

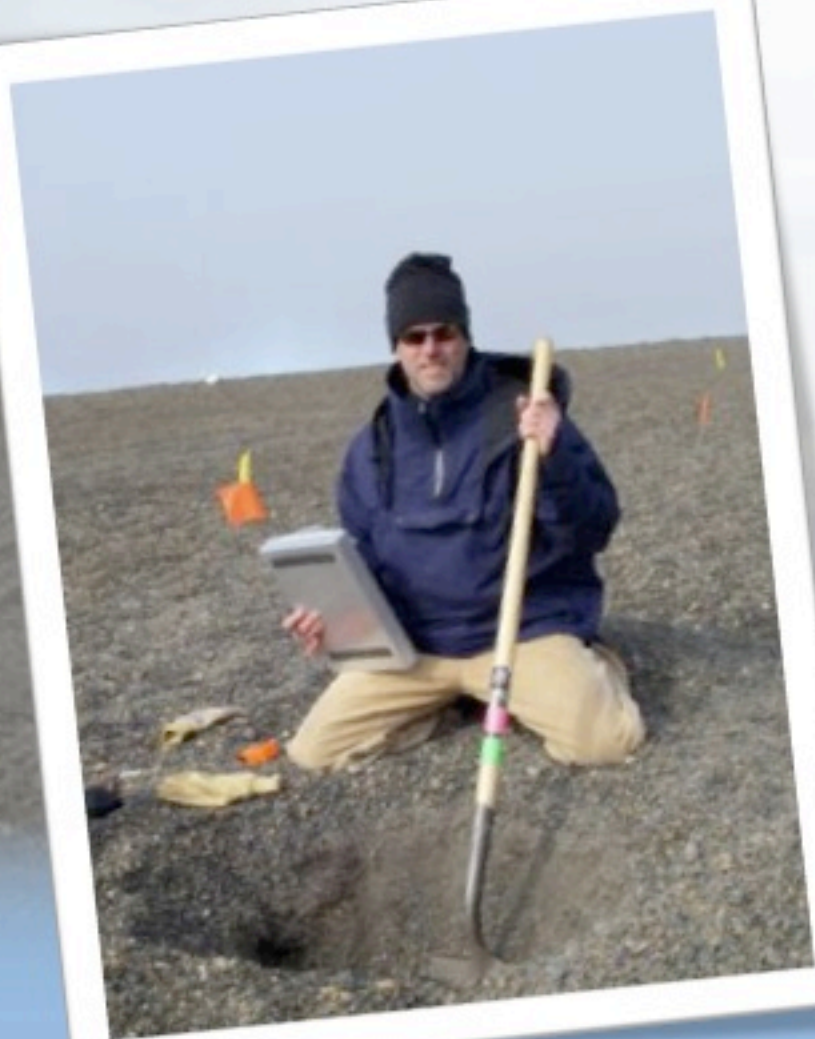
Welcome to Live from IPY!



With Frank Kelley and the
Nuvuk Archaeology Team
at Barrow, Alaska

August 5, 2008

3:00 PM Alaska Daylight Time [1:00 PM HDT, 4:00
PM PDT, 5:00 PM MDT, 6:00 PM CDT, 7:00 PM EDT]



Slides will be shown here

Welcome to HorizonWimba

If using VOIP, press here to talk



Arctic Research Consortium of the United States

List of all participants

Raise your hand to ask a question

Return to the lobby or exit

'Chat' with one person or the entire group



TALK

You say, "Hi Ronnie"
tina says, "Hi Ronnie"
You say, "hello tina"
You say, "nice to see you"
tina says, "you too 😊"
You say, "It is a nice day outside"
Janet_Warburton says, "Welcome to our webinar!"

Main Room

People (3)
Janet_Warburton
ronnie
tina

Exit - Lobby - Help

Please note: Today's event will be recorded and archived at www.polartrec.com.

What is PolarTREC?



PolarTREC is a professional development experience in which K-12 teachers are paired with researchers in authentic polar research experiences.

In the next three years over 40 teachers from around the United States will join scientists in the Arctic and Antarctic in celebration of the International Polar Year!

www.polar-trec.com

The PolarTREC Team



Wendy Warnick
PolarTREC PI
Executive Director



Helen Wiggins
Program Coordinator



Janet Warburton
PolarTREC
Project Manager



Kristin Timm
PolarTREC
Project Manager



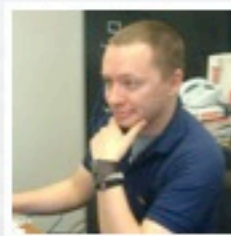
Ronnie Owens
Web Developer



Ben Wade
Web Developer



Tina Buxbaum
Electronic Media
Project Manager



Zeb Polly
Systems Administrator



Joed Polly
Video Production

...with help from the
entire staff at ARCUS



International Polar Year (IPY)

2007-2009



The International Polar Year (2007-2009) is an exciting scientific campaign focusing on the world's polar regions!

IPY is a time for discovery, science, learning, and awareness about the polar regions with activities for youth, scientists, and the public.

www.ipy.org

Where is Mr. Kelley & the Team?



POPULATED PLACES

- 100,000 – 499,999 • Anchorage
- 25,000 – 99,999 • Fairbanks
- 24,999 and less • King Salmon
- State capital ★ Juneau

TRANSPORTATION

- Principal highway 
- Railroad 
- Ferry 

PHYSICAL FEATURES

- Streams 
 - Lakes 
 - Highest elevation in state (feet) + 20320
 - Other elevations (feet) + 15300
- The lowest elevation in Alaska is sea level (Pacific Ocean).



Nuvuk Archaeology Studies

Dates: July 9 – August 16, 2008

Location: Nuvuk Site, outside
Barrow, Alaska

As part of an ongoing project to document ancestral burials near Barrow, Alaska, an interdisciplinary team of archaeologists, physical anthropologists, geomorphologists, and community members will work together to excavate the Nuvuk cemetery and village at Point Barrow.

The cemetery dates back at least 1200 years, contains several hundred shallow burials, and is rapidly eroding into the Arctic Ocean. The remains are likely to add significantly to our understanding of the ancient inhabitants of the Arctic, the evolution of their cultures, and their relationships to contemporary populations.





Frank Kelley
PolarTREC Teacher



Chester Andover
Elementary School
Chester, Vermont



Anne Jensen
PolarTREC Researcher

UIC Science
Barrow, Alaska

Who we are talking with today:

Dave Grant

San Jose State University

Tony Krus

Indiana University

Christine Heacock

College of Charleston

Krysta Terry

University of Western
Ontario

Dr. Owen Mason

Geoarch Alaska

Dr. Claire Alix

University of Alaska
Fairbanks



Nuvuk Archaeology Project

Barrow, Alaska

Summer 2008

Prepared by Frank Kelley

PolarTREC Teacher

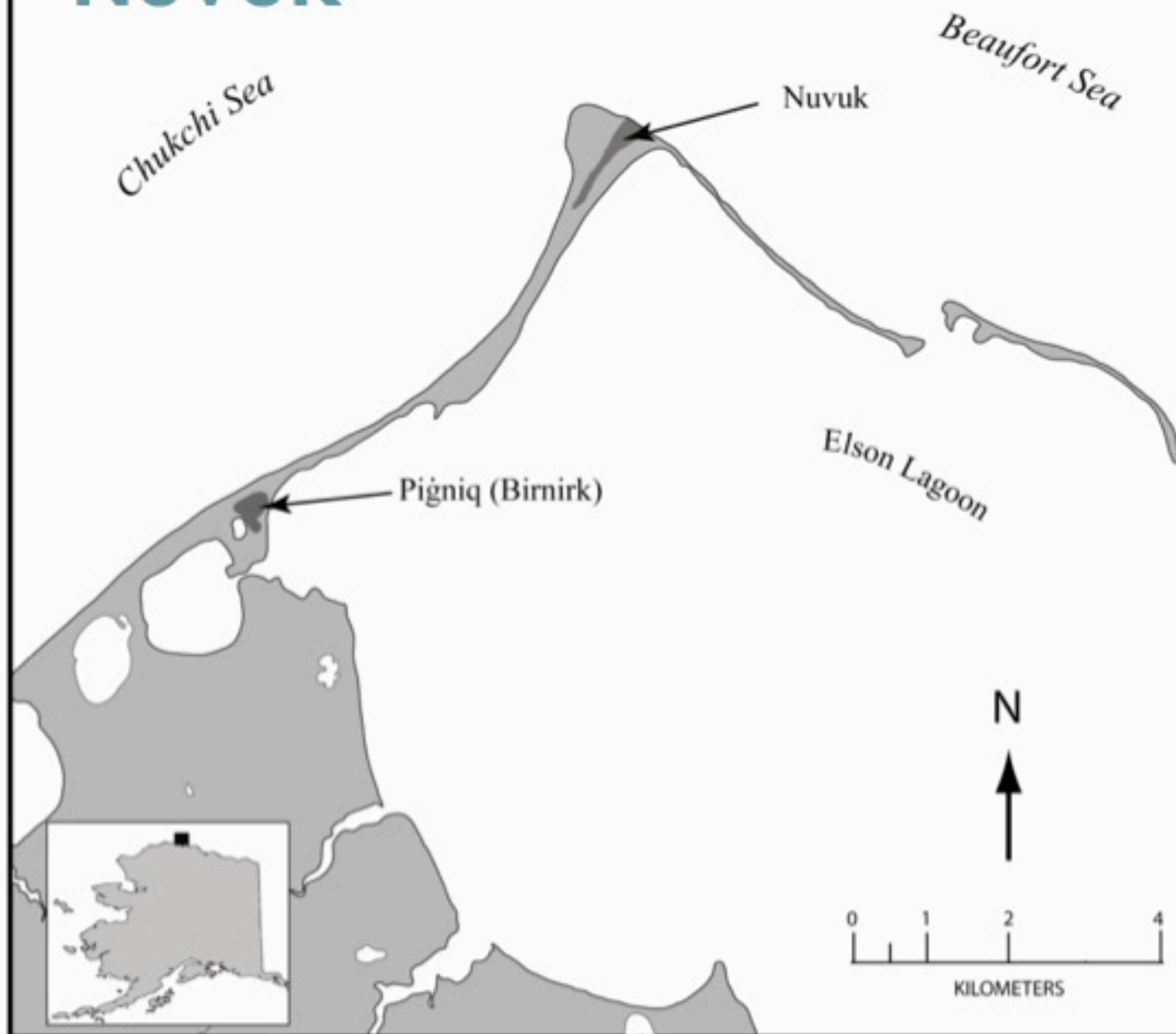
Sponsors

Special thanks goes out to the following organizations for funding this project and my participation:

- National Science Foundation
- ECHO Project - US Dept. of Education
- BASC: Barrow Arctic Science Consortium
- UIC: Ukpeaġvik Iñupiat Corporation
- North Slope Borough
- ARCUS: Arctic Research Consortium of the US

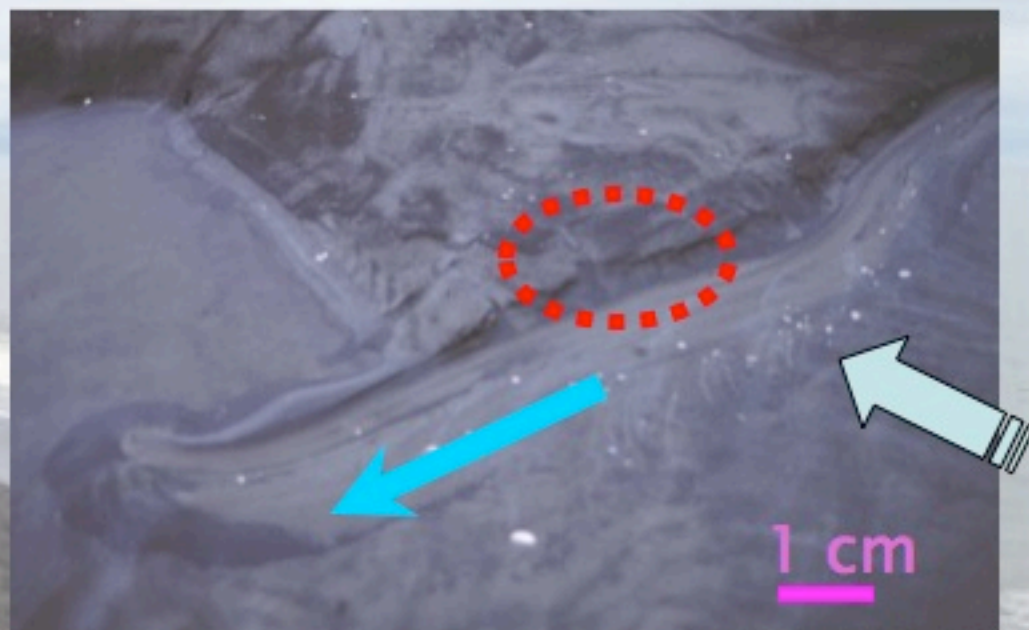
Nuvuk

Northern-most site in the United States



Building a Spit

- Bluffs at Utqiagvik only one component
- Insufficient gravel to explain the spit
- Shelf gravels must be major component
- Building from the Southwest, Eroding from the North
- Storms raise sea level and deposit gravels....

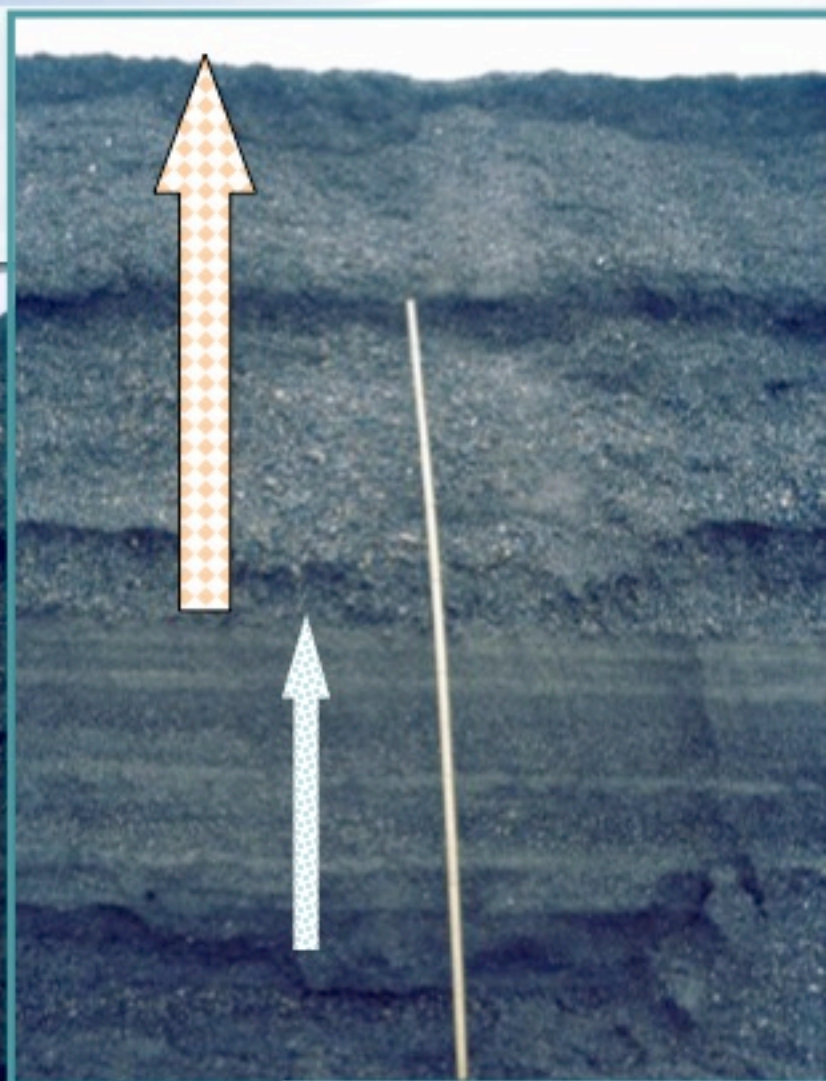


MASSIVE STORMS AT NUVUK

prior to AD 900-1000

**Increase in Grain Size:
Increase in Storm Power**

*Burial, with Sicco harpoon heads,
dated to ca. AD 1000*



Scale: 2 m

Nuvuk Archaeology Studies
www.polarrec.com













Background - People

- People have lived in the Barrow area, in numerous villages, for 3,500+ years.
- Life depended on the whales, seals, walrus, polar bear, caribou, ducks, and fish that lived and/ or migrated through the area.
- Raw materials such as whale bones, other animal bones, and driftwood were important resources for homes, transportation, and tools.
- Nuvuk was inhabited until the 1940's. Over time, there have been house sites, middens (trash piles), workshop areas, burial sites, and different geological features.



Background - Research

- The project got started in 1998 when human remains emerged from a bluff out at Nuvuk.
- The native corporation, UIC, made quick decisions about what was going to be done with the remains and the potential excavation project was supported.
- This salvage archaeology project is attempting to gather data and information efficiently before the site is damaged or washed out to sea.
- In 2004, major work began with local students involved as archaeologists.





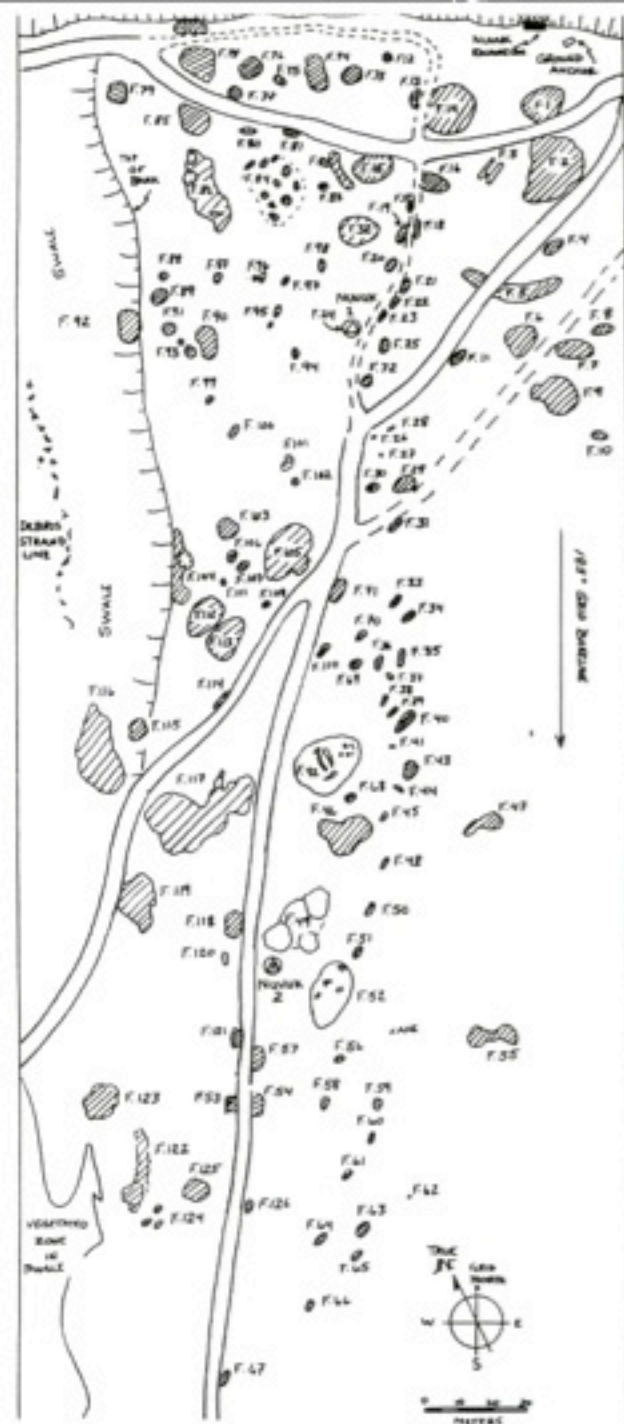
2000 BHS North Slope Science Class

Map of Nuvuk site



drawn by David Putnam

*mapping by Anne Jensen
& David Putnam*









Purpose:

The purpose of my lab was to:

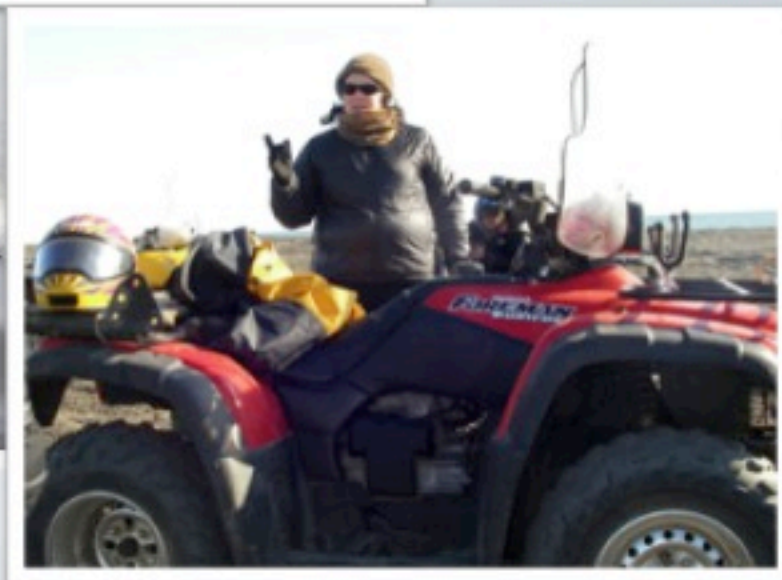
- learn how archaeology works,
- understand the way of life of the Arctic people,
- share discoveries with people.



Materials

There are numerous materials used in this experiment:

- archaeology tools
- computer
- four-wheelers
- lab facilities & BASC
- Hut #268



Results Summary - 2008

- 13 local students, 13 researchers, and 6 scientists have been involved in this project this summer.
- A section, 40m (120') by 120m (360'), of the bluff have been examined this summer, with human remains and artifacts collected, examined, and stored for future research.
- Archaeology skills were introduced and reinforced throughout the summer.

Results: Shovel Test Pits



Test Areas

Shovel

Forms

Naval Archaeology Project 2007
Shovel Test Pit Record

Unit: **CF9** Date: **7/8/07** Page: **2**
Unit No: **50** cm Station: **376**
Clay Depth: **50** cm

1. Area

1	2	3	4	5	6	7	8	9	10	11	12

WALLS: **20 20**

ARTIFACTS:
 Pottery
 Glass
 Metal
 Bone
 Shell
 Textiles
 Plant Remains
 Wood
 Iron
 Lead
 Other: _____

Soil Description: Sand Silt Clay Gravel Cobble Pebbles Other: _____
Around pile of dirt, some vegetation and soil

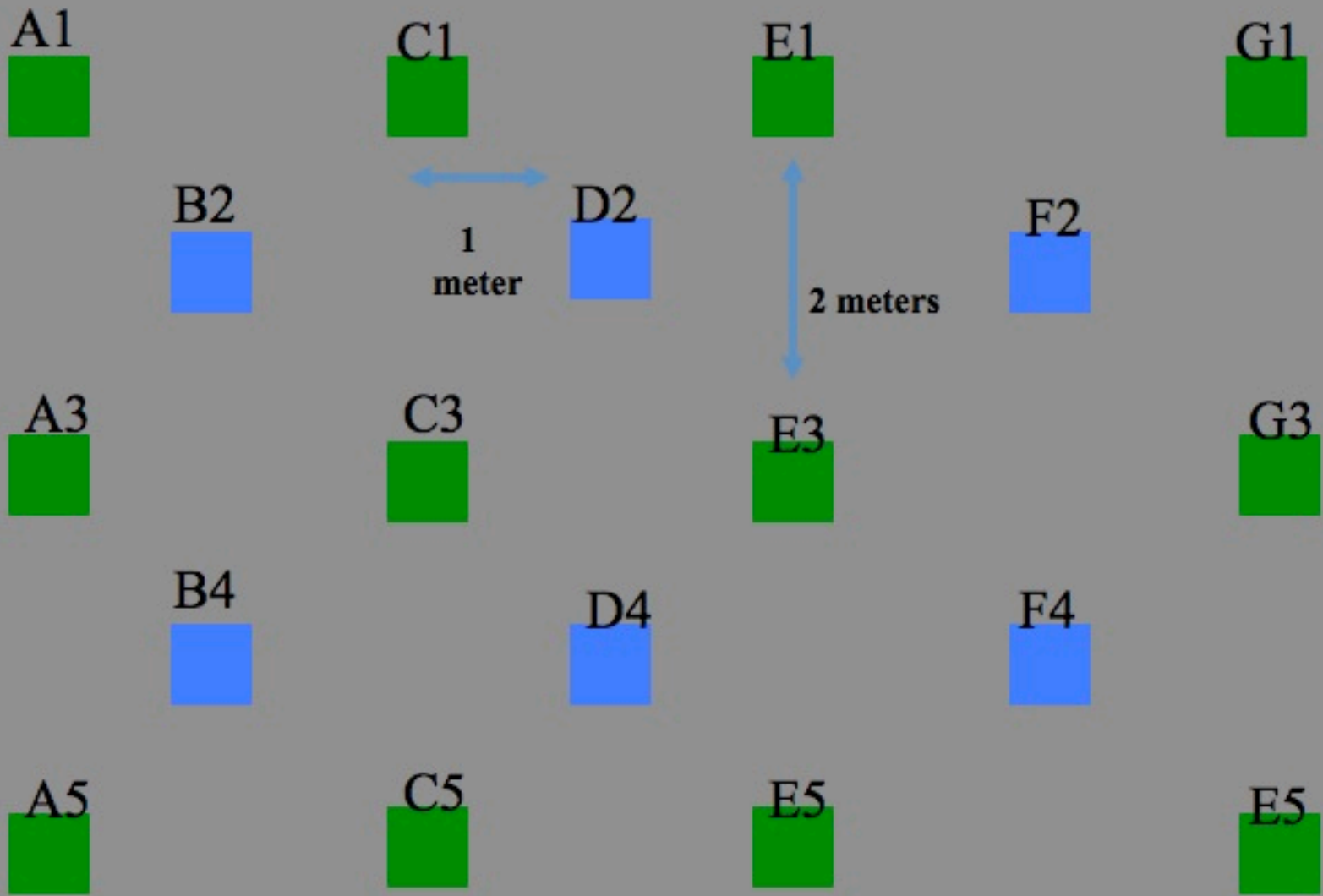
Remarks: No Yes Partially Observed by Observed by Other: _____

Sample Collected: Yes No Partially Observed by Other: _____

Additional Notes or Drawings: Yes No

Comments: **☺**

Do you think the STP needs to be repeated? Yes No **No artifacts**



Shovel Test Pit Layout

Shovel Test Pit Artifacts - with Ziploc Bags!



Results: Burials

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Burial F79

Adult Male



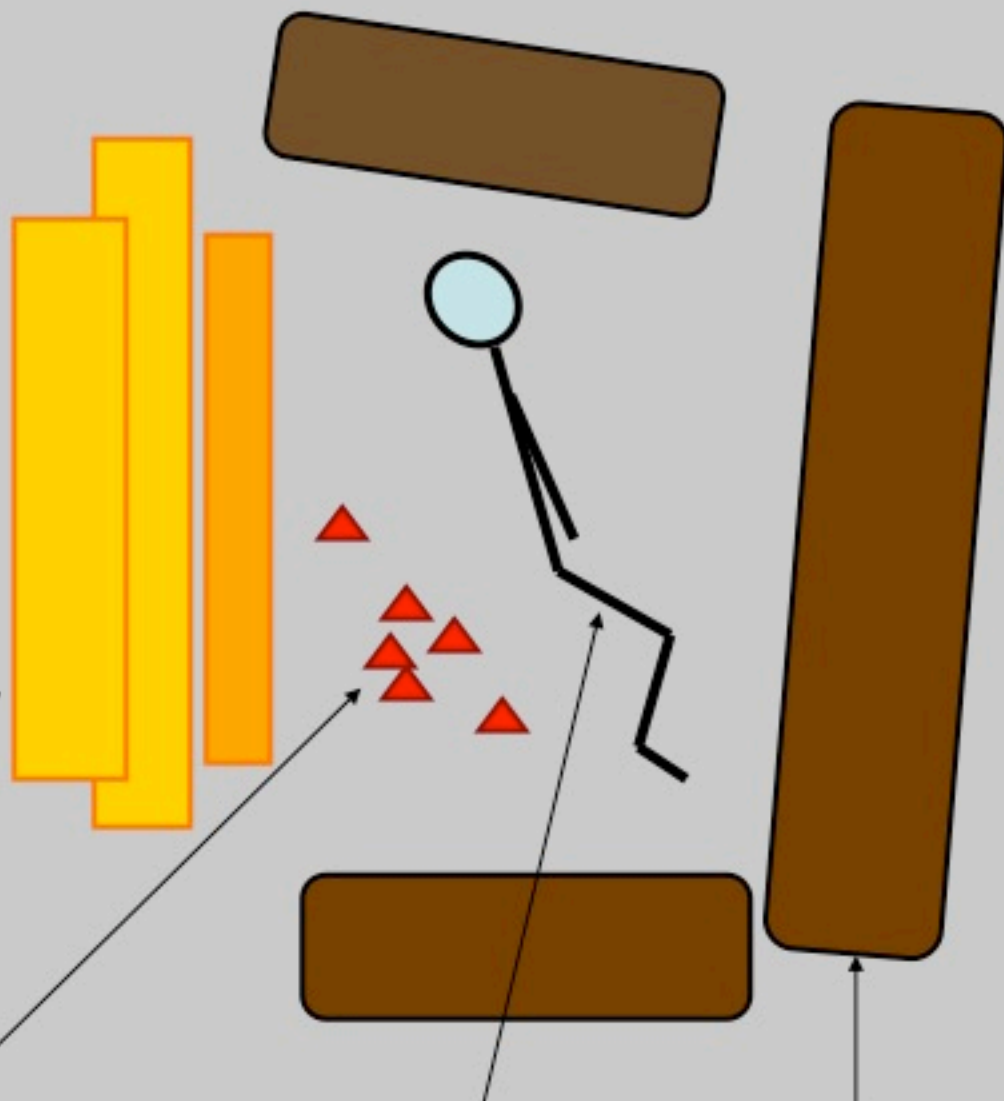
N

Whale Bone

Artifacts

Human Remains

Driftwood



07LL28 1030-1280 AD



Shovel blade from 07LL28



Results: Driftwood Feature





Nuvuk - Trench 6, large flake - WITH GROOVE



Looking at cut marks to look at blades

Slide courtesy of C. Alix

Nuvuk – Trench 6, Large flake - w/ Adze Head



Looking at cut marks to look at blades

Slide courtesy of C. Alix

Results: The Trench

**60 cubic meters,
or about 7
dumptucks of
gravel.**

**Moved by
throwing or by
hauling buckets.**

**This is the
second
trench of the
year.**





Results: Lab Work



Log Section



"Stinky Peat Bomb" KT



Questions and Answers

1. What is life like in the Barrow for the scientists?
2. What are the next steps with the project?
3. What does BASC have to do with this project? What else is BASC doing?
4. What questions does the audience have?

Conclusions

LEARN



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E



CHANGE

HUGE thanks to everyone:
Anne, Laura, 268ers, 253ers,
Natives, NARLers, BASCers,
ARCUS, CAESers, and
onliners. Big Hugs to Julie and
Marina. :)



Check out and register for upcoming events!



8 August 2008—Missy Holzer and team in Svalbard, Norway

*Register for these events and watch for others at
www.polartrec.com!*

Thank You!



For more information, please
visit www.polarrec.com

Or Call 907-474-1600

Email: infr@polarrec.com



ARCUS

