

Archaeology and NARL: The Past 25 Years

Anne M. Jensen, PhD, RPA

Affiliate Research Assistant Professor, Anthropology
University of Alaska Fairbanks



NARL Archaeology: the early years

- 1951-53 Pigniq and Nuvuk (Wilbert Carter)
- 1951-52 Colville Delta & Beaufort coast (William Irving)
- 1968-1969 Ualiqpaa *Walakpa* (Dennis Stanford)



Utqiagvik

BARC

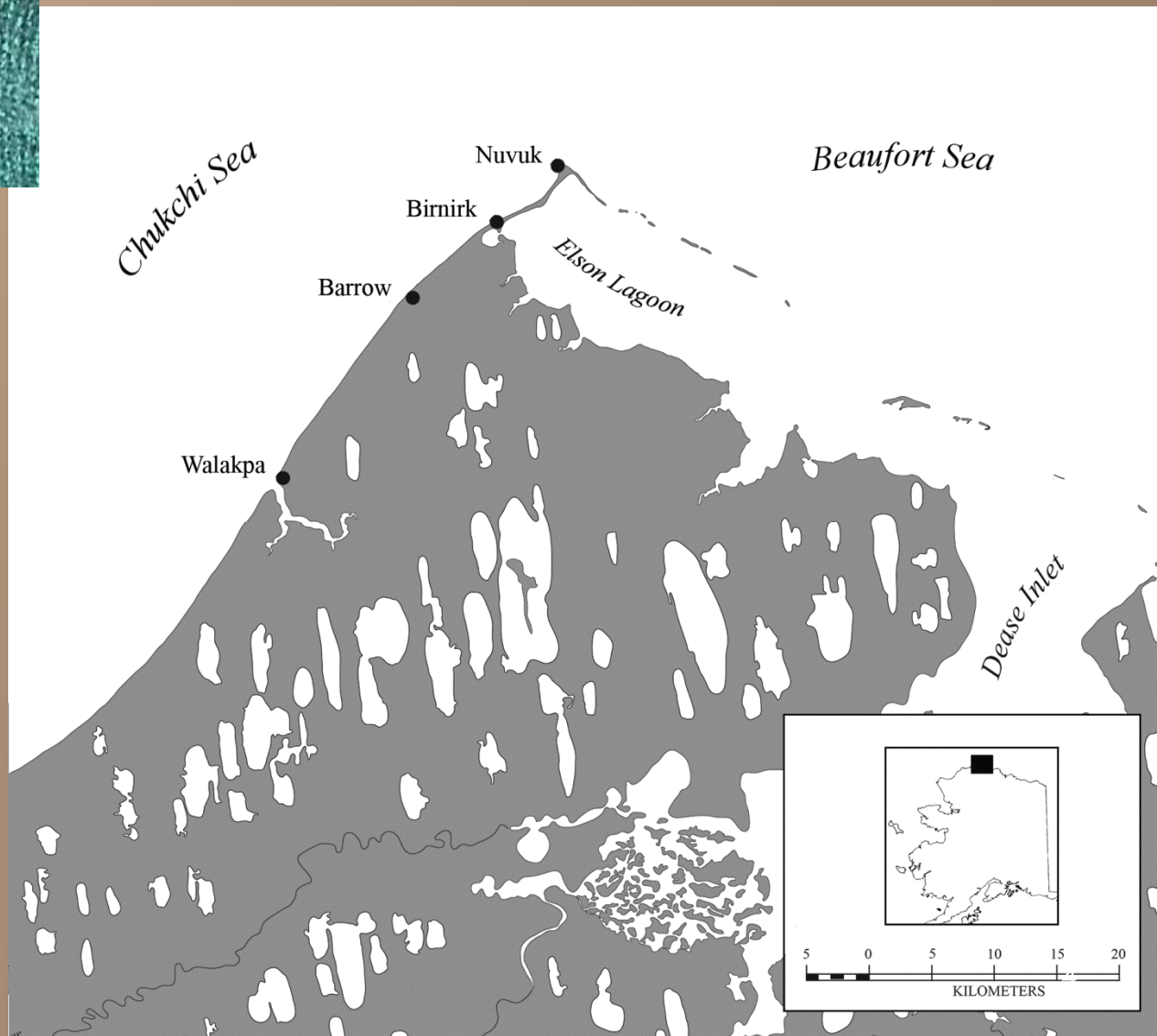
Archaeology Lab





Nuvuk

▶ Northern-most site in the United States





1996



2006



2009



Erosion at Nuvuk: 2001-2011



Burials





Collecting DNA samples

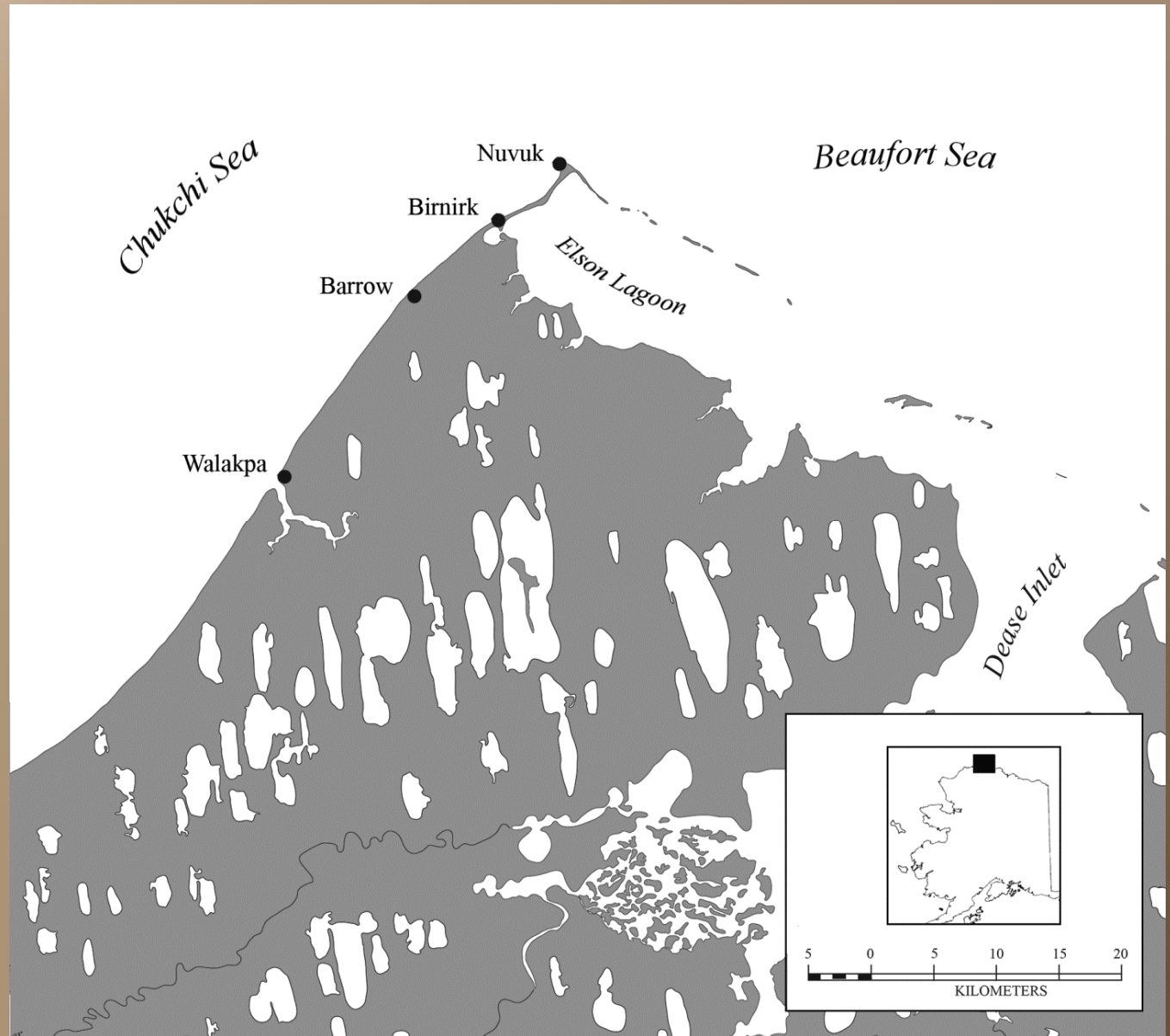
Ipiutak occupation





Walakpa

18 km
(11 miles)
south of
Utqiagvik



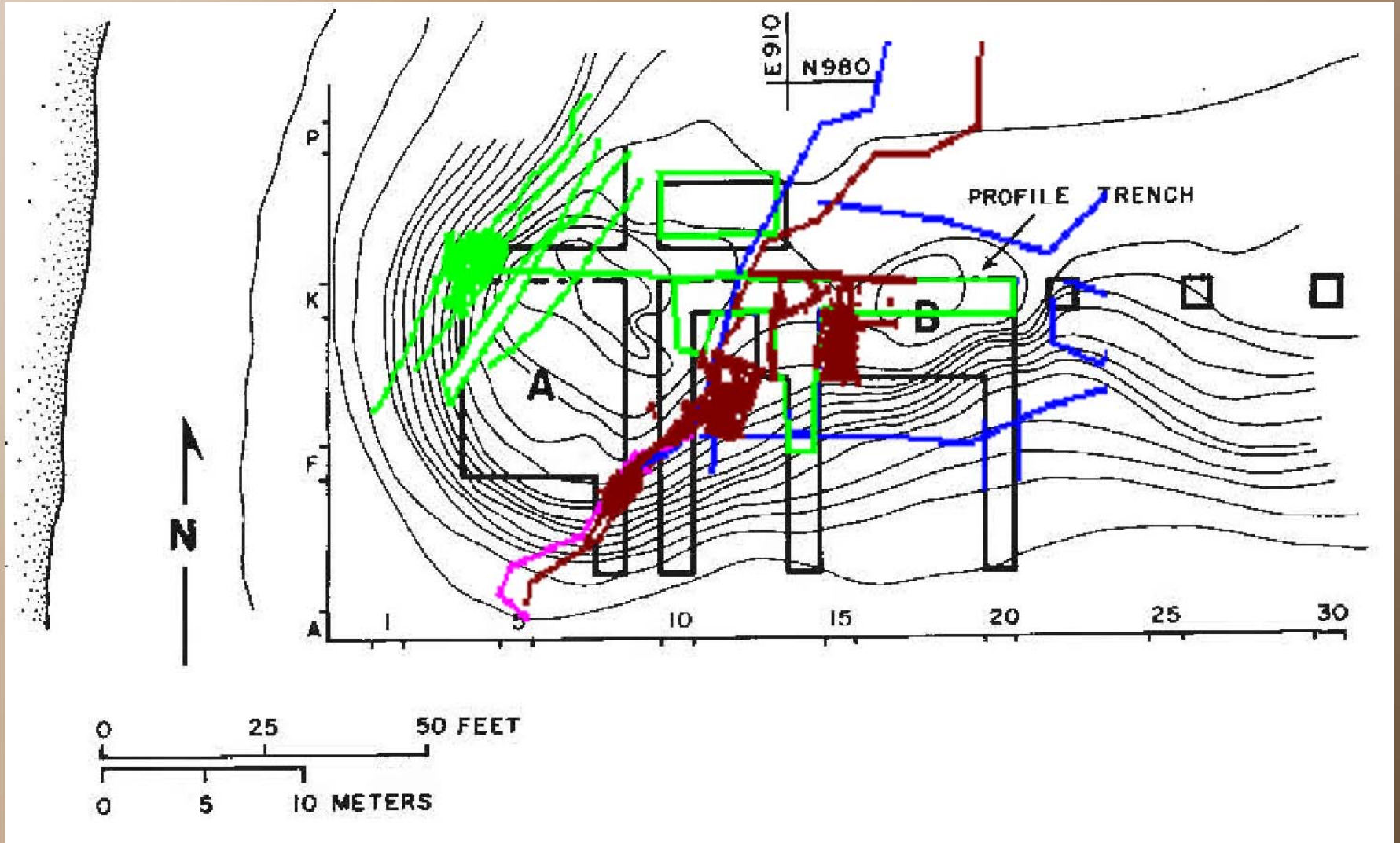
July 2013



2014



Stanford Map



- Stanford in shown in black, 2013 points in green; 2014 in blue, 2015 in pink and 2016 in brown.



Patou

1944 ring seal



- Female
- Positive for domoic acid—doubles North Slope record
-





Not just culture—a frozen tissue archive

- Basic zooarch data
 - Stable isotopes
 - aDNA (tissue and sedimentary)
 - Steroids
 - Trace elements
- Ecosystem reconstruction and change
- Climate/habitat reconstruction
 - Extinctions & bottlenecks
 - Species response to specific types of change

**OVER
MILLENNIA**



Archaeology with
Non-Professional
Community Members
...

Training







Lab Work



Community Engagement

...

Learning from Nuvuk collection



2000 BHS North Slope Science Class





Public Outreach

- Public presentations
 - Saturday Schoolyard
 - Tuzzy Library
 - Schools
- Web-focused Arctic science outreach programs
- Facebook group
- Blog--<http://iceandtime.wordpress.com>
- Twitter
- Project web pages tied to various education portals

Thanks to:

- ▶ 2005-2014 NAP crews
- ▶ 2013-2017 WASP crews
- ▶ Barrow Arctic Science Consortium
- ▶ National Science Foundation (Arctic Social Sciences)
- ▶ Education through Cultural and Historical Organizations (ECHO)
- ▶ North Slope Borough
 - ▶ Iñupiat History Language and Culture Commission
 - ▶ Department of Wildlife Management
- ▶ UIC Science LLC
- ▶ ARCUS--PolarTrec
- ▶ The Exploratorium--IceStories
- ▶ Ilisagvik College
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- ▶ Caitlyn Gracey, DDS
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