

A BIBLIOGRAPHY OF ALL KNOWN PUBLICATIONS & REPORTS ON THE GULF STURGEON *ACIPENSER OXYRINCHUS DESOTOI*

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30 September 2015

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This Gulf Sturgeon Bibliography with key topics identified is Component 2 (of 3 components) comprising an unpublished project report from the United States Geological Survey (USGS), Southeast Ecological Science Center (SESC), and the Sturgeon Quest Initiative, to the National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service, Habitat Conservation Division, Southeast Regional Office - in fulfillment of an interagency cooperative agreement for technical support regarding development of habitat suitability assessment tools for Endangered Species Act (ESA) listed sturgeon species of the United States East and Gulf Coasts (NOAA Agreement No. NFFN 5300900021, Prescott Brownell, NOAA Project Officer). Literature references compiled herein form the basis of knowledge upon which the Categorical Habitat Attribute Acceptance Tool (CHAAT), Component 1 of this tripartite report, is based.



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Gulf Sturgeon Acipenser oxyrinchus desotoi

HOW TO USE THIS FUNCTIONAL BIBLIOGRAPHY

This functional bibliography is meant to be a complete and comprehensive bibliography of all discoverable reports containing information on the Gulf Sturgeon (GS). This bibliography contains all known reports presenting, documenting, summarizing, listing, or interpreting information on the GS through 31 August 2015. Report citations are organized into four sections. Section I includes published scientific journal articles, books, dissertations and theses, published and unpublished technical reports, published harvest prohibitions, and online articles reporting substantive scientific information. Section II includes newspaper, newsletter, magazine, book, agency news releases, and online articles reporting on GS occurrences, mortalities, captures, jumping, boat collisions, aquaculture, historical photographs, and other largely non-scientific or anecdotal issues. Section III consists of books, theses, ecotour-guides, media articles, editorials, and blogs reporting a mix of anecdotal information, historical information, and opinion on GS conservation, habitat issues, exploitation, aquaculture, and human interaction - but presenting very limited or no substantive scientific information. Section IV includes videos, films and audio recordings documenting GS life history and behavior.

Each reference includes a bibliographic citation, as well as a brief annotation of key topics in brackets, where possible. The names of journals, theses, dissertations, and books are given in bold within each citation, and relevant page numbers are noted in parentheses at the end of citations, where applicable. Newspaper and magazine article titles are placed within parentheses. Key topic annotations are inserted in bracketed italics on a separate line. If the reference reports GS information under a different common or scientific name (e.g., Atlantic Sturgeon, Common Sturgeon, Sturgeon, Sea Sturgeon, *Acipenser oxyrinchus oxyrinchus*, *Acipenser oxyrhynchus* or *Acipenser sturio*), a notation to that effect is given within the key words annotation line, e.g., [Reported as “Atlantic sturgeon”]. A small number of reports could not be obtained. These include historical reports from newspapers and magazines long out of circulation. In these limited cases, titles are still provided to substantiate their existence. Other reports that are no longer readily available, but which have been obtained during preparation of this bibliography, have been archived in hardcopy and/or as scanned pdf files at USGS, SESC. Copies of such hard to obtain reports, if non-copyrighted, may be available upon request from USGS corresponding author, via email: mrandall@usgs.gov.

Gulf Sturgeon Bibliography

To render this bibliography more readily usable for searching and listing references by keyword or key topic, an online companion has been prepared as an EndNote, Version X6® file (named USGS-SESC-SturgeonQuest-GulfSturgeonBiblio_v3.enl) and data directory (USGS-SESC-SturgeonQuest-GulfSturgeonBiblio_v3.Data), compressed into a Zip file (USGS-SESC-SturgeonQuest-GSBiblio_EndNote_v3.zip). An Adobe Acrobat PDF version is also provided (USGS-SESC-SturgeonQuest-GulfSturgeonBibliography_v3.pdf). This resource is available online at the following United States Geological Survey, Southeast Ecological Science Center webpage:

http://fl.biology.usgs.gov/coastaleco/sturgeon_quest/sturgeon_bibliography.html

LIST OF ABBREVIATIONS

ACF	Apalachicola-Chattahoochee-Flint river system
ACT	Apalachicola-Chattahoochee-Tombigbee river system
CPUE	Catch per unit effort
FY	Fiscal year
GS	Gulf sturgeon (<i>Acipenser oxyrinchus desotoi</i>)
SESC	Southeast Ecological Science Center, Gainesville, FL
USGS	United States Geological Survey
YOY	Young of year

CITATION

Price, M., U. A. Nash, J. Adler, C. Littles, A. N. Randolph, B. Gillett, M. Randall, K. J. Sulak, S. J. Walsh, and P. Brownell. 2015. A bibliography of all known publications and reports on the Gulf sturgeon, *Acipenser oxyrinchus desotoi*. United States Geological Survey, Southeast Ecological Science Center, Gainesville, FL. Updated 30 September 2015, 119 pp. Accessible online at the United States Geological Survey, Wetlands and Aquatic Resources Science Center webpage in EndNote Version X6® format (USGS-SESC-SturgeonQuest-GSBiblio_EndNote_v3.zip) and as an Adobe Acrobat PDF file (USGS-SESC-SturgeonQuest-GulfSturgeonBibliography_v3.pdf)

http://fl.biology.usgs.gov/coastaleco/sturgeon_quest/sturgeon_bibliography.html

SECTION I

PUBLISHED SCIENTIFIC JOURNAL ARTICLES, BOOKS, DISSERTATIONS AND THESES, PUBLISHED AND UNPUBLISHED TECHNICAL REPORTS, PUBLISHED HARVEST PROHIBITIONS, AND ONLINE ARTICLES WITH SUBSTANTIVE GULF STURGEON LIFE HISTORY AND HABITAT CONTENT.

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Photo Credit: Patricia Tierney

Gulf Sturgeon -Suwannee River - 2012

SECTION II

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[Distribution; life history]



Gulf Sturgeon - Lake Borgne, LA, 1978 – 387 lb

Photo provided by M. F. Mettee, Geological Survey of Alabama. Original source unknown.

SECTION III

BOOKS, THESES, ECOTOUR-GUIDES, MEDIA ARTICLES, EDITORIALS, AND BLOGS PRESENTING A MIX OF NON-ORIGINAL, ANECDOTAL, AND OUTREACH INFORMATION OR OPINION ON GULF STURGEON LIFE HISTORY, CONSERVATION, EXPLOITATION, AQUACULTURE, AND HUMAN INTERACTION.

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[Historical use]

Bourque B. 1995. **Diversity and complexity in prehistoric maritime societies: A Gulf of Maine perspective.** Plenum Press, New York, NY. (Refer to page 89).

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Carey, R. A. 2005. **The philosopher fish: Sturgeon, caviar, and the geography of desire.** Counterpoint (Perseus Books Group), New York, NY. 333 pp. (Refer to pp. 7, 11, 15, 17-18, 34).

[Diet and feeding; distribution; fishery products; historical fishery; life history; population abundance; stock enhancement]

Claflin, W. H., Jr. 1931. The Stalling's Island Mound, Columbia County, Georgia. **Peabody Museum of American Archaeology and Ethnology Papers** 14(1). Cambridge.

[Historical use]

Clark, W. 1998. UF/IFAS aquaculture and pond management update. Sturgeon research- A national initiative. **Water Works: Newsletter highlighting Aquaculture and Pond Management Program UF Cooperative Extension Service/IFAS** 2(4):4-8. (Refer to page 4, 6, and 8)

[Aquaculture]

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[Habitat alteration; Pearl River-Louisiana; pollution, contaminants, and excess nutrient impacts; population abundance]

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[Boat collisions; jumping; migration; Suwannee River]

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[Florida; historical range]
- Gainesville Sun. 2011m. "Editorial: Leaping sturgeon." 26 July 2011, Gainesville, FL.
[Boat collisions; jumping; Suwannee River]
- Hamann, R. 2013. Can the Endangered Species Act save the Apalachicola? **Georgia State University Law Review** 29(4):1025-1062. Summer 2013
[Dam impacts; habitat alteration]
- Herman, R. 2011. **A sturgeon's view of things**. Blog. Accessed 10 Aug 2014. Available online at <http://www.suwanneeriverchamber.com/downloads/SturgeonsView.pdf>
[Outdoor recreation]
- Hoover, A. 2002. **A century of sturgeon, the history, biology and future of the Gulf of Mexico sturgeon in Florida**. Unpublished technical manuscript, Master of Science, University of Florida, Gainesville, FL. 91 pp.
[Diet and feeding; food fishery; historical fishery; life history; protection status; stock enhancement; sturgeon catch; temperature effects]
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[Erroneously described as one of two vegetarian fishes; reported as "sturgeon"]
- McFadden, P. S., and A. Palmiotto. 2012. Archaeological investigations at Bird Island (8DI52) Dixie County, Florida. **Laboratory of Southeastern Archaeology, Department of Archaeology, University of Florida Technical Report** No. 14. Gainesville, FL, April 2012, 108 pp.
[Historical fossil evidence]
- Molloy, J. 2003. **From the swamp to the keys, a paddle through Florida history**. University Press of Florida, Gainesville, FL. 220 pp. (Refer to p. 82).
[Distribution; myth of cool springs; outdoor recreation; protection status; Suwannee River]
- Mones, M. P., N. J. Wallis, and K. E. Sassaman. 2012. Archaeological investigations at Deer Island, Levy County, Florida. **Laboratory of Southeastern Archaeology, Department of Archaeology, University of Florida Technical Report** No. 15. Gainesville, FL, September 2012, 106 pp.
[Historical fossil evidence]
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[Outreach; mark-recapture; population abundance]

- Parauka, F. M. 2012. Gulf sturgeon volunteers make fall population survey possible. **Field Notes – News from the Panama City Field Office**. United States Fish and Wildlife Service, Panama City, FL. March 2012, p. 1.
[Outreach; mark-recapture; population abundance]
- Pine, W. 2007. Faculty Focus: Minimum flows and fish resources. **Water Works: Newsletter of the UF/IFAS Department of Fisheries and Aquatic Sciences**. April 2007.
[Mark-recapture]
- Pouder, D. B. 1999. UF/IFAS aquaculture and pond management update. Sturgeon nutrition project. **Water Works: Newsletter highlighting Aquaculture and Pond Management Program UF Cooperative Extension Service/IFAS** 3(2):4.
[Aquiculture]
- Pouder, D. B. 2002. UF/IFAS Blountstown aquaculture facility closed. **Water Works: Highlighting Programs in Fisheries and Aquatic Sciences, Aquiculture, and Pond Management UF Cooperative Extension Service/IFAS** 6(1):1.
[Aquiculture]
- Richard, J. 2000. Sturgeon harvest at Sam Mitchell Aquaculture demonstration farm. **Water Works: Newsletter highlighting Aquaculture and Pond Management Program UF Cooperative Extension Service/IFAS**. 4(1):1-7.
[Aquiculture]
- Richard, J. 2001. Sturgeon trackers. **Water Works: Newsletter highlighting Programs in Fisheries and Aquatic Sciences, Aquiculture, and Pond Management UF Cooperative Extension Service/IFAS** 5(3):1-3.
[Population status]
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[Historical use]
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[Habitat; management plan]
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[Historical use]
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[Life history; outreach]

- Swanton, J. R. 1946. The Indians of southeastern United States. **Smithsonian Institution, Bureau of American Ethnology Bulletin**. No. 137. Washington, DC. (Refer to page 338).
[Historical use]
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[Life history; protection status]
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[Jumping; outdoor recreation; Suwannee River]
- Tierney, P. 2010. The Gulf sturgeon (*Acipenser oxyrinchus desotoi*, Vladykov 1955) a literature summary of the magnificent fish from a Florida perspective. Unpublished manuscript. Florida Institute of Technology, Melbourne, FL. 27 April 2010, 15 pp. [USGS-SESC Archive Document].
[Diet and feeding; habitat; life history; pollution, contaminants, and excess nutrient impacts; population abundance; protection status; spawning]
- Tierney, P. 2012. On becoming a sturgeon enthusiast – A Florida girl's story. **Scute News** 1(1): 20-21, Hillsboro, OR.
[Aquaculture; narrative; outreach]
- Wikipedia. 2012. **Gulf sturgeon**. Available online at http://en.wikipedia.org/wiki/Gulf_sturgeon
Accessed 26 June 2012.
[Distribution; jumping; life history]



Gulf Sturgeon - Coosa River, AL

Photo provided by M. F. Mettee, Geological Survey of Alabama.
Original source: Elmore County Historical Society

SECTION IV

AUDIO RECORDINGS, VIDEOS AND FILMS DOCUMENTING GULF STURGEON LIFE HISTORY AND BEHAVIOR

Anonymous. 2011. **Aardvark's Safari, Suwannee River at Manatee Springs State Park, Gulf sturgeon acrobatics.** Video. 9.5 minutes. May 31, 2011. Available online at <http://www.youtube.com/watch?v=tMrAFNPl-7I&list=PL68732B76BA241546>
[Jumping; Suwannee River]

Anonymous. 2011. **Gulf sturgeon tagging, US Fish and Wildlife Service, Yellow River.** Video. 6 minutes. 19 October 2011. Available online at http://www.youtube.com/watch?v=ERL_cYsPFjo&index=13&list=PL68732B76BA241546.
[USFWS scientists capture and tag GS; Yellow River]

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[Egg sampling; protection status]

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[Sturgeon fishing on Apalachicola River, 1920s to 1983; Italian fishermen; 35-40 ft long powered boats; 25-30 boats fished near 'White Beacon' close to town of Apalachicola, mid-March to April; May-June, October in Brothers River; 9.5 inch stretch-mesh nets, 45 meshes deep, 300 ft long, drift-netting; 150 ft set nets, 25 meshes deep, anchored with poles; set nets in mouth of Brothers River, Little Brothers River; set parallel to the current; Gulf sturgeon caught up to 200 lb-1983; shipped to New York; price 18 cents per lb; refers to Choctawhatchee River, St. Marks River, East River, Lake Wimico, St. Johns River, Ochlockonee River sturgeon fishery]

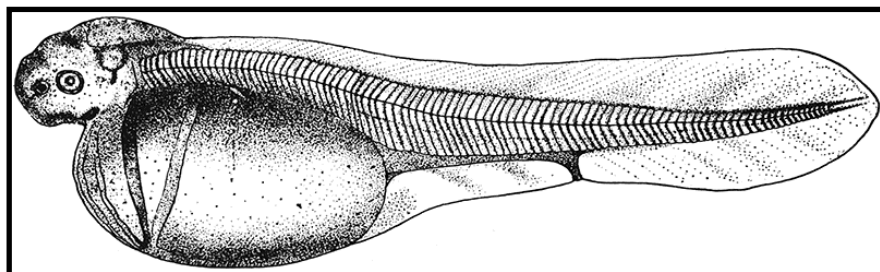
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[Sturgeon catch-Suwannee River-early 1900s; industrial fishing in spring, 16" stretch mesh nets, April-May; sturgeon catch-200-300 lb; dressed 100 lb.; price 50 cents per lb; shipped to Cedar Key, then New York City; caviar preparation; Eric Odlund "King of the Suwannee River"]
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[Age determination; aquiculture; habitat use; protection status]
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[Acoustic telemetry; CPUE; diet and feeding; distribution; habitat; habitat alteration; habitat restoration; habitat use; juveniles; mark-recapture; migration; mortality; movement; Pascagoula River-Mississippi]
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[USFWS scientists capture and tag GS; Escambia River]

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[Habitat; life history; protection status; reported as “Atlantic sturgeon”]

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[Habitat; jumping; life history; protection status]

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[Boat collisions; jumping; physiology; Suwannee River]



Atlantic Sturgeon Yolksac Larva (Free Embryo), from Ryder 1890 {Mississippi Commission on Wildlife, 1974 #631}