. [description of husbandry]
- Irwin, S. 1994. Notes on behaviour and diet of *Varanus teriae* Sprackland, 1991. *Memoirs of the Queensland Museum* 35(1): 128. [brief mention of four individuals kept at the Beerwah Reptile Park]
- Irwin, S. 1996. Capture, field observations and husbandry of the rare canopy goanna. *Thylacinus* 21(2): 12-19. [describes husbandry, nesting, and incubation difficulties]
- Irwin, S. 2004. *Varanus keithhornei*. Pp. 401-405. *In: Pianka, E.R., D.R. King & R.A. King (eds.), Varanoid Lizards of the World*. Indiana University Press, Bloomington. [describes behavior and reproductive data]
- Irwin, S., K. Engle & B. Mackness. 1996. Nocturnal nesting by captive varanid lizards. *Herpetological Review* 27(4): 192-194. [describes egg laying at night]
- Lemm, J. 1997. Reptile dreamtime. *Reptiles* 5(9): 32-45. [brief mention of *V. keithhornei* being kept at Australia Zoo]
- Lemm, J. 1999. In the crocodile's territory: At home with Steve Irwin. Part one. *Reptiles* 7(10): 10-21. [mentions Australia Zoo's retiring of *V. keithhornei* breeding project]
- Sprackland, R.G. 2000. Australian zoo tour. *Reptile & Amphibian Hobbyist* 5(12): 38-45. [brief mention of *V. keithhornei* being kept at Australia Zoo]
- Vincent, M. & S. Wilson. 1999. *Australian Goannas*. New Holland, Sydney. 152 pp. [describes husbandry and breeding; documents reproduction at Australia Zoo]

*Varanus kordensis*

Since *V. kordensis* was formerly recognized as a subspecies of *V. prasinus* and frequently synonymized with the latter by keepers, it is possible that older published accounts (e.g., those preceding Jacobs' [2002] elevation of the taxon to specific rank) reporting on *V. prasinus* may actually reference *V. kordensis*, or both *V. prasinus* and *V. kordensis*. The lack of detailed physical descriptions accompanying many of these reports (i.e., differentiating between dorsal ocelli as in *V. kordensis* or transverse dorsal cross bands in *V. prasinus*) renders distinguishing which of the two species are being referenced nearly impossible. Nevertheless, due to their similarities in size, morphology, behavior and husbandry requirements, information presented for one species should in most cases be considered applicable to the other.



- Anonymous. 1980. Species of wild animals bred in captivity during 1978 and multiple generation captive births. Reptiles. International Zoo Yearbook 20: 378-382. [documentation of successful reproduction at Dallas Zoo]
- Anonymous. 2011. Report from the third annual meeting of the AG Warane. Biawak 5(1/2): 8. [brief mention of successful reproduction]
- Barker, D.G. 1984. Maintenance and reproduction of *Varanus prasinus kordensis* at the Dallas Zoo. Pp. 91-92. In: Hahn, R.A. (ed.), 8th International Herpetological Symposium on Captive Propagation and Husbandry. International Herpetological Symposium, Thurmont, Maryland. [description of husbandry and successful reproduction]
- Card, W. 1994. Emerald monitors. Reptiles 1(6): 4. [brief mention of successful reproduction at Dallas Zoo]
- Card, W. 1994. A reproductive history of monitors at the Dallas Zoo. Vivarium 6(1): 26-27, 44, 46-47. [describes husbandry and breeding]
- Egorova, L.V. 2006. Moscow Zoo 2005 Annual Report. Moscow State Zoological Park, Moscow. 279 pp. (In Russian) [documentation of *V. kordensis* being kept at Moscow Zoo]
- Eidenmüller, B. 2007. Monitor Lizards: Natural History, Captive Care & Breeding. Edition Chimaira, Frankfurt am Main, 176 pp. [brief discussion of husbandry and reproduction]
- Eidenmüller, B. 2003. Warane: Lebensweise, Pflege, Zucht. Herpeton Verlag, Offenbach. 174 pp. [brief discussion of husbandry and breeding information]
- Eidenmüller, B. 2009. Warane: Lebensweise, Pflege, Zucht. Herpeton Verlag, Offenbach. 207 pp. [briefly discusses husbandry and breeding]
- Fost, M. 1991. Southeast Asia in southeast USA. Varanews 1(5): 5. [brief mention of *V. kordensis* being kept at Zoo Atlanta]
- Hartdegen, R.W. 2000. 1999 Asian Forest Monitor North American Regional Studbook. Dallas Zoo, Dallas. 144 pp. [census of animals in North American zoos]
- Hartdegen, R.W. 2002. 2002 Asian Forest Monitor North American Regional Studbook. Dallas Zoo, Dallas. 123 pp. [census of animals in North American zoos]
- Horn, H.-G. & G.J. Visser. 1989. Review of reproduction of monitor lizards *Varanus* spp. in captivity. International Zoo Yearbook 28: 140-150. [documents successful reproduction]
- Hroudova, Z. 2004. Czech Republic. Pp. 34-36. In: Kecse-Nagy, K., D. Papp, C. Raymakers, A. Steiner & S. Theile (eds.), Proceedings of the Enforcement of Wildlife Trade Controls in Central Eastern Europe. Traffic Europe, Budapest. [documents illicit trade and smuggling of *V. kordensis*]
- Jacobs, H.J. 2002. Zur morphologischen Variabilität der nominellen Smaragdwaran-Taxa *Varanus prasinus* (H. Schlegel, 1839) und *V. kordensis* (A.B. Meyer, 1874), mit Bemerkungen zur Erstzucht des letzteren. Herpetofauna (Weinstadt) 24(137): 21-34. [description of successful reproduction]
- Mendyk, R.W. 2012. Reaching out for enrichment in arboreal monitor lizards. Animal Keepers' Forum 39(1): 33-36. [description of behavioral enrichment applicable to *V. kordensis*]
- Mendyk, R.W. 2012. Reproduction of varanid lizards (Reptilia: Squamata: Varanidae) at the Bronx Zoo. Zoo Biology 31(3): 374-389. [presents reproductive data]
- Mendyk, R.W., A.L. Newton & M. Baumer. 2013. A retrospective study of mortality in varanid lizards (Reptilia: Squamata: Varanidae) at the Bronx Zoo: Implications for husbandry and reproductive management in zoos. Zoo Biology 32(2): 152-162. [descriptions of mortality & pathology data]
- Natusch, D.J.D. & J.A. Lyons. 2012. Exploited for pets: The harvest and trade of amphibians and reptiles from Indonesian New Guinea. Biodiversity Conservation 21: 2899-2911. [discusses illicit trade]
- Nickel, M. 1994. It's about saving lives: Pathology at the zoo and Wild Animal Park. Zoonooz 68(4): 6-13. [brief description of veterinary treatment]
- Pfaff, S. 1992. Riverbanks Zoo reports notable hatching. AAZPA Communique, February: 12. [documentation of successful reproduction]
- Pfaff, S. & R.G. Sprackland. 1996. Taxon management account: Green tree monitor/emerald tree monitor *Varanus prasinus*. 5 pp. In: Hammack, S.H. (ed.), American Zoo and Aquarium Association Lizard Advisory Group, Taxon Management Accounts. Fort Worth Zoological Park, Fort Worth. [husbandry and breeding information]
- Roberts, D. 1988. Gould's monitor hatched at the Dallas Zoo. AAZPA Newsletter 29(3): 16. [documentation of successful reproduction at Dallas Zoo]
- Spitsin, V.V. (ed.). 2012. Breeding of wild and some

- domestic animals at regional zoological institutions. Information on the Zoological Collections 2012. Informational Issue of the Eurasian Regional Association of Zoos & Aquariums 31: 40-41, 261-264. (*In Russian*) [documentation of *V. kordensis* being kept in Eurasian zoos]
- Sprackland, R.G. 1994. Emerald monitors: Lean, green, and rarely seen. Reptiles 1(5): 16-23. [general husbandry]
- Sprackland, R.G. 1992. Giant Lizards. TFH Publications, Neptune. 288 pp. [describes general husbandry]
- Sprackland, R.G. 1991. The emerald monitor lizard, *Varanus prasinus*. Tropical Fish Hobbyist 39(8): 110-114. [describes general husbandry]
- Sprackland, R.G. 1995. The emerald monitor (*Varanus prasinus*). Reptilian 4(1): 43-46. [describes general husbandry]
- Sprackland, R.G. 1999. Emerald monitor. Reptile & Amphibian Hobbyist 4(11): 8-16. [describes general husbandry]
- Sprackland, R.G. 2009. Giant Lizards, 2nd Ed. TFH Publications, Neptune. 335 pp. [describes general husbandry and breeding information]
- Yuwono, F.B. 1998. The trade of live reptiles in Indonesia. Pp. 9-15. *In*: Erdelen, W. (ed.), Conservation, Trade, and Sustainable Use of Lizards and Snakes in Indonesia, Mertensiella 9. Deutsche Gesellschaft für Herpetologie und Terrarienkunde e.V., Rheinbach. [discusses aspects of trade]

### *Varanus macraei*

- Abel, F. 2012. Terrariensteckbrief *Varanus macraei*. Monitor Lizards 1(1): 22-23. [description of housing for *V. macraei* and the use of live plants]
- Abu-Zahr, T. 2010. Stunning blue tree monitors. Practical Reptile Keeping, October: 11. [description of husbandry and successful reproduction]
- Andreeva, T.F., T.A. Vershinin, M.J. Goretskaya, N.V. Karov, L.V. Kuzmina, V.A. Ostapenko & V.P. Shevelyova (eds.). 2008. Varanidae. Pp. 251-252. *In*: Informational Issue of Eurasian Regional Association of Zoos and Aquariums. Volume 27. Moscow Zoo, Moscow. [documentation of *V. macraei* being kept at Moscow Zoo]
- Anonymous. 2007. Jahresbericht 2007 der Arktengesellschaft Zoologischer Garten Köln. Entwicklung des tierbestandes: Terrarium. Zeitschrift des Kölner Zoo 51(1): 14-16. [description and documentation of successful reproduction at the Cologne Zoo]
- Anonymous. 2008. Výroční Zpráva 2008. Unie Českých a Slovenských Zoologických Zahrad. 219 pp. [documentation of successful reproduction at Pilsen Zoo]
- Anonymous. 2008. Reptiles. Pp. 15-16. *In*: Jahresbericht 2008 der Aktiengesellschaft Zoologischer Garten Köln, Köln. [documentation of successful reproduction at Cologne Zoo]
- Anonymous. 2009. Reptilien. Zeitschrift des Kölner Zoo 52(1): 15-16. [documentation of successful reproduction at Cologne Zoo]
- Anonymous. 2011. Report from the third annual meeting of the AG Warane. Biawak 5(1/2): 8. [brief mention of successful reproduction at Cologne Zoo]
- Anonymous. 2013. New monitor lizard exhibit to open at the Bronx Zoo. Biawak 7(2): 50. [discusses new varanid exhibits at the Bronx Zoo and brief mention of keeping *V. macraei*]
- Anonymous. 2014. Komodo dragons return to the Bronx Zoo. Biawak 8(1): 7. [description of new exhibits for varanid lizards at the Bronx Zoo, including *V. macraei*]
- Dedlmar, A. 2007. Keeping and breeding the blue tree monitor *Varanus macraei*. Reptilia 50: 25-27. [description of husbandry and successful reproduction]
- Dedlmar, A. 2008. Eine kleine Sensation. Reptilia (DE) 13(1): 8. [describes a bicephalic *V. macraei* that was hatched in captivity]
- del Canto, R. 2013. Field observations on *Varanus macraei*. Biawak 7(1): 18-20. [discusses local effects of over-collecting for the pet trade]
- Eidenmüller, B. 2003. Warane: Lebensweise, Pflege, Zucht. Herpeton Verlag, Offenbach. 174 pp. [discusses husbandry information]

- Eidenmüller, B. 2007. Monitor Lizards: Natural History, Captive Care & Breeding. Edition Chimaira, Frankfurt am Main, 176 pp. [brief mention of husbandry and breeding]
- Eidenmüller, B. 2009. Warane: Lebensweise, Pflege, Zucht. Herpeton Verlag, Offenbach. 207 pp. [describes husbandry and breeding]
- Fischer, D. & F. Mohr. 2012. Artensteckbrief *Varanus macraei*. Monitor Lizards 1(1): 5-19. [description of husbandry, diet, review of reproduction data]
- Foderero, L.W. 2013. If the lizards look at home, credit months of zoo labor. New York Times, 16 July 2013: A15. [description of new varanid exhibits at the Bronx Zoo]
- Grabowski, J. 2012. Aufzuchtterarium für Jungtiere von *Varanus macraei*. Monitor Lizards 1(1): 29-31. [description of the husbandry of juvenile *V. macraei*]
- Honsa, V. 2004. Cold-blooded animals. Pp. 16-18, 25-26, 82. In: Zoological and Botanical Garden Pilsen Annual Report 2004. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [documents the donation of confiscated *V. macraei* to the Pilsen Zoo]
- Hroudova, Z. 2004. Czech Republic. Pp. 34-36. In: Kecse-Nagy, K., D. Papp, C. Raymakers, A. Steiner & S. Theile (eds.), Proceedings of the Enforcement of Wildlife Trade Controls in Central Eastern Europe. Traffic Europe, Budapest. [documentation of *V. macraei* in the illicit trade]
- Jacobs, H.J. 2002. Erstnachsicht von *Varanus macraei*. Herpetoana 24(141): 29-33. [description of husbandry and successful reproduction]
- Konáš, J. 2006. Cold-blooded animals. Pp. 22-24, 37-38. In: Zoological and Botanical Garden Pilsen Annual Report 2005. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [documentation of successful reproduction at the Pilsen Zoo]
- Konáš, J. 2007. Cold-blooded animals. Pp. 39. In: Zoological and Botanical Garden Pilsen Annual Report 2007. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [documentation of successful reproduction at the Pilsen Zoo]
- Konáš, J. 2009. Blue tree monitor (*Varanus macraei*), Bohme & Jacobs, 2001 in the Zoo of Pilsen. Pp. 108-111. In: Zoological and Botanical Garden Pilsen Annual Report 2009. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [detailed description of husbandry and successful reproduction at the Pilsen Zoo]
- Kopec, L. 2013. The blue-spotted tree monitor (*Varanus macraei*) bred and reared at Ostrava Zoo. Pp. 40-41. In: Zoo Ostrava Annual Report 2013. Zoo Ostrava, Ostrava. [description of husbandry and successful reproduction at Zoo Ostrava]
- Love, B. 2008. New blue? Reptiles 16(5): 14. [brief mention of husbandry and trade]
- Mendyk, R.W. 2007. Dizygotic twinning in the blue tree monitor, *Varanus macraei*. Biawak 1(1): 26-28. [description of reproductive data, twinning, and incubation difficulties]
- Mendyk, R.W. 2012. Reaching out for enrichment in arboreal monitor lizards. Animal Keepers' Forum 39(1): 33-36. [description of behavioral enrichment applicable to *V. macraei*]
- Mendyk, R.W. 2015. History and fate of a troubled reptile zoo: The Long Island Reptile Museum. Herpetological Review 46(4): 547-555. [brief mention of keeping as part of a large varanid collection at a reptile zoo]
- Mohr, F. 2012. Schlussanmerkung zu *Varanus macraei*. Monitor Lizards 1(1): 20. [comments on the trade of *V. macraei*]
- Moldovan, D. 2008. Haltung und Zucht von *Varanus (Euprepisaurus) macraei* Böhme & Jacobs, 2002. Sauria 30(4): 5-10. [description of husbandry and successful reproduction]
- Natusch, D.J.D. & J.A. Lyons. 2012. Exploited for pets: The harvest and trade of amphibians and reptiles from Indonesian New Guinea. Biodiversity Conservation 21: 2899-2911. [description of illicit trade]
- Neu, H. 2012. Erfolgreiche Nachzucht von *Varanus macraei*. Monitor Lizards 1(1): 25-28. [description of husbandry and successful reproduction]
- Pernetta, A.P. 2009. Monitoring the trade: using the CITES database to examine the global trade in live monitor lizards (*Varanus* spp.). Biawak 3(2): 37-45. [description of trade]
- Rauhaus, A., L. Gutjahr, J. Oberreuter & T. Ziegler. 2014. 7 Jahre Haltung und Nachzucht des Blaugefleckten Baumwarans (*Varanus macraei*) im Kölner Zoo: Ein Rück- und Ausblick. Terraria/Elaphe 50: 32-37. [detailed description of husbandry and successful reproduction at the Cologne Zoo]
- Reisinger, M. 2014. Der blaue Waran. Die unglaubliche Entdeckungsgeschichte von *Varanus macraei*. Terraria/Elaphe 50: 22-31. [description of the discovery and trade of *V. macraei*]
- Shiau, T.-W., P.-C. Hou, S.-H. Wu & M.-C. Tu. 2006. A

- survey on alien pet reptiles in Taiwan. *Taiwania* 51(2): 71-80. [discusses presence of *V. macraei* in Taiwan trade]
- Spitsin, V.V. (ed.). 2012. Breeding of wild and some domestic animals at regional zoological institutions. Information on the Zoological Collections 2012. Informational Issue of the Eurasian Regional Association of Zoos & Aquariums 31: 40-41, 261-264. (*In Russian*) [documentation of *V. macraei* being kept at Krasnoyarsk Zoo]
- Sprackland, R.G. 2009. *Giant Lizards*, 2nd Ed. TFH Publications, Neptune. 335 pp. [general husbandry and breeding information]
- Sprackland, R.G. 2010. True blue: Care for the rare and challenging blue-spotted monitor. *Reptiles* 18(7): 32-41. [describes husbandry]
- Sy, E.Y. 2015. Checklist of exotic species in the Philippine pet trade, II. Reptiles. *Journal of Nature Studies* 14(1): 66-93. [documentation of *V. macraei* in illicit Philippine trade]
- Vobruba, M. 2005. A field trip to the history of monitor keeping in Zoo Plzen. Pp. 66-69. *In: Zoological and Botanical Garden Pilsen Annual Report 2005*. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [describes in detail the history of varanid keeping at Pilsen Zoo]
- Ziegler, T. 2008. Entwendung von Gila-Krustenechsen im Kölner Zoo. *Reptilia* (Münster) 13(5): 10. [documentation of the theft of a *V. macraei* from the Cologne Zoo]
- Ziegler, T. 2008. Cologne Zoo hatches *Varanus macraei*; monitor stolen. *Biawak* 2(4): 148. [brief documentation of successful reproduction and theft of a *V. macraei* from the Cologne Zoo]
- Ziegler, T. 2015. In situ and ex situ reptile projects of the Cologne Zoo: Implications for research and conservation of South East Asia's herpetodiversity. *International Zoo Yearbook* 49: 8-21. [describes varanid breeding projects at the Cologne Zoo, including *V. macraei*]
- Ziegler, T., M. Strauch, T. Pes, J. Konas, T. Jirasek, N. Rütz, J. Oberreuter & Simone Holst. 2009. First captive breeding of the blue tree monitor *Varanus macraei* Böhme & Jacobs, 2001 at the Plzen and Cologne Zoos. *Biawak* 3(4): 122-133. [detailed description of husbandry and successful reproduction at the Cologne and Pilsen Zoos]

### *Varanus prasinus*

- Affre, A., I. Ineich & S. Ringuet. 2005. West Africa, Madagascar, Central and South America: Main origins of the CITES-listed lizard pet market in France. *Herpetological Review* 36(2): 133-137. [brief mention of first origins of *V. prasinus* in French pet trade]
- Akeret, B. 2013. Erfahrungen mit dem Bau von Waranterrarien und der Haltung kleiner *Varanus*-Arten der Untergattung *Odatria*. *Draco* 53: 37-44. [brief mention of early *V. prasinus* in the trade]
- Allen, M.R. 1997. Green tree monitors will no longer be exported from Indonesia. *Varanosaurus* 1(2): 1. [brief claim that trade in *V. prasinus* was to be closed]
- Andreeva, T.F., T.A. Vershinin, M.J. Goretskaya, N.V. Karov, L.V. Kuzmina, V.A. Ostapenko & V.P. Shevelyova (eds.). 2008. *Varanidae*. Pp. 251-252. *In: Informational Issue of Eurasian Regional Association of Zoos and Aquariums. Volume 27. Moscow Zoo, Moscow*. [documentation of *V. prasinus* being kept at Moscow and Prague Zoos]
- Anonymous. 1991. Herp hot spots. *Varanews* 1(3): 4. [brief mention of *V. prasinus* being kept at Lincoln Park Zoo]
- Anonymous. 1992. AFH guidelines for responsible monitor ownership. *Vivarium* 4(3): 26, 31-32. [general husbandry, brief mention of species in the trade]
- Anonymous. 1993. Nematode in green tree monitor identified. *Varanews* 3(2): 1-2. [brief description of parasite]
- Anonymous. 1994. Dierenbestand binnen de NDV/DVA. *Nieuwsbrief van de Nederlandse Doelgroep Varanen* 1(4): 42. [brief mention of *V. prasinus* kept in Dutch private collections]
- Anonymous. 1999. Durrell Wildlife Conservation Trust, Jersey, Channel Islands, UK. *International Zoo News* 46/4(293): 243. [documentation of successful reproduction at Jersey Zoo, and veterinary treatment to remove cataract]
- Anonymous. 2002. Census of animals 2002. *Reptiles*. Pp. 53-62. *In: Zoological and Botanical Garden*



- Pilsen Annual Report 2004. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [documentation of *V. prasinus* being kept at Pilsen Zoo]
- Anonymous. 2003. Zoological and Botanical Garden Pilsen Annual Report 2003: 20-21, xxxviii. [mentions *V. prasinus* becoming targeted by smugglers, and nine confiscated animals given to Pilsen Zoo]
- Anonymous. 2004. U.S. and Thai smugglers plead guilty. Traffic Report 3(1): 7-8. [mentions *V. prasinus* being smuggled]
- Anonymous. 2004. Czech Republic. Traffic Bulletin 20(1): 35. [documents smuggling of *V. prasinus*]
- Anonymous. 2004. New programmes. EAZA News 47: 7. [describes a new European zoo breeding program for *V. prasinus*]
- Anonymous. 2005. Croatia. Traffic Bulletin 20(3): 113. [report on the smuggling of *V. prasinus* into Croatia]
- Anonymous. 2006. Reptiles. Pp. 15, 26. In: Zoo Negara Annual Report 2006. Zoo. Malaysian Zoological Society, Malaysia. [documentation of *V. prasinus* being kept at Zoo Negara, Malaysia]
- Anonymous. 2008. Výroční Zpráva 2008. Unie Českých a Slovenských Zoologických Zahrád. 219 pp. [documentation of successful reproduction at Prague Zoo]
- Anonymous. 2011. Report from the third annual meeting of the AG Warane. Biawak 5(1/2): 8. [brief mention of successful reproduction at the Cologne Zoo]
- Anonymous. 2012. Emerald tree monitors seized in Sydney. Biawak 6(1): 7. [report on the illegal keeping of *V. prasinus* in Australia]
- Aucone, B., V. Hornyak, S. Foley, D. Barber, K. Murphy, J. Johnson, J. Krebs, J. Kinkaid, R. Hartdegen & C. Peeling. 2007. Lizard Advisory Group (LAG) Regional Collection Plan. Association of Zoos and Aquariums. 73 pp. [notes high hatchling mortality and limited reproductive success in zoos]
- Augustine, L. 2011. A review of reptile and amphibian enrichment at the Bronx zoo. Animal Keepers' Forum. 38(11): 566-567. [describes behavioral enrichment]
- Baldwin, B. 2001. Reptile reproduction at San Diego Zoo. AZA Communique, January: 37-38. [documents successful reproduction at the San Diego Zoo]
- Baldwin, B. 2006. Successful care and reproduction of green tree monitors (*Varanus prasinus*) at the San Diego Zoo. Iguana 13(4): 283-287. [describes husbandry and successful reproduction at the San Diego Zoo]
- Balsai, M. 1992. The General Care and Maintenance of Savannah Monitors and Other Popular Monitor Species. Advanced Vivarium Systems, Lakeside. 55 pp. [describes general husbandry]
- Balsai, M.J. 1996. Natural history and captive husbandry of selected monitor species. Reptiles USA Annual 1996: 136-153. [brief mention of *V. prasinus* in the trade and their need for specialized husbandry]
- Barnes, M. & T. Dillon. 1995. Where do all those reptiles come from? Reptiles 2(3): 24-33. [brief mention of trade in *V. prasinus*]
- Baumer, M. 2011. In the nursery. Herp Herald (Bronx Zoo Herpetology Department Newsletter), Spring 2011: 7. [documentation of successful reproduction at the Bronx Zoo]
- Bayless, M.K. 1997. Increases in breeding. Varanids 1(1): 3. [documentation of successful reproduction]
- Bennett, D. 1998. Monitor Lizards: Natural History, Biology and Husbandry. Edition Chimaira, Frankfurt am Main. 352 pp. [describes husbandry and breeding information, behavior]
- Biebl, H. 1993. Erfolgreiche Nachzucht von *Varanus prasinus prasinus*. Monitor (Frankfurt) 2(2): 33. [documentation of successful reproduction]
- Biebl, H. 1994. Postnatale Schwierigkeiten bei einem weiblichen Smaragdwaran (*Varanus [Euprepiosaurus] prasinus prasinus*). Monitor 3(1): 19-22. [documents successful reproduction and describes reproductive complications]
- Bosch, H. 1998. Smaragdwarane- Schmuckstücke im Terrarium. Die Aquarien- und Terrarien Zeitschrift 51(2): 108-111. [describes husbandry and successful reproduction]
- Bosch, H. 1999. Parasite burdens of monitors in captivity. Pp. 189-192. In: Horn, H.-G. & W. Böhme (eds.), Advances in Monitor Research II, Mertensiella 11. Deutsche Gesellschaft für Herpetologie und Terrarienkunde e.V., Rheinbach. [describes parasite burdens]
- Bosch, H. 1999. Successful breeding of the emerald monitor (*Varanus p. prasinus*) in the Löbbecke Museum + Aquazoo, Düsseldorf (Germany). Pp. 225-226. In: Horn, H.-G. & W. Böhme (eds.), Advances in Monitor Research II, Mertensiella 11. Deutsche Gesellschaft für Herpetologie und Terrarienkunde e.V., Rheinbach. [description of

- husbandry and successful reproduction at the Løbbecke Museum and Aquazoo]
- Boyer, D. & T.H. Boyer. 1997. Comments on husbandry and medical problems in captive varanids. *Varanids* 1(1): 4-11. [discusses general veterinary considerations, mentions susceptibility to dehydration]
- Brown, K. 2011. Arboreal acrobats: Care for the magnificent green tree monitor. *Reptiles* 19(10): 32-43. [description of husbandry and basic breeding information]
- Brown, K.W. 1983. The green tree monitor *Varanus prasinus*. Scientific Committee Meeting Report, Chester Zoo. 4 pp. [describes husbandry and behavior of *V. prasinus*]
- Cambre, R., D.E. Green, E.E. Smith, R.J. Montali & M. Bush. 1980. Salmonellosis and arizonosis in the reptile collection at the National Zoological Park. *Journal of the American Veterinary Medical Association* 177(9): 800-803. [veterinary report on bacterial infections]
- Card, W. 1994. Emerald monitors. *Reptiles* 1(6): 4. [documents successful reproduction]
- Card, W. 1995. Monitor lizard husbandry. *Bulletin of the Association of Reptilian and Amphibian Veterinarians* 5(3): 9-17. [describes general husbandry]
- Card, W.C. 1995. North American Regional Asian Forest Monitor Studbook. Dallas Zoo, Dallas. 79 pp. [census of animals in North American zoos]
- Card, W. 1994. A reproductive history of monitors at the Dallas Zoo. *Vivarium* 6(1): 26-27, 44, 46-47. [describes husbandry and breeding]
- Carlzen, G. 1984. Breeding green tree monitors. *Southwestern Herpetological Society Journal* 12(2): 4-6. [fictitious/fabricated report on captive reproduction]
- Carlzen, G. 1984. Breeding green tree monitors. *The Forked Tongue* 9(12): 9-11. [fictitious/fabricated report on captive reproduction]
- Davis, A.C. 2014. Successful repair of an emerald tree monitor (*Varanus prasinus* Schlegel, 1839) egg at Bristol Zoo Gardens. *Biawak* 8(1): 39-42. [describes successful reproduction at the Bristol Zoo, incubation and egg repair]
- Davis, A.C. 2014. On the cover: *Varanus prasinus*. *Biawak* 8(2): 52. [documents reproductive complications]
- Dedlmar, A. 1994. Haltung und Nachzucht des Smaragdwarans (*Varanus [Odatria] prasinus*). *Salamandra* 30(4): 234-240. [describes husbandry and successful reproduction]
- Derraik, J.G.B. & S. Phillips. 2010. Online trade poses a threat to biosecurity in New Zealand. *Biological Invasions* 12(6): 1477-1480. [documents smuggling *V. prasinus* into New Zealand]
- D'Souza, S. 2006. Another rare reptile born at Prague Zoo. *Prague Post*, January 11, 2006: np [describes the history of *V. prasinus* reproduction at the Prague Zoo]
- Eidenmüller, B. 1992. Bemerkungen zur Haltung von Waranen. *Monitor* 1(1): 7-13. [discusses general husbandry information and comments on susceptibility to stress]
- Eidenmüller, B. 1997. The monitor family. Pp. 35-46. *In: Wilkie, A.H. (ed.), Proceedings of the 1997 International Herpetological Society Symposium. International Herpetological Society.* [provides general husbandry information]
- Eidenmüller, B. 1998. Bemerkungen zur Haltung und Nachzucht von *Varanus p. prasinus* (Schlegel, 1839) und *Varanus p. beccarii* (Doria, 1874). *Herpetofauna* 20(112): 8-13. [description of husbandry and successful reproduction]
- Eidenmüller, B. 2003. Warane: Lebensweise, Pflege, Zucht. Herpeton Verlag, Offenbach. 174 pp. [describes husbandry and breeding information]
- Eidenmüller, B. 2007. Small monitors in the terrarium. *Reptilia* 50: 12-19. [discusses general husbandry information]
- Eidenmüller, B. 2007. Monitor Lizards: Natural History, Captive Care & Breeding. Edition Chimaira, Frankfurt am Main, 176 pp. [describes husbandry and breeding information]
- Eidenmüller, B. 2009. Warane: Lebensweise, Pflege, Zucht. Herpeton Verlag, Offenbach. 207 pp. [describes husbandry and breeding]
- Fajtkova, S., S. Hutkova & M. Kern. 2004. Slovak Republic. Pp. 55-57. *In: Kecse-Nagy, K., D.Papp, C. Raymakers, A. Steiner & S. Theile (eds.), Proceedings of the Enforcement of Wildlife Trade Controls in Central Eastern Europe. Traffic Europe, Budapest, Hungary.* [documents the smuggling of *V. prasinus*]
- Fost, M. 1993. Acquiring a new monitor: Purchase and parasite prevention. *Varanews* 3(6): 1-2. [discusses veterinary considerations and parasites]
- Fost, M. 1993. Fort Worth Zoo reports significant lizard breedings. *Varanews* 3(6): 3. [documentation of successful reproduction at Fort Worth Zoo]
- Garner, M.M. 2008. A retrospective study of disease in

- monitor lizards (*Varanus* spp.). Proceedings of the Association of Reptilian and Amphibian Veterinarians 2008: 1-2. [brief veterinary report summarizing diseases]
- Garrett, C.M. & M.C. Peterson. 1991. *Varanus prasinus beccarii*. (NCN). Behavior. Herpetological Review 22(3): 99-100. [describes nest-guarding behavior in *V. prasinus*]
- Gaulke, M. 2008. International terrarium exhibits- the Avilon Montalban Zoological Park, Philippines. Reptilia 59: 55-59. [brief mention of *V. prasinus* in the collection]
- Georoff, T.A., N.I. Stacy, A.N. Newton, D. McAloose, G.S. Post & R.E. Raskin. 2009. Diagnosis and treatment of chronic T-lymphocytic leukemia in a green tree monitor (*Varanus prasinus*). Journal of Herpetological Medicine and Surgery 19(4): 106-114. [veterinary report documenting cancer and its treatment]
- Gorman, D. 2000. Notes on the green tree monitor (*Varanus prasinus*). Reptiles 8(2): 68-73. [describes husbandry and successful reproduction]
- Greenberg, R. 2010. Breeder's choice: Green tree monitor (*Varanus prasinus*). Reptiles 18(12): 39. [documentation of successful reproduction]
- Greene, H.W. 1986. Diet and arboreality in the emerald monitor, *Varanus prasinus*, with comments on the study of adaptation. Fieldiana, Zoology 31: 1-12. [describes foraging and feeding behaviors]
- Häberle, H. 1976. Warane eine Zusammenfassung mit Kurzbeschreibung. Das Aquarium 9(87):409-415. [brief mention of behavior in captivity]
- Hartdegen, R.W. 2000. 1999 Asian Forest Monitor North American Regional Studbook. Dallas Zoo, Dallas. 144 pp. [census of animals in North American zoos]
- Hartdegen, R.W. 2002. 2002 Asian Forest Monitor North American Regional Studbook. Dallas Zoo, Dallas. 123 pp. [census of animals in North American zoos]
- Hartdegen, R.W., D.T. Roberts & D. Chiszar. 2000. Laceration of prey integument by *Varanus prasinus* (Schlegel, 1839) and *V. beccarii* (Doria, 1874). Hamadryad 25(2): 196-198. [describes prey handling and feeding behavior]
- Hassapakis, C. 1997. Worldwide conservation breeding of threatened reptilian species. Pp. 235-271. In: Ackerman, L. (ed.), The Biology, Husbandry and Health Care of Reptiles, Volume III: The Health Care of Reptiles. TFH Publications, Neptune. [comments on lack of reproductive success with *V. prasinus*]
- Hassl, A. & G. Benyr. 2003. Hygienic evaluation of terraria inhabited by amphibians and reptiles: Cryptosporidia, free-living amoebas, salmonella. Wiener Klinische Wochenschrift 115(Supplement 3): 68-71. [veterinary report on parasites]
- Hetzel, U., A. König, A.O. Yildirim, Ch. Lämmle & A. Kipar. 2003. Septicaemia in emerald monitors (*Varanus prasinus* Schlegel 1839) caused by *Streptococcus agalactiae* acquired from mice. Veterinary Microbiology 95(4): 283-293. [veterinary report on bacterial infection]
- Horn, H.-G. 1999. Evolutionary efficiency and success in monitors: A survey on behavior and behavioral strategies. Pp. 167-180. In: Horn, H.-G. & W. Böhme (eds.), Advances in Monitor Research II, Mertensiella 11. Deutsche Gesellschaft für Herpetologie und Terrarienkunde e.V., Rheinbach. [describes behavior]
- Horn, H.-G. & G.J. Visser. 1991. Basic data on the biology of monitors. Pp. 176-187. In: Böhme, W. & H.-G. Horn (eds.), Advances in Monitor Research, Mertensiella 2. Deutsche Gesellschaft für Herpetologie und Terrarienkunde e.V., Rheinbach. [presents reproductive, length and weight data]
- Horn, H.-G. & G.J. Visser. 1997. Review of reproduction of monitor lizards *Varanus* spp. in captivity II. International Zoo Yearbook 35: 227-246. [describes general husbandry information and documents successful reproduction]
- Hroudova, Z. 2004. Czech Republic. Pp. 34-36. In: Kecse-Nagy, K., D. Papp, C. Raymakers, A. Steiner & S. Theile (eds.), Proceedings of the Enforcement of Wildlife Trade Controls in Central Eastern Europe. Traffic Europe, Budapest. [documents smuggling of *V. prasinus*]
- Hudson, R. 1997. Green tree monitors hatched at Fort Worth Zoo. AZA Communique 24: 22. [documents successful reproduction at the Fort Worth Zoo]
- Hudson, R., A. Alberts, S. Ellis & O. Byers. 1994. Conservation Assessment and Management Plan for Iguanidae and Varanidae. Aza Lizard Taxon Advisory Group & IUCN/SSC Conservation Breeding Specialist Group, Apple Valley. 247 pp. [documents successful reproduction]
- Husband, G. & M. Bonnett. 2009. Monitors. Pp. 484-583. In: Swan, M. (ed.), Keeping and Breeding Australian Lizards. Mike Swan Herp Books, Lilydale. [presents husbandry and breeding



- information]
- Ibler, B. 2013. Zur Biologie und Evolution der Lebenswartung von Tieren. Der Zoologische Garten 82(1/2): 72-95. [presents longevity data]
- Jacobs, H.J. 2002. Zur morphologischen Variabilität der nominellen Smaragdwaran-Taxa *Varanus prasinus* (H. Schlegel, 1839) und *V. kordensis* (A.B. Meyer, 1874), mit Bemerkungen zur Erstzucht des letzteren. Herpetofauna (Weinstadt) 24(137): 21-34. [describes successful reproduction]
- Juschka, M. 2009. European Studbook (ESB) for *Varanus prasinus* Emerald Tree Monitor. Aquazoo & Löbbecke Museum, Düsseldorf. 39 pp. [census of animals in European zoos]
- Kästle, W. 1980. Echsen im Terrarium. Kosmos, Stuttgart. 95 pp. [provides general husbandry information]
- Kiehlmann, D. 1999. Beobachtungen bei der Futteraufnahme bei *Varanus prasinus* (Schlegel, 1839). Monitor 8(2): 36-42. [describes husbandry and diet]
- Kirschner, A., T. Müller & H. Seuffer. 1996. Faszination Warane. Kirshner & Seuffer Verlag, Keltern-Weiler. 254 pp. [description of husbandry, breeding, behavior and medical considerations]
- Kok, R. 2000. Ervaringen en geslaagde kweek met de smaragdvaraan, *Varanus prasinus* (Schlegel, 1839). Lacerta 58(3): 109-112. [describes husbandry and successful reproduction]
- Konáš, J. 2006. Cold-blooded animals. Pp. 22-24, 37-38. In: Zoological and Botanical Garden Pilsen Annual Report 2005. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [documents successful reproduction at the Pilsen Zoo]
- Konáš, J. 2007. Cold-blooded animals. Pp. 39. In: Zoological and Botanical Garden Pilsen Annual Report 2007. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [documents successful reproduction at the Pilsen Zoo]
- Krebs, U. 1997. Ethologische Untersuchungsmöglichkeiten an Waranen (*Varanus* spp.) in menschlicher Obhut. Monitor 5(2): 22-36. [discusses the potential for behavioral investigations in captivity]
- Kroc, V. & M. Senk. 2011. Pražká Zoo, sklízí úrodu plazích mláďat. Zprávodajství (Česky rozhlas), 13 July 2011. [documents successful reproduction at the Prague Zoo]
- Kukol, Z. 1992. Unidentified parasite in the green tree monitor, *V. prasinus*. Varanews 2(6): 1-2. [brief veterinary report]
- Kuppert, S. 2013. Providing enrichment in captive amphibians and reptiles: Is it important to know their communication? Smithsonian Herpetological Information Service 142: 1-42. [describes behavioral enrichment]
- Labenda, W. 2000. A trip to the Long Island Reptile Expo & Museum. Reptile & Amphibian Hobbyist 6(2): 44-48. [mentions *V. prasinus* as part of a large zoo varanid collection]
- Lemm, J.M. 2001. Die Aufigsten Warane im Tierhandel- Arten und Grundlagen der Haltung. Draco 7: 20-29. [brief mention of *V. prasinus* in pet trade]
- Lemm, J. 2014. Keen on green: Natural history and captive husbandry of green tree monitors (*Varanus prasinus*). Herp Nation 16: 32-39. [describes husbandry and successful reproduction]
- Lloyd, C., R. Manvell, S. Drury & A.W. Sainsbury. 2005. Seroprevalence and significance of paramyxovirus titres in a zoological collection of lizards. Veterinary Record 156: 578-580. [veterinary report]
- Lyons, J.A. & D.J.D. Natusch. 2011. Wildlife laundering through breeding farms: Illegal harvest, population declines and a means of regulating the trade of green pythons (*Morelia viridis*) from Indonesia. Biological Conservation 144(12): 3073-3081. [documents and describes the laundering of wild-caught *V. prasinus* through "breeding farms"]
- Mader, D.R. 2013. Internet: Blessing and curse. Reptiles 21(11): 16-17. [brief veterinary report]
- Mann, H.J. 1976. Zur Behandlung eines Smaragdwarans, *Varanus prasinus*. Salamandra 12(4): 206-207. [description of husbandry]
- Mendyk, R.W. 2006. Keeping the green tree monitor: A herpetological gem. Reptiles 14(8): 44-53. [describes husbandry and successful reproduction]
- Mendyk, R.W. 2008. Remarks on osteological deformities in a captive-bred emerald tree monitor, *Varanus prasinus*. Biawak 2(2): 72-79. [describes successful reproduction and developmental abnormalities, incubation difficulties]
- Mendyk, R.W. 2012. Reaching out for enrichment in arboreal monitor lizards. Animal Keepers' Forum 39(1): 33-36. [describes behavioral enrichment applicable to *V. prasinus*]
- Mendyk, R.W. 2012. Reproduction of varanid lizards (Reptilia: Squamata: Varanidae) at the Bronx Zoo. Zoo Biology 31(3): 374-389. [presents reproductive data, describes successful reproduction]



- Mendyk, R.W. 2014. Is limited space the final frontier? Maximizing surface area in reptile enclosures. *Animal Keepers' Forum* 41(11): 308-311. [description of enclosure modifications to increase available space]
- Mendyk, R.W. 2015. Life expectancy and longevity of varanid lizards (Reptilia: Squamata: Varanidae) in North American zoos. *Zoo Biology* 34: 139-152. [presents data on life expectancy, longevity and mortality; discusses potential husbandry issues]
- Mendyk, R.W. 2015. History and fate of a troubled reptile zoo: The Long Island Reptile Museum. *Herpetological Review* 46(4): 547-555. [brief mention of keeping as part of a large varanid collection at a reptile zoo]
- Mendyk, R.W., A.L. Newton & M. Baumer. 2013. A retrospective study of mortality in varanid lizards (Reptilia: Squamata: Varanidae) at the Bronx Zoo: Implications for husbandry and reproductive management in zoos. *Zoo Biology* 32(2): 152-162 [presents data on pathology/mortality and discusses factors affecting husbandry and reproduction]
- Mendyk, R.W., L. Augustine & M. Baumer. 2014. On the thermal husbandry of monitor lizards. *Herpetological Review* 45(4): 619-632. [describes thermal husbandry and thermal biology]
- Mertens, R. 1970. Über die Lebensdauer einiger Amphibien und Reptilien in Gefangenschaft. *Der Zoologische Garten* 39(1/6): 193-209. [provides longevity record for captive]
- Mertens, R. 1971. Über eine Waransammlung aus dem östlichen Neuguinea. *Senckenbergiana Biologica* 52(1/2): 1-5. [discusses a *V. prasinus* acquired in 1960]
- Murphy, J.B. 1972. Notes on some Indo-Australian varanids in captivity. *International Zoo Yearbook* 12: 199-202. [provides husbandry and behavioral information]
- Murphy, J.B. 2007. *Herpetological History of the Zoo and Aquarium World*. Krieger, Malabar. 327 pp. [discusses husbandry and breeding]
- Murphy, J.B. 2015. Studies on lizards and tuataras in zoos and aquariums. Part II- Families Teiidae, Lacertidae, Bipedidae, Amphisbaenidae, Scincidae, Cordylidae, Xantusiidae, Anguinae, Helodermatidae, Varanidae, Lanthanotidae, Shinisauridae, Xenosauridae, and Sphenodontidae. *Herpetological Review* 46(4): 672-685. [discusses husbandry, behavior and breeding]
- Natusch, D.J.D. & J.A. Lyons. 2012. Exploited for pets: The harvest and trade of amphibians and reptiles from Indonesian New Guinea. *Biodiversity Conservation* 21: 2899-2911. [discusses trade]
- Nijman, V. & C.R. Shepherd. 2009. Wildlife Trade from ASEAN to the EU: Issues with the Trade in Captive-bred Reptiles from Indonesia. *Traffic Europe*, Brussels. 22 pp. [describes how animals are laundered through "breeding farms"]
- Papp, T., B. Fledelius, V. Schmidt, G.L. Kaján & R.E. Marschang. 2009. PCR-sequence characterization of new adenovirus found in reptiles and the first successful isolation of a lizard adenovirus. *Veterinary Microbiology* 134: 233-240. [veterinary report]
- Pascall, M., A. Murray & T. Colt. 2014. Reptile welfare: A sensory approach. *Animal Keepers' Forum* 41(11): 316-320. [descriptions of environmental and behavioral enrichment]
- Pavlašek, I., M. Lavicková, P. Horák & J. Kral. 1995. *Cryptosporidium varanii* n. sp. (Apicomplexa: Cryptosporidiidae) in emerald monitor (*Varanus prasinus* Schlegel, 1893) in captivity at Prague Zoo. *Gazella* 22: 99-108. [veterinary report]
- Peavy, B. 2010. *Asian Forest Monitor 2010 North American Regional Studbook*, 4th Edition. Dallas Zoo, Dallas. 106 pp. [census of animals in North American zoos]
- Pernetta, A.P. 2009. Monitoring the trade: Using the CITES database to examine the global trade in live monitor lizards (*Varanus* spp.). *Biawak* 3(2): 37-45. [discusses trade]
- Pfaff, S. & R.G. Sprackland. 1996. Taxon management account: Green tree monitor/emerald tree monitor *Varanus prasinus*. 5 pp. *In*: Hammack, S.H. (ed.), *American Zoo and Aquarium Association Lizard Advisory Group, Taxon Management Accounts*. Fort Worth Zoological Park, Fort Worth. [husbandry and breeding information]
- Pfaff, S. & R.G. Sprackland. 2000. Taxon management account: Green tree monitor/emerald tree monitor *Varanus prasinus*. Pp. 26-29. *In*: Hartdegen, R.W. (ed.), *1999 Asian Forest Monitor North American Regional Studbook*. Dallas Zoo, Dallas. [provides husbandry and breeding information]
- Pieh, A. 1999. Das Aquarium des zoologisch-botanischen Gartens, der Wilhelma, in Stuttgart. *Elaphe* 7(2): 74-77. [brief mention of *V. prasinus* being kept]
- Polleck, R. 2004. Haltung und Nachzucht vom *Varanus prasinus prasinus* (Schlegel, 1839). *Sauria* 26(2):

- 43-45. [description of husbandry and successful reproduction]
- Rehák, I. & P. Velenský. 1997. Biologie varanu *Varanus prasinus*, *V. rudicollis* a *V. salvadorii* v liské péci. *Gazella* 24: 108-138. [describes husbandry, successful reproduction at Prague Zoo, behavior and veterinary management]
- Rehák, I. & P. Velenský. 1998. Prague Zoo, Czech Republic. *International Zoo News* 45/2(283): 118-119. [documents husbandry, successful reproduction at Prague Zoo, and veterinary management]
- Rogner, M. 1997. Monitor Lizards. Pp. 9-37. *In*: Lizards: Volume 2. Krieger, Malabar. [presents general husbandry information]
- Salisbury, H. 2010. Keeping and breeding green tree monitors. *Practical Reptile Keeping*, April: 17-20. [describes husbandry and successful reproduction]
- Schaftenaar, W., G.M. Dorresteijn, J.M.C.H. Mensink & H.J.W.M. Cremers. 2000. An unusual infestation with rhabditid nematodes in a green tree monitor lizard (*Varanus prasinus*); diagnosis and treatment: A case report. 2000 Proceedings of the European Association of Zoo and Wildlife Veterinarians: 75-76. [veterinary report, describes parasites]
- Schmida, G. 2005. Die australischen Warane. *Die Aquarien- und Terrarien Zeitschrift* 58(2): 6-11. [briefly mentions the keeping of *V. prasinus* in Australia]
- Shepherd, C., K. Kecse-Nagy & D. Papp. 2005. Seizures and prosecutions: *Varanus prasinus*. *Traffic Bulletin* 20(3): 113. [describes the illegal trade and farming of *V. prasinus*]
- Shuter, A.D. 2014. A novel underwater foraging behavior observed in *Varanus prasinus* at the Wildlife Conservation Society's Bronx Zoo. *Biawak* 8(2): 61-63. [describes foraging behavior and husbandry]
- Spitsin, V.V. (ed.). 2006. Breeding of wild and some domestic animals at regional zoological institutions. Informational Issue of the Eurasian Regional Association of Zoos & Aquariums 25: 103, 227-228. (*In Russian*) [documents successful reproduction at Prague Zoo]
- Spitsin, V.V. (ed.). 2008. Breeding of wild and some domestic animals at regional zoological institutions. Informational Issue of the Eurasian Regional Association of Zoos & Aquariums 27: 109, 251-252. (*In Russian*) [documents successful reproduction at Prague Zoo]
- Spitsin, V.V. (ed.). 2009. Breeding of wild and some domestic animals at regional zoological institutions. Informational Issue of the Eurasian Regional Association of Zoos & Aquariums 28: 83, 230. (*In Russian*) [documents successful reproduction at Prague Zoo]
- Spitsin, V.V. (ed.). 2010. Breeding of wild and some domestic animals at regional zoological institutions. Informational Issue of the Eurasian Regional Association of Zoos & Aquariums 29: 80, 241-243. (*In Russian*) [documents successful reproduction at Prague Zoo]
- Spitsin, V.V. (ed.). 2012. Breeding of wild and some domestic animals at regional zoological institutions. Information on the Zoological Collections 2012. Informational Issue of the Eurasian Regional Association of Zoos & Aquariums 31: 40-41, 261-264. (*In Russian*) [documents successful reproduction at Prague Zoo]
- Sprackland, R.G. 1989. Mating and waiting: A status report on reproduction in captive monitor lizards (Sauria:Varanidae). Pp. 57-63. *In*: Gowen, R.L. (ed.), *Captive Propagation and Husbandry of Reptiles and Amphibians*. Special Publication #5. Northern California Herpetological Society. [presents some reproductive data]
- Sprackland, R.G. 1989. Captive maintenance of green tree monitors (*Varanus prasinus*) and their kin. Pp. 49-56. *In*: Gowen, R.L. (ed.), *Proceedings of the Northern California Herpetological Society*. [presents husbandry information]
- Sprackland, R.G. 1990. A preliminary study of food discrimination in monitor lizards (Reptilia: Lacertilia: Varanidae). *Bulletin of the Chicago Herpetological Society* 25(10): 181-183. [presents information on diet and husbandry]
- Sprackland, R.G. 1991. The emerald monitor lizard, *Varanus prasinus*. *Tropical Fish Hobbyist* 39(8): 110-114. [provides general husbandry information]
- Sprackland, R.G. 1991. A myriad of monitors. *Tropical Fish Hobbyist* 39(1): 130-138. [provides general husbandry information]
- Sprackland, R.G. 1991. *Giant Lizards*. TFH Publications, Neptune. 288 pp. [describes husbandry and breeding]
- Sprackland, R.G. 1993. Carnivorous lizards and their diet. *Vivarium* 5(5): 12-14. [provides information on diet]
- Sprackland, R.G. 1994. Emerald monitors: Lean, green, and rarely seen. *Reptiles* 1(5): 16-23. [provides general husbandry information]

- Sprackland, R.G. 1995. The emerald monitor (*Varanus prasinus*). *Reptilian* 4(1): 43-46. [provides general husbandry information]
- Sprackland, R.G. 1999. Emerald monitor. *Reptile & Amphibian Hobbyist* 4(11): 8-16. [discusses husbandry and rarity in the trade]
- Sprackland, R.G. 2009. *Giant Lizards*, 2nd Ed. TFH Publications, Neptune. 335 pp. [provides general husbandry and breeding information]
- Stanfill, M. 1995. Medical considerations. Pp. 62-64. *In: Card, W. (ed.), 1995 North American Regional Asian Forest Monitor Studbook*. Dallas Zoo, Dallas. [discussion of parasites]
- Strimple, P.D. 1997. Reptiles stolen from zoo. *Reptiles* 5(6): 29. [documents theft of *V. prasinus* from Sedgewick County Zoo]
- Switak, K.-H. 2006. *Adventures in Green Python Country*. Natur und Tier- Verlag GmbH. 362 pp. [describes early trade in *V. prasinus*]
- Sy, E.Y. 2015. Checklist of exotic species in the Philippine pet trade, II. Reptiles. *Journal of Nature Studies* 14(1): 66-93. [documents *V. prasinus* in illicit Philippine trade]
- Traffic. 2013. *Inspection Manual for Use in Commercial Reptile Breeding Facilities in Southeast Asia*. Secretariat of the Convention on International Trade in Endangered Species of Wild Fauna and Flora, Geneva, Switzerland. 81 pp. [presents a guide for wildlife officials; lists reproductive data and characteristics]
- Upton, S.J. 1993. Monitor-ing medicine. *Varanews* 3(1): 2. [brief veterinary report]
- Valaoras, G. 1998. *Monitoring of Wildlife Trade in the European Union: Assessing the Effectiveness of EU CITES Import Policies*. Traffic Europe, Brussels. 112 pp. [provides export figures for *V. prasinus*]
- van Kalken, C. 1994. Haisvesting van varanen. *Nieuwsbrief van de Nederlandse Doelgroep Varanen* 1(3): 24-27. [describes general husbandry]
- Vincent, M. & S. Wilson. 1999. *Australian Goannas*. New Holland, Sydney. 152 pp. [describes husbandry and breeding]
- Visser, G.J. 1996. Waranhaltung und Zucht im Zoo Rotterdam/Niederlande. *Monitor* 4(2): 27-31. [documents keeping *V. prasinus* and breeding attempts]
- Visser, G. 1992. Monitors and the Rotterdam Zoo. *Vivarium* 4(3): 19-22. [mentions briefly keeping *V. prasinus*, but animals died shortly after arrival; difficult to keep alive]
- Vobruba, M. 2005. A field trip to the history of monitor keeping in Zoo Plzen. Pp. 66-69. *In: Zoological and Botanical Garden Pilsen Annual Report 2005*. Zoologická a Botanická Zahrada Města Plzně, Plzeň. [describes history of varanid keeping at Pilsen Zoo; many confiscated *V. prasinus* acquired]
- Wellehan, J.F.X, A.J. Johnson, K.S. Latimer, D.P. Whiteside, G.J. Crawshaw, C.J. Detrisac, S.P. Terrell, D.J. Heard, A. Childress & E.R. Jacobson. 2005. Varanid herpesvirus 1: A novel herpesvirus associated with proliferative stomatitis in green tree monitors (*Varanus prasinus*). *Veterinary Microbiology* 105(2): 83-92. [veterinary report on viral infection]
- Wolf, D., M.G. Vrhovec, K. Failing, C. Rossier, C. Hermosilla & N. Pantchev. 2014. Diagnosis of gastrointestinal parasites in reptiles: Comparison of two coprological methods. *Acta Veterinaria Scandinavica* 56(44): 1-13. [veterinary report on parasites]
- Yogiara, A. Suwanto & W. Erdelen. 2001. Antibiotic resistance and genetic diversity of *Escherichia coli* isolated from Indonesian monitor lizards (*Varanus* spp.). *Jurnal Mikrobiologi Indonesia* 6(2): 45-49. [veterinary report on bacterial infections]
- Zurmond, F. & T. Brandenburg. 1982. Varane en Teju's. *Lacerta* 40(10/11): 223-224. [describes general husbandry]

### *Varanus reisingeri*

- Eidenmüller, B. 2009. *Warane: Lebensweise, Pflege, Zucht*. Herpeton Verlag, Offenbach. 207 pp. [brief discussion of husbandry and breeding information]
- Eidenmüller, B. & R. Wicker. 2005. Eine weitere neue Waranart aus dem *Varanus prasinus*-Komplex von der Insel Misol, Indonesien. *Sauria* 27(1): 3-8. [original species description; discusses how the species was first discovered at a dealer's

- facility]
- Hörenberg, T. & A. Koch. 2013. Report from the fifth annual meeting of the “AG Warane und Krustenechsen”. *Biawak* 7(1): 6. [briefly mentions *V. reisingeri* being kept by the Reptilium Zoo]
- Jacobs, H.J. 2008. Zucht von *Varanus reisingeri* Eidenmüller & Wicker, 2005 mit Vergleich der Jugendkleider der *V. prasinus*-Gruppe und Bemerkungen zu deren Taxonomie. *Sauria* 30(1): 5-12. [description of husbandry and successful reproduction; also discusses variation in juveniles of the *V. prasinus* complex]
- Mendyk, R.W. 2012. Reaching out for enrichment in arboreal monitor lizards. *Animal Keepers' Forum* 39(1): 33-36. [describes behavioral enrichment applicable to *V. reisingeri*]
- Natusch, D.J.D. & J.A. Lyons. 2012. Exploited for pets: The harvest and trade of amphibians and reptiles from Indonesian New Guinea. *Biodiversity Conservation* 21: 2899-2911. [discusses illicit trade]
- Spitsin, V.V. (ed.). 2012. Breeding of wild and some domestic animals at regional zoological institutions. Information on the Zoological Collections 2012. Informational Issue of the Eurasian Regional Association of Zoos & Aquariums 31: 40-41, 261-264. (*In Russian*) [documentation of *V. reisingeri* being kept in Eurasian zoos]