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ANTY 595.02: Special Topics - Issues in Arctic Cultural Heritage

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ANTY 595 ISSUES IN ARCTIC CULTURAL HERITAGE

ANTY 595. Issues in Arctic Cultural Heritage, is a graduate seminar focused primarily on arctic archaeology. The seminar has several specific goals. First, students will gain a broad understanding of arctic archaeology spanning northeast Siberia, Alaska, Canada (Yukon Territory, Northwest Territories, and Nunavut), and Greenland. Second, students will develop an understanding of diverse theoretical and methodological approaches and ethical concerns used to address major research topics in arctic archaeology. Third, students will gain experience in analyzing underlying assumptions, approaches, and outcomes of archaeological research in arctic contexts. Fourth, students will develop and pursue literature based research projects and will gain experience presenting and defending that research.

Professor: Dr. Anna Marie Prentiss; Office: Social Sciences 205; Message Telephone (Anthropology Department) 243-2693; email: anna.prentiss@umontana.edu; Office hours: MWF 8:30-10:30 AM. Please feel free to stop by or email me for an appointment (I am open to telephone or Zoom meetings).

PANDEMIC AND RELATED INFORMATION

- This course will be taught on an in-person face-to-face basis. However, the course could shift to Remote via Zoom if there is a crisis with the pandemic or other issue.
- If you are sick or displaying symptoms, please contact the Curry Health Center at (406) 243-4330
- Up-to-Date COVID-19 Information from the University of Montana:
- UM Coronavirus Website: <https://www.umt.edu/coronavirus>
- Remain vigilant in mitigating the spread of COVID-19

Text/Readings:

Friesen, T. Max and Owen K. Mason 2016. *The Oxford Handbook of the Prehistoric Arctic*. Oxford University Press, Oxford/New York.

Lyons, Natasha 2013. *Where the Wind Blows Us: Practicing Critical Community Archaeology in the Canadian North*. University of Arizona Press, Tucson.

McGhee, Robert 2005. *The Last Imaginary Place: A Human History of the Arctic World*. University of Chicago Press, Chicago.

Additional readings listed below.

Learning Outcomes:

1. Knowledge of fundamental concepts and debates in arctic archaeology
2. Ability to develop and complete a research project in arctic archaeology.
3. Expansion of skills in literature review, synthesis, and critique in arctic archaeology.
4. Improvement in writing and speaking skills.

Grade Determination:

Seminar assignments are designed to develop student skills in reading and understanding the professional literature and designing and implementing research projects. Assignments are as follows:

1. Each student will develop a 5-10 page research plan or design for their seminar project (see below). This will include a discussion of the research problem, question(s) to be addressed, and proposed methods. This paper also provides you a chance to review and cite the literature relevant to your research problem. The paper should be approximately five to ten pages in length and written using *American Antiquity* style. Due date for the paper: October 15. It is worth 100 points.

2. Each student is required to write a 15-20 page research paper (again using *American Antiquity* style). There are three options for the research paper: (1) Analyze spatial data to address research problems that might include exchange, mobility and land-use practices, inter-house social relationships, and intra-house social dynamics; (2) Analyze temporal data to study research questions concerned with passage of time (cultural history, evolution of technology, demography, and ethnic history); and (3) Address significant practical concerns that could include collections management, climate-change issues, and Indigenous heritage interests and issues. The paper will include an introduction to the problem, a discussion of theoretical background and previous research, methods and analysis (as appropriate), results, and final discussion. The research paper is due December 13. It is worth 250 points.

Assignments must be well written with minimal grammatical problems, spelling issues, etc. If you have writing problems you should seriously consider visiting the university writing center for extra help. Assignments must demonstrate an attempt by you to obtain and cite the critical anthropological literature associated with your research topic. Assignments with minimal citation of the literature will be scored low (that is what will happen to you in the “real world”).

3. All students will participate in seminar activities. Participation will include presentation of readings and research results. Presentation of final research papers will require a PowerPoint show. Participation is worth 50 points.

When reading assigned papers for class discussion you need to consider the following concerns. (1) What is the theoretical foundation of the work? Does it aid in addressing

the topic(s) of interest? (2) What is the methodological framework? Are the authors clear in describing their approach? Is it appropriate? Are there any critical concerns? (3) Are the results adequate? Did you think they went far enough? What other issues does this work raise? (4) What are the major implications? What have we learned? Is the outcome transformative in way? If so, how? (5) Are there any ethical concerns?

Grades will be determined based on total points achieved:

Assignments (see below)	350 Points
Seminar Participation	50 Points
Total	400 Points

Students with 90% (360 points) or more will receive an "A," etc. Deadlines are extended only in cases of illness (with a doctor's note) or an emergency. The professor retains the option to use + and – grades when final scores are close (within a point on a 0-100 scale) to an up or down transition.

Reading List and Schedule

Week One (September 3): Introduction

Friesen and Mason 2016 (Introduction in Friesen and Mason)

Week Two (September 10): the Arctic as a Natural, Cultural, and Historical Place

McGhee 2005

Week Three (September 17): Frameworks for Evaluating Arguments in Arctic Archaeology

Middle Range Theory/Frames of Reference

Binford 1978

Binford 1980

Chatters et al. 2021

Darwinian Evolution

Dunnell 1989

Human Behavioral Ecology

Herzog and Goodale 2019

Processual Historical Archaeology

Sassaman and Holly 2011

Landscape Learning

Rockman 2009

Isotopes, DNA, and Population History

Tackney et al. 2016 (in Friesen and Mason)

Indigenous Archaeology

Lyons 2016 (in Friesen and Mason)

Binford, Lewis R. 1978. Dimensional Analysis of Behavior and Site Structure: Learning from an Eskimo Hunting Stand. *American Antiquity* 43(3):330-361.

Binford, Lewis R. 1980. Willow-Smoke and Dogs' Tails: Hunter-Gatherer Settlement Systems and Archaeological Site Formation. *American Antiquity* 45(1):4-20.

Chatters, James C. et al. 2021. Evaluating Claims of Early Human Occupation at Chiquihuite Cave, Mexico. *PaleoAmerica* (In Press).

Dunnell, Robert C. 1989. Aspects of the Application of Evolutionary Theory in Archaeology. In *Archaeological Thought in America*, edited by C.C. Lamberg-Karlovsky, pp. 35-49. Cambridge University Press, Cambridge. (on reserve, Mansfield Library)

Herzog, Nicole M. and Nathan Goodale 2019. Human Behavioral Ecology and Technological Decision-Making. In *Handbook of Evolutionary Research in Archaeology*, edited by Anna Marie Prentiss, pp. 295-309. Springer, New York. (on reserve, Mansfield Library)

Rockman, Marcy 2009. Landscape Learning in Relation to Evolutionary Theory. In *Macroevolution in Human Prehistory*, edited by Anna Marie Prentiss, Ian Kuijt, and James C. Chatters, pp. 51-72. Springer, New York. (e-book Mansfield Library)

Sassaman, Kenneth E. and Donald H. Holly Jr. 2011. Transformative Hunter-Gatherer Archaeology in North America. In *Hunter-Gatherer Archaeology as Historical Process*, edited by Kenneth E. Sassaman and Donald H. Holly Jr., pp.1-16. University of Arizona Press, Tucson. (Professor will provide a copy)

Week Four (September 24): Occupation of Beringia and its Implications

Overviews:

Goebel and Potter 2016 (in Friesen and Mason)

Rubicz and Crawford 2016 (in Friesen and Mason)

DNA Studies

Sikora et al 2019

Tackney et al. 2015

Siberia

Graf 2020

Upward Sun River Site

Potter et al. 2011

Potter et al. 2014

Halfman et al. 2020

Serpentine Hot Springs Site

Goebel et al. 2013

Goebel, Ted, Smith, Heather, et al. 2013. Serpentine Hot Springs, Alaska: Results of Excavations and Implications for the Age and Significance of Northern Fluted Points. *Journal of Archaeological Science* 40:4222-4233.

Graf, Kelly E. 2010. Hunter-Gatherer Dispersals in the Mammoth-Steppe: Technological Provisioning and Land-Use in the Enisei River Valley, south-central Siberia. *Journal of Archaeological Science* 37:210-223.

Halfman, Carrin. M., Ben Potter, Holly J. McKinney, et al. 2020. Ancient Beringian Paleodiets Revealed through Multiproxy Stable Isotope Analyses. *Science Advances* 6:eabc1968

Potter, Ben A., Joel D. Irish, et al. 2011. A Terminal Pleistocene Child Cremation and Residential Structure from Eastern Beringia. *Science* 331(6020):1058-1062.

Potter, Ben A., Joel D. Irish, et al. 2014. New Insights into Eastern Beringian Mortuary Behavior: A Terminal Pleistocene Double Infant Burial at Upward Sun River. *Proceedings of the National Academy of Sciences of the USA* 111:17060-17065.

Sikora, Martin, Vladimir V. Pitulko, et al. 2019. The Population History of Northeastern Siberia since the Pleistocene. *Nature* doi.org/10.1038/s41586-019-1279-z.

Tackney, Justin, C, Ben Potter, et al. (2015). Two Contemporaneous Mitogenomes from Terminal Pleistocene Burials in Eastern Beringia. *Proceedings of the National Academy of Sciences of the USA* 112(45):13833-13838.

Week Five (October 1): Maritime Adaptations in the Northern Pacific

Overviews:

Fitzhugh 2016 (in Friesen and Mason)

Davis et al. 2016 (in Friesen and Mason)

Steffian et al. 2016 (in Friesen and Mason)

Maschner 2016 (in Friesen and Mason)

Climate, Demographic, and Cultural Change

Maschner et al. 2009

Aleut/Unangan Archaeology

Maschner and Reedy-Maschner 1998

Misarti and Maschner 2015

Agayadan Village

Hoffman 1999

Hoffman et al. 2000

Hoffman, Brian W. 1999. Agayadan Village: Household Archaeology on Unimak Island. *Journal of Field Archaeology* 26:147-161.

Hoffman, Brian W., et al. 2000. Heads or tails: the Zooarchaeology of Aleut Salmon Storage in Unimak Island, Alaska. *Journal of Archaeological Science* 27:699-708.

Maschner, Herbert, et al. 2009. Did the North Pacific Ecosystem Collapse in AD 1250? In *The Northern World AD 900-1400*, edited by Herbert Maschner, Owen Mason, and Robert McGhee, pp. 33-56. The University of Utah Press, Salt Lake City. (on reserve, Mansfield Library)

Maschner, Herbert D.G. and Katherine L. Reedy-Maschner 1998. Raid, Retreat, Defend (Repeat): The Archaeology and Ethnohistory of Warfare on the North Pacific Rim. *Journal of Anthropological Archaeology* 17:19-51.

Misarti, Nicole and Herbert D.G. Maschner 2015. The Paleo-Aleut to Neo-Aleut Transition Revisited. *Journal of Anthropological Archaeology* 37:67-84.

Week Six (October 8): Arctic Small Tool tradition

Overviews:

Tremayne and Rasic 2016 (in Friesen and Mason)

Gronnow 2016 (in Friesen and Mason)

Milne and Park 2016 (in Friesen and Mason)

DNA Studies

Rhagavan et al. 2014

Flegontov et al. 2019

Cultural Evolution

Prentiss et al. 2015

ASTt Economies, Demographics, and Land-use

Tremayne and Winterhalder 2017

Tremayne and Brown 2017

Matcharak Lake site

Tremayne 2011

Flegontov, Pavel et al. 2019. Palaeo-Eskimo Genetic Ancestry and the Peopling of Chukotka and North America. *Nature* 570 (doi.org/10.1038/s41586-019-1251-y).

Prentiss, Anna Marie et al. 2015. Cultural Macroevolution among High Latitude Hunter-Gatherers: A Phylogenetic Study of the Arctic Small Tool Tradition. *Journal of Archaeological Science* 59:64-79.

Rhagavan, Maanasa et al. 2014. The Genetic Prehistory of the New World Arctic. *Science* 345 (6200):1255832.

Tremayne, Andrew H. 2011. An Analysis of Faunal Remains from a Denbigh Flint Complex Camp at Matcharak Lake, Alaska. *Arctic Anthropology* 48(1):33-53.

Tremayne, Andrew H. and William A. Brown 2017. Mid to late Holocene Population Trends, Culture Change and Marine Resource Intensification in Western Alaska. *Arctic* 70(4):365-380.

Tremayne, Andrew H. and Bruce Winterhalder 2017. Large Mammal Biomass predicts the Changing Distribution of Hunter-Gatherer Settlements in mid-late Holocene Alaska. *Journal of Anthropological Archaeology* 45:81-97.

Week Seven (October 15): Student presentations (Assignment #1 Due)

Week Eight (October 22): Old Whaling, Choris, Norton, and Ipiutak

Overviews:

Darwent and Darwent 2016 (in Friesen and Mason)

Dumond 2016 (in Friesen and Mason)

Mason 2016a (Chapter 18 in Friesen and Mason)

Origin of the Norton Tradition

Mason and Gerlach 1995

Anderson et al. 2019

Ipiutak at Point Hope and Cape Krusenstern

Mason 1998

Mason 2014

Fitzhugh 2014

Difchahak site

Harritt 2010

Anderson, Shelby L., et al. 2019. Demographic Fluctuations and the Emergence of Arctic Maritime Adaptations. *Journal of Anthropological Archaeology* 56:101-100.

Fitzhugh, William W. 2014. The Ipiutak Spirit Scape: An Archaeological Phenomenon. In *The Foragers of Point Hope: the Biology and Archaeology of Humans on the Edge of the Alaskan Arctic*, edited by Charles E. Hilton, B.B. Auerbach, and L.W. Cowgill, L.W., pp. 266-290. Cambridge University Press, Cambridge. (e-book Mansfield Library)

Harritt, Roger K. 2010. Recent Work at Difchahak, a Center of Norton Culture in Eastern Norton Sound, Alaska. *Arctic Anthropology* 47(2):80-89.

Mason, O.K. 1998. The Contest between Ipiutak, Old Bering Sea, and Birnirk Polities and the Origin of Whaling during the First Millennium A.D. along Bering Strait. *Journal of Anthropological Archaeology* 17:240-325.

Mason, O.K., 2014. The Ipiutak Cult of Shamans and its Warrior Protectors: An Archaeological Context. In *The Foragers of Point Hope: the Biology and Archaeology of Humans on the Edge of the Alaskan Arctic*, edited by Charles E. Hilton, B.B. Auerbach,

and L.W. Cowgill, L.W., pp.35-70. Cambridge University Press, Cambridge. (e-book Mansfield Library)

Mason, Owen and S. Craig Gerlach 1995. The Archaeological Imagination, Zooarchaeological Data, the Origins of Whaling in the Western Arctic, and “Old Whaling” and Choris Cultures. In *Hunting the Largest Animals: Native Whaling in the Western Arctic and Subarctic*, edited by Allen P. McCartney, pp. 1-32. Studies in Whaling No. 3, Occasional Publication No. 36, The Canadian Circumpolar Institute, University of Alberta. (Professor will provide a copy)

Week Nine (October 29): Old Bering Sea, Birnirk, Punuk, and Western Thule/Iñupiat Emergence

Overviews:

Mason 2016b (Chapter 17 in Friesen and Mason)

Mason 2016c (Chapter 20 in Friesen and Mason)

Old Bering Sea Origins

Mason and Rasic 2019

Punuk and Birnirk

Mason 2009

Western Thule/Iñupiat Emergence and Evolution

Mason and Barber 2003

Mason 2020

DNA Studies

Tackney et al. 2019

Western Thule/Iñupiat Diet

Coltrain et al. 2016

Western Thule/Iñupiaq House at Cape Espenberg

Norman et al. 2017

Coltrain, Joan Brenner, et al. 2016. Thule Whaling at Point Barrow, Alaska: the Nuvuk Cemetery Stable Isotope and Radiocarbon Record. *Journal of Archaeological Science: Reports* 9:681-694.

Mason O.K., 2009. Flight from the Bering Strait: Did Siberian Punuk/Thule Military Cadres Conquer Northwest Alaska. In *The Northern World AD 900-1400*, edited by H.D.G. Maschner, pp.76-130. University of Utah Press: Salt Lake City. (on reserve, Mansfield Library)

Mason, Owen K. 2020. The Thule Migrations as an Analog for the Early Peopling of the Americas: Evaluating Scenarios of Overkill, Trade, Climate Forcing, and Scalar Stress. *PaleoAmerica* 6(4):308-356.

Mason, Owen K. and Valerie Barber 2003. A Paleo-Geographic Preface to the Origins of Whaling: Cold is Better. In *Indigenous Ways to the Present: Native Whaling in the*

Western Arctic, edited by Allen P. McCartney, pp. 69-108. The University of Utah Press, Salt Lake City. (on reserve, Mansfield Library)

Mason, Owen K. and Jeffrey T. Rasic 2019. Walrusing, Whaling and the Origins of the Old Bering Sea Culture. *World Archaeology* 51(3):454-483.

Norman, Lauren E.Y. et al. 2017. An Early Inupiaq Occupation: Observations on a Thule House from Cape Espenberg, Alaska. *Open Archaeology* 3:17-48.

Tackney, Justin et al. 2019. Molecular Analysis of an Ancient Thule Population at Nuvuk, Point Barrow, Alaska. *American Journal of Physical Anthropology* 168:303-317.

Week Ten (November 5): Thule Expansion and Eastern Arctic Thule Inuit

Overviews:

- Friesen 2016 (in Friesen and Mason)
- Park 2016 (in Friesen and Mason)
- Whitridge 2016 (in Friesen and Mason)
- Gulløv 2016 (in Friesen and Mason)

Thule Inuit Technological Evolution

- Prentiss et al. 2017

Eastern Thule Diets

- Coltrain 2009
- Moody and Hodgetts 2013
- Grønnow et al. 2011

Interpreting Eastern Thule Inuit Houses

- Friesen and Norman 2016

Coltrain, Joan Brenner 2009. Sealing, Whaling, and Caribou Revisited: Additional Insights from the Skeletal Isotopic Chemistry of Eastern Arctic Foragers. *Journal of Archaeological Science* 36:764-775.

Friesen, T. Max and Lauren E.Y. Norman 2016. The Pembroke Site: Thule Inuit Migrants on Southern Victoria Island. *Arctic* 69(1):1-16.

Grønnow, Bjarne et al. 2011. At the Edge: High Arctic Walrus Hunters during the Little Ice Age. *Antiquity* 85:960-977.

Moody, John F. and Lisa M. Hodgetts 2013. Subsistence Practices of Pioneering Thule-Inuit: A Faunal Analysis of Tiktalik. *Arctic Anthropology* 50(2):4-24.

Prentiss, Anna Marie et al. 2017. Evolution of Early Thule material culture: cultural transmission and terrestrial ecology. *Human Ecology* 46:633-650.

Week Eleven (November 12): Indigenous Heritage

Lyons 2013

Week Twelve (November 19): Climate Change and Cultural Heritage in the Arctic

The Big Picture:

Kohler and Rockman 2020

Hambrecht and Rockman 2017

Rockman and Hritz 2020

Threats to the Arctic Heritage Record

Holleson et al. 2019

Holleson et al. 2018

Friesen 2015

Historical Ecology and the Archaeology of Climate Change

Hambrecht et al. 2018

Fitzhugh et al. 2019

Ice Patch Archaeology

Dixon et al. 2005

Dixon, E. James, et al. 2005. The Emerging Archaeology of Glaciers and Ice patches: Examples from Alaska's Wrangell-St. Elias National Park and Preserve. *American Antiquity* 70(1):129-143.

Fitzhugh, Ben, et al. 2019. Human Ecodynamics: A Perspective for the Long Term Change in Socioecological Systems. *Journal of Archaeological Science: Reports* 23:1077-1094.

Friesen, T. Max 2015. The Arctic CHAR Project: Climate Change Impacts on the Inuvialuit Archaeological Record. *Les Nouvelles de l'archeologie* 141 (<http://nda.revues.org/3098>).

Hambrecht, George and Marcy Rockman 2017. International Approaches to Climate Change and Cultural Heritage. *American Antiquity* 82(4):627-641.

Hambrecht, George, et al. 2020. Archaeological Sites as Distributed Long-Term Observing Networks of the Past (DONOP). *Quaternary International* 549:218-226.

Holleson, Jorgen, et al. 2018. Climate Change and the Deteriorating Archaeological and Environmental Archives of the Arctic. *Antiquity* 92(363):573-586.

Holleson, Jorgen, et al. 2019. Predicting the Loss of Organic Archaeological Deposits at a Regional Scale in Greenland. *Scientific Reports* 9:9097 (<https://doi.org/10.1038/s41598-019-45200-4>).

Kohler, Timothy A. and Marcy Rockman 2020. The IPCC: A Primer for Archaeologists. *American Antiquity* 85(4):627-651.

Rockman, Marcy and Carrie Hritz 2020. Expanding Use of Archaeology in Climate Change Response by Changing its Social Environment. *Proceedings of the National Academy of Sciences of the USA* 117(15):8295-8302.

Holiday (November 26)

Week Thirteen (December 3): Student Presentations

Week Fourteen (December 10): Student Presentations

Final Paper Due: December 13.