

Anthropology 6186/4930

Sec SD61

Spring 2026

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Dr. Susan D. deFrance

1350-B Turlington Hall

Office hours Tues and Thurs: 9:30-10:30 am

Thurs 2:30-4:00 pm and by appt.

T | Period 7 - 9

(1:55 PM - 4:55 PM)

The Archaeology of Maritime Adaptations

This seminar examines human adaptations to maritime and coastal settings using evidence from archaeological, ethnohistoric and ethnographic contexts. Issues to be examined include:

1. DEFINITIONS OF MARITIME ADAPTATIONS
2. CHARACTERISTICS OF MARINE RESOURCES AND HABITATS
3. HISTORY OF INVESTIGATIONS
4. TECHNOLOGY AND ORGANIZATION OF MARITIME PREDATION
5. OWNERSHIP, TERRITORY, AND RESOURCE RIGHTS
6. POPULATION, SETTLEMENT AND SITE SIZE
7. HEALTH AND BIOLOGY OF MARITIME POPULATIONS
8. ECONOMIC AND POLITICAL ORGANIZATION
9. COMPLEXITY OF MARITIME SOCIETIES
10. ETHNOGRAPHY OF MARITIME PEOPLES
11. MODERN ISSUES RELATED TO CONSERVATION, CLIMATE CHANGE, AND SEA LEVEL RISE

Populations and cultures exhibiting maritime adaptations, among others, include: Jomon, Pacific Islands, Yagan, Andean Coast, Chumash, Northwest Coast, Eskimo/Aleut, Red Paint Archaic, Calusa, European Mesolithic, Coastal Maya

Readings are available on the course elearning/Canvas site.

Written Work and Class Presentations:

- 1) Weekly Assignments: 1-single-spaced page review (critique, evaluation – not summaries) of ALL weekly readings. Due at the start of class; late papers are not accepted without prior permission.
- 2) Each session students will be assigned one reading to present in detail (max. 15 minutes). Oral presentations will rotate between students depending on the number of reading assignments per week. All students must be prepared to discuss all the weekly readings at class time.
- 3) Annotated bibliography due APRIL 25 AT 4 PM- No incompletes, emergencies excluded) – on an approved topic related to the Archaeology of Maritime Adaptations. **Graduates - ~25 sources; with one 2x page introduction; Undergraduates - ~15 sources with one 2x page introduction.** Annotations should be ~120-150 words each.

Grading:

Class participation (20%) attendance (10%) and discussion (10%)

(excused absences for illness and academic business only)

Class presentations (25%)

Weekly written critiques (30%)

Annotated Bibliograph (25%)

The Archaeology of Maritime Adaptations

Jan. 13 **Introduction, class structure, class themes**
 Marine and coastal environments and habitats

NO WRITTEN ASSESSMENTS NEEDED, BUT please review these sites and readings

Visit <http://www.sms.si.edu/IRLSpec/index.htm>

The Smithsonian Marine Station at Fort Pierce, Indian River Lagoon, Florida
view habitat and lagoon information in detail and other components in general

download NOAA publication: (read or print [it is better in color])
http://www.nmfs.noaa.gov/habitat/habitatconservation/publications/EnglishWetlands_051404.pdf

Cowardin, Lewis M., Virginia Carter, Francis C. Golet, and Edward T. LaRoe
n.d. Classification of Wetlands and Deepwater Habitats of the United States

Jackson, J. B. C.
1997 Reefs since Columbus. *Coral Reefs* 16 (supplement):23-32.

Jan. 20 **Current Perspectives – Intro**
 Readings:

Erlandson, Jon M.
2001 The Archaeology of Aquatic Adaptations: Paradigms for a New Millennium. *Journal of Archaeological Research* 9:287-350.

Holland-Lulewicz, J., Ritchison, B. T., Holland-Lulewicz, I., Howland, M. D., Roberts Thompson, A., & Thompson, V. D.
2025 Modern coastal ecosystems of the American Southeast are shaped by deep-time human-environment interactions. *Communications Earth & Environment* 6(1):238.

Rick, T. C. (2024). Shell midden archaeology: current trends and future directions. *Journal of Archaeological Research*, 32(3):309-366.

Jan. 27 **Early View of Maritime Adaptations: Ethnography and Archaeology**
 Readings:

Barnett, Homer
1939 The Coast Salish of Canada. *American Anthropologist* 40:118-141.

Hewes, Gordon W
1948 The Rubric of “Fishing and Fisheries.” *American Anthropologist* 50(2): 238-246.

Cook, S. H.
1946 A Reconsideration of Shellmounds with Respect to Population and Nutrition. *Am. Antiquity* 12:50-52.

Orssich, Adam and Elfriede Stadler Orssich
1956 Stratigraphic Excavations in the Sambaqui of Araujo II, Parana, Brazil. *American Antiquity* 21(4):357-369.

Roberts, H. H.
1932 The First Salmon Ceremony of the Karuk Indians. *Am. Anthropologist* 34:426-440.

Sauer, C. O.
1962 Seashore—Primitive Home of Man? *Proceedings of the American Philosophical Society* 106: 41–47.

Uhle, M.
1907 The Emeryville Shellmound. *American Archaeology and Ethnology (Berkeley)* 7:1–106.
SKIM

Nelson, N.C.
1909 Shellmounds of the San Francisco Bay Region. *U. California* 7(4).
ON RESERVE LIBRARY WEST - SKIM

Feb. 3 **The Maritime Paradigm**
 Readings:

Cooney, Gabriel
2003 Introduction: Seeing Land from the Sea, Seascapes issue. *World Archaeology* 35(3):323-328.

Fauvelle, M., Sasaki, S., & Jordan, P.
2024 Maritime technologies and coastal identities: seafaring and social complexity in Indigenous California and Hokkaido. *Indigenous Studies and Cultural Diversity*, 1(2), 30-52.

Marquardt, William H.
2010 Shell Mounds in the Southeast: Middens, Monuments, Temple Mounds, Rings, or Works? *American Antiquity* 75(3):551-570.

Moseley, Michael
1992 Maritime Foundations: Preceramic Subsistence and ... and Multilinear Evolution: Retrospect and Prospect. *Andean Past* 3:5-42.

Rick, T. C. (2024). Shell midden archaeology: current trends and future directions. *Journal of Archaeological Research*, 32(3), 309-366.

Feb. 10 **Ethnographic background of maritime populations**
 Alaska and Arctic regions, NW and California, Americas
 Readings:

Boxberger, Daniel
1989 *To Fish in Common: The Ethnohistory of Lummi Indian Salmon Fishing*. University of Nebraska Press, Lincoln. selected chapters

Erlandson, Jon M.
1998 The Making of Chumash Tradition. *Current Anthropology* 39(4):477-485.
relates to Chumash self-identity and issues other than their uniqueness as a maritime peoples.

Moss, M. L.
1993 Shellfish, Gender, and Status on the Northwest Coast: Reconciling Archaeological, Ethnographic, and Ethnohistorical Records of the Tlingit. *Am. Anthropologist* 95:631-652.

Levieil, Dominique and Benjamin Orlove
1990 Local Control of Aquatic Resources: Community and Ecology in Lake Titicaca. *American Anthropologist* 92:362-382.

Price, Richard
1966 Caribbean Fishing and Fishermen: A Historical Sketch. *Am. Anthropol.* 68 (6):1363-1383.

February 17 **Ethnographic background of maritime populations**
 Australia and Pacific islands
 Readings:

Jones O'Day, Sharyn
2004 Past and Present Perspectives on Secular Ritual: Food and the Fisherwomen of the Lau Islands, Fiji, pp. 153-161. Proceedings of the 9th ICAZ Conference, *Behavior Behind Bones: The Zooarchaeology Ritual, Religion, Status, and Identity*, edited by S. Jones O'Day, W. Van Neer, and A. Ervynck. Oxbow Books, UK.

Lieber, Michael D.
1992 *More Than a Living: Fishing and the Social Order on a Polynesian Atoll*. Westview Press, Boulder. Chapters 1, 2, 9, 10

McNiven, Ian J.
2003 Saltwater People: Spiritscapes, Maritime Rituals and the Archaeology of Australian Indigenous Seascapes. *World Archaeology* 35(3): 329-349.

Titcomb, M.
1972 *Native Use of Fish in Hawaii*, 2nd ed., U. of Hawaii Press, Honolulu. pp. 1-56.

February 24 **Dietary Variation in Maritime Adaptations**
 Fish, Shellfish, Crabs, Marine Mammals, Birds
 Readings:

Colten, R. H., and Arnold, J. E.
1998 Prehistoric Marine Mammal Hunting on California's Northern Channel Islands. *American Antiquity* 63:679-701.

deFrance, S. D.

2005 Late Pleistocene Marine Birds from Southern Peru: Distinguishing Human Capture from El Niño Induced Windfall. *Journal of Archaeological Science* 32:1131-1146.

Kozuch, Laura.

1993 *Sharks and Shark Products in Prehistoric South Florida*. Institute of Paleoenvironmental Studies, University of Florida, Gainesville.

EXAMINE SDEF COPY.

Parsons, Jeffery R.

2005 The Aquatic Component of Aztec Subsistence: Hunters, Fishers, and Collectors in an Urbanized Society. *Subsistence and Sustenance* 15(1) (UM reprint of book chapter).

Losey, Robert J., Sylvia Behrens Yamada and Leah Largaespada

2004 Late-Holocene Dungeness Crab (*Cancer magister*) Harvest at an Oregon Coast Estuary. *Journal of Archaeological Science* 31(11):1603-1612.

March 3

Earliest use of marine resources, Paleolithic and Old World European Mesolithic, New World Late Pleistocene Readings:

Braje, Todd, et al.

2019 Fladmark + 40: What Have We Learned about a Potential Pacific Coast Peopling of the Americas? *American Antiquity* online preview.

Cortés-Sánchez, M., Morales-Muñiz, A., Simón-Vallejo, M. D., Lozano-Francisco, M. C., Vera-Peláez, J. L., Finlayson, C., et al. (2011). Earliest known use of marine resources by Neanderthals. *PLoS one*, 6(9), e24026. <https://doi.org/10.1371/journal.pone.0024026>

Dillehay, T., C. Ramírez, M. Pino, M. Collins, J. Rossen, J. Pino-Navarro.

2008. Monte Verde: Seaweed, Food, Medicine, and the Peopling of South America. *Science* 320:784-786.

Richards, M. P. and Schulting, R. J.

2006 Touch not the Fish: the Mesolithic- Neolithic Change of Diet and its Significance. *Antiquity* 80 (308): 444-456.

Stringer, C.B., J. C. Finlayson, R. N. E. Barton, Y. Fernandez-Jalvo, I. Caceres, R. C. Sabin, E. J. Rhodes, A. P. Currant, J. Rodriguez-Vidal, F. Giles-Pacheco, J. A. Riquelme-Cantal
2008 Neanderthal Exploitation of Marine Mammals in Gibraltar *Proceedings of the National Academy of Sciences*, 105 (38), 14319-14324 DOI: [10.1073/pnas.0805474105](https://doi.org/10.1073/pnas.0805474105)

March 10

Bioarchaeology and Health of coastal foragers - Prehistory

Readings:

Bathurst, Rhonda R.

2005 Archaeological Evidence of Intestinal Parasites from Coastal Shell Middens. *JAS* 32(1):115-123.

Blom, Deborah, et al.

2005 Anemia and Childhood Mortality: Latitudinal Patterning Along the Coast of Pre-Columbian Peru. *AJPA* 127:152–169.

Smith-Guzmán, Nicole and Richard G. Cooke

2019 Cold-Water Diving in the Tropics? External Auditory Exostoses among the Pre-Columbian Inhabitants of Panama. *American Journal of Physical Anthropology* 168 (3):448-458

Standen VG, Santoro CM, Valenzuela D, Arriaza B, Verano J, Monsalve S, et al.

2023 Violence in fishing, hunting, and gathering societies of the Atacama Desert coast: A long-term perspective (10,000 BP—AD 1450). *PLoS ONE* 18(9): e0290690.

<https://doi.org/10.1371/journal.pone.0290690>

Villotte, Sébastien and Christopher J. Knusel

2016 External Auditory Exostoses and Prehistoric Aquatic Resource Procurement. *Journal of Archaeological Science: Reports* 6:633-636

March 17 **Spring Break**

March 24 **Archaeology and Technology: Seafaring Readings:**

Arnold, Jeanne E.

2007 Credit Where Credit Is Due: The History of the Chumash Oceangoing Plank Canoe. *American Antiquity* 72(2):196-209.

Callaghan, Richard

2001 Analysis of Ceramic Age Seafaring and Interaction Potential in the Antilles. *Current Anthropology* 42(2):308-313.

Erlandson, Jon R., Torben C. Rick, Todd J. Braje, Molly Casperson, Brendan Culleton, Brian Fulfrost, Tracy Garcia, Daniel A. Guthrie, Nicholas Jew, Douglas J. Kennett,

Madonna L. Moss, Leslie Reeder, Craig Skinner, Jack Watts, Lauren Willis

2011 Paleoindian Seafaring, Maritime Technologies, and Coastal Foraging on California's Channel Islands. *Science* 331, 1181-1185.

Jarrett, G.

2025 From the Masthead to the Map: an Experimental and Digital Approach to Viking Age Seafaring Itineraries. *J Archaeol Method Theory* 32, 42

Rich SA, Sievers-Cail C, Patterson K. What Is There to Do If You Find an Old Indian Canoe? Anti-Colonialism in Maritime Archaeology. *Heritage*. 2022; 5(4):3664-3679.

<https://doi.org/10.3390/heritage5040191>

Ruiz-Puerta, E. J., Jarrett, G., McCarthy, M. L., Pan, S. E., Keighley, X., Aiken, M., ... & Jordan, P. D. (2024). Greenland Norse walrus exploitation deep into the Arctic. *Science Advances*, 10(39), eadq4127.

March 31

**Archaeology and Technology:
Methods of capture, technology, storage, transport**

Groesbeck AS, Rowell K, Lepofsky D, Salomon AK

2014 Ancient Clam Gardens Increased Shellfish Production: Adaptive Strategies from the Past Can Inform Food Security Today. *PLoS ONE* 9(3): e91235.

Marcus, Joyce, Jeffrey D. Sommer, and Christopher P. Glew

1999 Fish and Mammals in the Economy of an Ancient Peruvian Kingdom. *Proceedings of the National Academy of Sciences of the United States of America* 96(11):6564-6570.

Victor D. Thompson, William H. Marquardt, Michael Savarese, Karen J. Walker, Lee A. Newsom, Isabelle Lulewicz, Nathan R. Lawres, Amanda D. Roberts Thompson, Allan R. Bacon, and Christoph A. Walser

2020 Ancient engineering of fish capture and storage in southwest Florida. *PNAS- Proceedings of the National Academy of Sciences of the USA*.

Walker, Karen J.

2000 The Material Culture of Precolumbian Fishing: Artifacts and Fish Remains from Coastal Southwest Florida. *Southeastern Archaeology* 19(1):24-45.

April 7

Archaeology of SE Asia, Pacific Islands, and Africa

Readings:

Breen, Colin and Paul J. Lane

2003 Archaeological Approaches to East Africa's Changing Seascapes. *World Archaeology* 35(3):469-489.

Fitzpatrick, Scott M.

2008 Micronesian Interregional Interaction: Deciphering Multi-Group Contacts and Exchange Systems through Time. *Journal of Anthropological Archaeology* 27(1):131-147.

Kirch, Patrick V.

1997 *The Lapita People: Ancestors of the Oceanic World*. Blackwell, Cambridge, Mass. Chapters 1, 6, and 7

ADD Matisoo-Smith and rats

April 14

Archaeology of Ancient Americas:

Readings:

Beresford Jones et al.

2018 Refining the Maritime Foundations of Andean Civilization: How Plant Fiber Technology Drove Social Complexity During the Preceramic Period. *J Archaeol Method Theory* (2018) 25:393–425

Marquet, Pablo A., Calogero M. Santoro, Claudio Latorre, Vivien G. Standen, Sebastián R. Abades, Marcelo M. Rivadeneira, Bernardo Arriaza and Michael E. Hochberg
2012 Emergence of Social Complexity among Coastal Hunter-Gatherers in the Atacama Desert of Northern Chile. *Proceedings of the National Academy of Sciences of the United States of America*, Vol. 109, No. 37:14754-14760

Moseley, M. E.
1975 *The Maritime Foundations of Andean Civilization*. Menlo Park, Cummings. skim

Rodriquez Ramos, Reniel
2010 What is the Caribbean: An Archaeological Perspective? *Journal of Caribbean Archaeology, Special Publication #3* 2010

Shady Solís, Ruth
2005 Caral Supe, Perú: la civilización de Caral-Supe : 5000 años de identidad cultural en el Perú.
Instituto Nacional de Cultura, Lima skim

Please review:
https://www.metmuseum.org/art/metpublications/Arte_del_mar_Art_of_the_Early_Caribbean

April 21 Conservation, Climate Change and the Future Brief class presentations

Anderson, David et al.
2017 Sea-level Rise and Archaeological Site Destruction: An Example from the
Southeastern United States using DINAA (Digital Index of North American Archaeology)
PLoS ONE 12(11): e0188142. <https://doi.org/10.1371/journal.pone.0188142>

Gregory, D., Dawson, T., Elkin, D., Van Tilburg, H., Underwood, C., Richards, V., ... & Hollesen, J. (2022). Of time and tide: the complex impacts of climate change on coastal and underwater cultural heritage. *Antiquity*, 96(390), 1396-1411.

Hollesen, J. (2022). Climate change and the loss of archaeological sites and landscapes: a global perspective. *Antiquity*, 96(390), 1382-1395.

Jackson JBC, et al.
2001 Historical Overfishing and the Recent Collapse of Coastal Ecosystems. *Science* 293:629–637

Rick, T. C. (2023). Coastal archaeology and historical ecology for a changing planet. *Journal of Anthropological Research*, 79(2), 153-175.

Final Annotated Bibliographies due – midnight upload to Canvas