

Subsistence Mapping Methods and Results

James Magdanz

November 2011

DIVISION OF
SUBSISTENCE



ALASKA DEPT. OF FISH & GAME

Different Kinds of Subsistence Maps

- **“OBJECTIVE” MAPS**
 - Place Names
 - Use & Occupancy
 - Subsistence Search Areas
 - Subsistence Harvest Locations
- **“SUBJECTIVE” MAPS**
 - Important Ecological Areas



Different Ways to Collect Map Data

- **INDIVIDUAL MAPS**

- **Large Sample:** *perhaps every person or household*
- **Many Individual Maps:** *everybody draws maps*
- **Final Map:** *created by combining individual maps*

- **GROUP MAPS**

- **Small Sample:** *knowledge key respondents*
- **Single Community Map:** *drawn by group*



What we do...

- **OBJECTIVE MAPS**

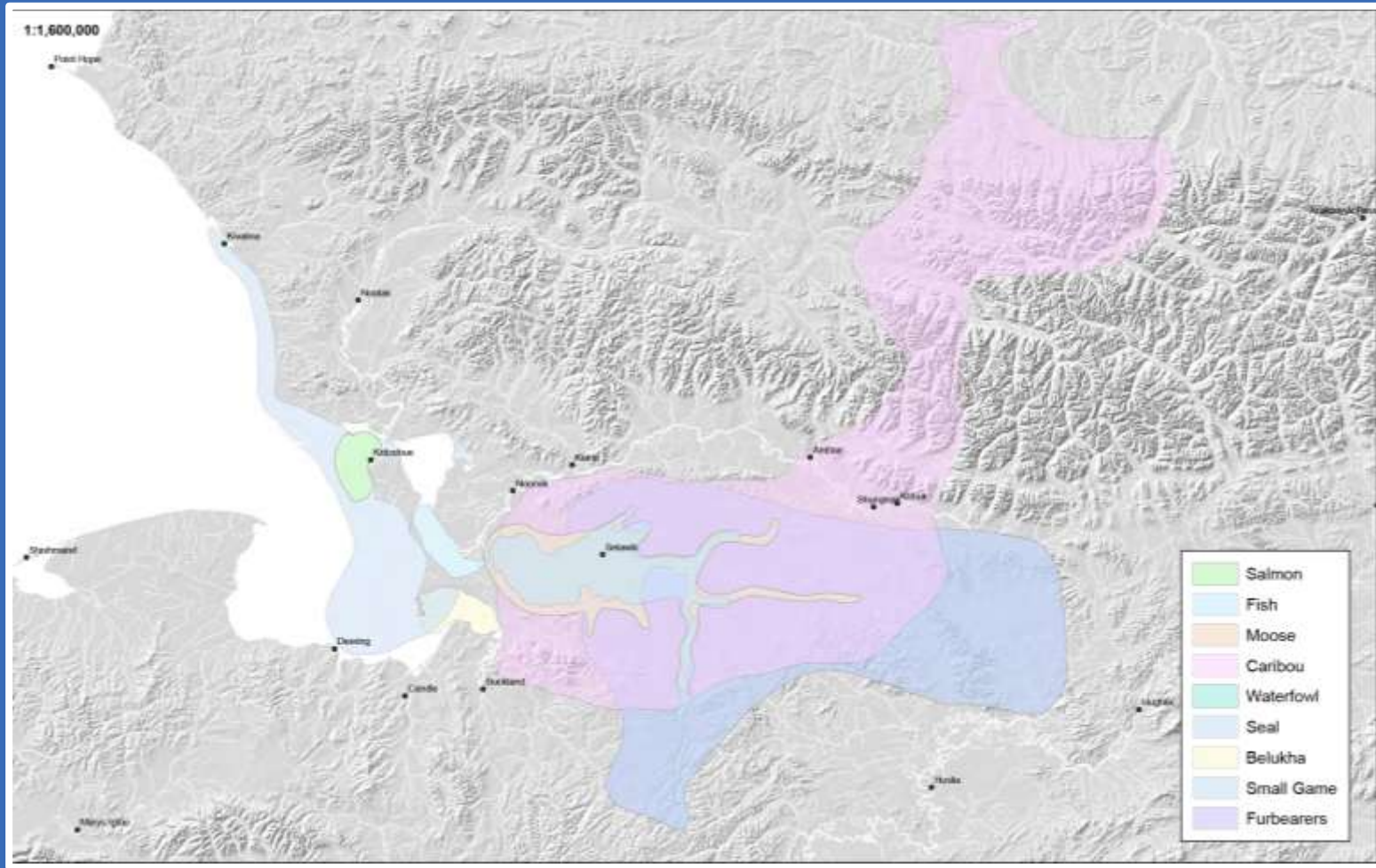
- **Subsistence Search Areas:** *in last 12 months*
- **Subsistence Harvest Locations:** *in last 12 months*

- **INDIVIDUAL MAPS**

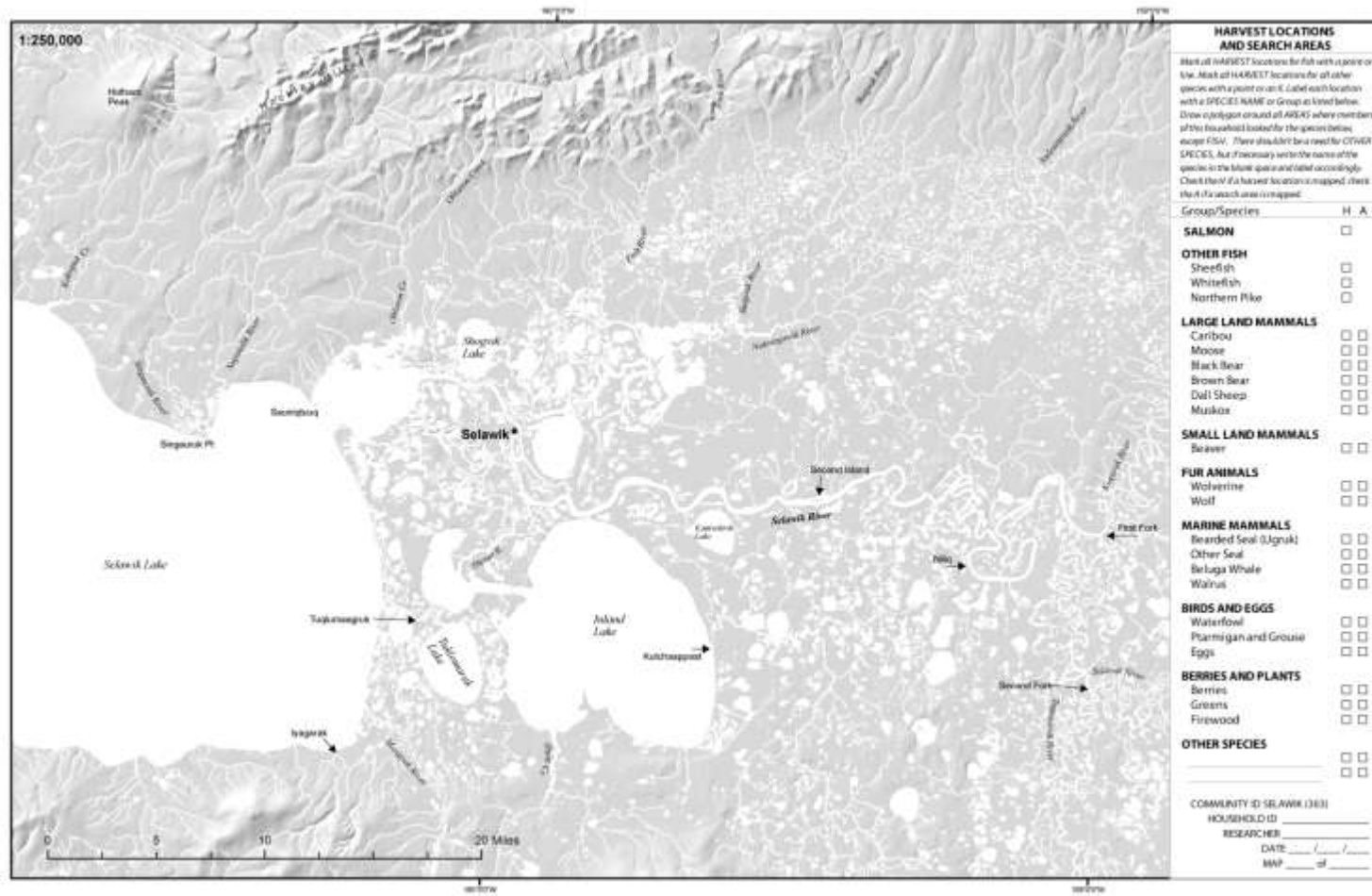
- **Large Sample:** *perhaps every person or household*
- **Many Individual Maps:** *everybody draws maps*
- **Final Map:** *created by combining individual maps*



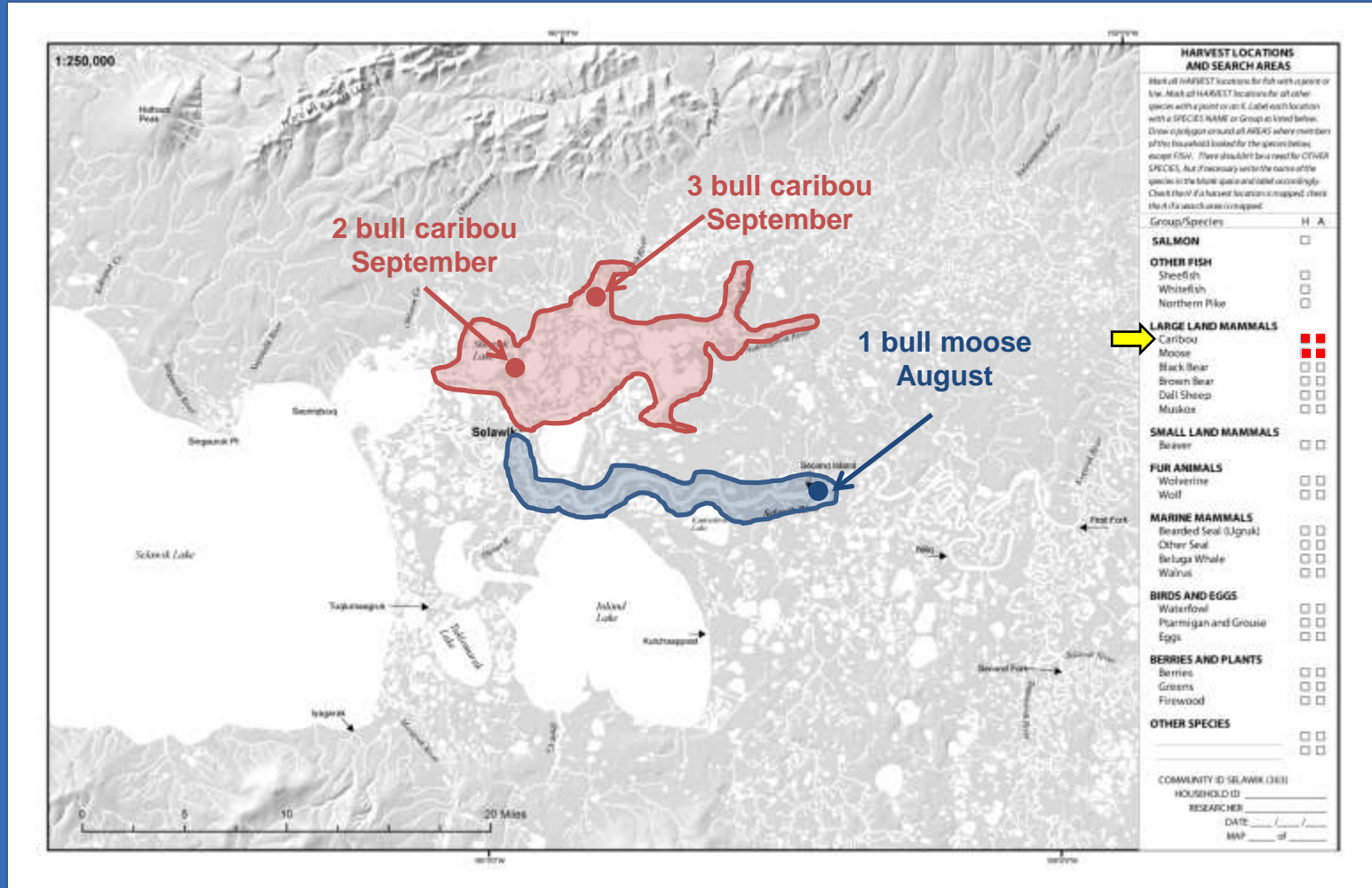
Step 1: Review Existing Maps



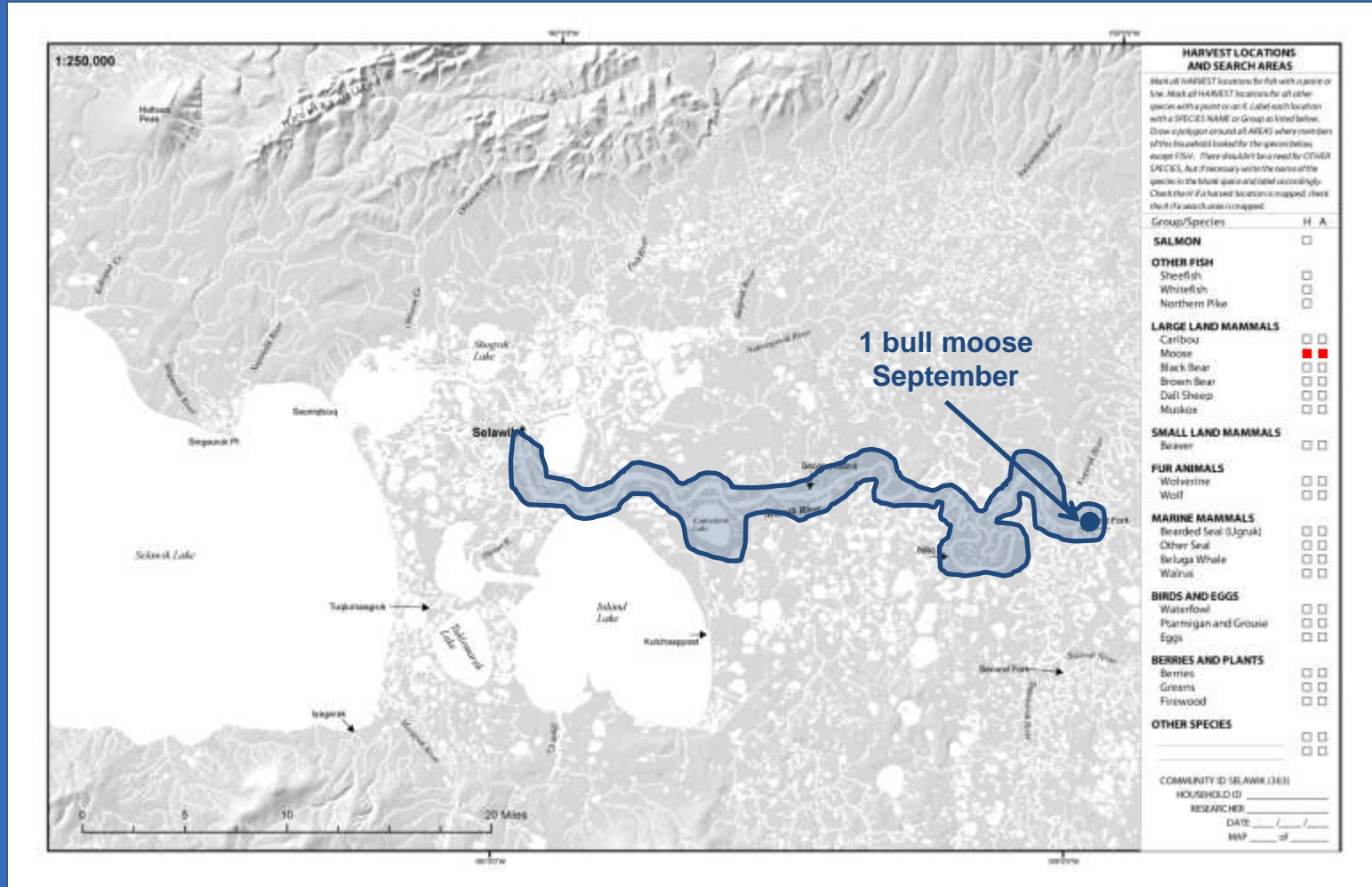
Step 3: Make Data Collection Maps



Step 4: Interview Households



Step 4: Interview Households



Step 4: Interview Households

HARVEST LOCATIONS AND SEARCH AREAS

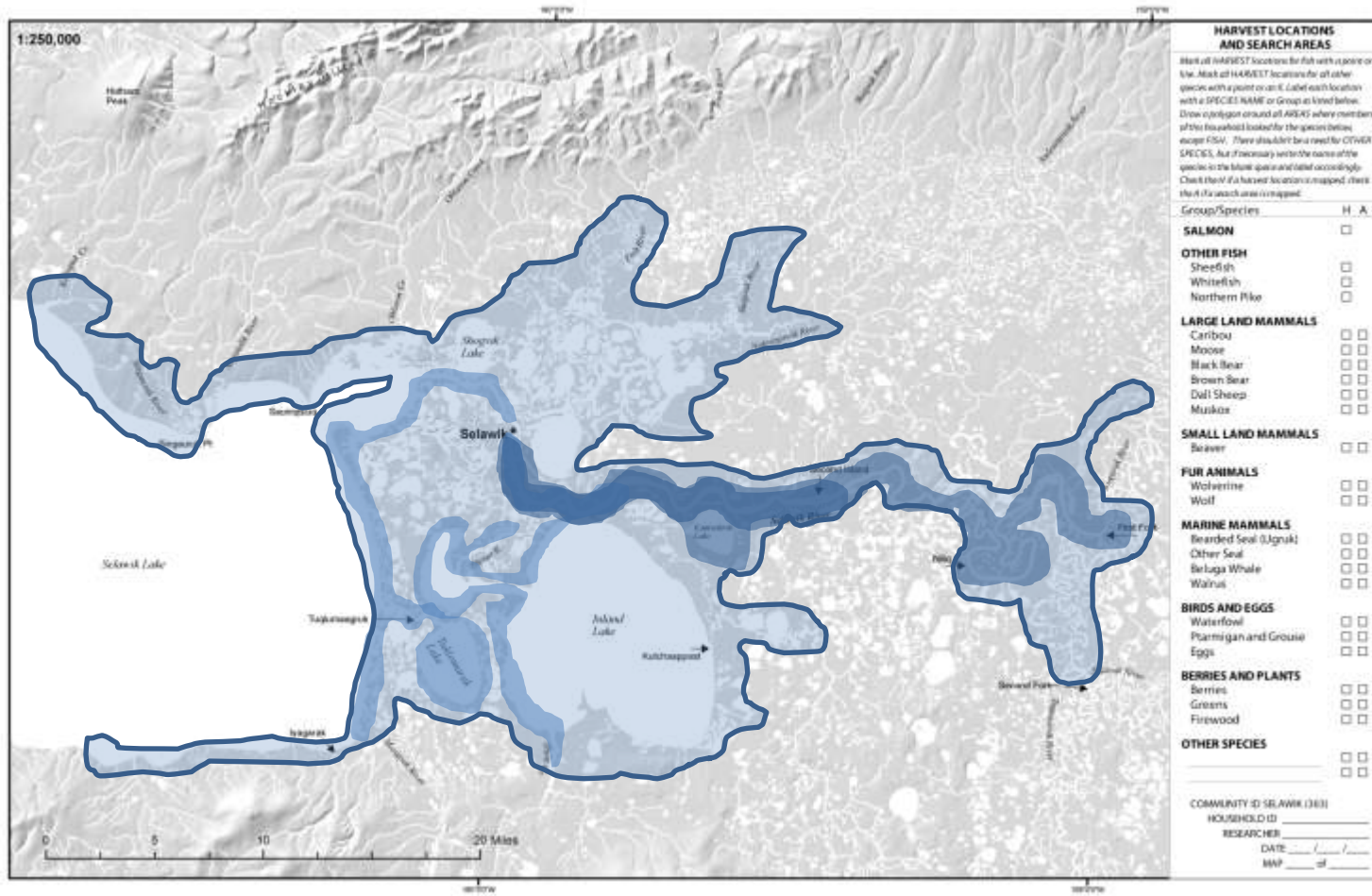
Mark all HARVEST locations for fish with a point or line. Mark all HARVEST locations for all other species with a point or an X. Label each location with a SPECIES NAME or Group as listed below. Draw a polygon around all AREAS where members of the household looked for the species below, except FISH. There should be one box for OTHER SPECIES, but if necessary write the name of the species in the blank space and label accordingly. Check them if a harvest location is marked there. If a search area is marked:

Group/Species	H. A.
SALMON	<input type="checkbox"/>
OTHER FISH	
Sheefish	<input type="checkbox"/>
Whitefish	<input type="checkbox"/>
Northern Pike	<input type="checkbox"/>
LARGE LAND MAMMALS	
Caribou	<input type="checkbox"/>
Moose	<input checked="" type="checkbox"/>
Black Bear	<input type="checkbox"/>
Brown Bear	<input type="checkbox"/>
Doll Sheep	<input type="checkbox"/>
Muskrat	<input type="checkbox"/>
SMALL LAND MAMMALS	
Beaver	<input type="checkbox"/>
FUR ANIMALS	
Wolverine	<input type="checkbox"/>
Wolf	<input type="checkbox"/>
MARINE MAMMALS	
Bearded Seal (Ugnuk)	<input type="checkbox"/>
Other Seal	<input type="checkbox"/>
Beluga Whale	<input type="checkbox"/>
Walrus	<input type="checkbox"/>
BIRDS AND EGGS	
Waterfowl	<input type="checkbox"/>
Ptarmigan and Grouse	<input type="checkbox"/>
Eggs	<input type="checkbox"/>
BERRIES AND PLANTS	
Berries	<input type="checkbox"/>
Grasses	<input type="checkbox"/>
Firewood	<input type="checkbox"/>
OTHER SPECIES	
_____	<input type="checkbox"/>
_____	<input type="checkbox"/>

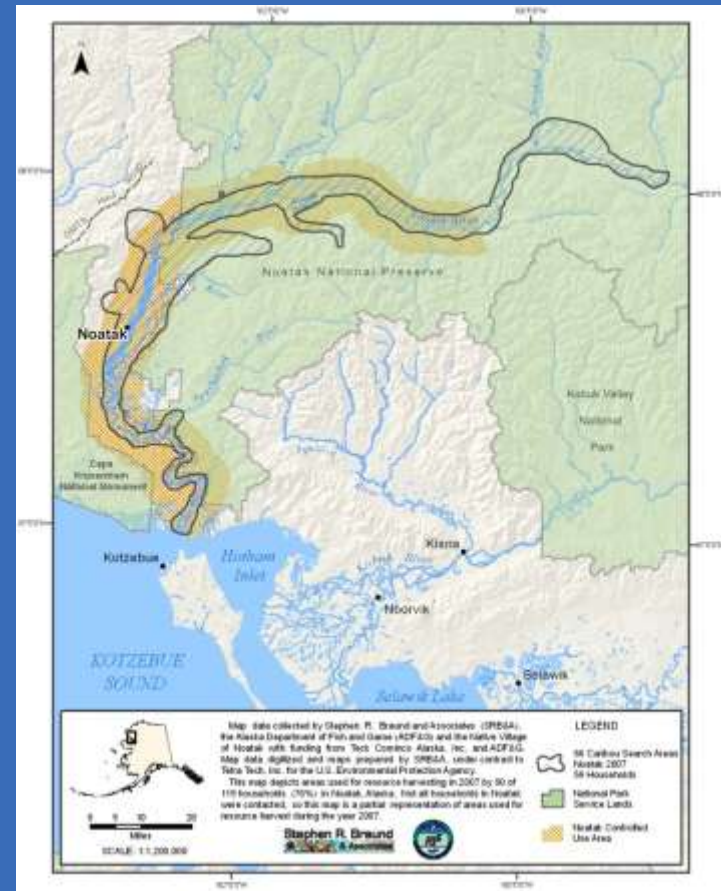
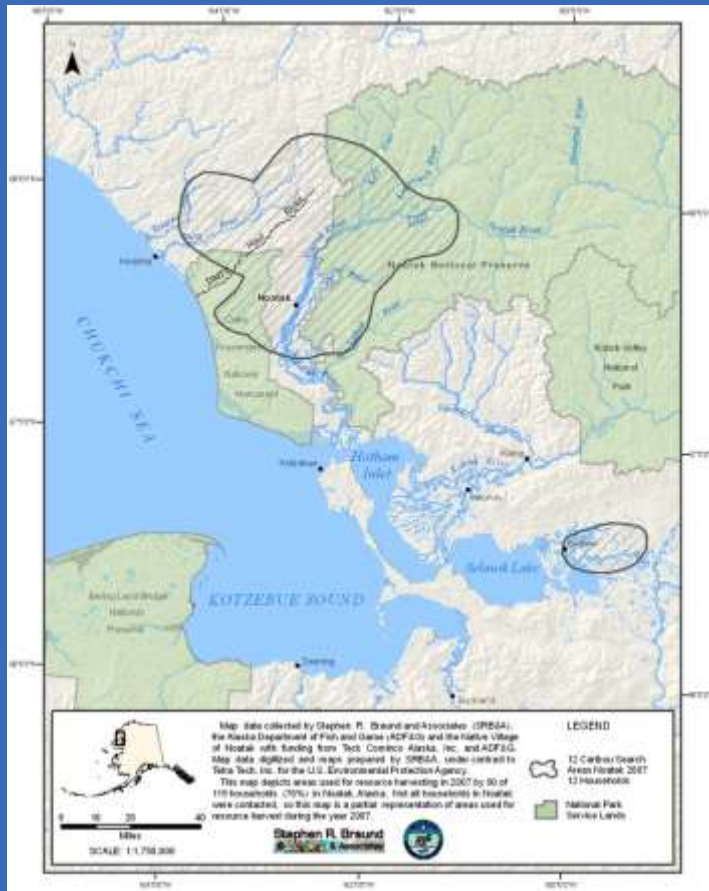
COMMUNITY ID: SELAWIK (363)
 HOUSEHOLD ID: _____
 RESEARCHER: _____
 DATE: _____
 MAP: _____ of _____



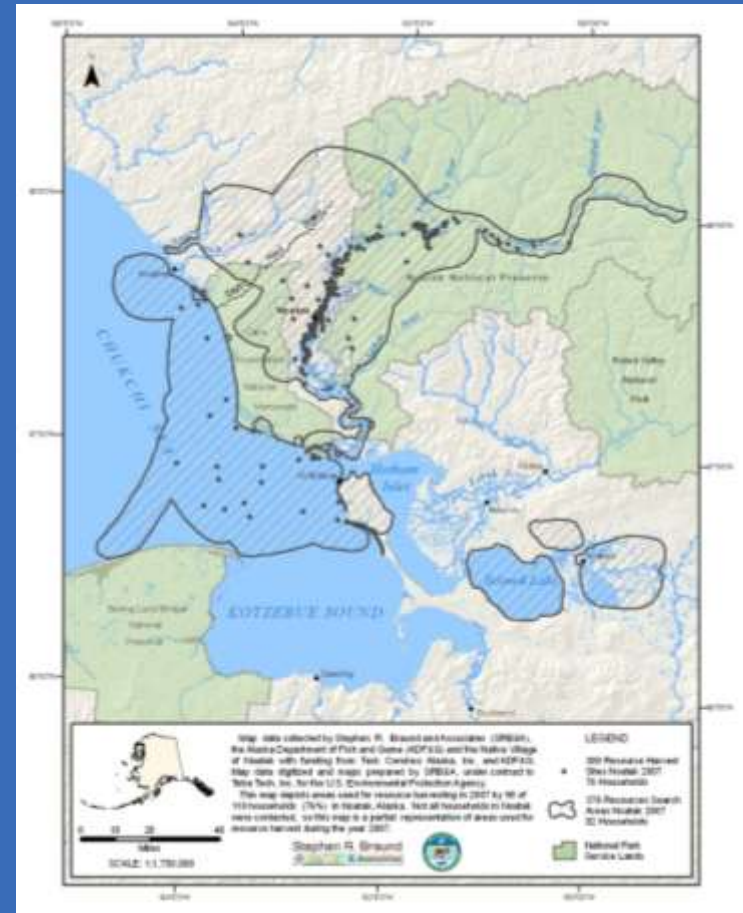
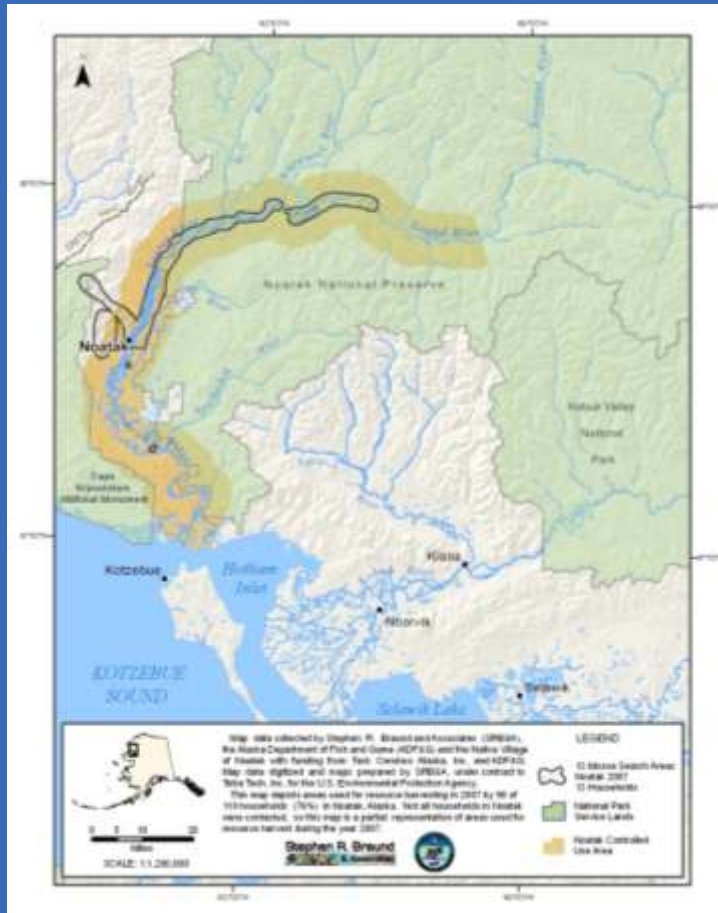
Step 5: Combine Maps, Review

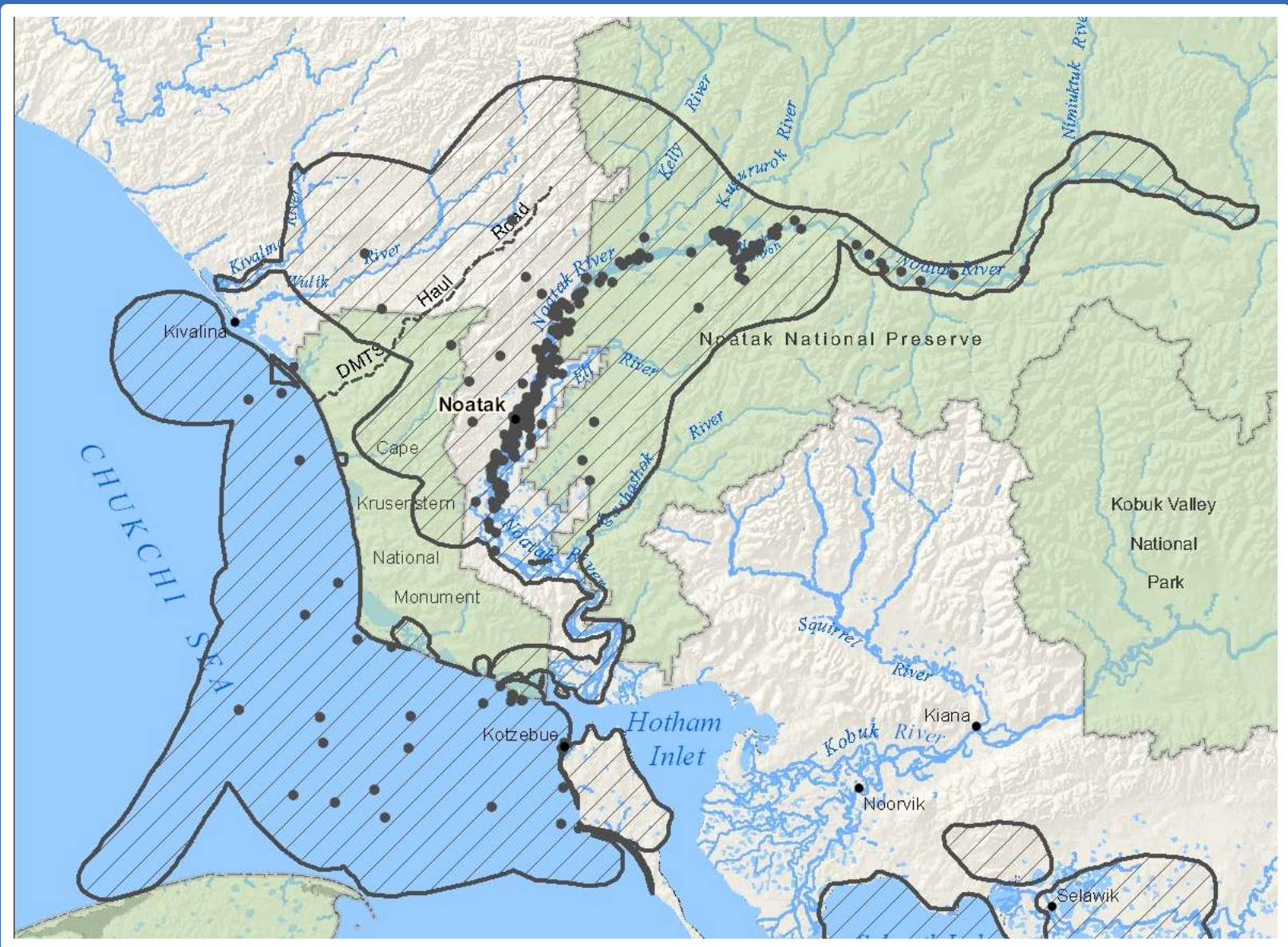


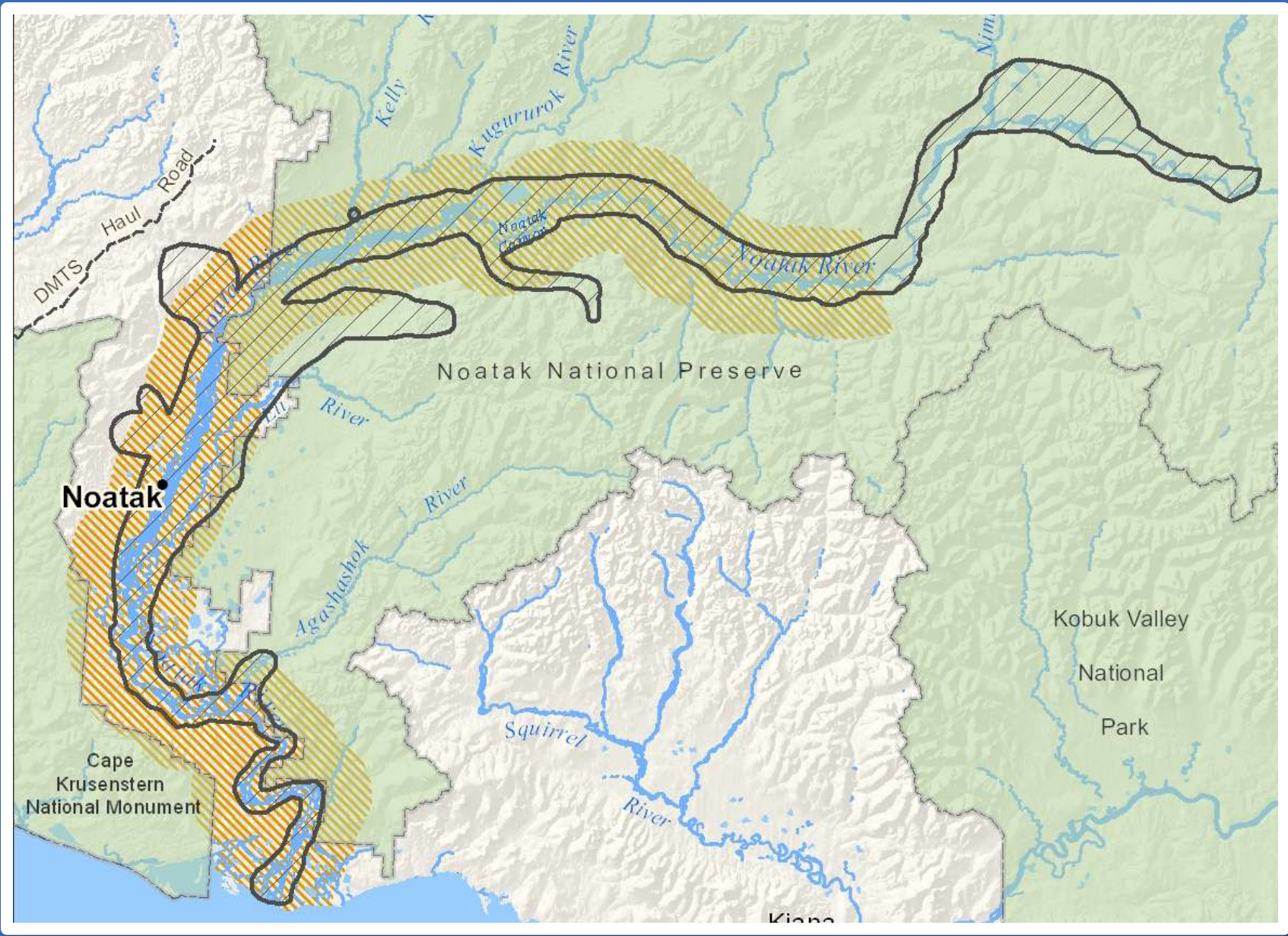
Step 6: Publish Maps



Step 6: Publish Maps







Why Do We Map?

- Document Uses of an Area
- Document Changes in Uses Over Time
- Identify Ecologically Important Areas
- Identify Areas of Conflict
- Defend Area from Competition
- Protect Area from Disruptions



Questions?

Jim Magdanz

800-478-3420 extension 13

442-1713

**DIVISION OF
SUBSISTENCE**



ALASKA DEPT. OF FISH & GAME