

SUPPLEMENTAL INFORMATION

**HISTORICAL EVIDENCE ON THE ORIGINS OF EASTERN HELLBENDERS
(*CRYPTOBRANCHUS ALLEGANIENSIS*) IN THE SUSQUEHANNA RIVER
WATERSHED, EASTERN USA**

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The following material is provided by the authors and was not subject to review or editing by *Herpetological Conservation and Biology*.

PART 1: Archaeological and Paleontological Sites

Site Name	Site Age	State	Range Location	Presence	Source
Ashworth Site (15Bu236)	7900 BCE–1500 CE	KY	Core (Salt-Ohio)	Absent	DiBlasi 1981
Banks V (40CF111)	800–900 CE	TN	Core (Tennessee)	Absent	Robison 1977
Bat Cave	8,000–14,000 BCE	MO	Core (Gasconade)	Present	Hawksley et al. 1973, Woodruff 2016
Bell Cave (Acb-2)	Ca 10,000 BCE	AL	Core (Tennessee)	Present	Holman et al. 1990
Biltmore Mound (31BN174)	400–600 CE	NC	Core (Swannanoa–Tennessee)	Present	Kimball et al. 2010
Byrd Leibhart (36YO170)	1675–1685 CE	PA	Susquehanna	Absent	Webster 1985
Carter Creek Site (11Md817)	ca. 320 CE	IL	Out (Illinois-Mississippi)	Absent	Holt 2005
Cathead Creek (9Mc360)	300–700 CE	GA	Out (Atlantic-coastal)	Absent	Reitz and Quitmyer 1988
Chota (40MR2)	1700–1800 CE	TN	Core (Little Tennessee)	Present	Bogan 1976
Church Rockshelter #1 (31WT155)	500–1000 CE	NC	Core (Watauga-Tennessee)	Present	Whyte 2013a
Church Rockshelter #2 (31WT39)	500 BCE–1600 CE	NC	Core (Watauga-Tennessee)	Present	Whyte 2013b
Clark's Cave	Ca. 8000 BCE	VA	Out (James)	Absent	Guilday et al. 1977
Coweeta Creek (31MA34)	1700–1840 CE	NC	Core (Little Tennessee)	Present	VanDerwarker and Detwiler 2000
Crab Orchard (44TZ1)	1400–1600 CE	VA	Core (Clinch-Tennessee)	Present	Lapham 2005
Croley-Evans (15KX24)	1000–1600 CE	KY	Core (Cumberland-Ohio)	Present	Jeffries et al. 1996
Cumberland Cave	Pleistocene	MD	Out (Potomac)	Present	Bredhoeft 2010
Dallas Hylton (44Hr20)	800–1600 CE	VA	Out (Roanoke-Atlantic)	Absent	VanDerwarker 2001

Drew (36AL62)	1150–1250 CE	PA	Core (Ohio)	Present	Buker 1970
Dust Cave (1Lu496)	10,000 BP	AL	Core (Tennessee)	Absent	Walker et al. 2001
Eastman Rockshelter (40SL34)	200 BCE–300 CE	TN	Core (Tennessee)	Present*	Manzano 1986
Engelbert Site (SuBi-300)	2500 BCE–1600 CE	NY	Susquehanna	Absent	Rinehart 1999, Biewesaw 2006
Ervin Site (40MU174)	ca. 7500–4500 BP	TN	Core (Tennessee)	Present	Hofman 1985
Eschelma Site (36LA12)	1600–1625 CE	PA	Susquehanna	Absent	Guilday et al. 1962
Eva Site (40BN12)	ca. 6000 BP	TN	Core (Tennessee)	Absent	Hofman 1984
Fairchance Mound (46MR13)	ca. 500 CE	WV	Core (Ohio)	Present	Guilday and Tanner 1969
Feltus Site (22Je500)	700–1200 CE	MS	Out (Lower Mississippi)	Present	Kassabaum 2014
First Unnamed Cave	500–1600 CE	TN	Core (Tennessee)	Present	Simek et al. 1997
Fisher Site (11WI5)	300–1600 CE	IL	Out (Kankakee-Mississippi)	Absent	Parmalee 1962
Frankstown Cave	Pleistocene	PA	Susquehanna (Juniata)	Absent	Richmond 1964
Friendsville (18GA23)	1000–1200 CE	MD	Core (Youghiogheny)	Present	Jefferson Paterson Park and Museum 2010
Fusihatchee (1EE191)	1600–1815 CE	AL	Out (Alabama River-Mobile Bay)	Absent	Pavao-Zuckerman 2007
Gaston site (31Hx7)	800–1600 CE	NC	Out (Roanoke-Atlantic)	Absent	VanDerwarker 2001
Gnagey (36SO55)	800–1200 CE	PA	Core (Youghiogheny)	Present	George 1983
Gravelly (44Hr29)	800–1600 CE	VA	Out (Roanoke-Atlantic)	Absent	VanDerwarker 2001
Hamilton Cave	Pleistocene	WV	Out (Potomac)	Present	Bredehoeft 2010
Henderson Rocks (46TA1)	Late Prehistoric	WV	Core (Monongahela)	Present	Tanner 1981

Higgs Site (40LO45)	ca. 2850 BP	TN	Core (Clinch-Tennessee)	Absent	Fielder 1974
Indian Hill (1WX15)	300–1000 CE	AL	Out (Alabama River-Mobile Bay)	Present	Lovett 2010
Isle of Hope	Pleistocene	GA	Out (Atlantic-coastal)	Absent	Hulbert and Pratt 1998
Johnston (36IN2)	1400–1580 CE	PA	Core (Conemaugh)	Present	Guilday 1955
Jordan's Landing (31Br7)	800–1600 CE	NC	Out (Roanoke-Atlantic)	Absent	VanDerwarker 2001
King's Bay (9Cam171a)	300–700 CE	GA	Out (Atlantic-coastal)	Absent	Reitz and Quitmyer 1989
Koehler (44Hr6)	800–1600 CE	VA	Out (Roanoke-Atlantic)	Absent	VanDerwarker 2001
Leatherwood Creek (44Hr1)	800–1600 CE	VA	Out (Roanoke-Atlantic)	Absent	VanDerwarker 2001
Linville Cave (40SL24)	200 BCE–300 CE	TN	Core (Tennessee)	Present	Dennison et al. 2013
Logan Site (46LG4)	1000–200 BP	WV	Core (Guyandotte - Ohio)	Absent	Cole 2016
Lower Saratowm (31Rk1)	800–1600 CE	NC	Out (Roanoake-Atlantic)	Absent	VanDerwarker 2001
Mammoth Cave	Pliocene-Pleistocene	KY	Core (Green-Ohio)	Present	Santucci et al. 2001
McKees Rocks (36AL16)	1000–1550 CE	PA	Core (Ohio)	Present	Lang 1968
Meadowcroft Rockshelter (36WH297)	1250 BCE–1600 CE	PA	Core (Ohio)	Present	Adovasio et al. 1980
Melrose Caverns	Late Pleistocene	VA	Out (Potomac)	Present	Hubbard and Grady 2001
Mon City Site (36WH737)	ca. 1550 CE	PA	Core (Monongahela-Ohio)	Absent	Church 1994
Mount Carbon Site (46FA7)	1400–1500 CE	WV	Core (Kanawha-Ohio)	Present	Guilday and Tanner 1965
Mount Joy (44BO2)	ca. 1350 CE	VA	Out (James-Chesapeake Bay)	Absent	Whyte 2002

Mykut Rockshelter (36Hu143)	900–1650 CE	PA	Susquehanna (Juniata)	Absent	Raber 2008
Natural Chimneys	Late Pleistocene	VA	Out (Shenandoah-Potomac)	Absent	Holman 1986
New Paris No. 4	Late Pleistocene	PA	Susquehanna (Juniata)	Absent	Guilday and Bender 1958, Guilday et al. 1964
New Trout Cave	Pleistocene	WV	Out (Potomac)	Present	Bredhoeft 2010
Oeff I (40CF32)	800–900 CE	TN	Core(Tennessee)	Present*	Robison 1977
Park site (40CF5)	800–900 CE	TN	Core (Tennessee)	Absent	Robison 1977
Piper Airport Site 1 (36CN210)	1385–1560 CE	PA	Susquehanna (West Branch)	Absent	Payne 2009
Prairie Creek (12DA9)	Late Pleistocene	IN	Out (White-Ohio)	Absent	Holman 1993
Ravensford (31SW78/136)	1150–1750 CE	NC	Core (Little Tennessee)	Present	Compton 2014
Ripplemead Fissures	7000–9000 BP	VA	Core (New River-Ohio)	Present	Weems and Higgins 1977
Saltville (SV-2)	Late Pleistocene	VA	Core (Tennessee)	Present	Holman 1986
Schultz (36LA7)	1575–1600 CE	PA	Susquehanna	Absent	Webster 1985
Sheep Rockshelter (36HU1)	ca. 6900 BCE–1460 CE	PA	Susquehanna (Juniata)	Absent	Guilday and Parmalee 1965, Kinsey 1983
Sheriden Cave (33Y252)	12,000–9170 BP	OH	Out (Great Lakes)	Absent	Redmond and Tankersley 2005
Spencer (40DV191)	900–1150 CE	TN	Core (Cumberland-Ohio)	Absent	Spears et al. 2008
Stockton (44Hr35)	800–1600 CE	VA	Out (Roanoke-Atlantic)	Absent	VanDerwarker 2001
Strickler (36LA3)	1645–1665 CE	PA	Susquehanna	Absent	Webster 1985
Tomotley (40MR5)	1000–1750 CE	TN	Core (Little Tennessee)	Present	Baden 1983
Toqua (40MR6)	1300–1750 CE	TN	Core (Little Tennessee)	Present	Bogan 1980

Trout Cave	Pleistocene	WV	Out (Potomac)	Present	Bredehoeft 2010
Turpin Site (33Ha19)	500–1400 CE	OH	Core (Ohio)	Absent	Theiler and Harris 1988
Varner (36GR1)	1200–1400 CE	PA	Core (Monongahela)	Present	Guilday 1960
Vir 150 (44Mc645)	800–1600 CE	VA	Out (Roanoake-Atlantic)	Absent	VanDerwarker 2001
Warren Wilson (31BN29)	1000–1500 CE	NC	Core (Swannanoa-Tennessee)	Present	Wing 1976
Washington Boro (36LA8)	1600–1625 CE	PA	Susquehanna	Absent	Webster 1985
Worm Hole Cave	Late Pleistocene	WV	Out (Potomac)	Absent	Holman 1994
Zoo Cave	Late Pleistocene	MO	Out (White-Mississippi)	Absent	Holman 1974

Range location: Indicates whether site is located in the core range, Susquehanna River watershed, or outside modern range of hellbenders (“out”). Specific sub-basin locations are provided in parentheses.

CE = Common Era

BCE = Before the Common Era

BP = Before Present

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PART 2: Archives, Databases, Bibliographies and Search Terms Used to Locate Historical Sources

List of Archives, Databases, and Bibliographies Searched

1. Google Books: <https://books.google.com/>
2. Forgotten Books: <https://www.forgottenbooks.com>
3. Biodiversity Heritage Library: <https://www.biodiversitylibrary.org/>
4. Newspapers.com: <https://www.newspapers.com/>
5. Chronicling America: <https://chroniclingamerica.loc.gov/>
6. Internet Archive: <https://archive.org/>
7. Fulton History: <http://fultonhistory.com/>
8. Pennsylvania Power Library: <https://www.powerlibrary.org/>
9. Genealogy Bank: <https://www.genealogybank.com/>
10. Help the Hellbender: <https://ag.purdue.edu/extension/hellbender/Pages/publications.aspx>
11. Pennsylvania Angler Legacy Issues Archive:
<http://www.fishandboat.com/Transact/AnglerBoater/LegacyIssues>
12. Vertnet: <http://vertnet.org/>
13. Jstor: <https://www.jstor.org/>
14. Sidney Memorial Library Digital Archives: <http://sidney.advantage-preservation.com/>
15. Newspaper Archive: <https://newspaperarchive.com/>
16. Google Newspaper Archive: <https://news.google.com/newspapers>

Search Terms for Historical Descriptions of Hellbender Range

Each of the archives, databases, and bibliographies listed were searched using the following list of common and scientific names for hellbenders:

- 1) *Cryptobranchus*
- 2) *Menopoma* (including alternate spelling *Menopome*)
- 3) *Salamandra horrida*
- 4) *Protonopsis*
- 5) *Abranchus*
- 6) hellbender (including variant spellings hell-bender, hell bender, and hellebender)
- 7) waterdog (including variant spellings water-dog and water dog)
- 8) Alleghany Salamander (including variant spellings Allegany, Allegheny, and Allegeny)
- 9) ground puppy
- 10) tweeg
- 11) grampus

When more than 1000 hits were returned, the search was narrowed using the following terms:

- 1) range
- 2) distribution

- 3) “found in”
- 4) “known from”

Search Terms for Location-specific Occurrences from New York, Pennsylvania, and Maryland

Each archive/database/bibliography was searched using all possible combinations of the names and location terms listed below (one term from list 1 + one term from list 2)

List 1: Scientific and Common Names	List 2: Location Terms
<i>Cryptobranchus</i>	New York
<i>Menopoma</i>	Pennsylvania
<i>Menopome</i>	Maryland
<i>Salamandra horrida</i>	Susquehanna
<i>Protonopsis</i>	Chenango
<i>Abranchus</i>	Chemung
hellbender	Sinnemahoning
hell-bender	Tioga
hell bender	Pine
hellebender	Bald Eagle
waterdog	Unadilla
water dog	Tioughnioga
water-dog	Swatara
Alleghany salamander	Allegheny
Allegany salamander	Allegany
Allegheny salamander	Monongahela
Allegeny salamander	Ohio
ground puppy	Youghiogheny
tweeg	French
grampus	

PART 3: Historical Natural History Sources

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