

The Archaeology of Maritime Adaptations

Course Objectives and Goals:

This seminar examines issues pertaining to human maritime adaptations in archaeological, ethnohistoric and ethnographic contexts. Issues to be examined include:

- 1) DEFINITIONS OF MARITIME ADAPTATIONS
- 2) HISTORY OF INVESTIGATIONS
- 3) CHARACTERISTICS OF MARINE RESOURCES
- 4) TECHNOLOGY AND ORGANIZATION OF MARITIME PREDATION
- 5) LIMITATIONS ON MARITIME SUBSISTENCE
- 6) OWNERSHIP, TERRITORY, AND RESOURCE RIGHTS
- 7) POPULATION, SETTLEMENT AND SITE SIZE
- 8) ECONOMIC AND POLITICAL ORGANIZATION
- 9) COMPLEXITY OF MARITIME SOCIETIES

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

A packet of readings is available at Orange and Blue Textbooks.

Some volumes are on reserve at library west. You will also need to download some pdf files from the course reserve holdings. These are indicated on your syllabus.

I will also distribute some readings as pdf files or hard copies or make them available for you.

Written Work and Class Presentations:

- 1) Weekly Assignments: 1 Page of comments and questions over weekly readings
2 page review (critique, evaluation) of weekly readings
- 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) Final Paper (due last day of class--no late papers) – on an approved topic related to the Archaeology of Maritime Adaptations. Final Paper should follow *American Antiquity* format for bibliography with a minimum of 2 references per page.

Grading:

Class participation (20%) attendance and discussion

Class presentations and weekly written work (30%)

Final paper (50%)

The Archaeology of Maritime Adaptations

Jan. 9 **Introduction, class structure, class themes**

Jan. 16 **Historical Studies in 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.

Kroeber, A. L.

1936 Prospects in California Prehistory. *American Antiquity* 2(2):108-116.

Roberts, H. H.

1932 The First Salmon Ceremony of the Karuk Indians. *American Anthropologist* 34:426-440.

Rostlund, E.

1952 *Freshwater Fish and Fishing in Native North America*. University of California Publications in Geography 9, selected pages

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.

ON RESERVE LIBRARY WEST

Jan. 23 **Theoretical background Readings:**

Arnold, J. E.

1995 Transportation Innovation and Social Complexity among Maritime Hunter-Gatherer Societies. *American Anthropologist* 97:733–747.

Erlandson, Jon M.

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

Waselkov, G. A.

1987 Shellfish Gathering and Shell Midden Archaeology. *Advances in Archaeological Method and Theory* 10:93–210.

ON RESERVE LIBRARY WEST

Yesner, D. R.

1980 Maritime Hunter-Gatherers: Ecology and Prehistory. *Current Anthropology* 21:727–735.

Yesner, D. R.

1987 Life in the “Garden of Eden”: Constraints of Marine Diets for Human Societies. In *Food and Evolution*, edited by M. Harris, M., and E. Ross, pp. 285-310. Temple University Press, Philadelphia.

Jan. 30

Environmental background

Marine habitats, coastal ecology

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

Readings:

Barber, R. T. and F. P. Chavez,

1983 Biological Consequences of El Niño, *Science* 222:1203-1210.

Jackson, J. B. C.

1997 Reefs Since Columbus. *Coral Reefs* 16 (supplement):23-32.

Salwen, Bert

1962 Sea Levels and Archaeology in the Long Island Sound Area. *American Antiquity* 28(1):46-55.

Sandweiss, Daniel H.

2003 Terminal Pleistocene through Mid-Holocene Archaeological Sites as Paleoclimatic Archives for the Peruvian Coast, *Palaeogeography, Palaeoclimatology, Palaeoecology* 194:23–40.

Scudder, Sylvia

2003 Sea Level Rise or Shallow-water Midden Deposition? Archaeopedology at the Seminole Rest Archaeological Site, Coastal East-Central Florida. *Journal of Archaeological Science* 30 (12):1551-1557.

Shackleton, J. C.

1988 Reconstructing Past Shorelines as an Approach to Determining Factors Affecting Shellfish Collecting in the Prehistoric Past. In *The Archaeology of Prehistoric Coastlines*, edited by Geoff Bailey and John Parkington, pp. 11–21. Cambridge University Press, Cambridge.

W. Schäfer

1972 *Ecology and Paleoecology of Marine Environments*. Oliver & Boyd, Edinburgh.

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Feb. 6

Dietary Variation in Maritime Adaptations

Fish, Shellfish, Crabs, Marine Mammals, Birds

Readings:

Akazawa, Takeru

1988 Variability in the Types of Fishing Adaptation of the Later Jomon Hunter-Gatherers. In *The Archaeology of Coastlines*, edited by Geoff Bailey and John Parkington, Cambridge University Press, Cambridge.

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.

Keegan, William F., Roger W. Portell and John Slapcinsky

2003 Changes in Invertebrate Taxa at Two Pre-Columbian Sites in Southwestern Jamaica, AD 800–1500. *Journal of Archaeological Science* 30:1607-1617.

Kozuch, Laura.

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

EXAMINE SDEF COPY in B357.

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.

Feb. 13

Ethnographic background of maritime populations Alaska and Arctic regions, NW and California

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.

Not in packet, view online – relates to Chumash self-identity and issues other than their uniqueness as a maritime peoples.

Matson, R. G., and Coupland, G.

1995 *The Prehistory of the Northwest Coast*, Academic Press, New York. Chapter 2

Moss, M. L.

1993 Shellfish, Gender, and Status on the Northwest Coast: Reconciling Archaeological, Ethnographic, and Ethnohistorical Records of the Tlingit. *American Anthropologist* 95:631–652.

Suttles, Wayne

1990 *Northwest Coast. Vol. 7, Handbook of North American Indians*. Smithsonian Institution Press, Washington.

IN DOCUMENTS 3RD FLOOR LIBRARY WEST

Wenzel, George W.

1995 Ningiqtuq: Resource Sharing and Generalized Reciprocity in Clyde River. *Arctic Anthropology* 32(2):43-60.

Feb. 20

**Ethnographic background of maritime populations
Australia and Pacific islands, Caribbean, S. America**

Readings:

Hudson, Jean

2006 Pacific Ocean Fishing Traditions, Subsistence, Beliefs, and Ecology. Paper presented at the 2006 International Council of Archaeozoologists, Mexico City.

SdeF will distribute.

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

Levieil, Dominique and Benjamin Orlove

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

Price, Richard

Caribbean Fishing and Fishermen: A Historical Sketch. *American Anthropologist* 68 (6):1363-1383.

Titcomb, M.

1972 *Native Use of Fish in Hawaii*, second ed., University of Hawaii Press, Honolulu. pp. 1-56.

Yesner, David R., Maria Jose Figuerero Torres, Ricardo A. Guichon and Luis A. Borrero

2003 Stable isotope analysis of human bone and ethnohistoric subsistence patterns in Tierra del Fuego. *Journal of Anthropological Archaeology* 22(3):279-291.

Feb. 27

Earliest use of marine resources

**Upper Paleolithic and Old World record
European Mesolithic**

Readings:

Mannino, Marcello A. and Kenneth D. Thomas
2002 Depletion of a Resource? The Impact of Prehistoric Human Foraging on Intertidal Mollusc Communities and Its Significance for Human Settlement, Mobility and Dispersal
World Archaeology, 33(3):452-474.

Richards, M.P., R. Jacobi, J. Cook, P.B. Pettitt, C.B. Stringer
2005 Isotope Evidence for the Intensive use of Marine Foods by Late Upper Palaeolithic Humans. *Journal of Human Evolution* 49:390-394

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.

Rowley-Conwy, Peter
1984 The Laziness of the Short-Distance Hunter: The Origins of Agriculture in Western Denmark. *Journal of Anthropological Archaeology* 3 (4):300-324.
NOT IN PACKET, SdeF will distribute

Stewart, K. M.
1994 Early Hominid Utilisation of Fish Resources and Implications for Seasonality and Behaviour. *Journal of Human Evolution* 27(1-3): 229-245.

Stiner, Mary C., Nuno F. Bicho, John Lindly and Reid Ferring
2003 Mesolithic to Neolithic Transitions: New Results from Shell-Middens in the Western Algarve, Portugal. *Antiquity* 77(295):75-87.

**March 6 Health of coastal foragers - Prehistory
Readings:**

Arriaza, B. T.
1995 Chinchorro Bioarchaeology: Chronology and Mummy Seriation. *Latin American Antiquity* 6(1):35-55.

Bathurst, Rhonda R.
2005 Archaeological Evidence of Intestinal Parasites from Coastal Shell Middens. *Journal of Archaeological Science* 32(1):115-123.

Benfer, R. A.
1990 The Preceramic Period Site of Paloma, Peru: Bioindications of Improving Adaptation to Sedentism. *Latin American Antiquity* 1:284-318.

Hutchinson, Dale L.
2004 *Bioarchaeology of the Florida Gulf Coast: Adaptation, Conflict, and Change*.
University Press of Florida, Gainesville. Selected pages .

ON RESERVE LIBRARY WEST

Lambert, Patricia M.

1993 Health In Prehistoric Populations of the Santa Barbara Channel Islands. *American Antiquity* 58(3):509-522.

March 13 SPRING BREAK

March 20 Archaeology and Technology

Methods of capture, technology, storage, transpor

Readings:

Connolly, T. J., Erlandson, J. M., and Norris, S. E.

1995 Early Holocene Basketry from Daisy Cave, San Miguel Island, California. *American Antiquity* 60:309-318.

Gamble, Lynn H.

2002 Archaeological Evidence for the Origin of the Plank Canoe in North America. *American Antiquity* 67(2):301-315.

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.

Rick, T. C., René L. Vellanoweth, Jon M. Erlandson and Douglas J. Kennett

2002 On the Antiquity of the Single-Piece Shell Fishhook: AMS Radiocarbon Evidence from the Southern California Coast. *Journal of Archaeological Science* 29(9):933-942.

Walker, Karen J.

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

March 27 Archaeology of SE Asia and Pacific Islands

Readings:

Goff, J. R.; McFadgen, B. G.

2001 Catastrophic seismic-related events and their impact on prehistoric human occupation, coastal New Zealand. *Antiquity* 75(287):155-163.

Habu, Junko

2004 *Ancient Jomon of Japan*. Cambridge University Press, Cambridge, England.

Johannes, R. E.

1981 *Words of the Lagoon: Fishing and Marine Lore in the Palau District of Micronesia*.

University of California Press, Berkeley.

ON RESERVE LIBRARY WEST

Kirch, Patrick V.

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

Steadman, D. W., A. Plourde, D. V. Burley,

2002 Prehistoric Butchery and Consumption of Birds in the Kingdom of Tonga, South Pacific,
Journal of Archaeological Science 29:571-584.

April 3 Archaeology of Ancient Americas
South America
Readings:

Fairbridge, Rhodes W.

1976 Shellfish-Eating Preceramic Indians in Coastal Brazil *Science* 191(4225):353-359.

Haas, Jonathan and Winifred Creamer

2006 Crucible of Andean Civilization: The Peruvian Coast from 3000-1800 B. C. *Current Anthropology* 47(5):745-755.

Moore, J. D.

1991 Cultural Responses to Environmental Catastrophes: Post-El Niño Subsistence on the Prehistoric North Coast of Peru. *Latin American Antiquity* 2(1):27-47.

Moseley, M. E.

1975 *The Maritime Foundations of Andean Civilization*. Menlo Park, Cummings.

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Quilter, Jeffrey, Bernardino Ojeda E., Deborah M. Pearsall, Daniel H. Sandweiss, John G. Jones, Elizabeth S. Wing

1991 Subsistence Economy of El Paraíso, an Early Peruvian Site *Science* 251(4991):277-283.

Sandweiss, Daniel H, H. McInnis, R. L. Burger, A. Cano, B. Ojeda, R. Paredes, M. C.

Sandweiss, M. D. Glascock,

1998 Quebrada Jaguay: Early South American Maritime Adaptations, *Science* 281:1830-1832.

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

ON RESERVE LIBRARY WEST

2003 La ciudad sagrada de Caral-Supe : los orígenes de la civilización andina y la formación del Estado prístino en el antiguo Perú. Instituto Nacional de Cultura, Lima.

ON RESERVE LIBRARY WEST

Stothert, K. E.

1985 The Preceramic Las Vegas Culture of Coastal Ecuador. *American Antiquity* 50(3): 613-637.

April 10 Archaeology of Ancient Americas

Caribbean and Central America

Readings:

Davis, David D.

1982 Archaic Settlement and Resource Exploitation in the Lesser Antilles: Preliminary Information from Antigua. *Caribbean Journal of Science* 17:107-122.

Hamblin, Nancy

1984 *Animal Use by the Cozumel Maya*. The University of Arizona Press, Tucson.
Map, Chapters 1 and 3.

Keegan, William F.

1986 The Ecology of Lucayan Fishing Practices. *American Antiquity* 51:816-825.

McKillop, Heather

1995 Underwater Archaeology, Salt Production, and Coastal Maya Trade at Stingray Lagoon, Belize *Latin American Antiquity* 6(3):214-228.

Stark, Barbara L. and Barbara Voorhies

1978 Prehistoric Coastal Adaptations: The Economy and Ecology of Maritime Middle America. Academic Press, New York.

ON RESERVE LIBRARY WEST

Steadman, David W. and Sharyn Jones.

2006 Long-term trends in prehistoric fishing and hunting on Tobago, West Indies. *Latin American Antiquity* 17(3):316-334.

Wing, E. S. and E. J. Reitz

1982 Prehistoric Fishing Communities of the Caribbean. *Journal of New World Archaeology* 5(2):13-32.

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April 17

Archaeology of Ancient Americas

North America

Readings:

Kennett, Douglas J. and James P. Kennett

2000 Competitive and Cooperative Responses to Climatic Instability in Coastal Southern California *American Antiquity* 65(2):379-395.

Matson, R. G., and Coupland, G.

1995 *The Prehistory of the Northwest Coast*, Academic Press, New York. Chapters 3, 4

Rick, Torben C., Jon M. Erlandson, Rene L. Vellanoweth, and Todd J. Braje

2005 From Pleistocene Mariners to Complex Hunter-Gatherers: The Archaeology of the California Channel Islands. *Journal of World Prehistory* 19:169-228.

Yesner, David

2004 Prehistoric Maritime Adaptations of the Subarctic and Subantarctic Zones: The Aleutian/Fuegian Connection Reconsidered. *Arctic Anthropology* 41(2):76-97.
NOT IN PACKET, ONLINE COURSE RESERVE

Sanger, D.

1995 Mesolithic Maritime Adaptations: The View from North America. In Fischer, A. (ed.), *Man and Sea in the Mesolithic: Coastal Settlement Above and Below Present Sea Level*, Oxbow Monograph 53, Oxford, pp. 335-349.

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April 24

Student presentations

Paper due