

Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project



Brandon Chapman
Anthropologist, Northwest Arctic Borough

Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

Goals of this presentation:

- ✓ Show how project can be done at community level.
- ✓ Explain how project unites traditional knowledge with western knowledge and makes them scientifically defensible.



Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Mission is to Protect Subsistence
- ✓ **Borough Code 9.25.020 Areawide Standards**
“Protection of subsistence uses and resources shall be given the highest priority.”
- ✓ Help identify potential resource development areas



Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Project addresses NAB Comprehensive Plan Goals (March 1993)
- ✓ Builds on 24 years of previous studies, such as NAB's and Maniilaq's 1987 mapping of ten NAB communities
- ✓ Maps will help in permitting to protect subsistence and promote resource development

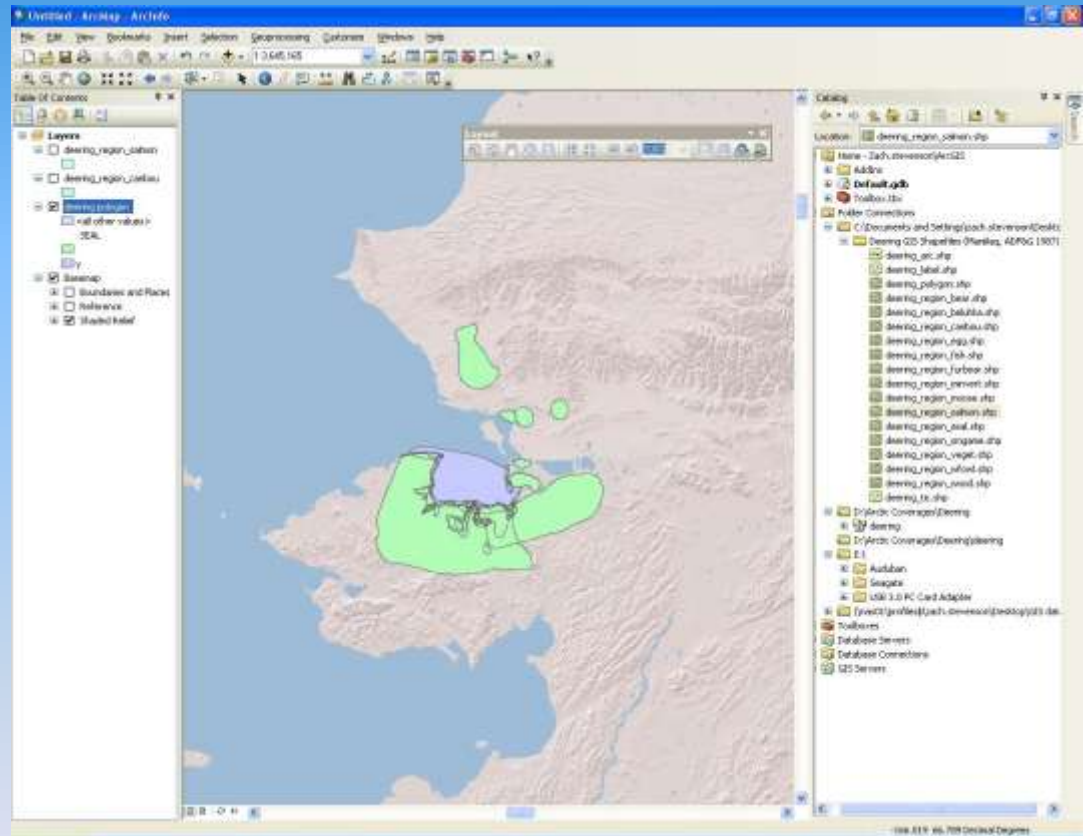
Northwest Arctic Borough Comprehensive Plan Goals

- Maintain the Iñupiaq culture.
- Promote and maintain subsistence and the traditional way of life.
- Protect the Northwest Arctic Borough environment.
- Support the viability of existing communities.
- Support and help develop local self determination.
- Foster appropriate economic development.
- Raise the standard of living for Borough residents.
- Facilitate implementation and activities and programs by villages, and regional institutions within the Borough.

*Northwest Arctic Borough
Comprehensive Plan, March
1993*

Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Mapping projects have been done by North Slope Borough, Kawerak, to protect subsistence
- ✓ Our project team will use technical and legal methods to make sure information is secure, intellectual property protected



Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Create Iñupiaq maps of Communities and Region
- ✓ Seven Communities: Buckland, Deering, Kivalina, Kotzebue, Noatak, Noorvik, and Selawik



Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Advisory Groups will be 7 *experienced* subsistence hunters, fishers, or gatherers in each community
- ✓ Advisory group members appointed through consultation with IRA councils



Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Preserve Iñupiaq culture
- ✓ Document local and traditional knowledge and Iñupiaq Place names
- ✓ Elders will serve as Advisory Group members



Mayor Siikauraq Whiting
Northwest Arctic Borough
P.O Box 1110
Kotzebue, Alaska 99752

Date: _____

Letter of Interest: Noorvik Advisory Committee for Subsistence Mapping

Dear Mayor:

This letter is in regards to the advisory committee member for the Subsistence Mapping Project in Noorvik.

I am a...(check all that apply)

Elder Fisherman
 Hunter Gatherer (plants, berries)

I would appreciate your consideration in appointing me to the Advisory Committee.

Thank you for your consideration.

Sincerely,

Signature

Printed Name _____
Mailing Address _____
City/State/Zip _____
E-mail Address _____
Contact Phone Number _____

Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Advisory groups will drive project
- ✓ Advisors and project team will discuss more than mapping
- ✓ Advisors will define what subsistence means, why it is important, what species are harvested during different seasons



Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Methods will be scientifically defensible and emphasize local knowledge
- ✓ Maps will meet State of AK/DNR's 'scientific evidence' definition



Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Local knowledge is of equal importance to Western knowledge

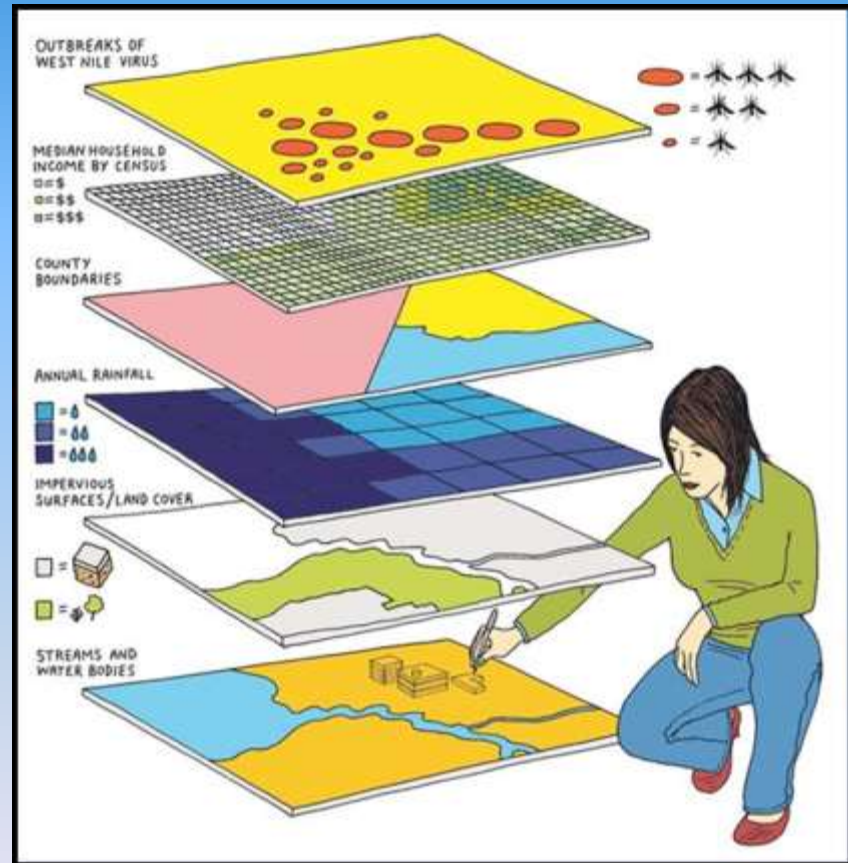


Social Science Survey Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Ask Advisory groups what topics and questions they want to discuss
- ✓ Create list of topics and questions
- ✓ Questions tested on CIAP Project team
- ✓ CIAP Project team will refine questions
- ✓ Advisors are subsistence experts, researchers provide technical support
- ✓ Technical support includes providing maps, previously published information, and recording discussions

Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Advisory groups will help share information and update existing paper maps
- ✓ Draw on map overlays
- ✓ Use computers to make electronic maps
- ✓ Can travel to sites to update maps
- ✓ Note Iñupiaq Place names where appropriate



Sources: ESRI and Architect Magazine, 2011.

Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ❖ Have elder, longtime resident, hunter, and fisherman John Goodwin, Sr. on team
- ❖ Fluent in Iñupiaq
- ❖ Strong familiarity and experience with subsistence



Source: Kotzebue IRA.

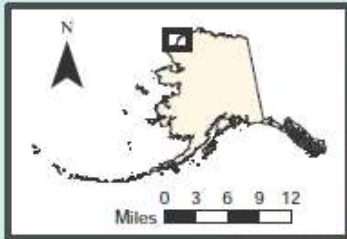
Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ On the following slides are examples of similar projects' subsistence maps and what ours may generally look like
- ✓ Following maps show migration routes, subsistence areas, place names



Date: February 2011

ARCTIC OCEAN



70°0'0"

CHUKCHI

SEA

70°0'0"

69°0'0"


17


165°0'0"

160°0'0"



Map 5: Point Lay Whale Habitat

 bowhead spring migration

 beluga spring migration

Under contract to Tetra Tech, Inc. and in association with the U.S. EPA Chukchi and Beaufort NPDES General Permit Traditional Knowledge Study, Stephen R. Braund and Associates coordinated with the Native Village of Point Lay in order to interview eight Point Lay residents during six workshops in September and October of 2010.

69°0'0"




Map 15: Point Lay Subsistence Use Areas, Fish


Source: Braund and Burnham 1984

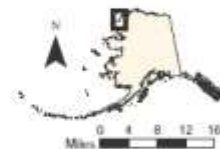
-  1979-1983 Intensive Use
-  1979-1983 Maximum Use

Source: Pedersen 1979b

-  Lifetime Use, pre 1979

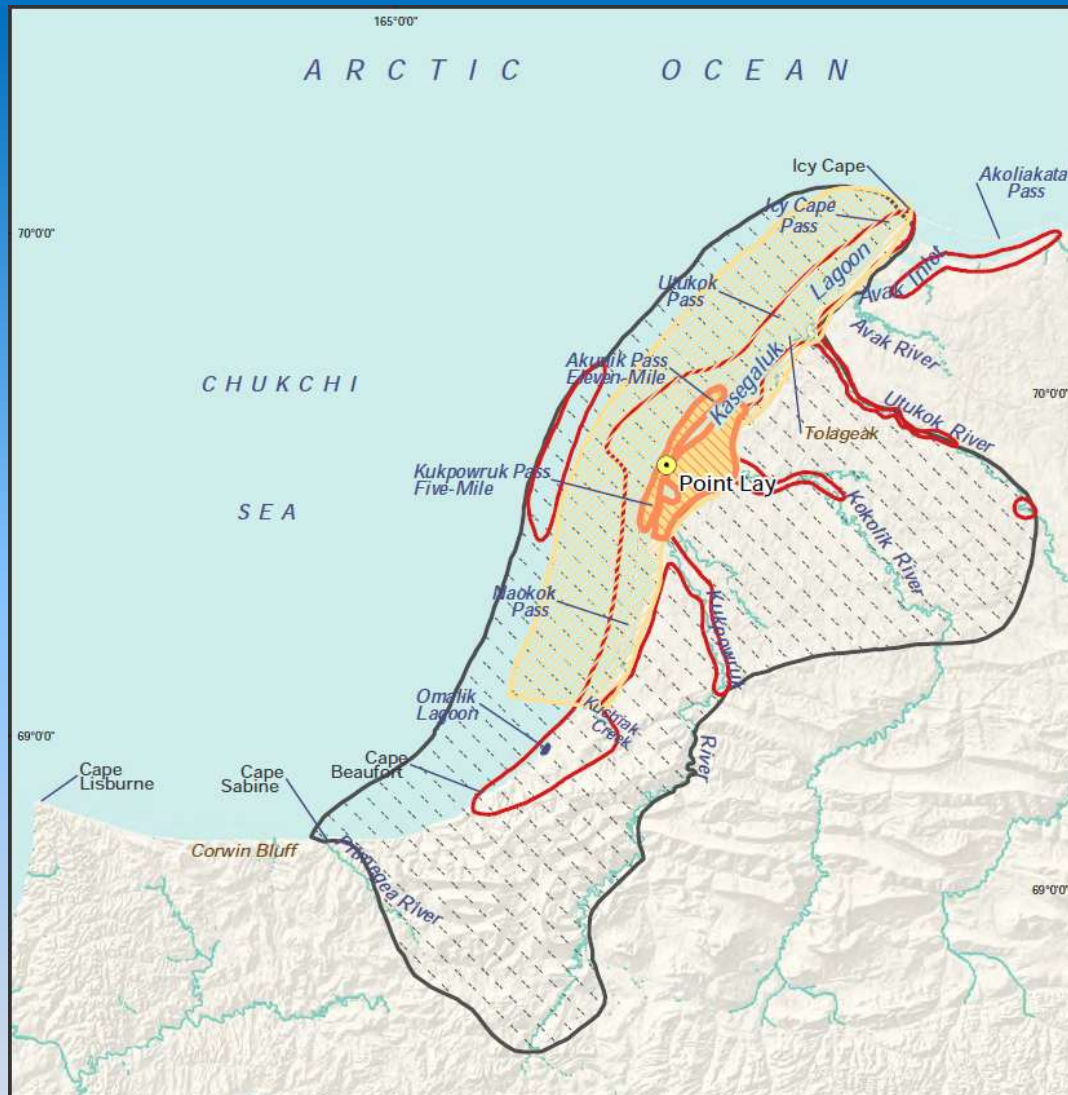
Source: IAI 1989

-  Lifetime Use, pre 1987



Stephen R. Braund & Associates
P.O. Box 1480
Anchorage, Alaska 99510
(907) 276-8222 srb@aialaska.net

Date: February 2011




Map 16: Point Lay Subsistence Use Areas, Waterfowl


Source: Braund and Burnham 1984

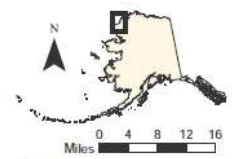
-  1979-1983 Egg Gathering
-  1979-1983 Intensive Use (migratory birds)
-  1979-1983 Maximum Use (migratory birds)

Source: Pedersen 1979b

-  Lifetime Use, pre 1979 wildfowl

Source: IAI 1989

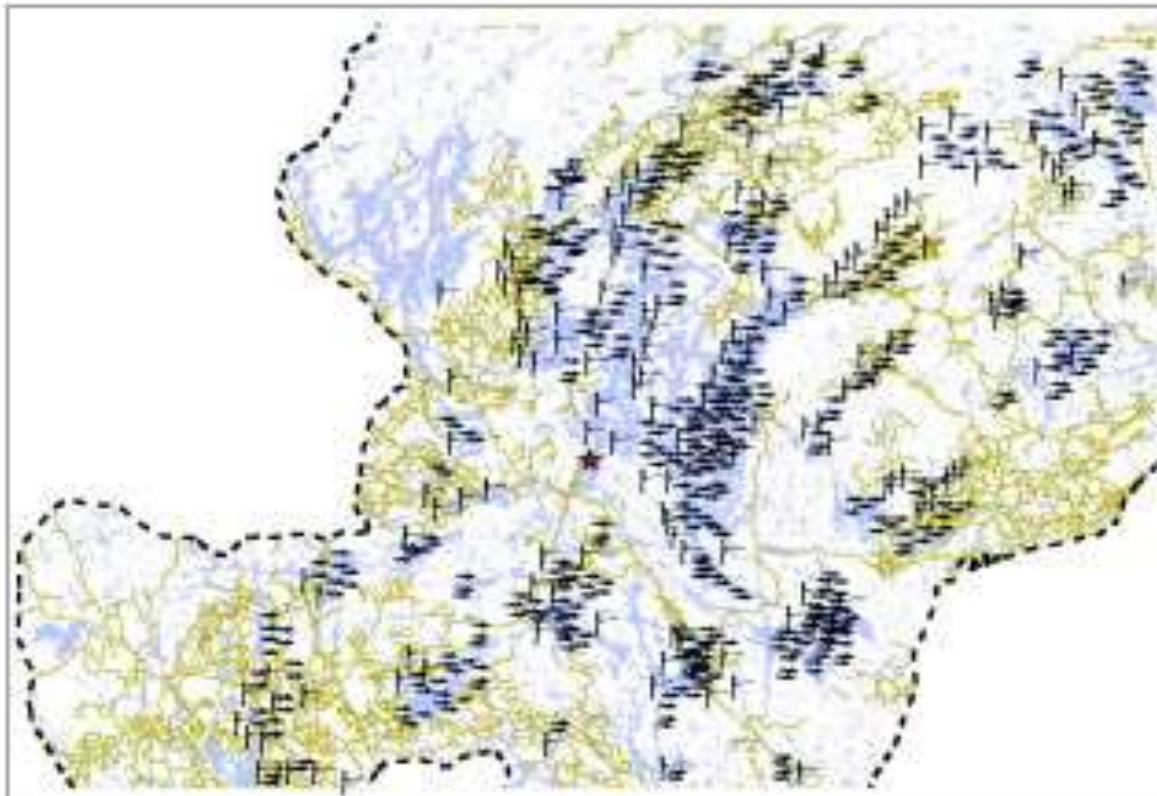
-  Lifetime Use, pre 1987 waterfowl



Stephen R. Braund & Associates
P.O. Box 1480
Anchorage, Alaska 99510
(907) 276-8222 srb@alaska.net

Date: February 2011

Algonquins of Barriere Lake Fish Harvest Sites



LEGEND

- Sturgeon Harvest Site
- Fish Gill Net Harvest
- Fish Rod and Line Harvest
- Rapid Lake Community
- ROAD
- INTERNATIONAL AGREEMENT TERRITORY BOUNDARY
- HYDROGRAPHY

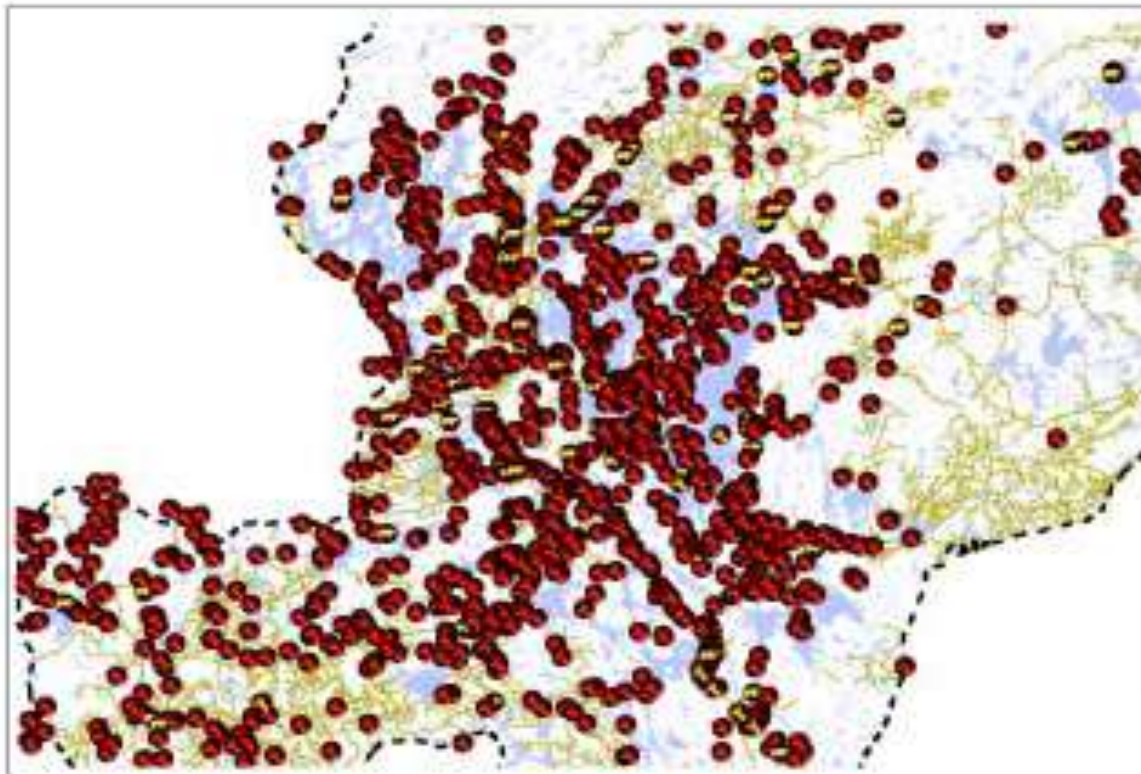


All data are made available for use by the Algonquins of Barriere Lake and are UNCLASSIFIED. This data is to be used only for the purpose of this document. Any use not stated, provided by the Algonquins of Barriere Lake, is strictly prohibited. For the Algonquins of Barriere Lake. This data is the property of the Algonquins of Barriere Lake.



ARDEX GIS
 Geographic Information Systems
 1000 Avenue de la Concorde Est
 Québec, Québec H1K 1K1

Algonquins of Barriere Lake Big Game Harvest Sites



LEGEND

- Bear
- Moose
- Deer

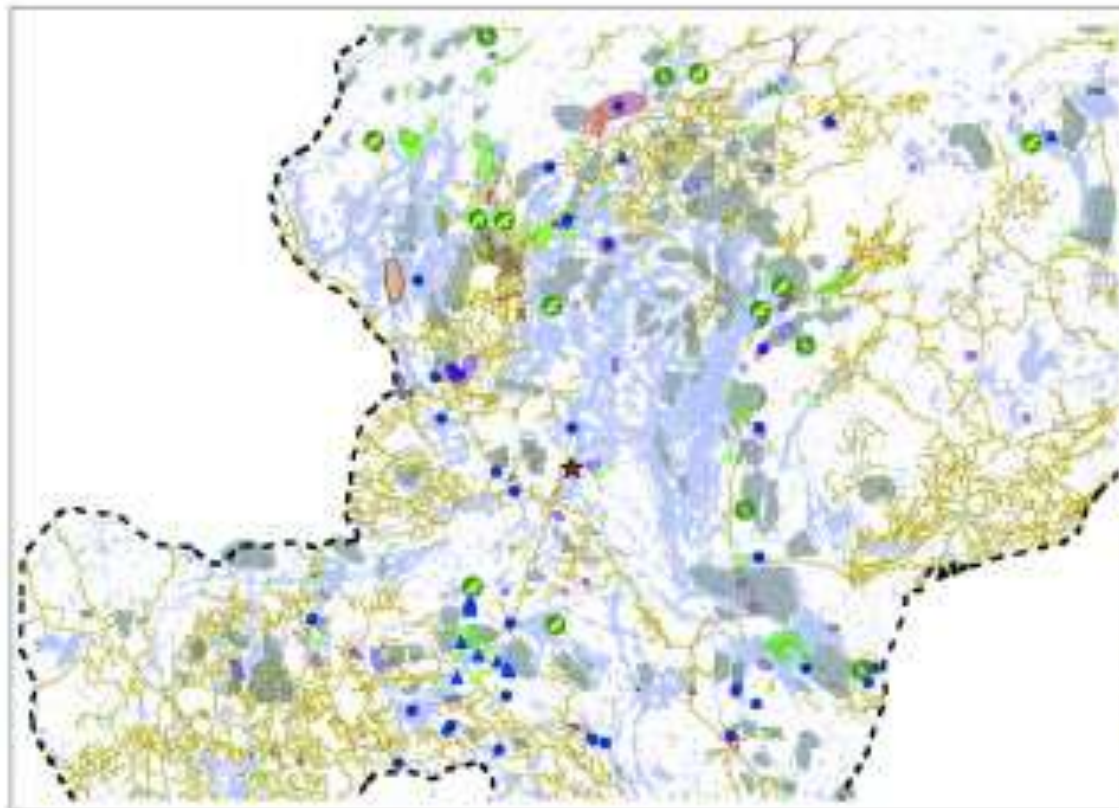
- ROAD
- TERRITORY BOUNDARY
- HYDROGRAPHY



This map represents the Algonquins of Barriere Lake Agreements of Barriere Lake and is © 2014 ARREX OGS. The map is for reference only and does not constitute a legal document. The Algonquins of Barriere Lake are not responsible for any errors or omissions. The map is for reference only and does not constitute a legal document. The Algonquins of Barriere Lake are not responsible for any errors or omissions.



Algonquins of Barriere Lake Plant Harvest Sites, Special Wildlife Sites, Sacred Areas



LEGEND

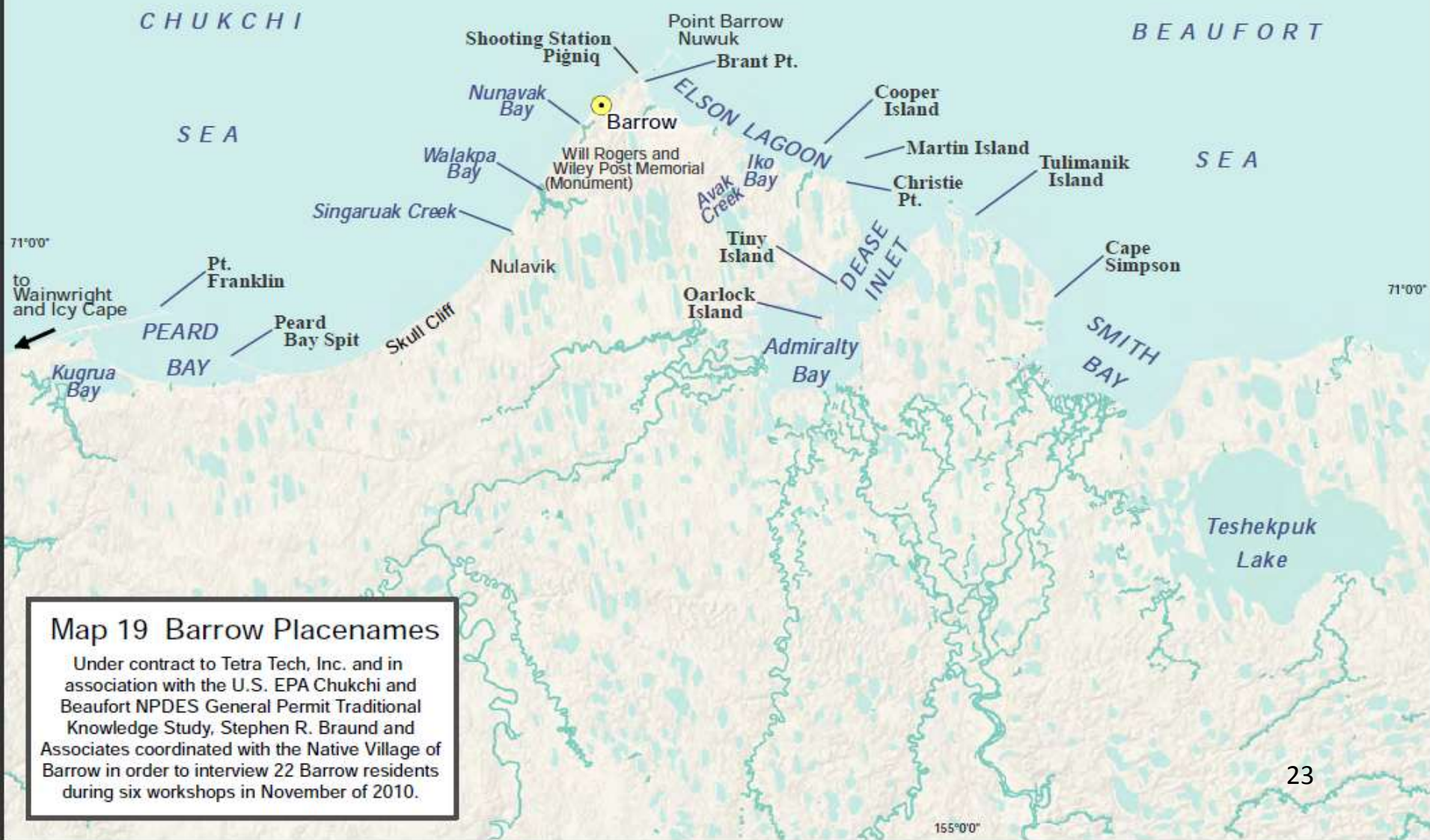
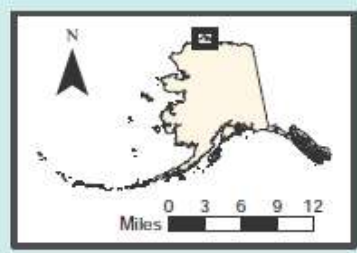
- Henonny
- Eagle Nest
- Bear Den
- Sacred Sites
- Sacred Area
- Burial Site
- Specialty Wood
- Tobacco Site
- Sugar Bushes
- Spawning Area
- Medicinal Plants
- Root Site
- Moose Yard
- ALTON LAKE COMMUNITY
- ROAD
- TERRITORIAL AGREEMENT
- HYDROELECTRIC



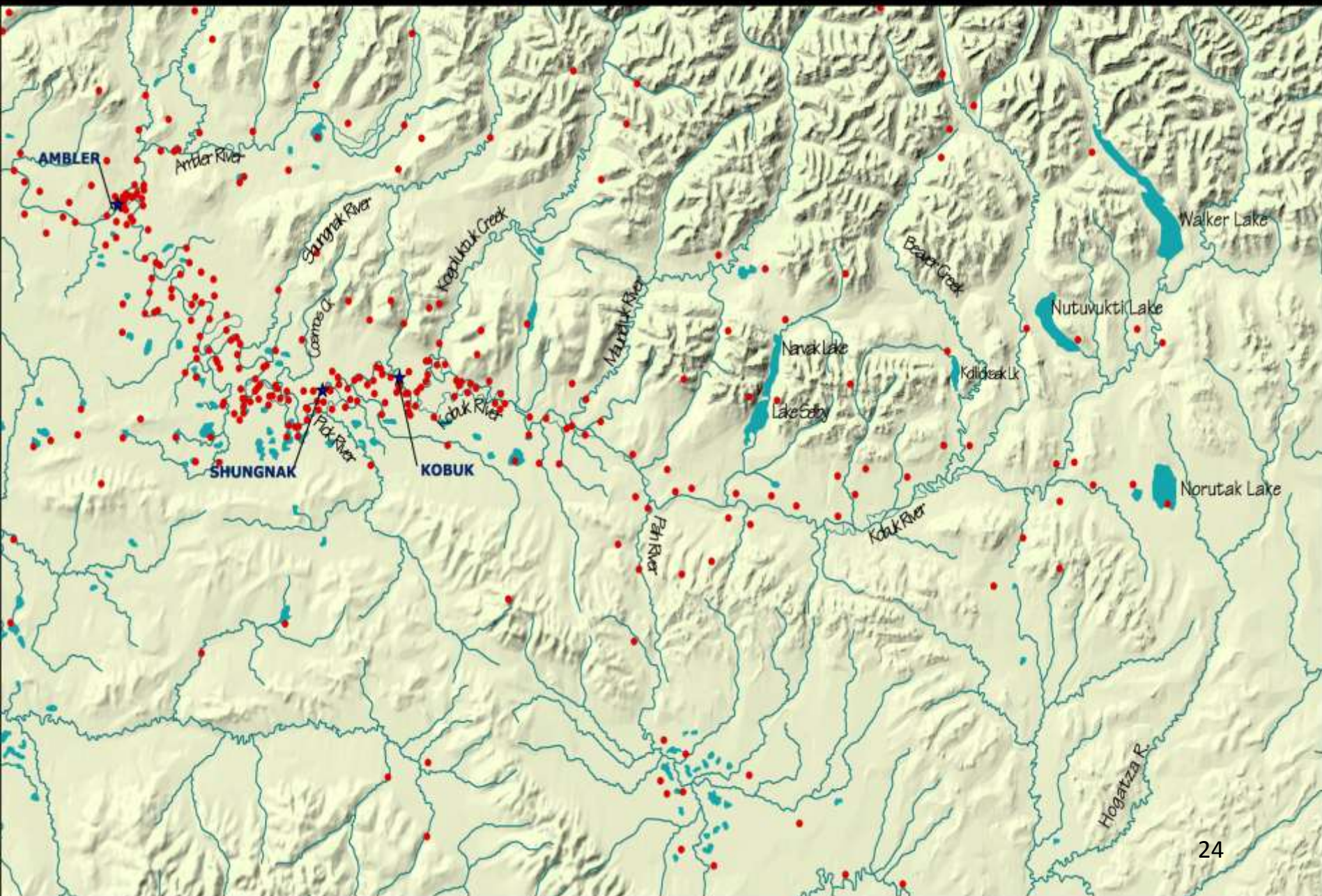
All names and designations appearing in this Agreement conform to the names and designations in the 1991-1992 AG. This map is to be controlled by the province of the United Kingdom. It is not to be used, reproduced or otherwise published, in whole or in part, without the written consent of the Algonquins of Barriere Lake. The Algonquins of Barriere Lake are not responsible for any errors or omissions in this map.



ARCTIC OCEAN



Map 19 Barrow Placenames
Under contract to Tetra Tech, Inc. and in association with the U.S. EPA Chukchi and Beaufort NPDES General Permit Traditional Knowledge Study, Stephen R. Braund and Associates coordinated with the Native Village of Barrow in order to interview 22 Barrow residents during six workshops in November of 2010.



Ensuring Success in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Project team is reviewing previous peer-reviewed studies
- ✓ These studies address subsistence in the Arctic, provided by ADF&G's Division of Subsistence - Jim Magdanz
- ✓ Combining previously published map layers, species concentrations into database
- ✓ Addresses concern that this project repeat what's already been done

Ensuring Success in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Project requirement by assembly and major funders is to protect traditional knowledge



Social Science Methods in the Northwest Arctic Borough Subsistence Mapping Project

- ✓ Comments?
- ✓ Questions?



Taikuu

Contact:

Brandon Chapman
Anthropologist
Northwest Arctic Borough

800-478-1110 x165 (Toll-free)
907-442-2500 x165 (Direct)
907-995-4144 (Cell)
bchapman@nwabor.org

