

BOEM Information Need:

- Update baseline time-series subsistence data.
- Systematic mapping of last decade of subsistence harvest of terrestrial and marine species in Chukchi region.
- Systematic mapping of last 12 months of subsistence harvest of terrestrial and marine species.
- Will complement and serve as companion volume to OCS Study 2009-003 (*Subsistence Mapping of Nuiqsut, Kaktovik, and Barrow*).
- Needed for NEPA analyses and documentation and to guide development decisions and assess community impacts.

Date Information is Required: Yesterday -2016



Background:

A) Relationship with Previous Work/Efforts

- This mapping project will complement existing Subsistence Mapping effort of Central to Eastern Arctic Coast.
- It will likely incorporate COMIDA marine mammal hunting subsistence data being collected by SRB&A at Wainwright and Point Lay.
- NSWDC offered subsistence data collected over the years from Pt. Lay as part of the decadal recording effort.



Background:

B) Relationship with Concurrent/Future Efforts

- If oil & gas exploration leads to development, the focus on potential effects to stakeholders will be sharpened.
- Future efforts might include sharing network studies (Point Lay and Point Hope)
- Subsistence marine mammal hunting (Point Hope)
- Terrestrial hunting to subsequently analyze effects of infrastructure under development scenarios (Wainwright)



Study's Objectives:

- Develop a GIS displaying intensity and duration focusing on key harvest species to describe subsistence use patterns in study communities.
- Illustrate the ability of GIS to measure changes in subsistence patterns over time, duration, and intensity using available historic subsistence data when possible.
- Describe current subsistence patterns for Wainwright, Point Lay and Point Hope.
- Provide analytical baseline to assist in avoidance, mitigation, and monitoring to minimize effects



Methods:

- Engage subsistence harvesters about where they hunted and what they harvested.
- Delineate use over the past decade and the last 12 months on map overlays.
- Record discussion and topics of interest to provide supporting data/report narrative (TK, timing, costs, longevity of use and the like).
- Determine the duration and intensity of use per species harvested on decadal and annual basis.



Additional *Pertinent* Information

This study would require providing intensity and duration of use shape files for future planning and policy efforts.

It would also require providing intensity and duration of use shape files for the companion volume as the deliverable merely called for submission of GIS shape files of use area.

