

Scavenging by Checkered Keelbacks, Fowlea piscator (Schneider 1799), at Ameenpur Lake, Hyderabad, India

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Thirty-four reptilian species in 12 families have been documented in and around Ameenpur Lake, which covers an area of 0.38 km² in Patancheru Mandal, Medak District, Telangana State, India (17.5208°N, 78.3297°E) (Sailu et al. 2017). The Checkered Keelback (*Fowlea piscator*) is distributed widely throughout southern Asia (Wallach et al. 2014; Uetz et al. 2021) and is likely the most abundant snake in India (Whitaker and Captain 2004). These snakes feed mainly on fish and frogs (Daniel 2002; Das 2010, 2012; Hasan et al. 2014; Hossain 2016) but occasionally eat turtles (Gyawali 2019), birds, small mammals (Whitaker and Captain 2004), and even arthropods (Wadeker 1963; Ahsan 1983; Pough et al. 2001; Hossain 2016).

During field trips to Ameenpur Lake, we observed Checkered Keelbacks scavenging fish. On 4 January 2018, we encountered an adult devouring a dead Catla (*Labeo catla*), and on 15 May 2018, we observed a subadult feeding on Tilapia (*Oreochromis niloticus*) waste (Fig. 1). Both were near a fish-waste dumping site.

Scavenging by snakes is not uncommon (e.g., DeVault and Krochmal 2002; Lillywhite et al. 2002; Ghosh and

Chaudhuri 2015), and Checkered Keelbacks have been documented scavenging a road-killed Wide-spread Fungoid Frog (*Hydrophylax bahuvistara*) (Wewhare and Pandey 2021) and discarded rice and chicken (Moktadir and Hasan 2016). Whether such scavenging is triggered by a reduction in natural food resources or merely an expression of the species' opportunistic feeding habits (Moktadir and Hasan 2016) is unknown.

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Literature Cited

Ahsan, M.F. 1983. Study of food items. Stomach analysis of the Checkered Keelback snake, *X. piscator* in Bangladesh. *Fisheries Information Bulletin* 1: 52–65.

Daniel, J.C. 2002. *The Book of Indian Reptiles and Amphibians*. Bombay Natural History Society and Oxford University Press, Mumbai, India.

Das, I. 2010. A Field Guide to the Reptiles of Southeast Asia. New Holland Publishers Ltd., London, UK.

Das, I. 2012. A Naturalist's Guide to the Snakes of South-east Asia: Malaysia, Singapore, Thailand, Myanmar, Borneo, Sumatra, Java and Bali. John Beaufoy Publishing Ltd., Oxford, UK.





Fig. 1. An adult Checkered Keelback (Fowlea piscator) was scavenging a dead Catla (Labeo catla) (left) and a subadult feeding on Tilapia (Oreochromis niloticus) waste (right) at Ameenpur Lake in Patancheru Mandal, Medak District, Telangana State, India. Photographs by Parakuth Pradeep.

- DeVault, T.L. and A.R. Krochmal. 2002. Scavenging by snakes: an examination of the literature. *Herpetologica* 58: 429–436. https://doi.org/10.1655/0018-0831(2002)058 [0429: SBSAEO]2.0.CO;2.
- Gyawali, K. 2019. Cheloniophagy by Checkered Keelback, *Xenochrophis piscator* (Schneider, 1799) on Indian Peacock Softshell Turtle, *Nilsonnia hurum* (Gray, 1830). *Bionotes* 21: 67–70.
- Ghosh, A. and A. Chaudhuri. 2015. *Amphiesma stolata* (Buff Striped Keelback). Diet/scavenging. *Herpetological Review* 46: 442.
- Hasan, M.K., M.M.H. Khan, and M.M. Feeroz. 2014. Amphibians and Reptiles of Bangladesh. A Field Guide. Arannayk Foundation, Dhaka, Bangladesh.
- Hossain, M.L. 2016. Food habits of checkered keelback, *Xenochrophis piscator* (Schneider, 1799), in Bangladesh. *Bangladesh Journal of Zoology* 44: 153–161. https://doi.org/ 10.3329/bjz.v44i1.30185.
- Lillywhite, H.B., C.M Sheehy III, and M.D. McCue. 2002. Scavenging behaviors of cottonmouth snakes at island bird rookeries. Herpetological Review 33: 259–260.
- Moktadir, N.A. and M.K. Hasan. 2016. Unusual feeding behavior of the Checkered Keelback Xenochrophis piscator on Jahangirnagar University Campus, Savar, Dhaka, Bangladesh. Reptile Rap 18: 32–33.
- Pough, F.H., R.M. Andrews, J.E. Cadle, M.L.Crump, A.H. Savitzky, and K.D.

- Wells. 2001. Herpetology. 2nd ed. Prentice Hall, Upper Saddle River, New Jersey, USA.
- Sailu, G., B.L. Narayana, D. Ramaiyan, B. Naresh, V.V. Rao, H. Adepu, R. Khandelwal, P. Devulapalli, and P. Krishna. 2017. Faunal diversity of Ameenpur Lake, Telangana state, India: A biodiversity heritage site. *Journal of Entomology and Zoology Studies* 5: 512–526. https://doi.org/10.22271/j.ento.2017.
- Uetz, P., P. Freed, R. Aguilar, and J. Hošek. 2021. *The Reptile Database*. http://www.reptile-database.org/>.
- Wadeker, D.L. 1963. The diet of Checkered Keelback snake (Xenochrophis piscator). Journal of the Bombay Natural History Society 60: 263–268.
- Wallach, V., K.L. Williams, and J. Boundy. 2014. Snakes of the World: A Catalogue of Living and Extinct Species. CRC Press, Boca Raton, Florida, USA.
- Wewhare, N. and U. Pandey. 2021. First record of scavenging by a Checkered Keelback, *Fowlea piscator* (Schneider 1799) (Natricidae) from Western Maharashtra, India. *Reptiles & Amphibians* 28: 348–349. https://doi.org/10.17161/randa.v28i2.15638.
- Whitaker, R. and A. Captain. 2004. Snakes of India. The Field Guide. Draco Books, Chennai, India.