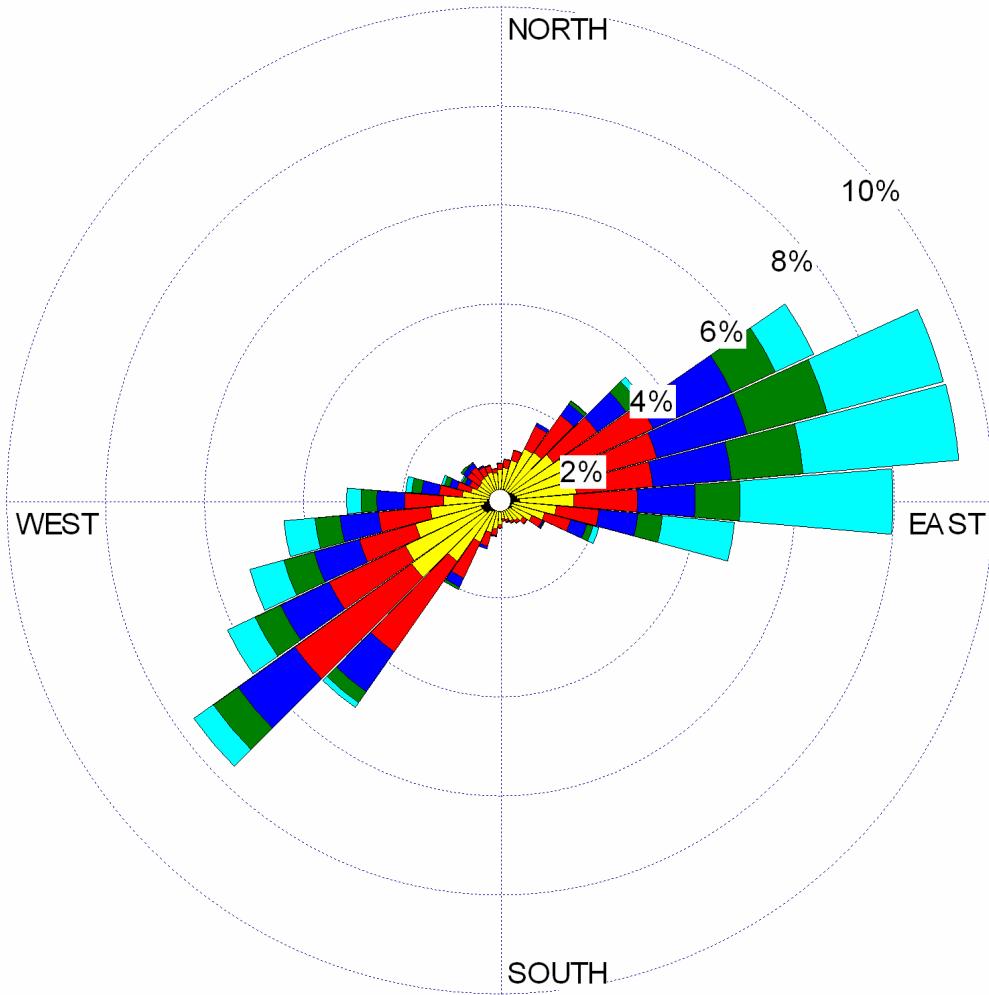


Chapter 3 – Affected Environment

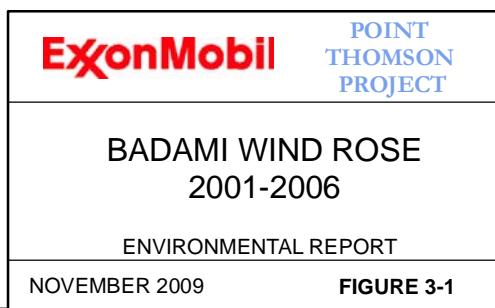
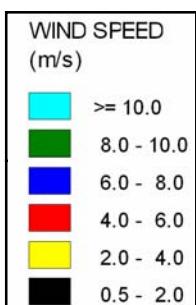
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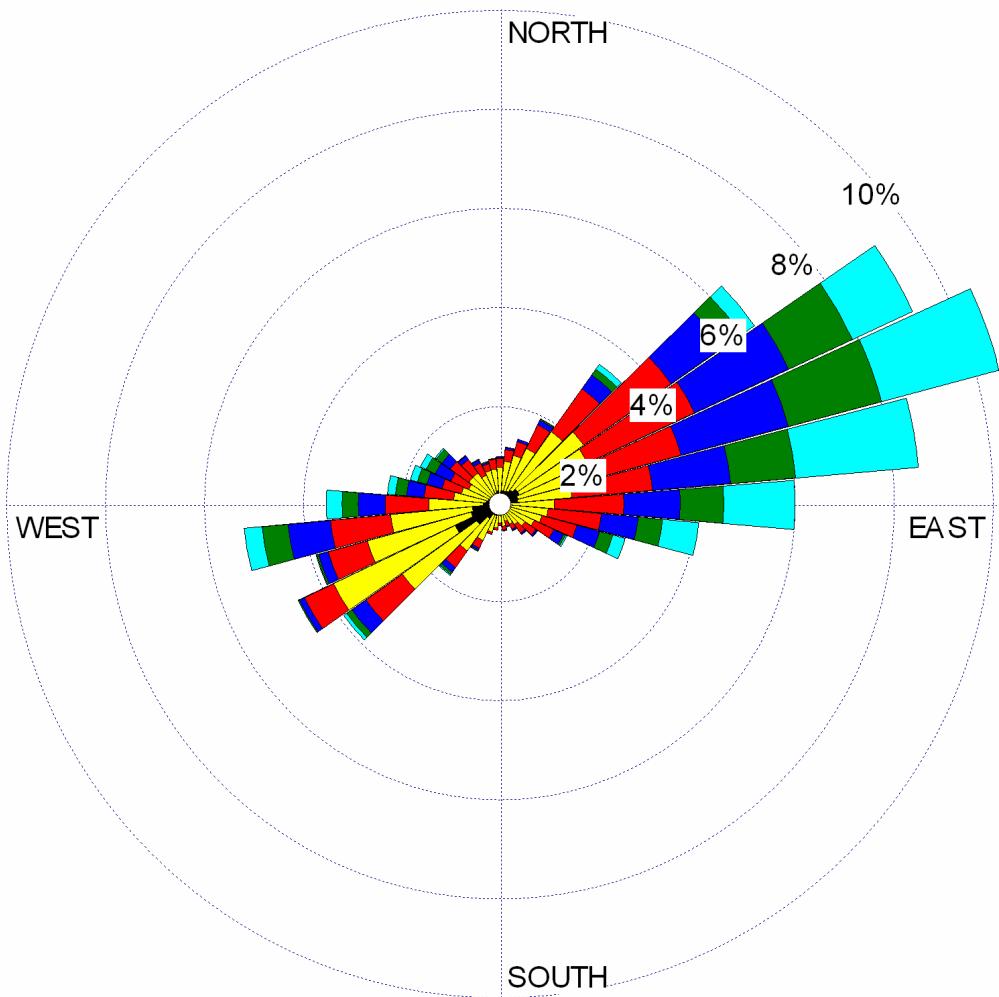
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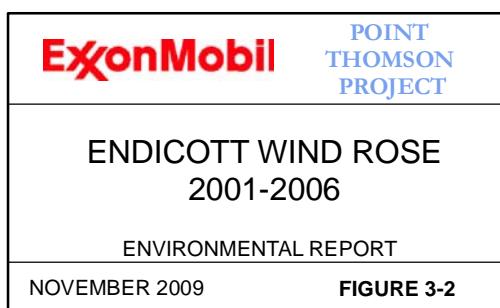
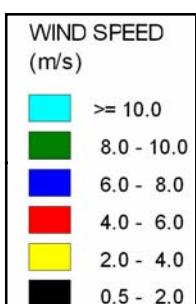


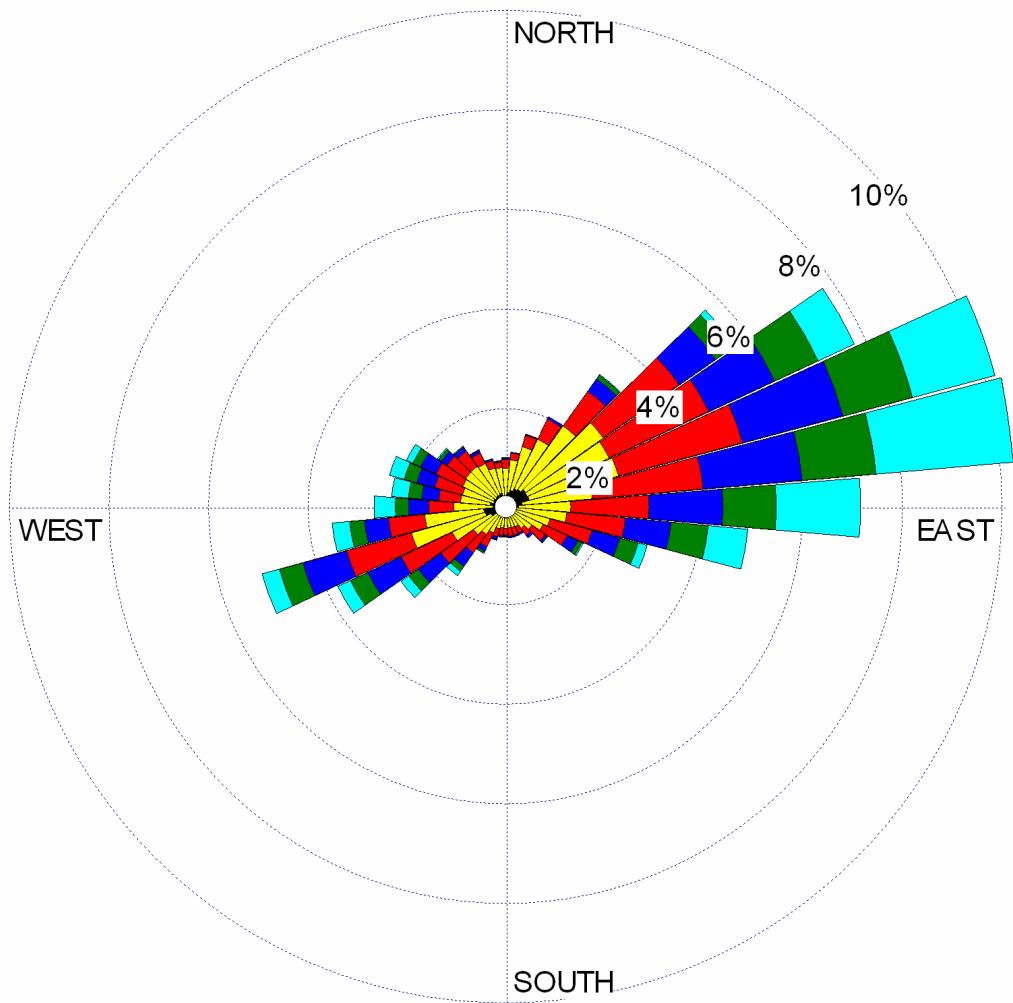
Source: HCG, Inc. 2007. Study Final Report for the Nearshore Beaufort Sea Meteorological Monitoring and Data Synthesis Project. Prepared for the U.S. Department of the Interior, Minerals Management Service, Alaska PCS Region. Contract No. 1435-01-05-CT-39037. January 2007.



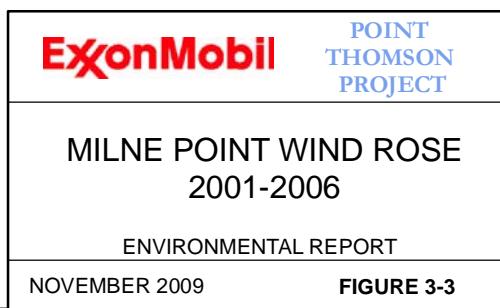
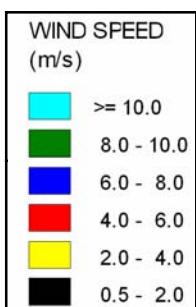


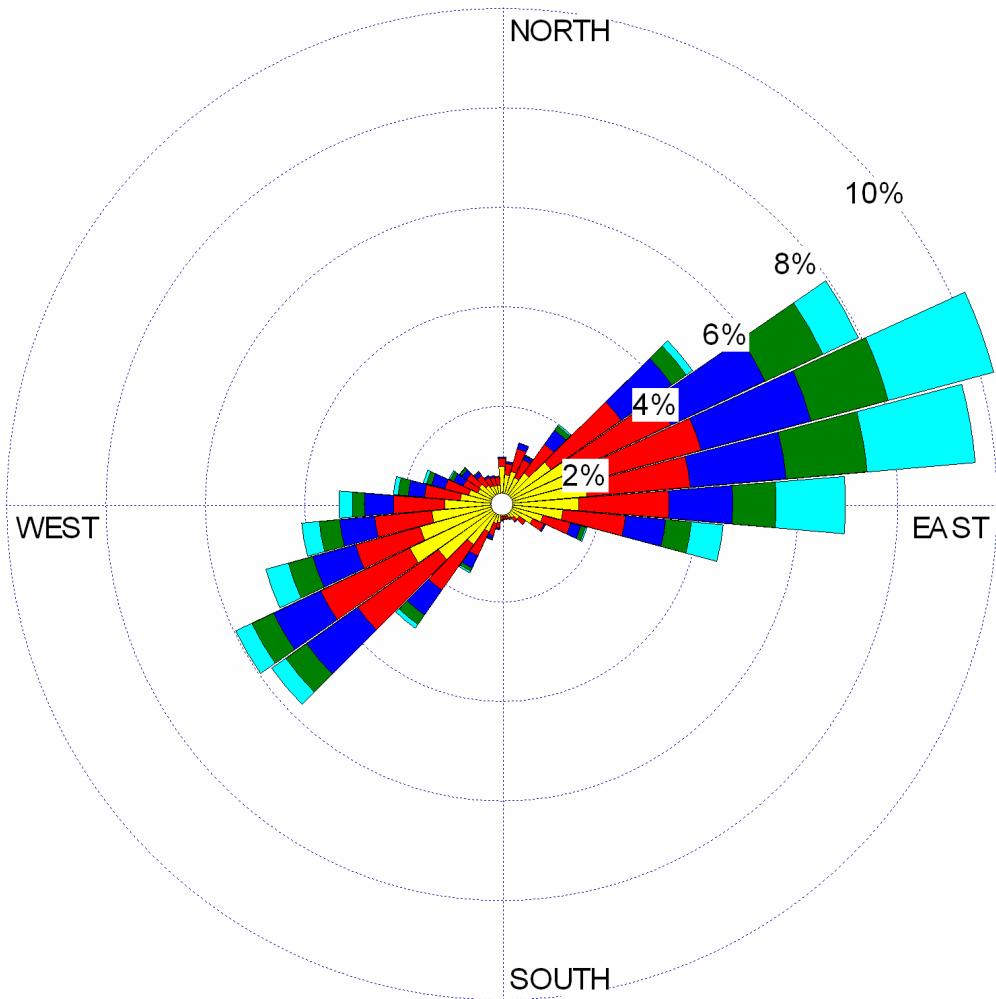
Source: HCG, Inc. 2007. Study Final Report for the Nearshore Beaufort Sea Meteorological Monitoring and Data Synthesis Project. Prepared for the U.S. Department of the Interior, Minerals Management Service, Alaska PCS Region. Contract No. 1435-01-05-CT-39037. January 2007.



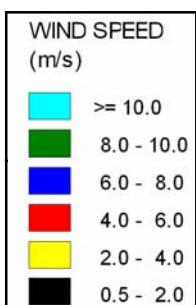


Source: HCG, Inc. 2007. Study Final Report for the Nearshore Beaufort Sea Meteorological Monitoring and Data Synthesis Project. Prepared for the U.S. Department of the Interior, Minerals Management Service, Alaska PCS Region. Contract No. 1435-01-05-CT-39037. January 2007.





Source: National Climatic Data Center (NCDC), 2009. Climate data for the Deadhorse Airport.
<http://www.ncdc.noaa.gov/oa/ncdc.html>.



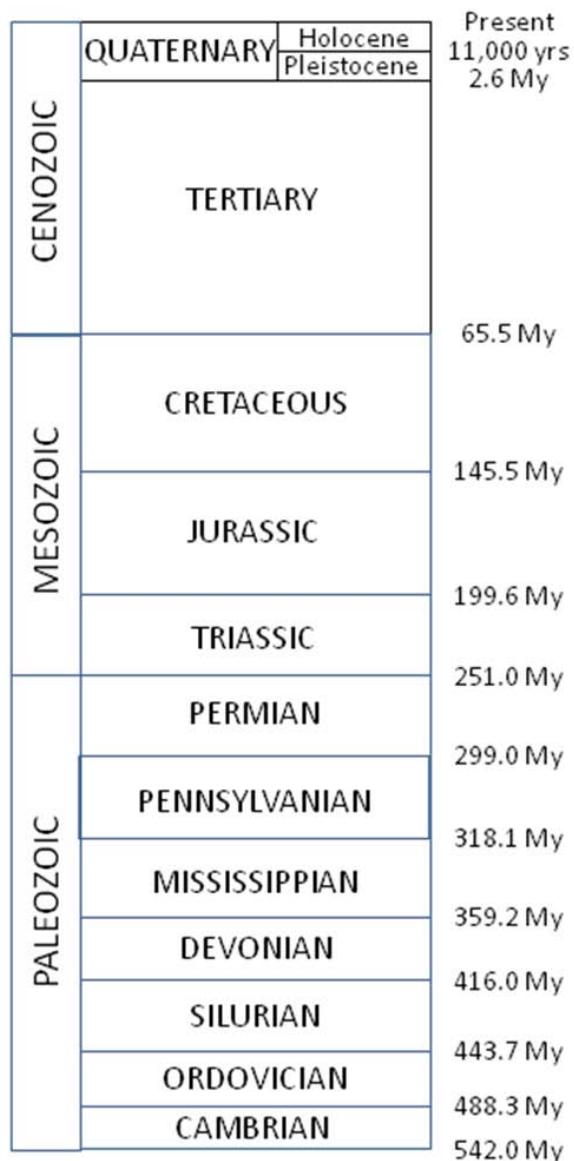
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DEADHORSE WIND ROSE
2001-2006

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FIGURE 3-4



Modified from: USGS, MArch 2007, U.S. Geological Survey
Fact Sheet 2007-3015, Divisions of Geologic Time - Major
Chronostratigraphic and Geochronological Units.

Notes: My = Million years
yrs = years

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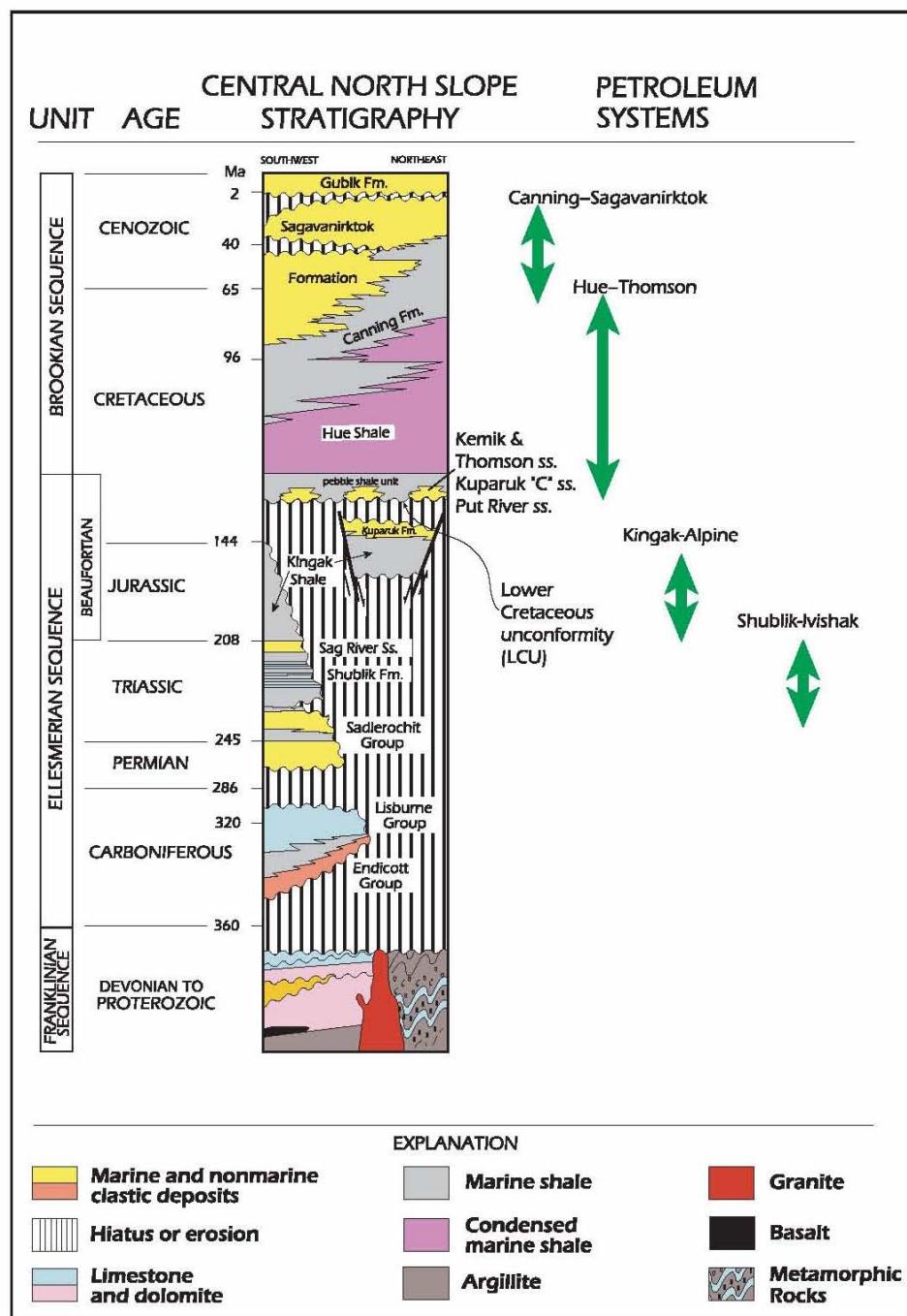
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GEOLOGIC TIME SCALE

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FIGURE 3-5



Source: Schenk, C.J., and Houseknecht, D.W., 2008

Notes: Ss or ss = sandstone
Put River = Putuliguyuk River



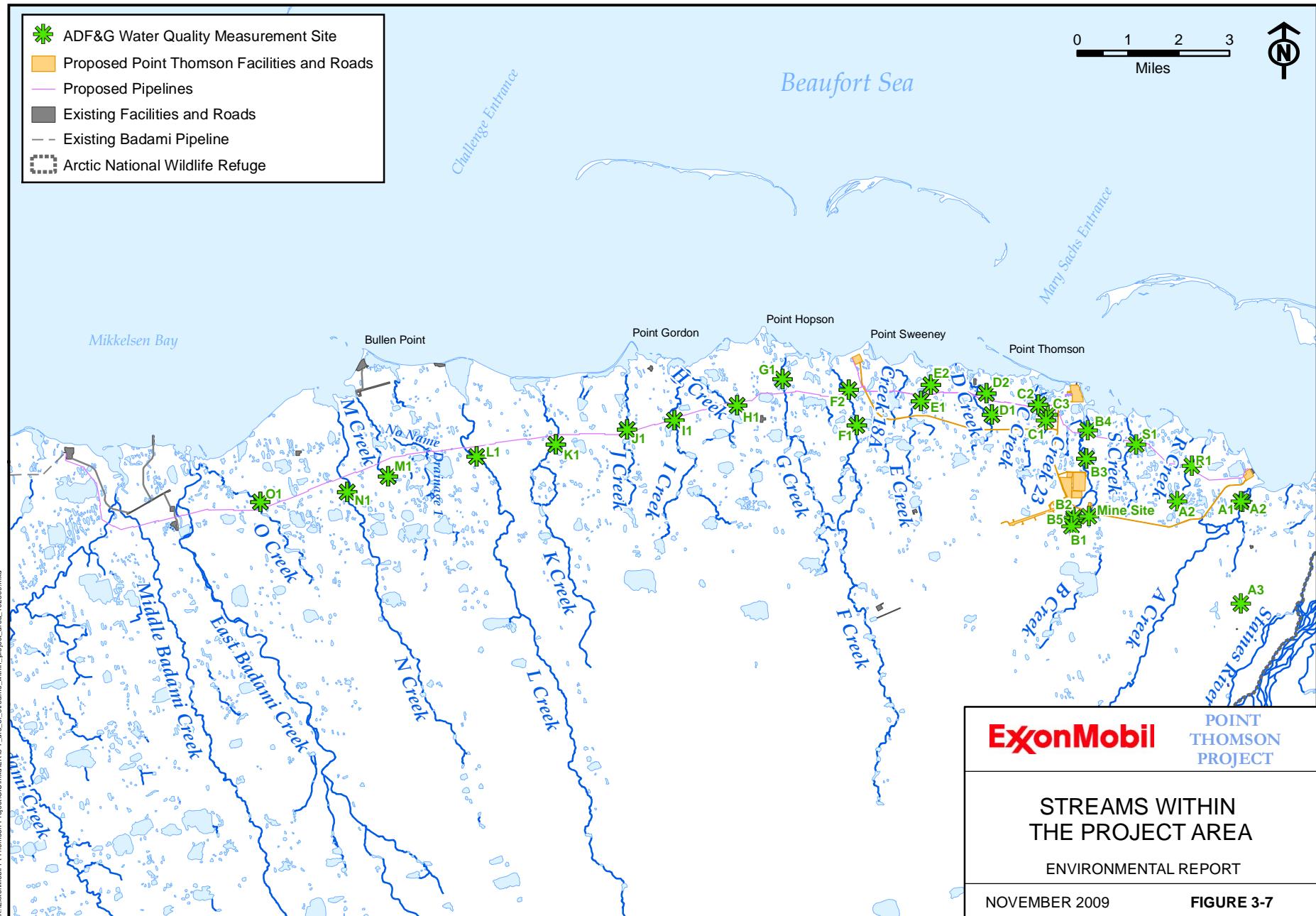
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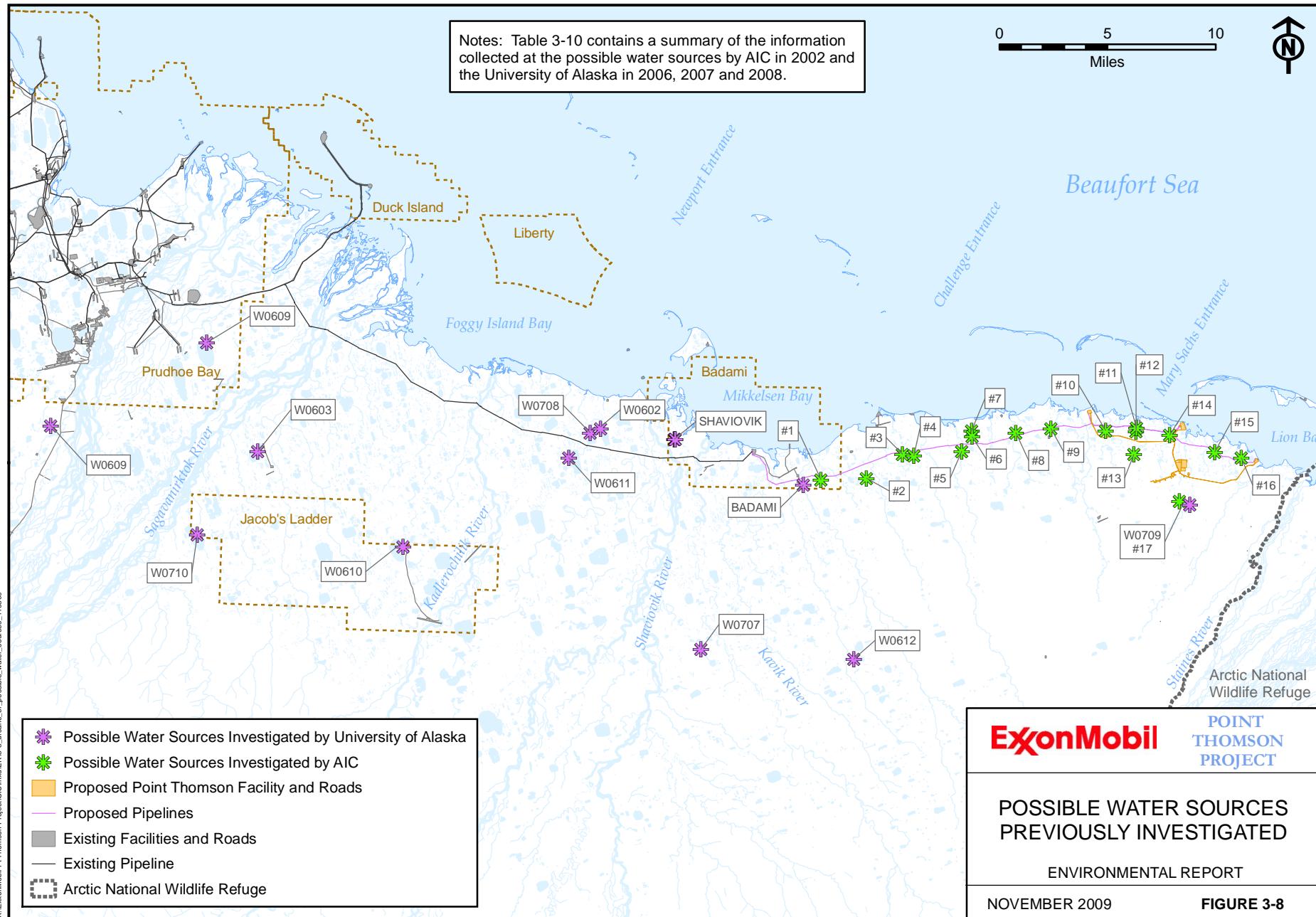
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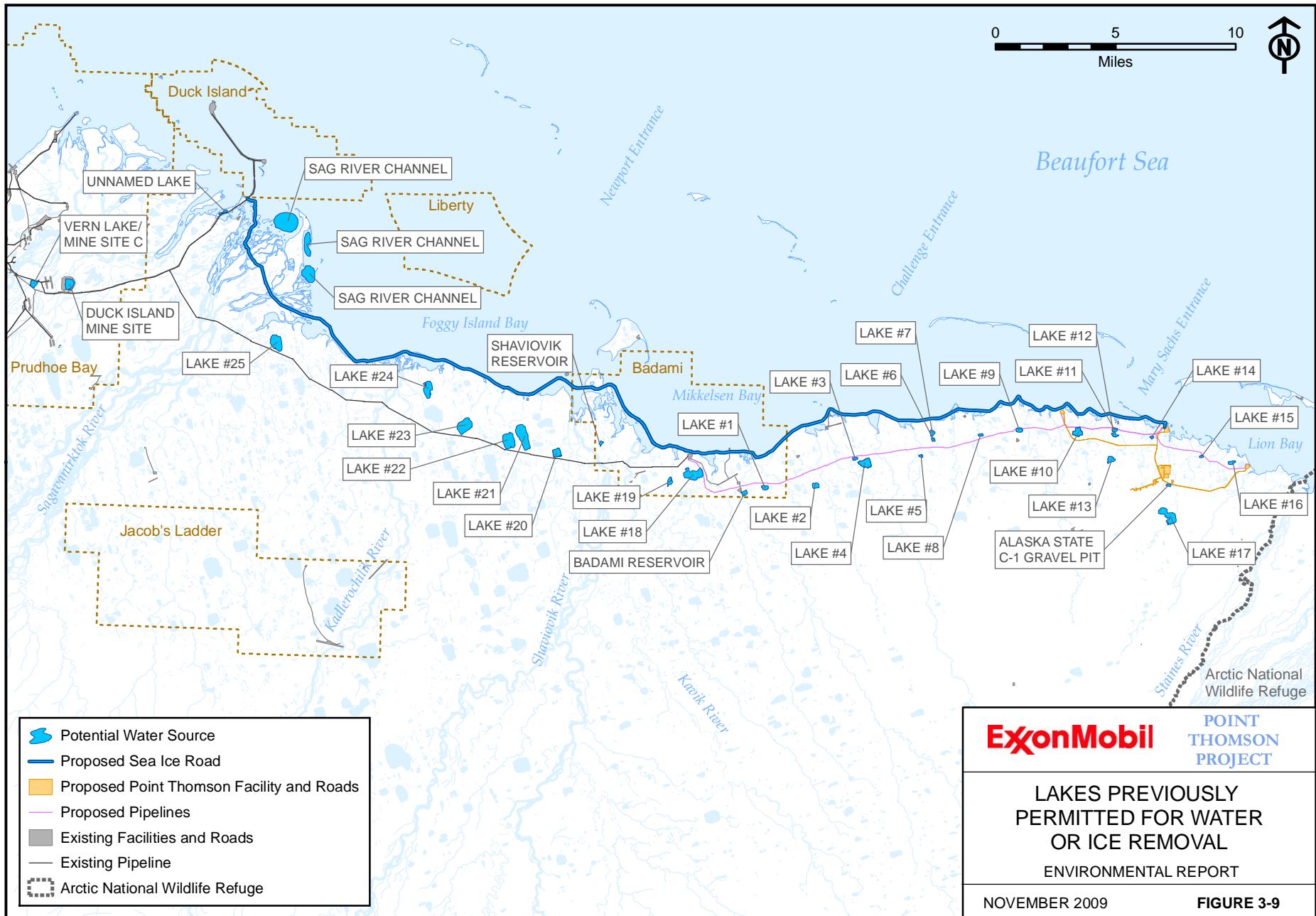
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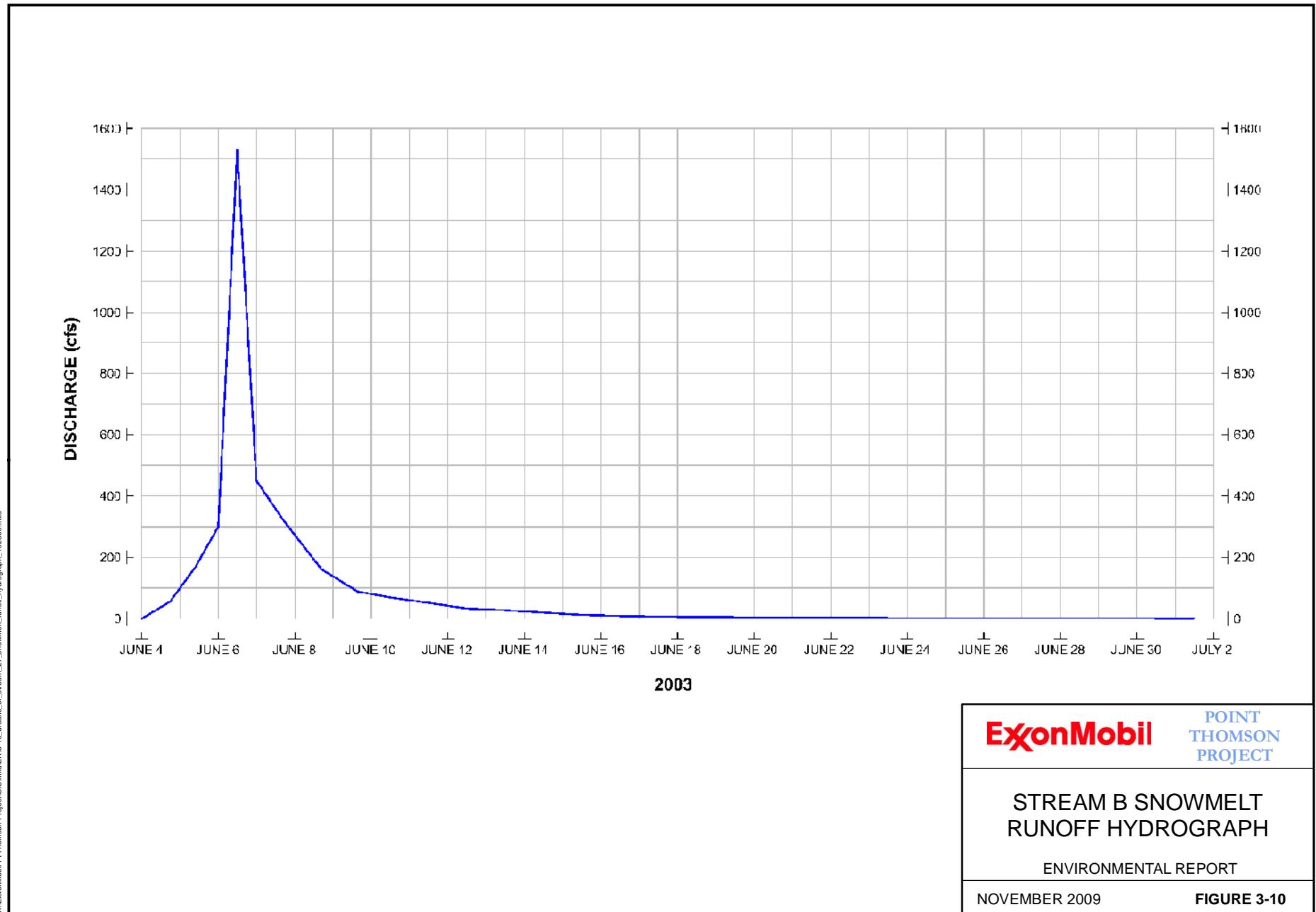
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FIGURE 3-6

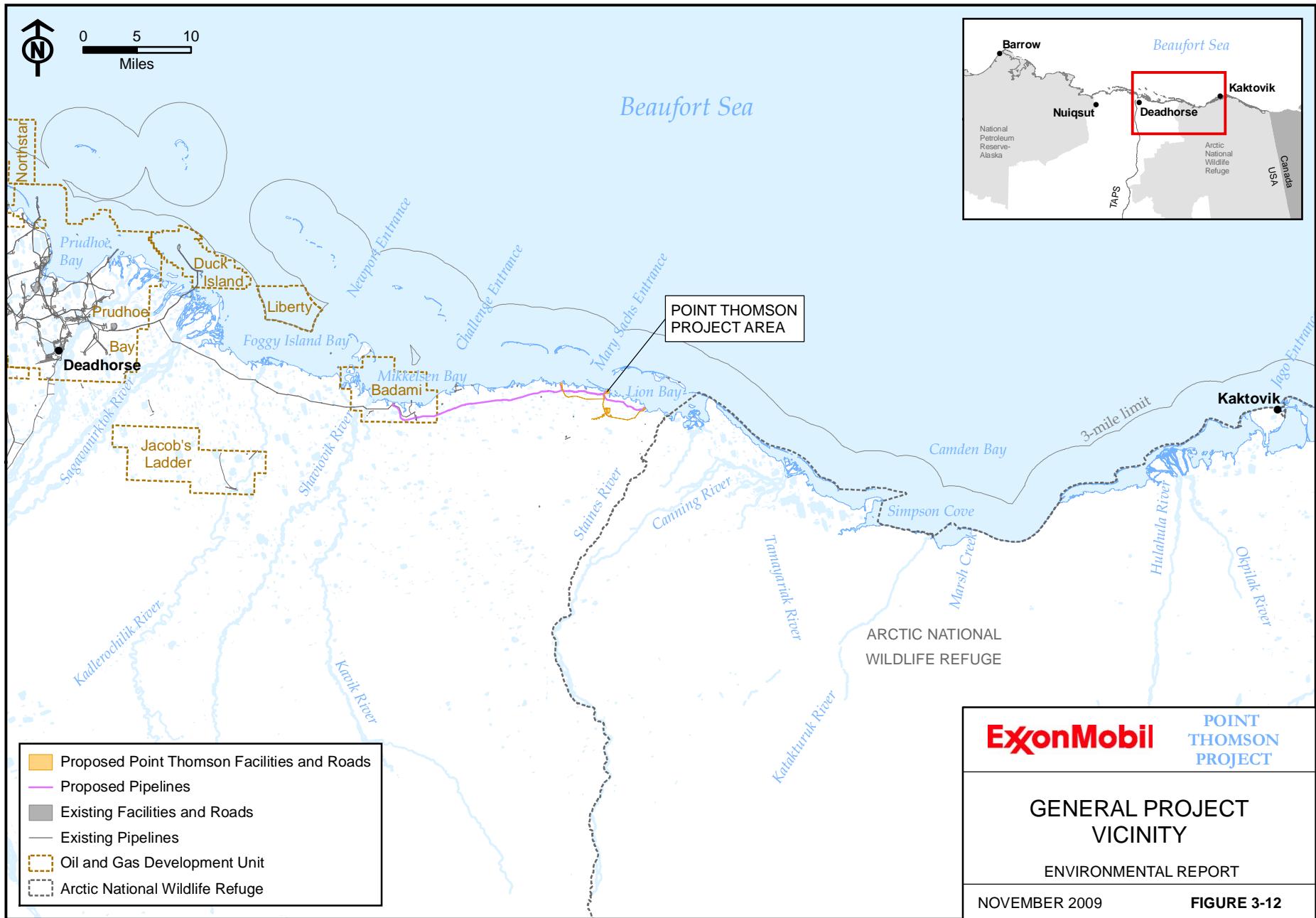


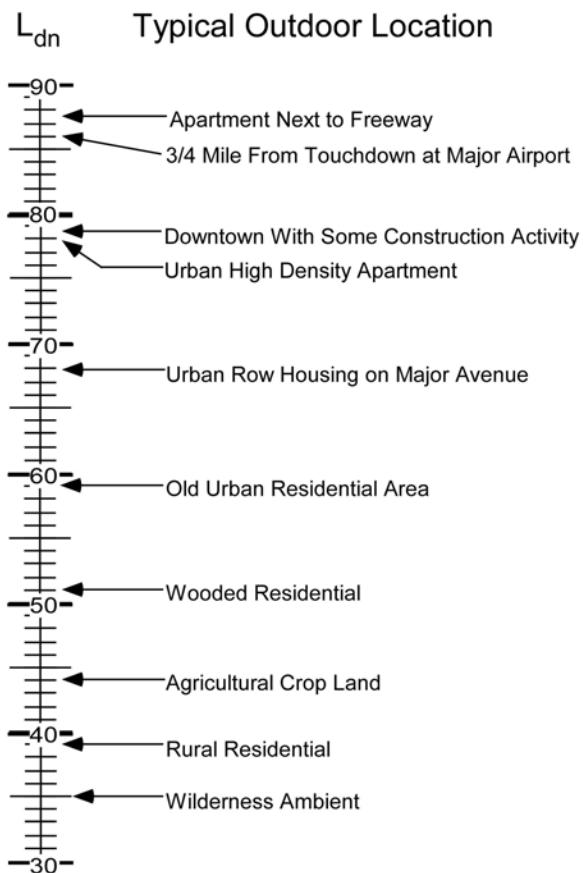




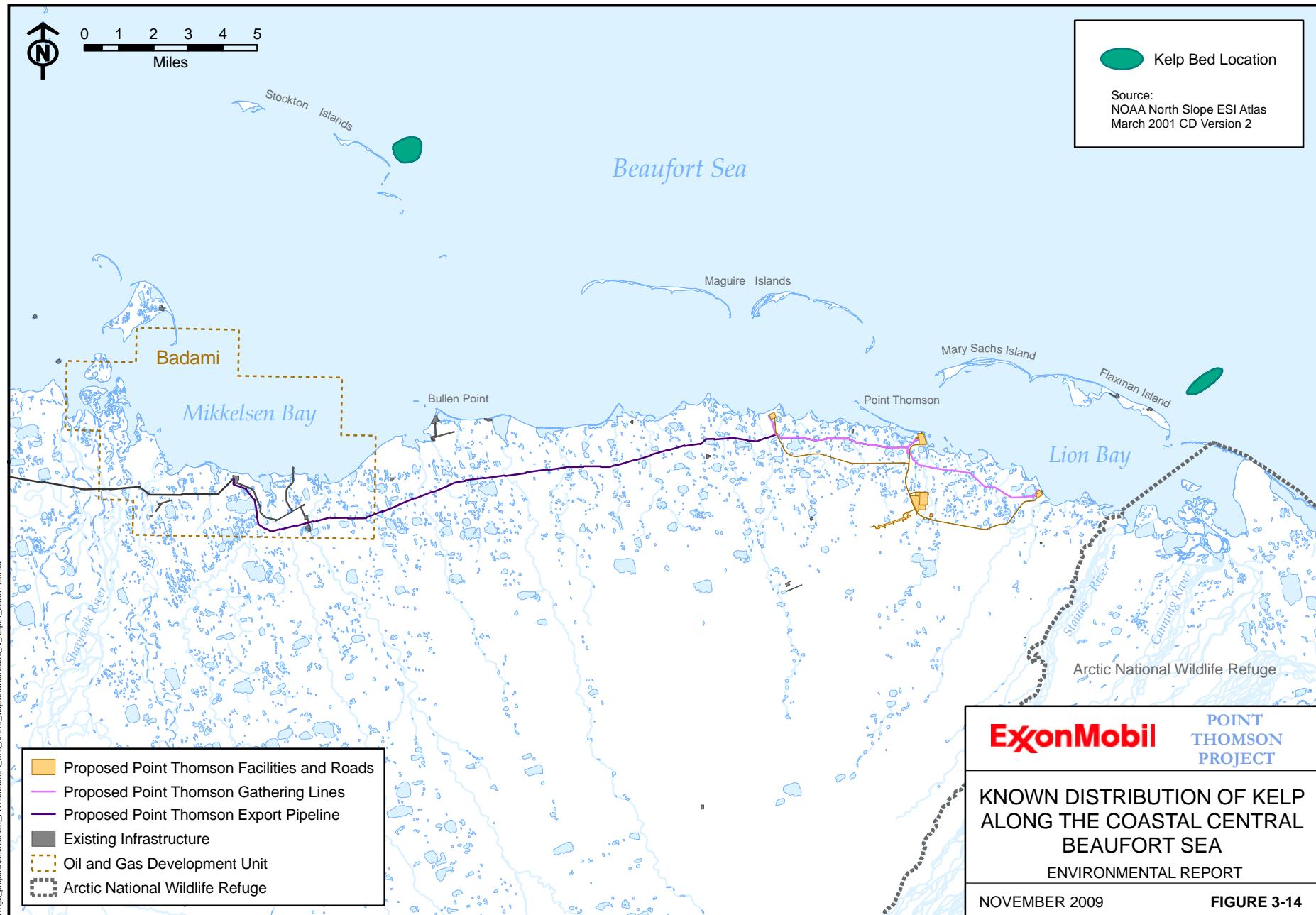


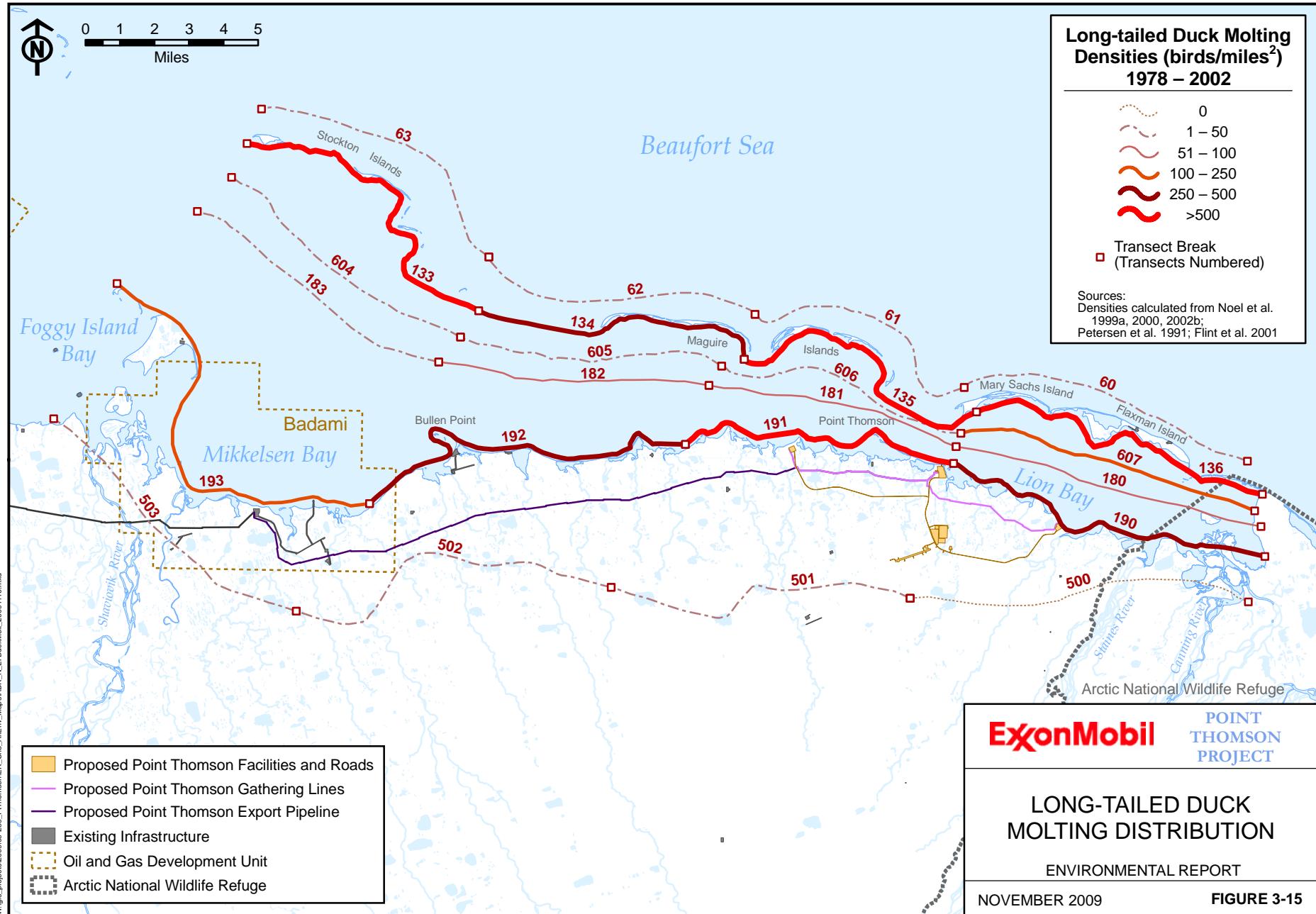


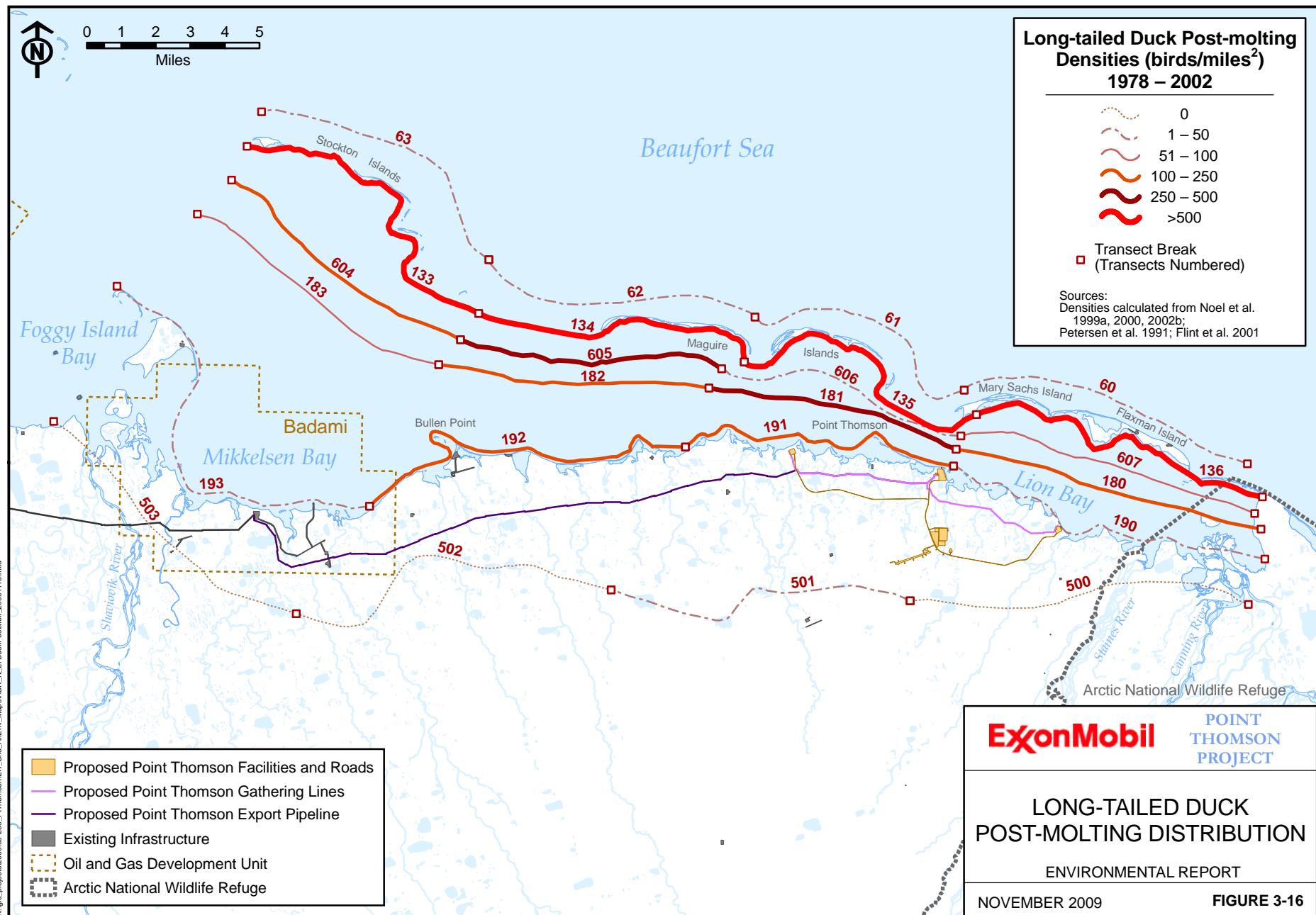


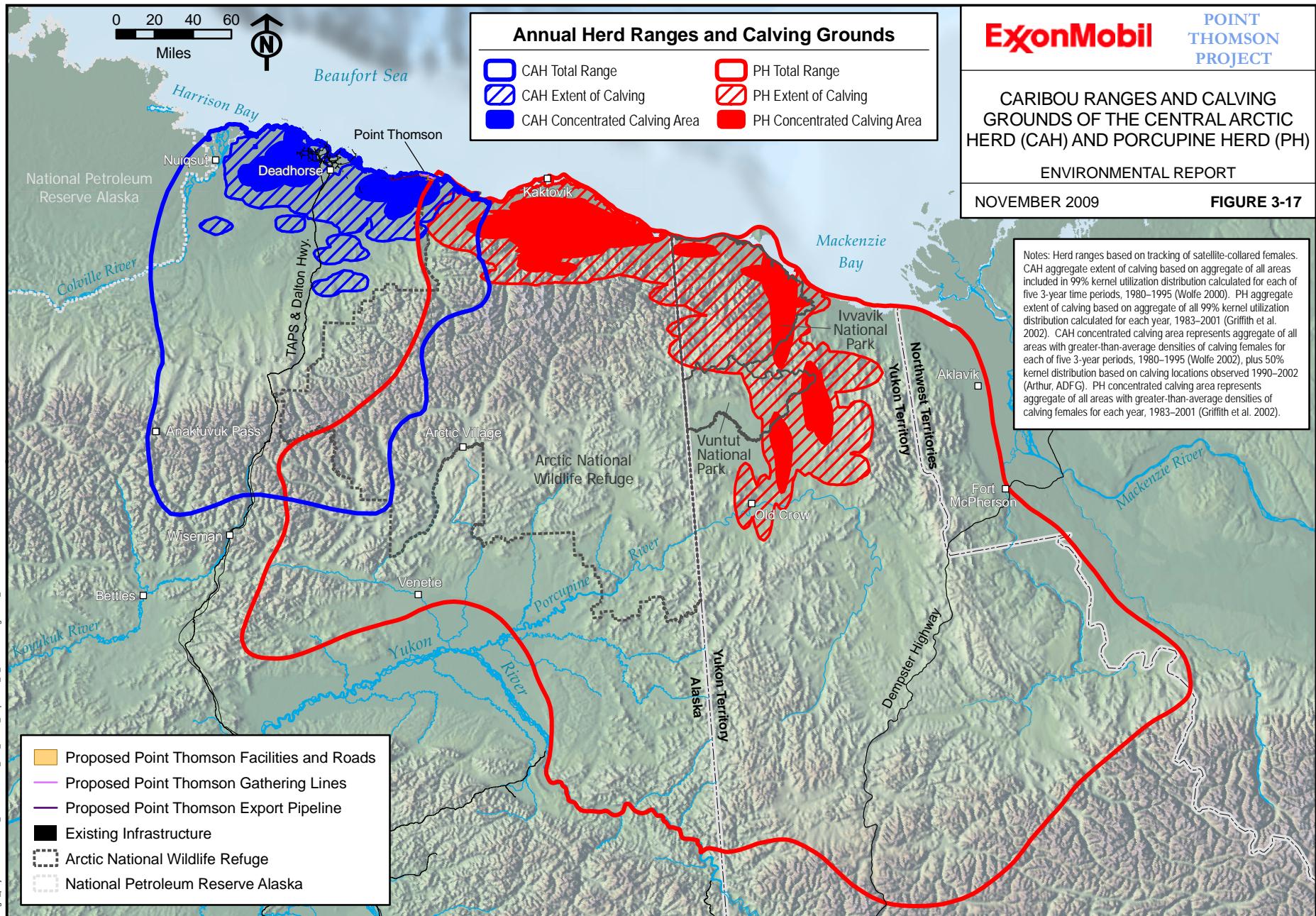


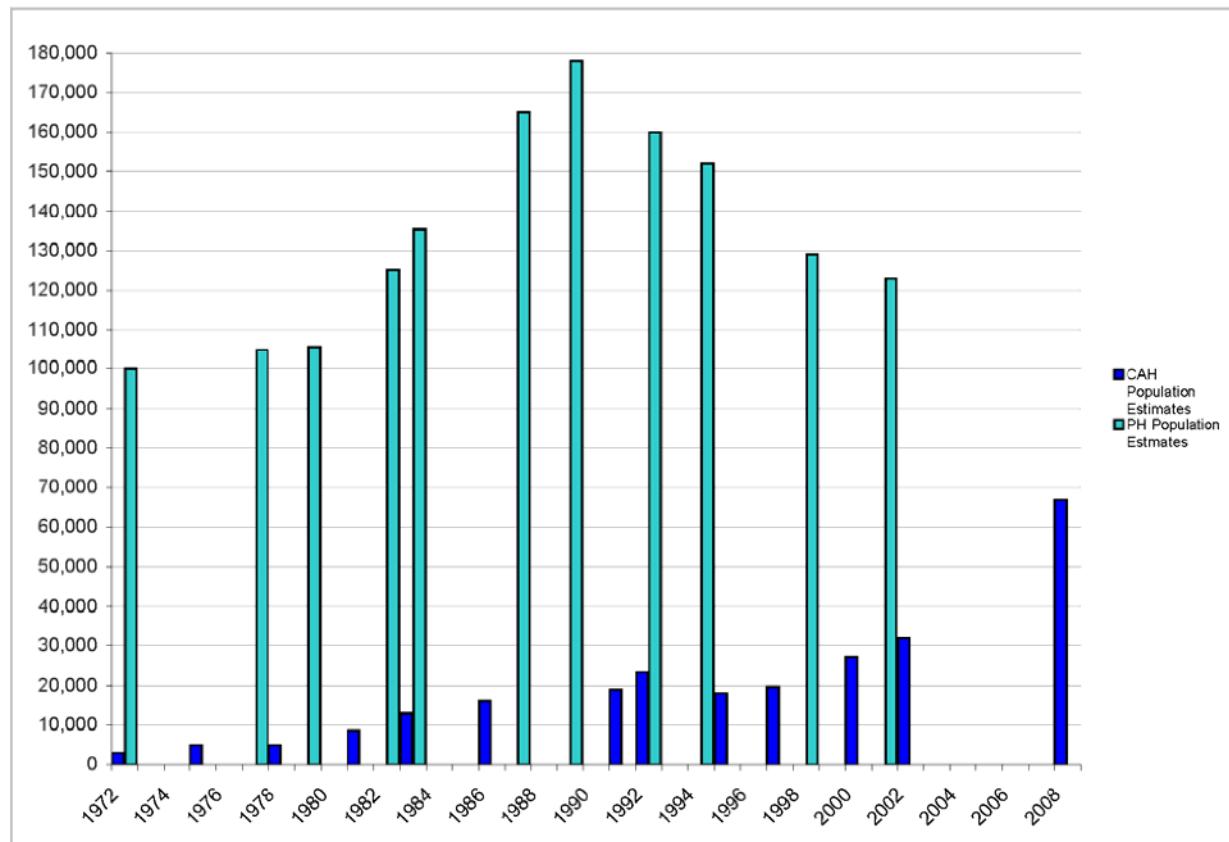
Source: Adapted from "Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare With an Adequate Margin of Safety", EPA, 1974
 Note: L_{dn} = Day-Night Noise Level(s)



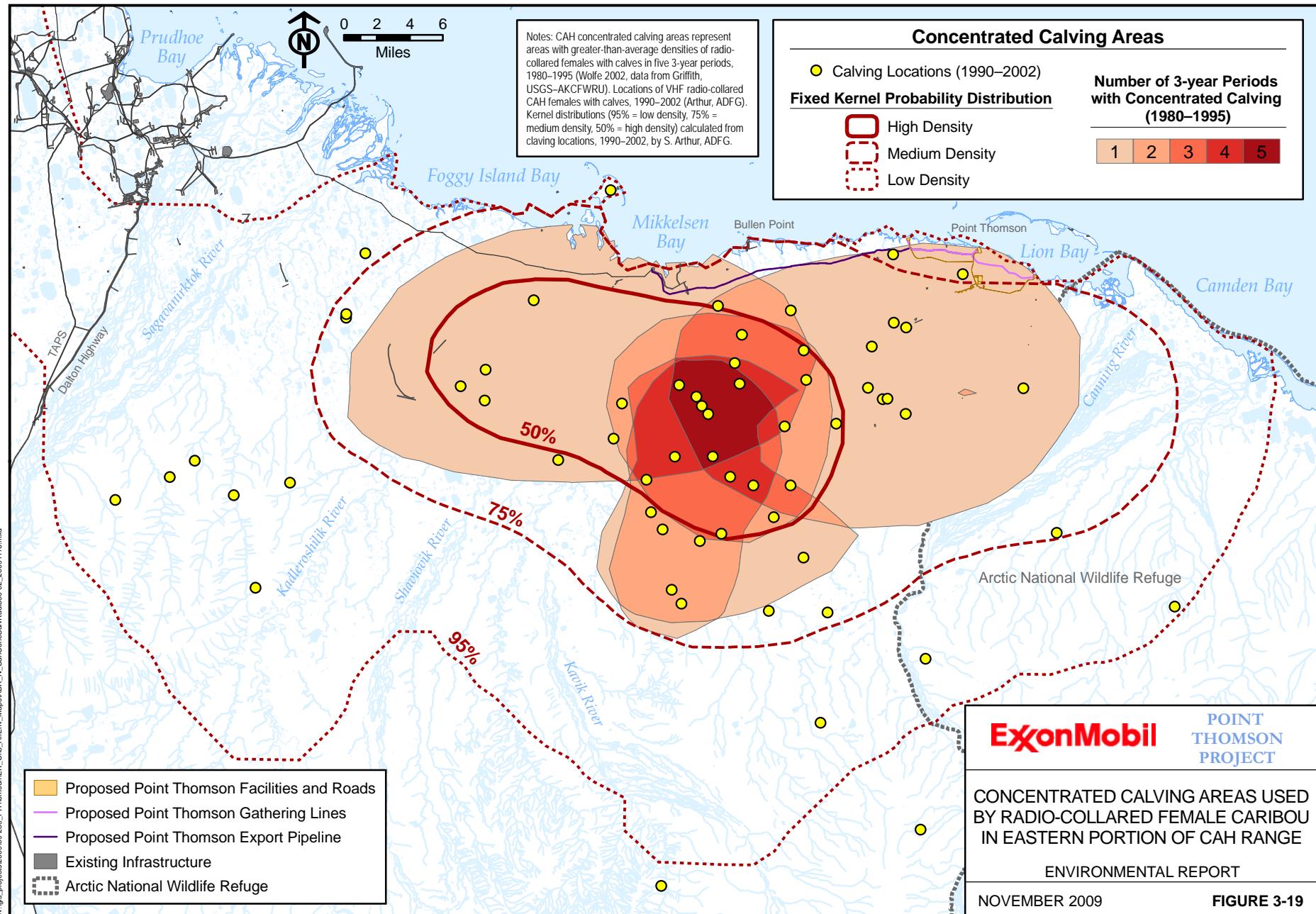


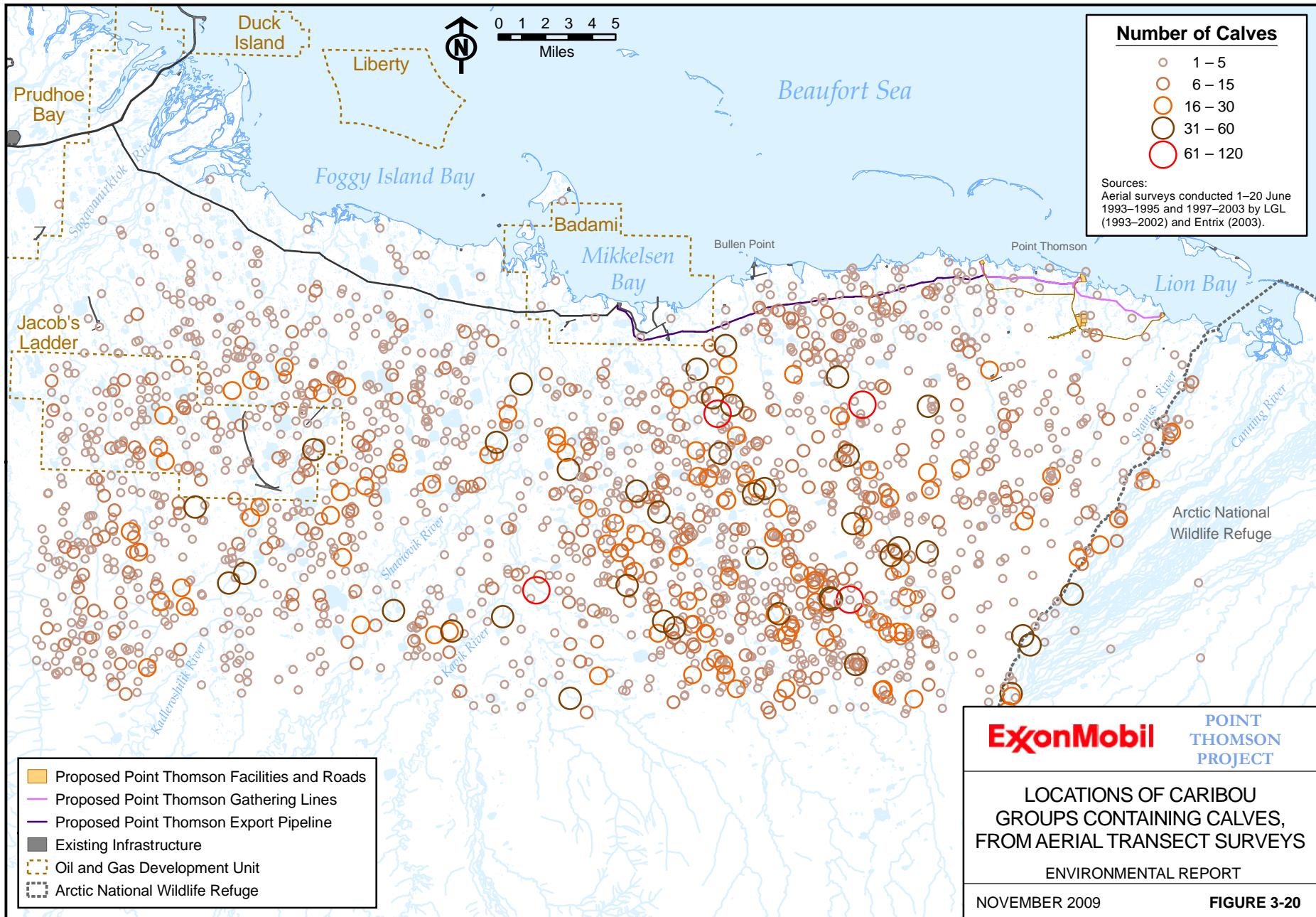


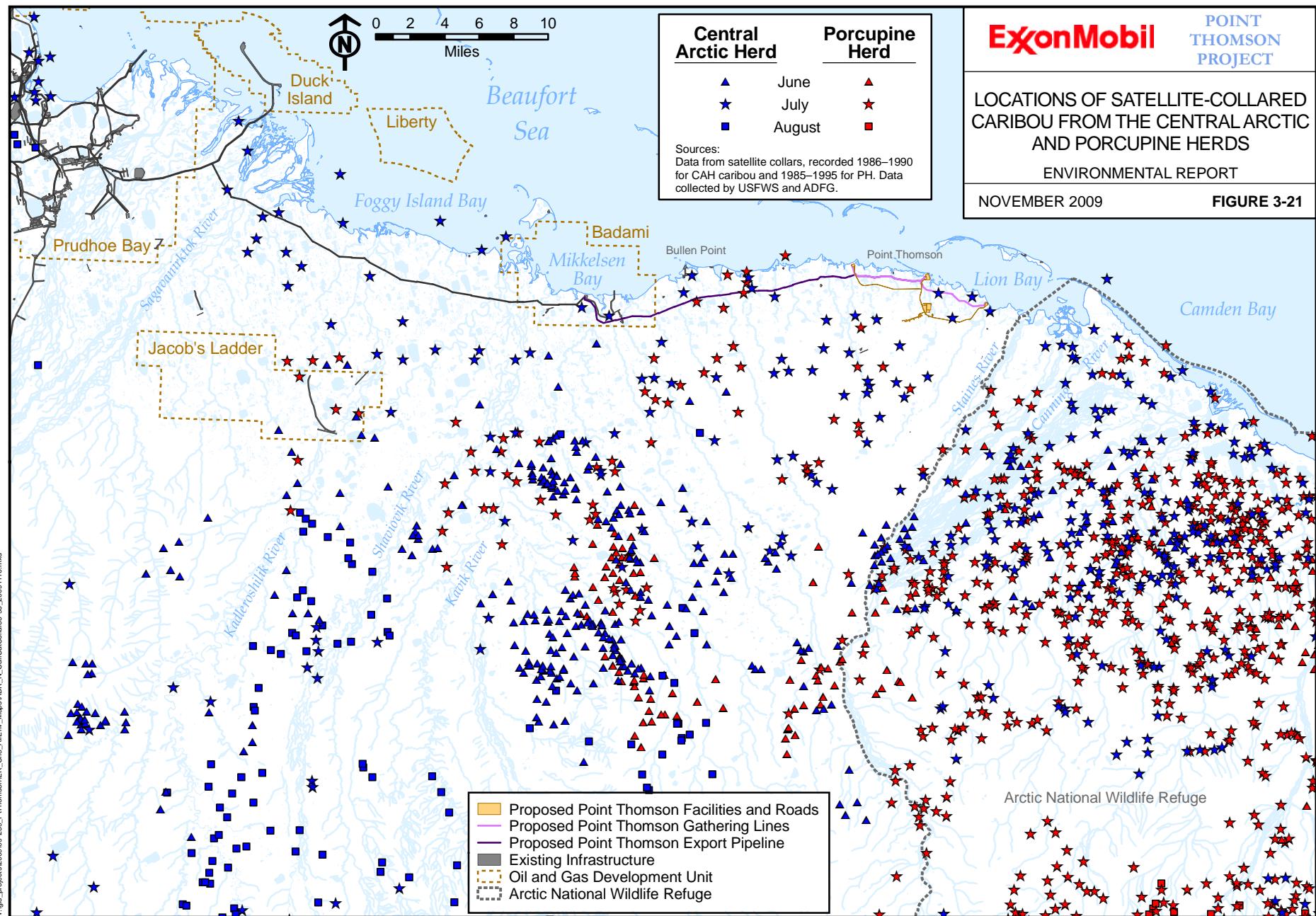


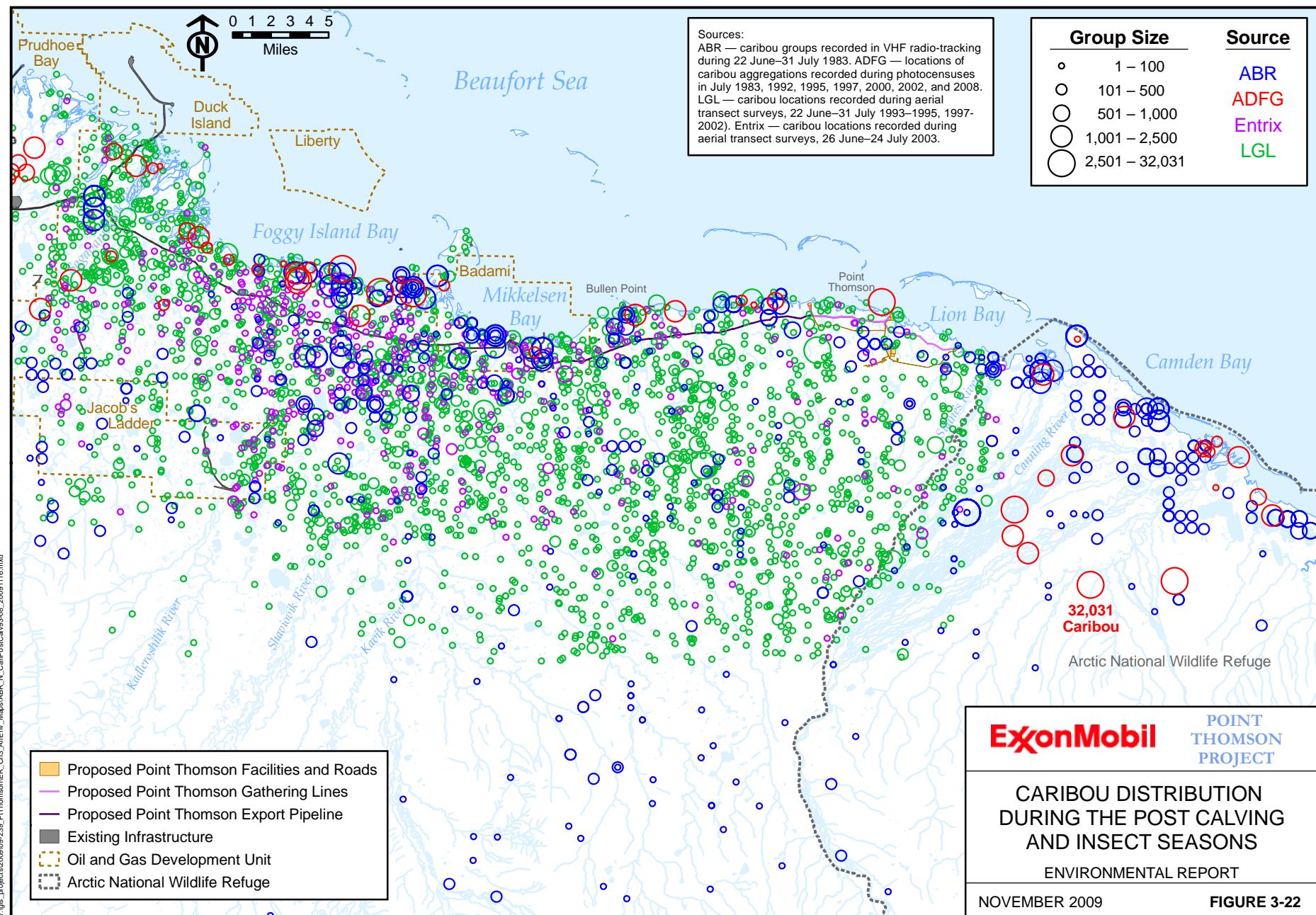


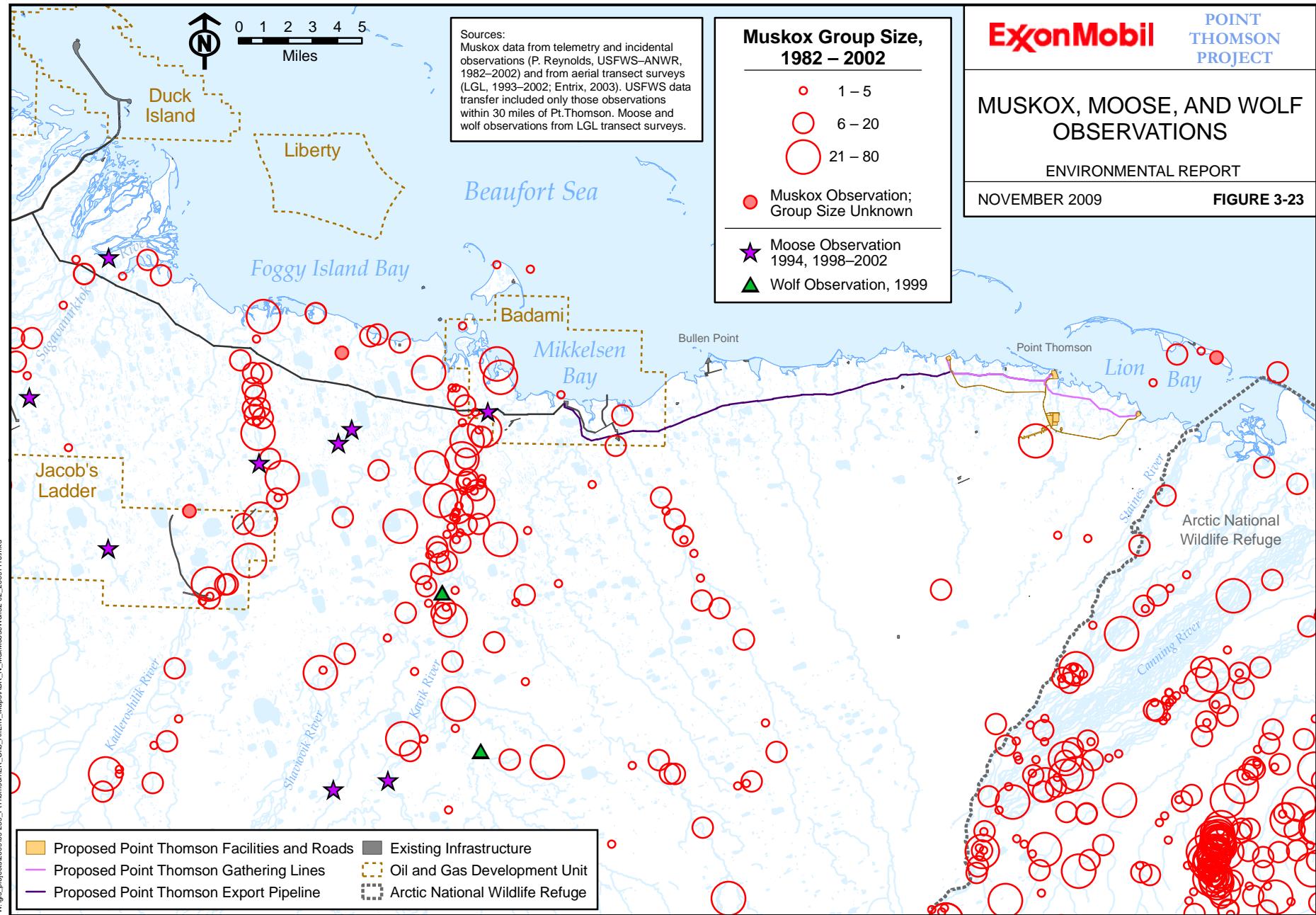
Sources: Child (1973); Cameron and Whitten (1979); and Lenart (2007, 2009a).

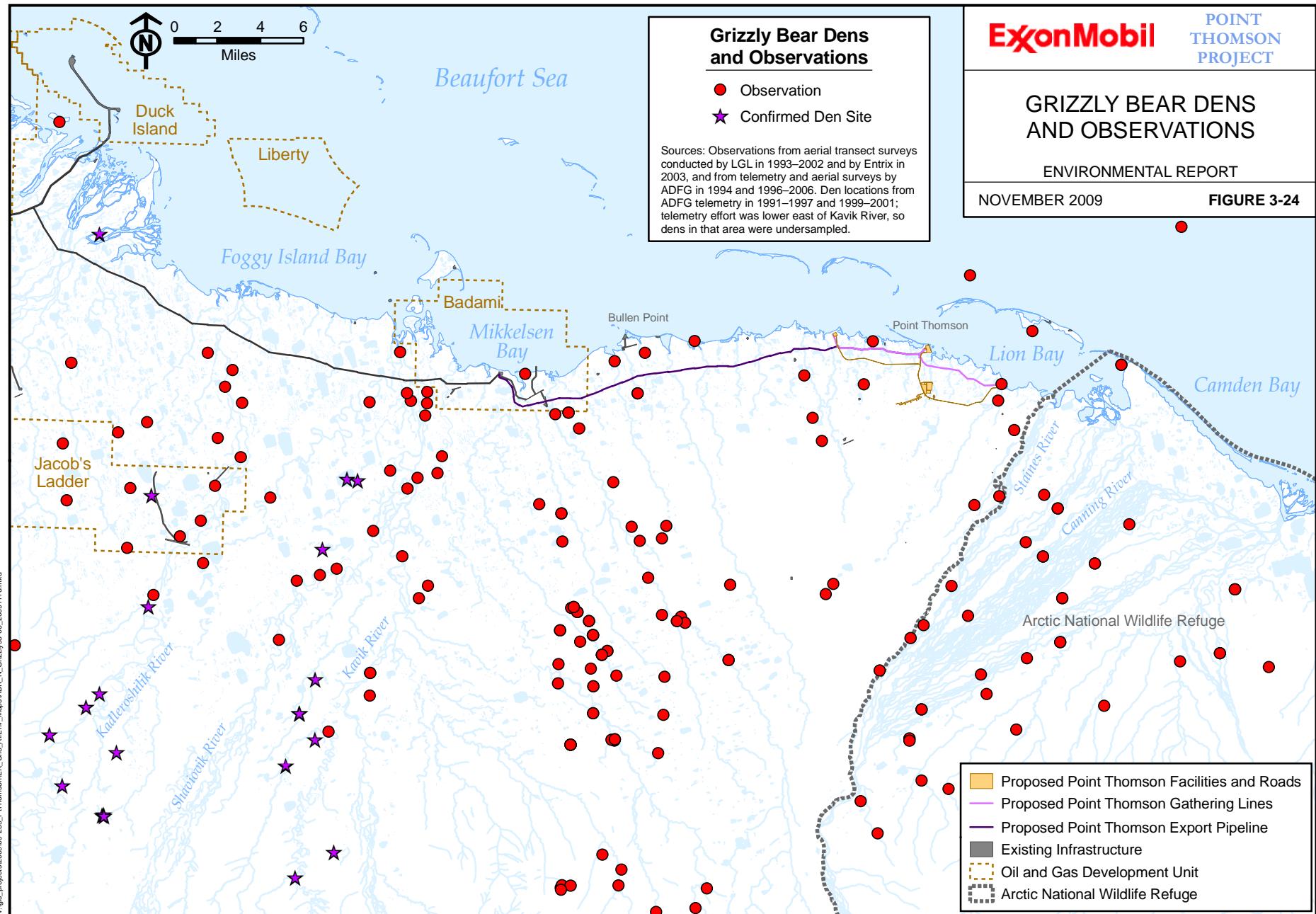


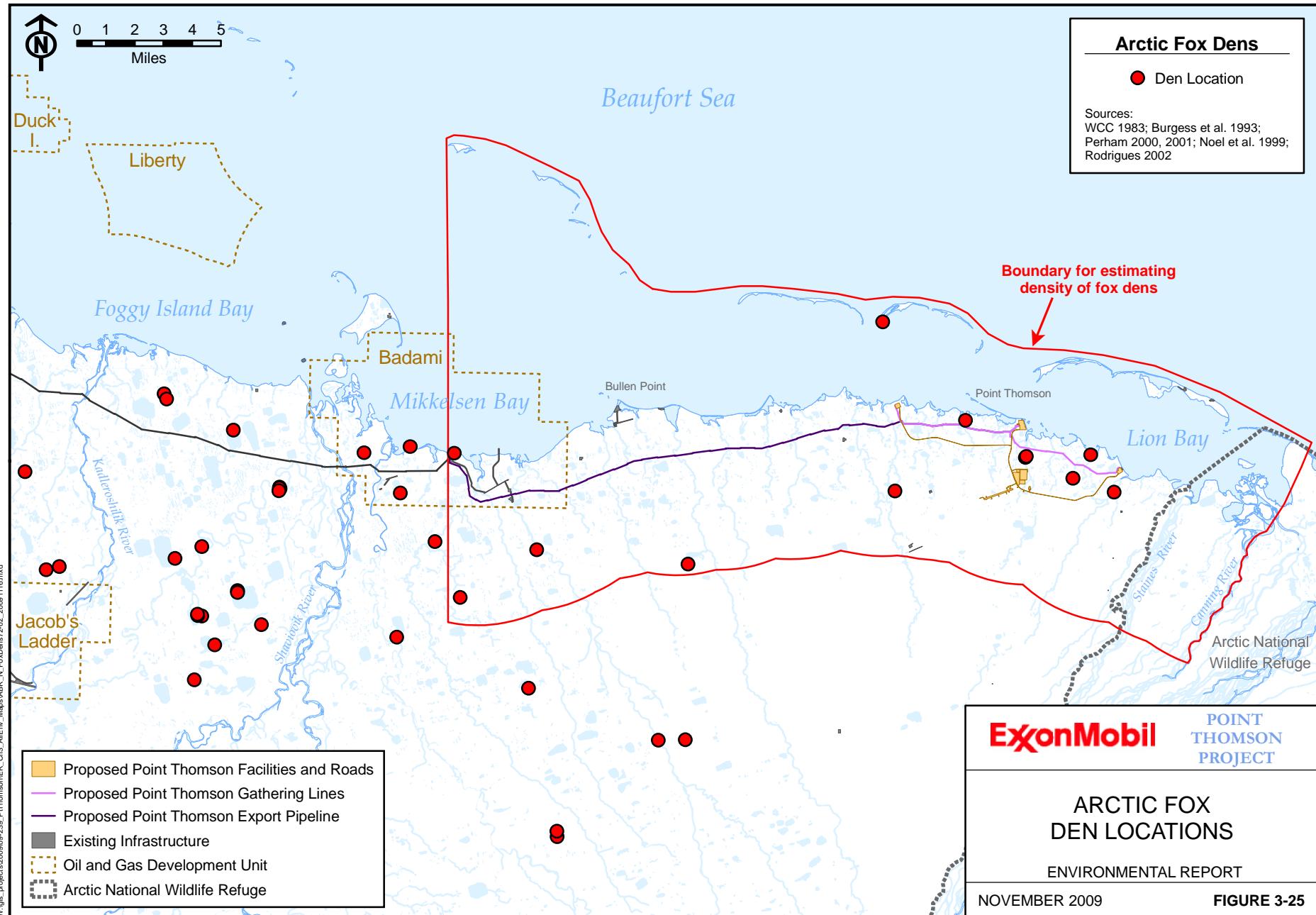


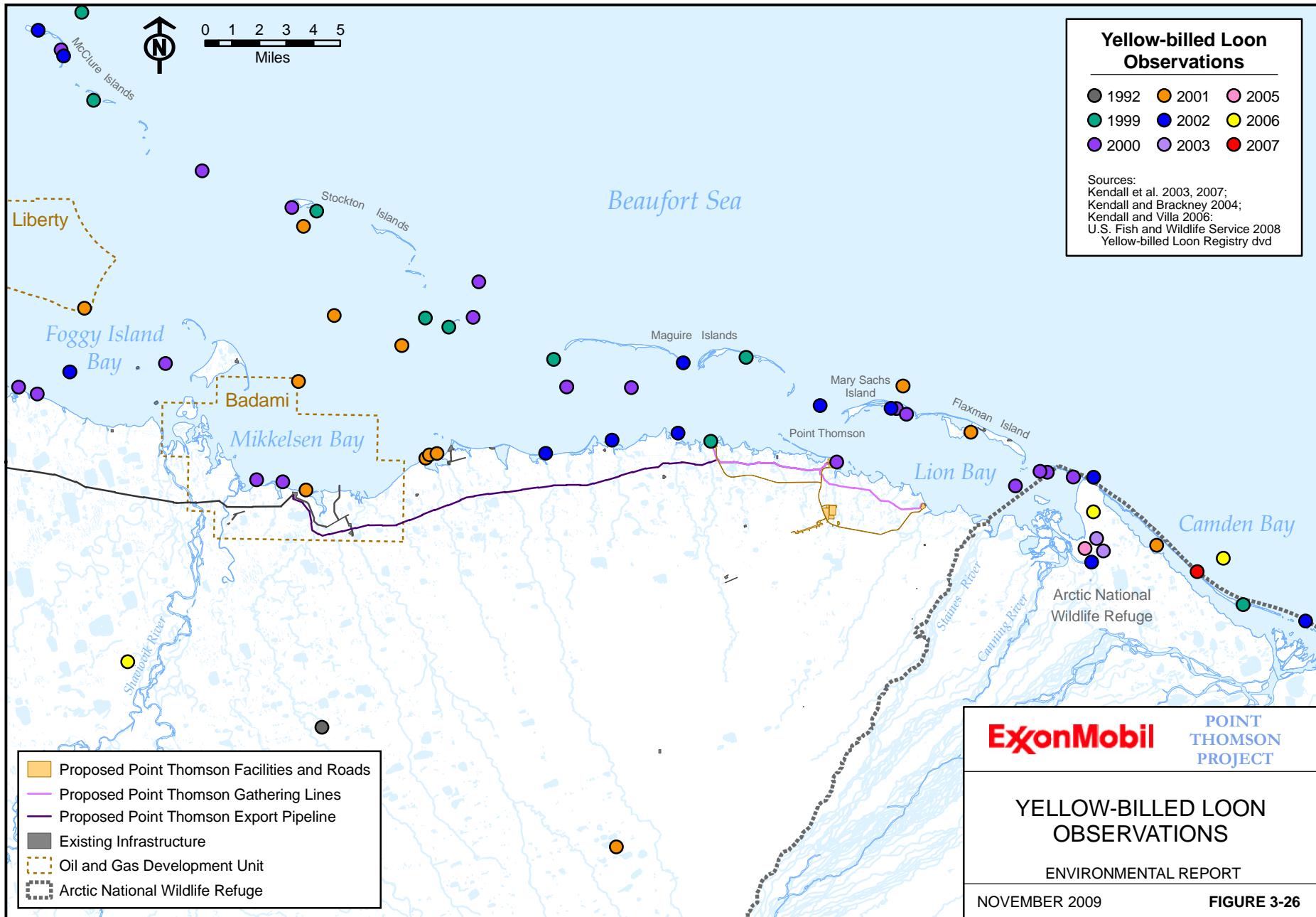


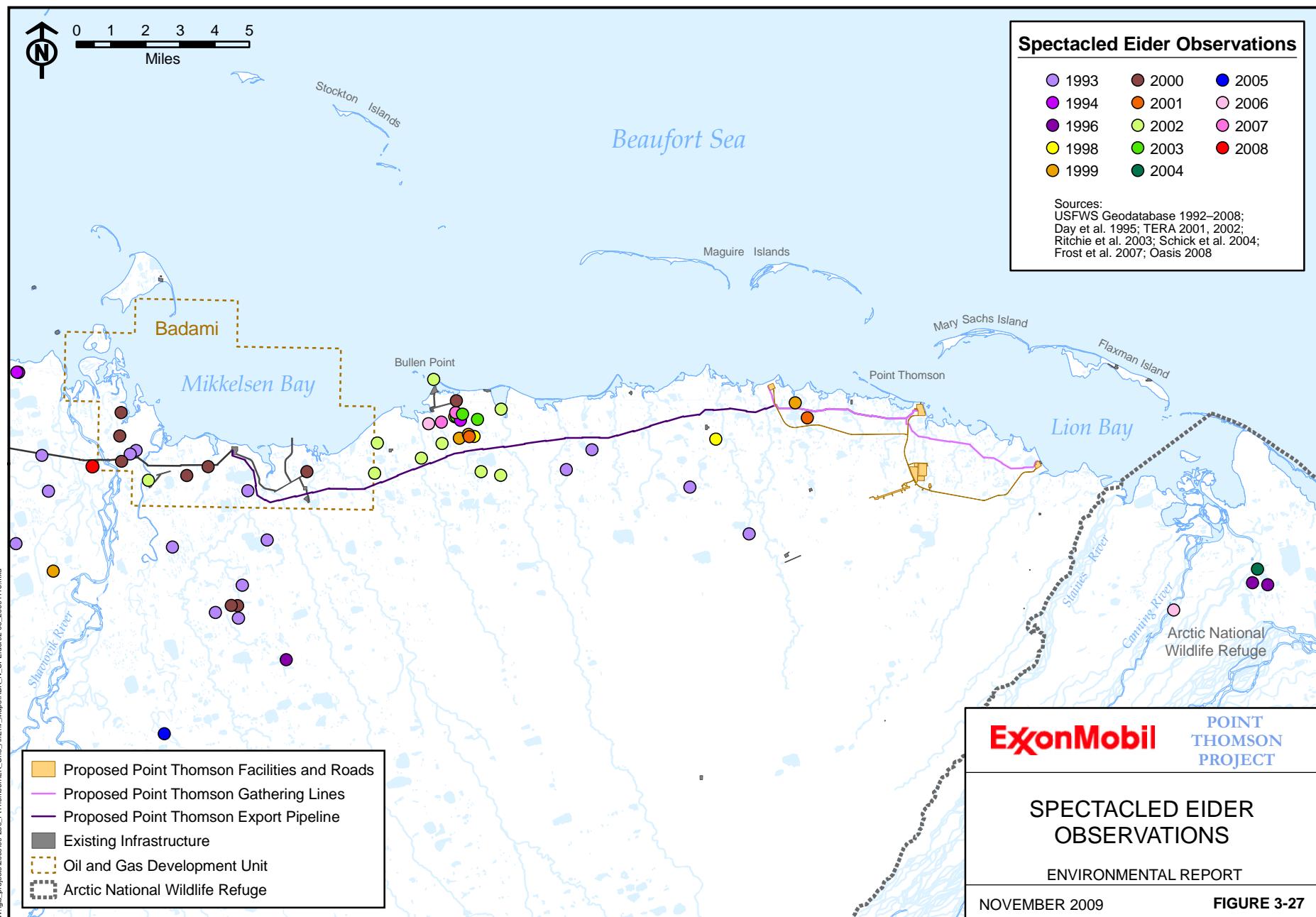


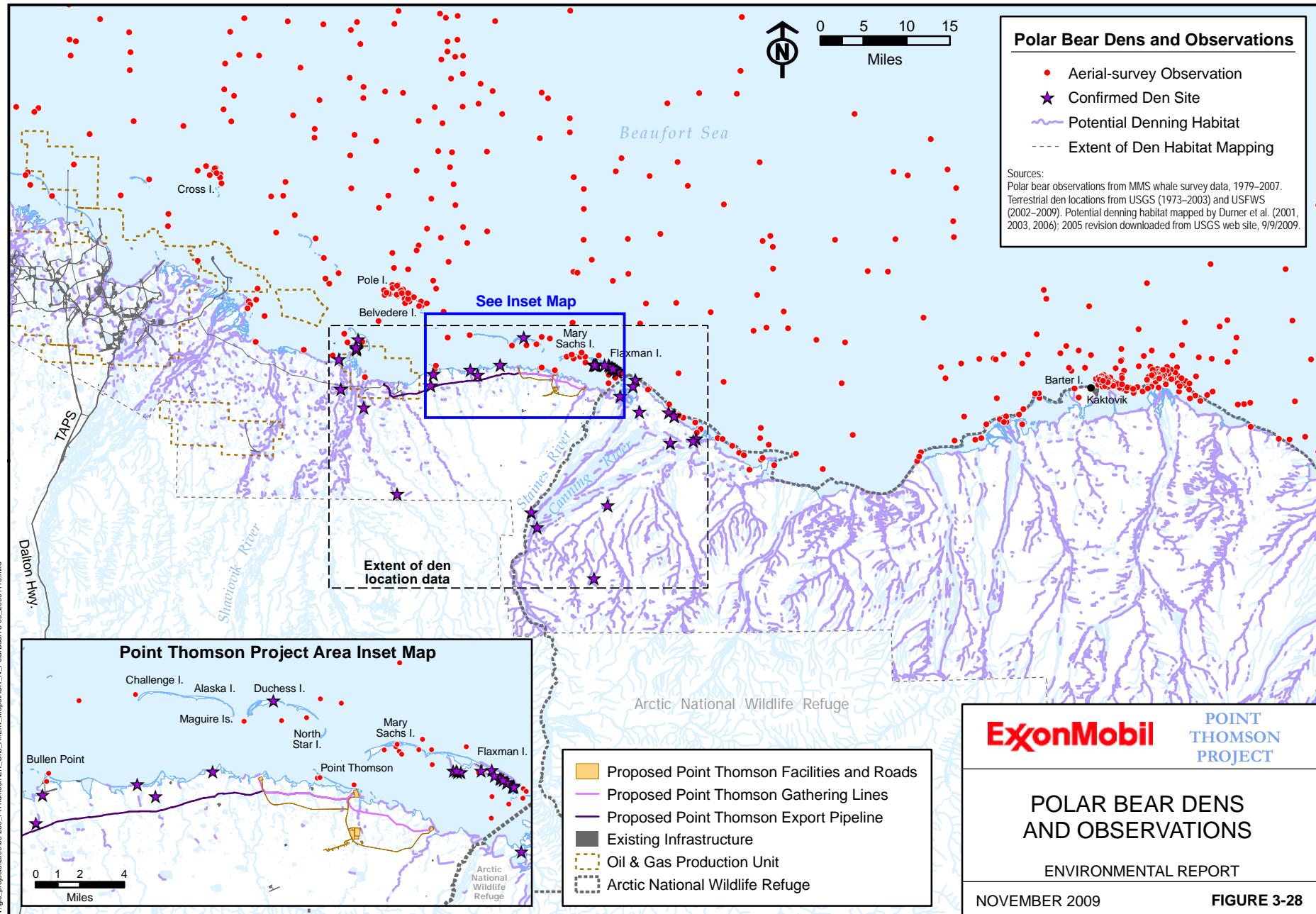


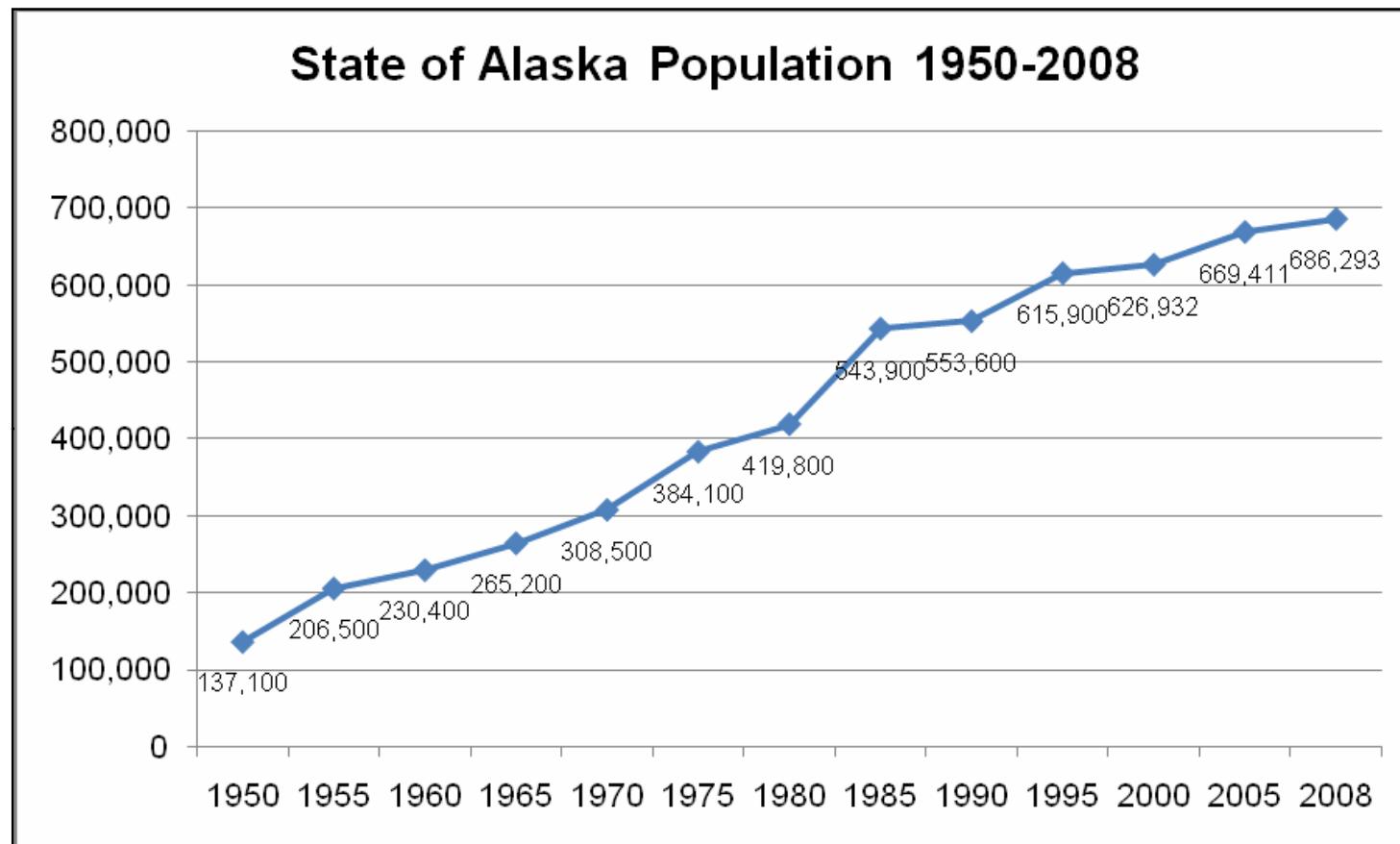












Source: ADOL 2008 and USCB 2008

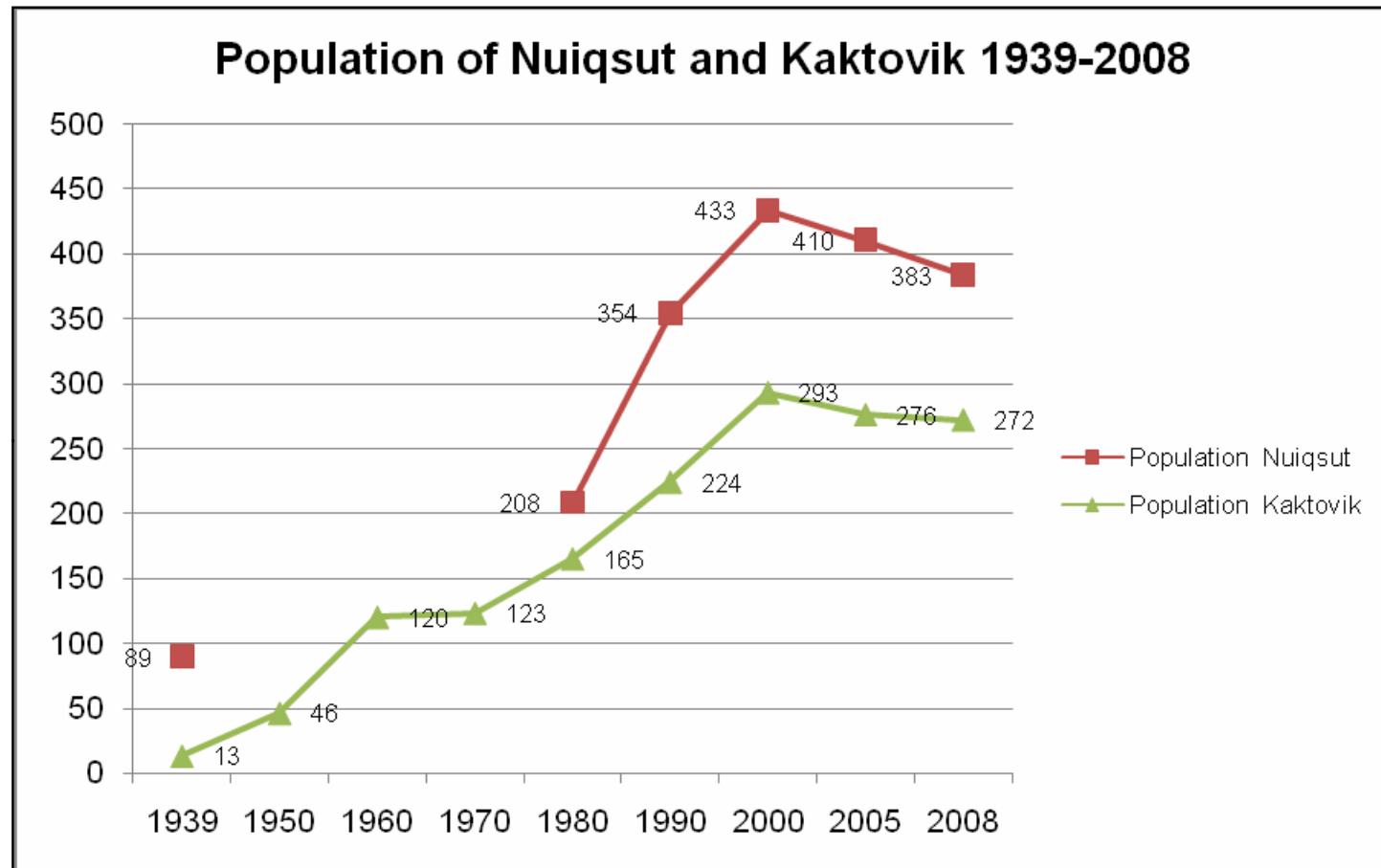
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POPULATION OF THE
STATE OF ALASKA,
1950-2008

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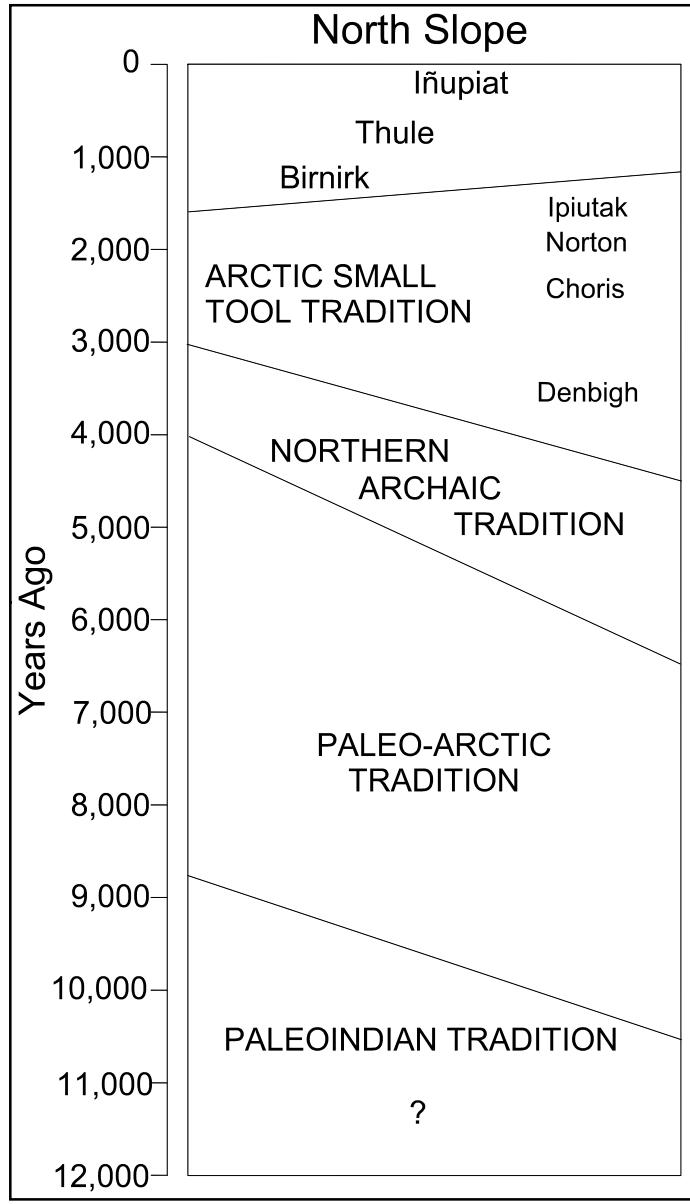
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FIGURE 3-29

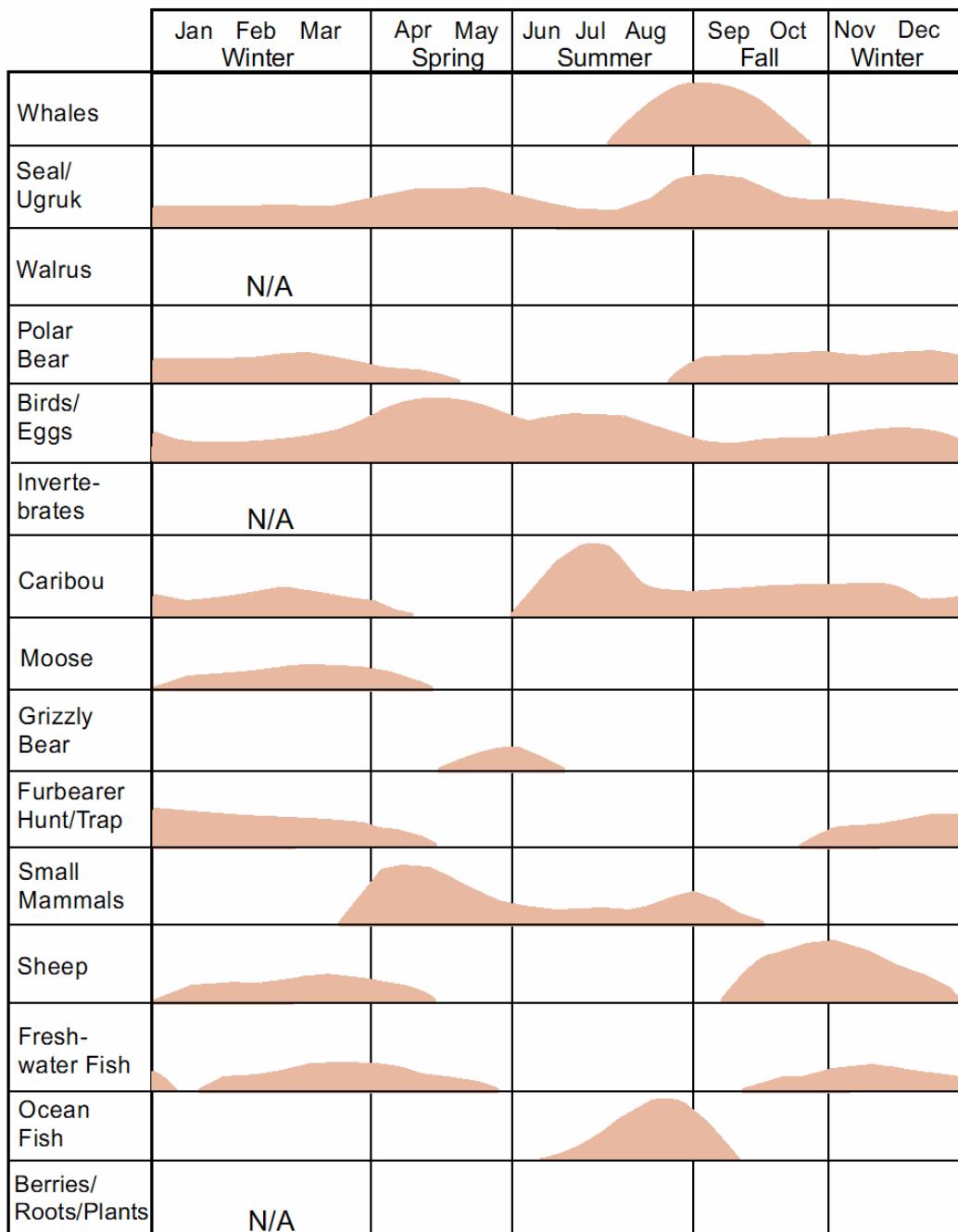


Source: ADOL 2008 and USCB 2008

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POPULATION OF THE NUIQSUT AND KAKTOVIK 1939-2008
ENVIRONMENTAL REPORT NOVEMBER 2009 FIGURE 3-30



Source: Lobdell et al. 2000



Source: Galginaitis et al., 2001; based on Wentworth 1979.

Note: Patterns Indicate Desired Periods for Pursuit of Each Species Based on the Relationship of Abundance, Hunter Access, Seasonal Needs, and Desirability. Heights of Graphs Indicate Level of Effort.

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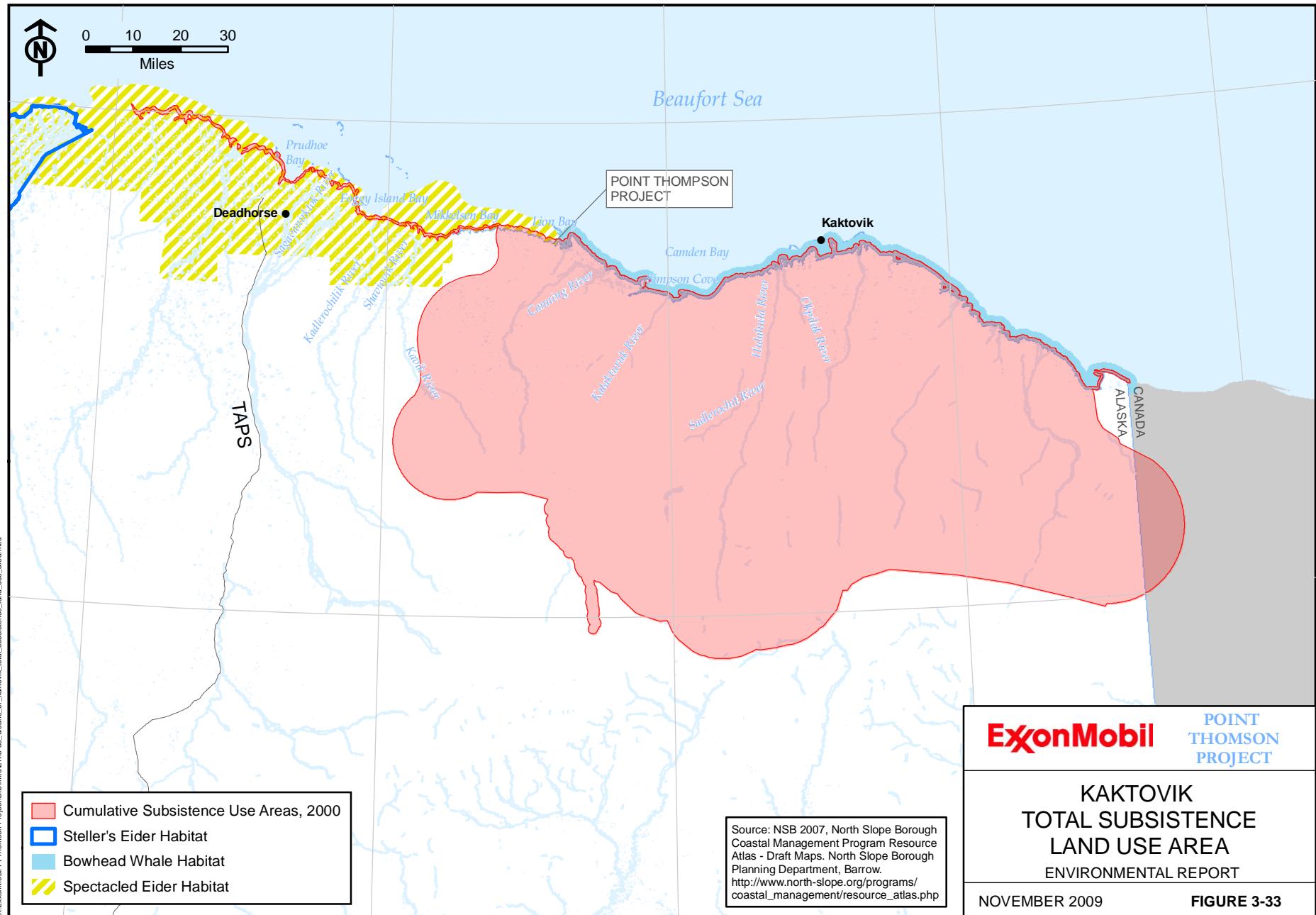
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**QUALITATIVE PRESENTATION
OF ANNUAL SUBSISTENCE
CYCLE FOR KAKTOVIK**

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FIGURE 3-32



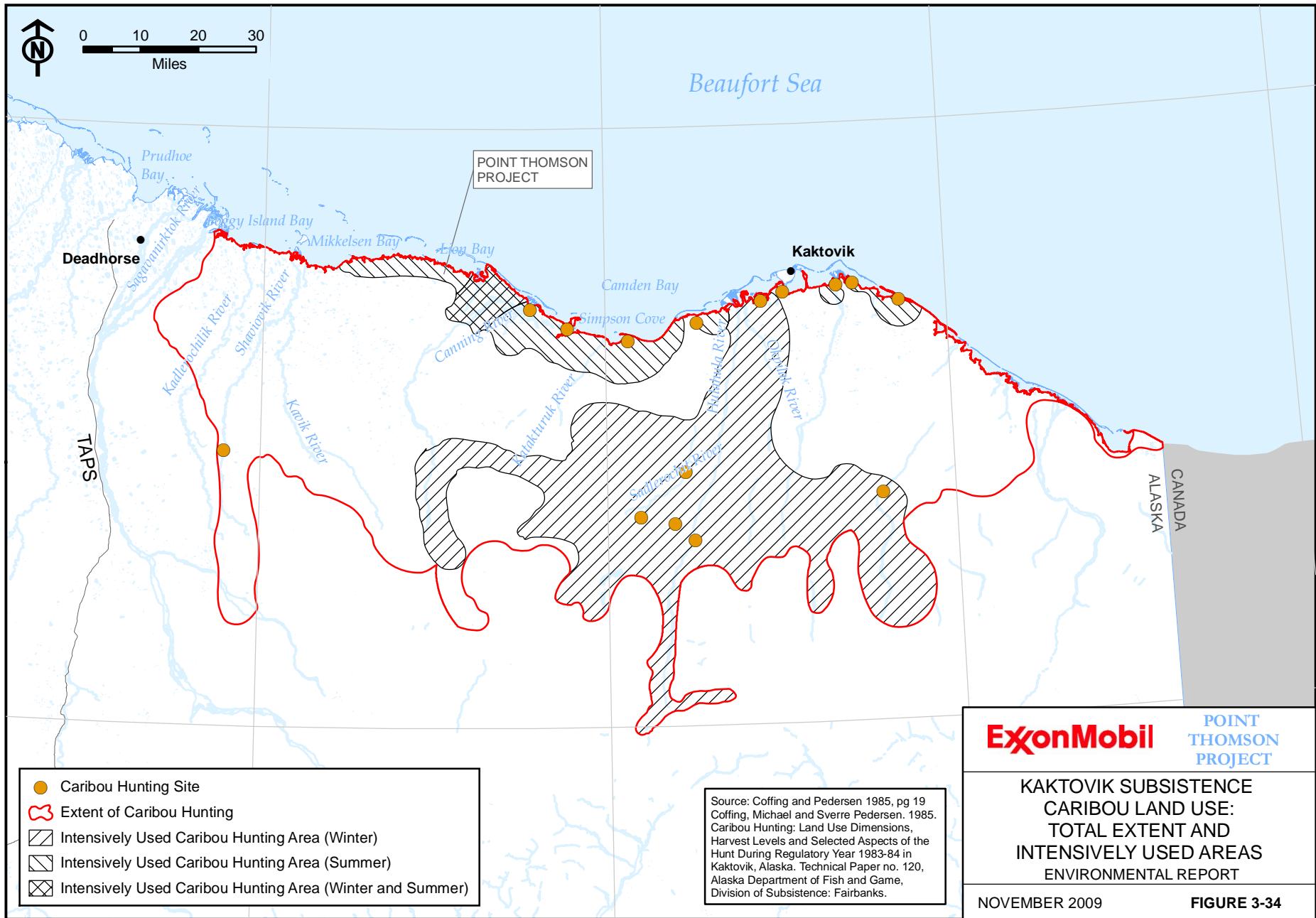
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Source: NSB 2007, North Slope Borough Coastal Management Program Resource Atlas - Draft Maps. North Slope Borough Planning Department, Barrow.
http://www.north-slope.org/programs/coastal_management/resource_atlas.php

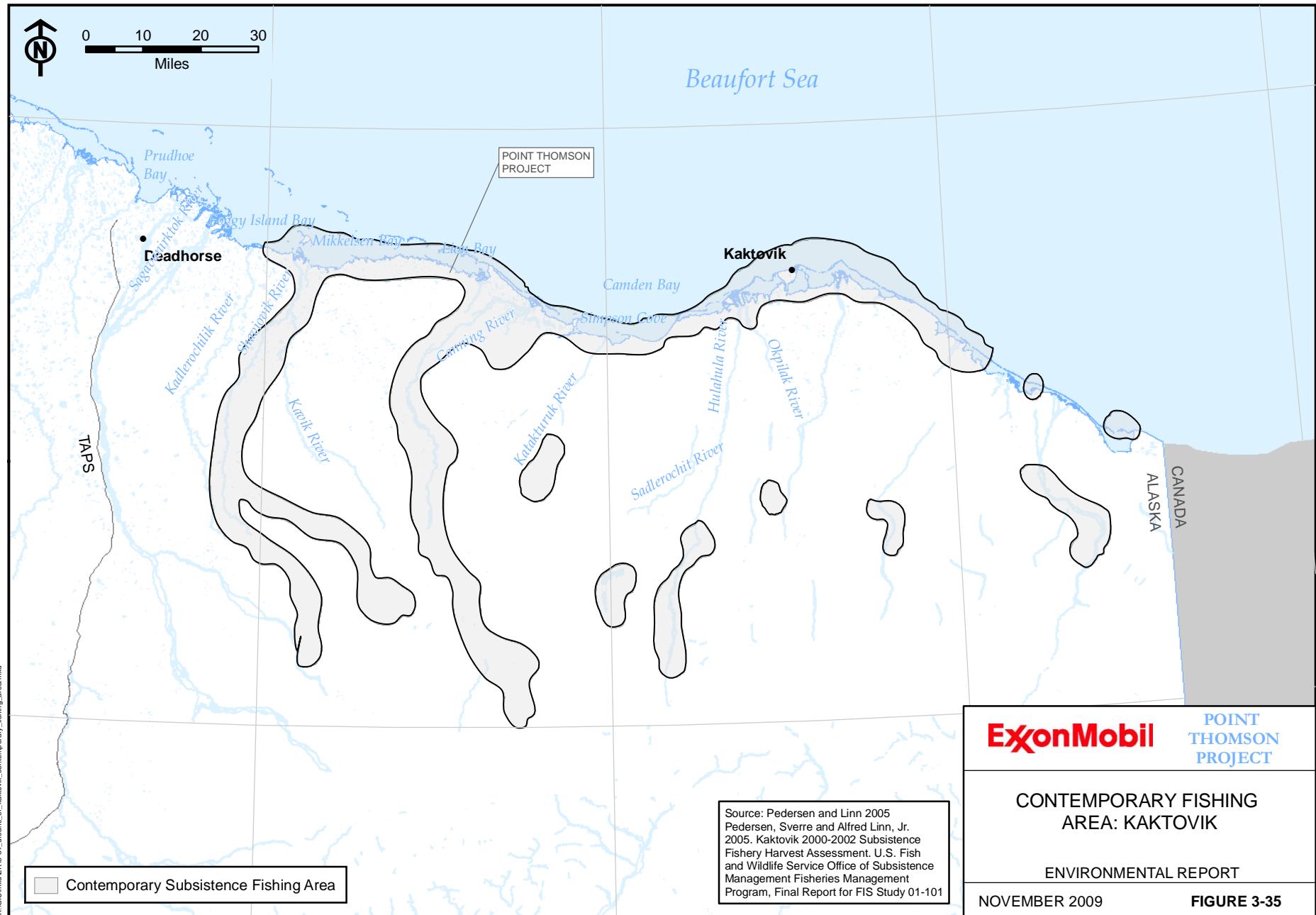
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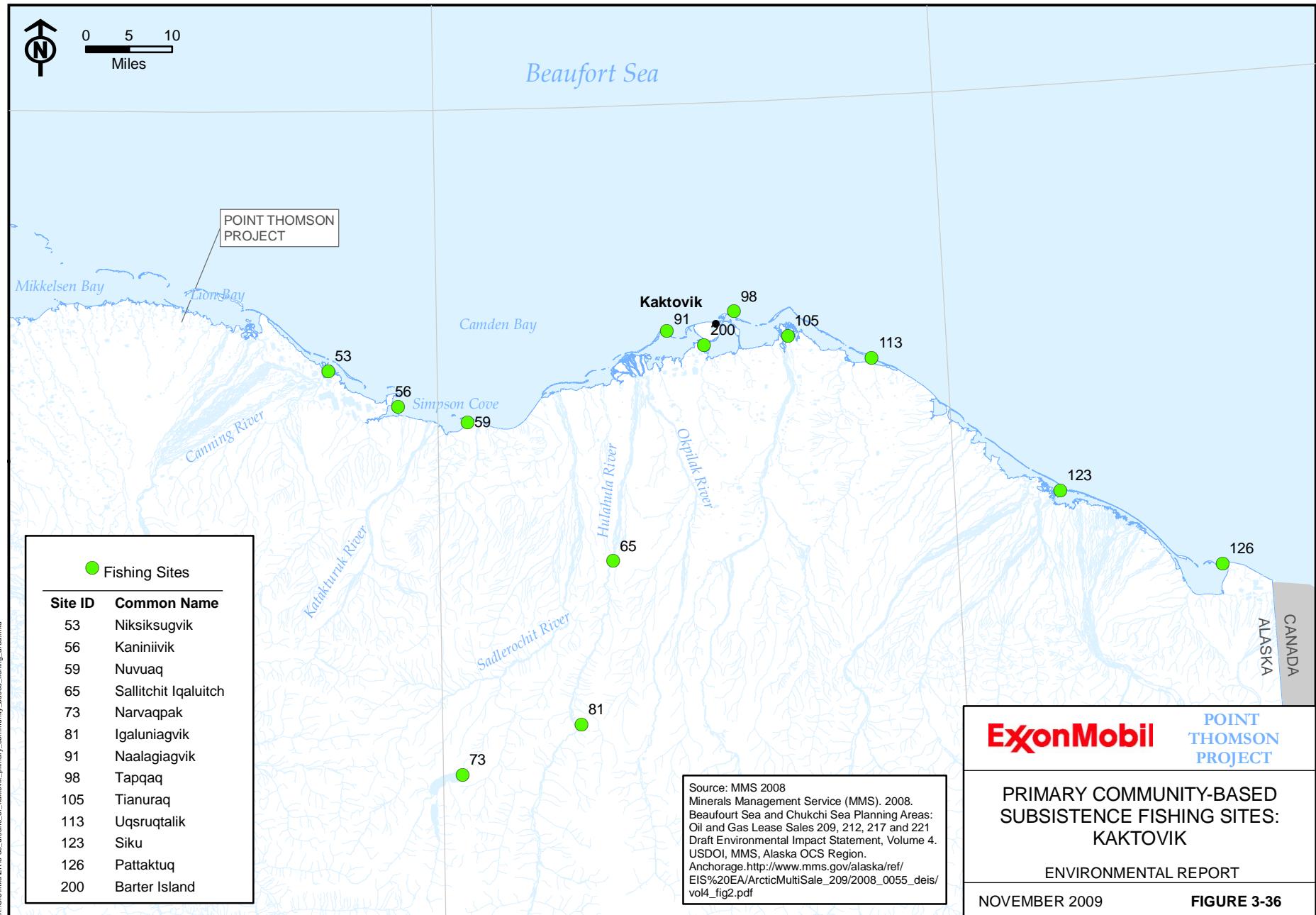
KAKTOVIK TOTAL SUBSISTENCE LAND USE AREA ENVIRONMENTAL REPORT

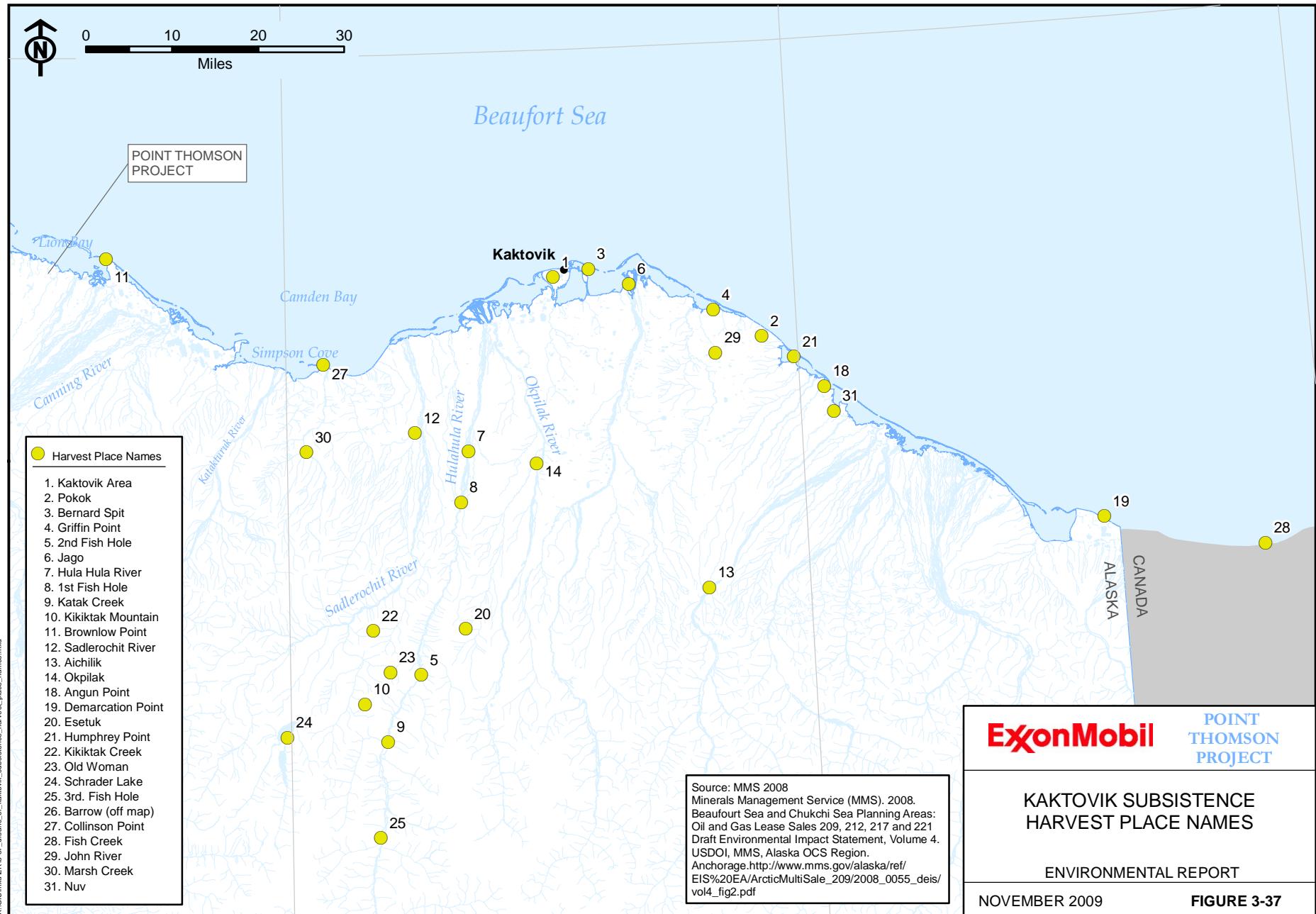
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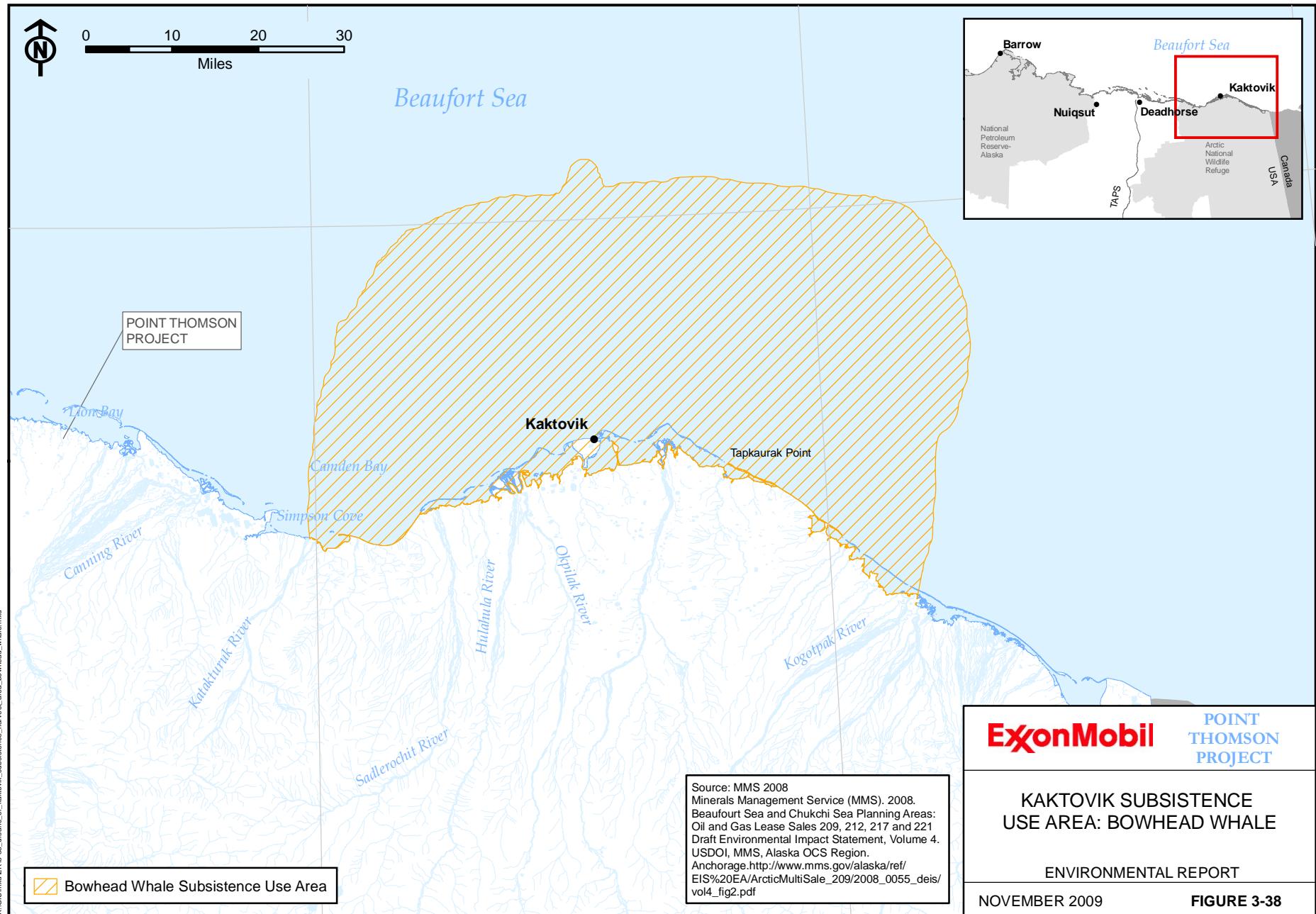
FIGURE 3-33

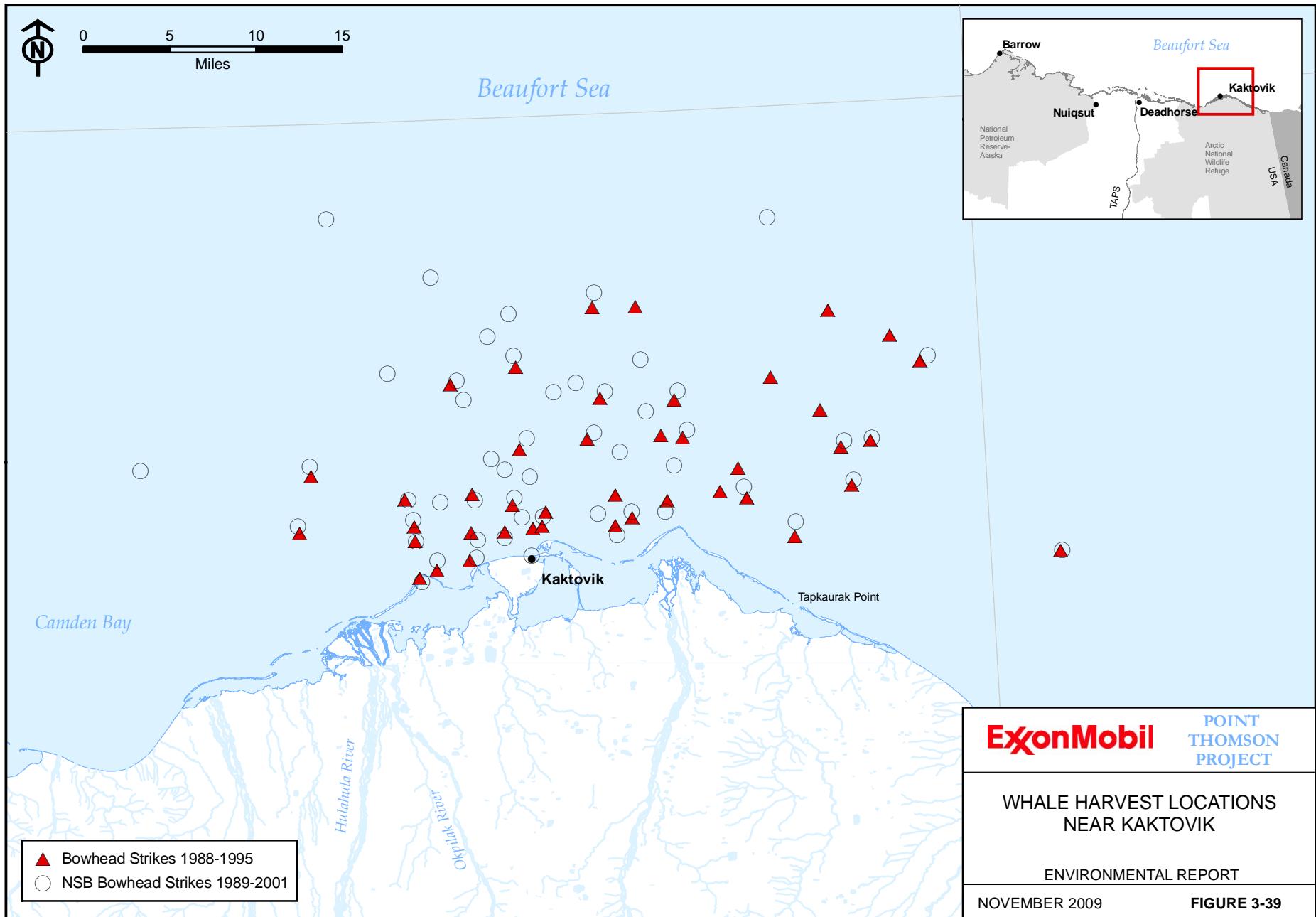


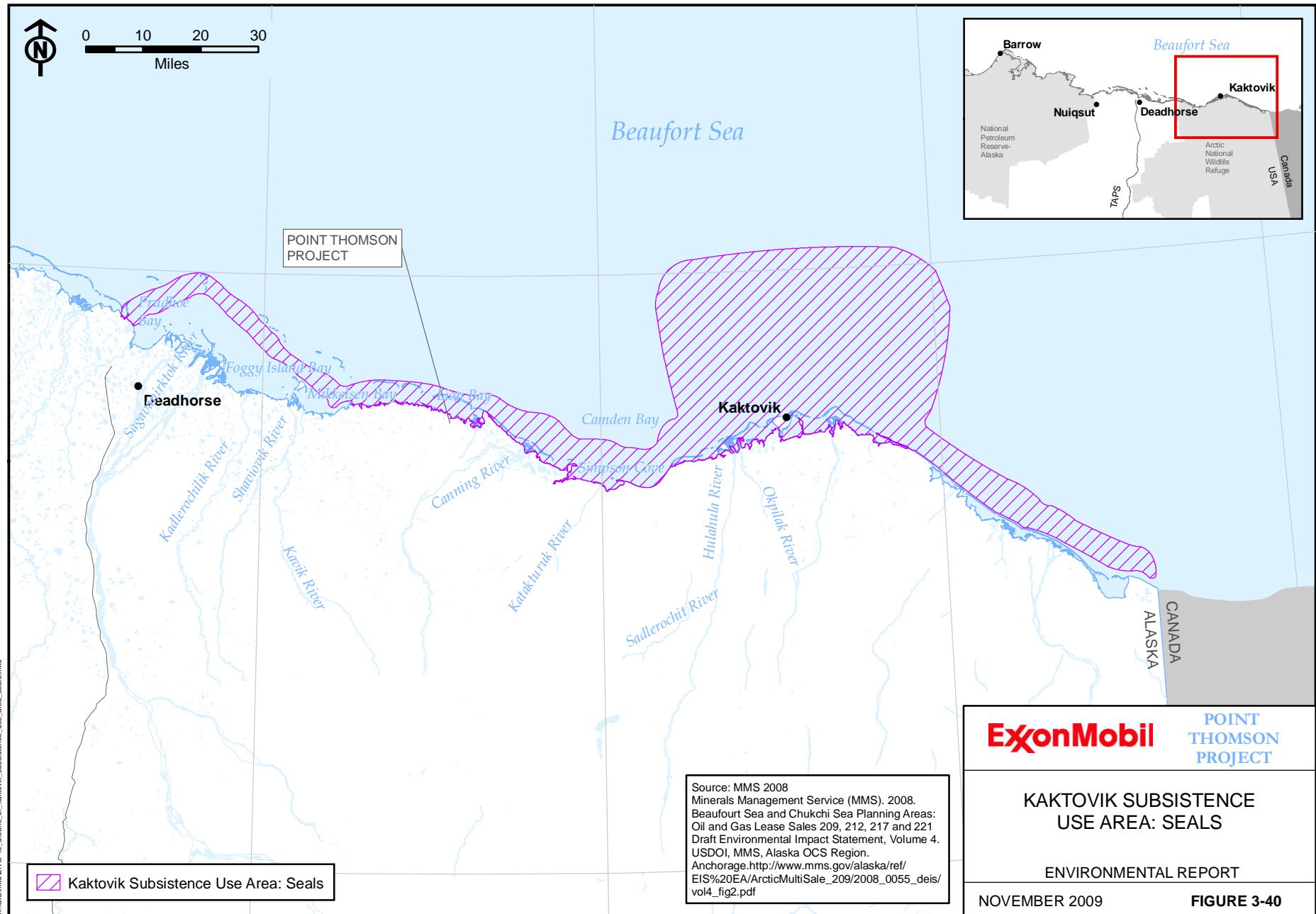


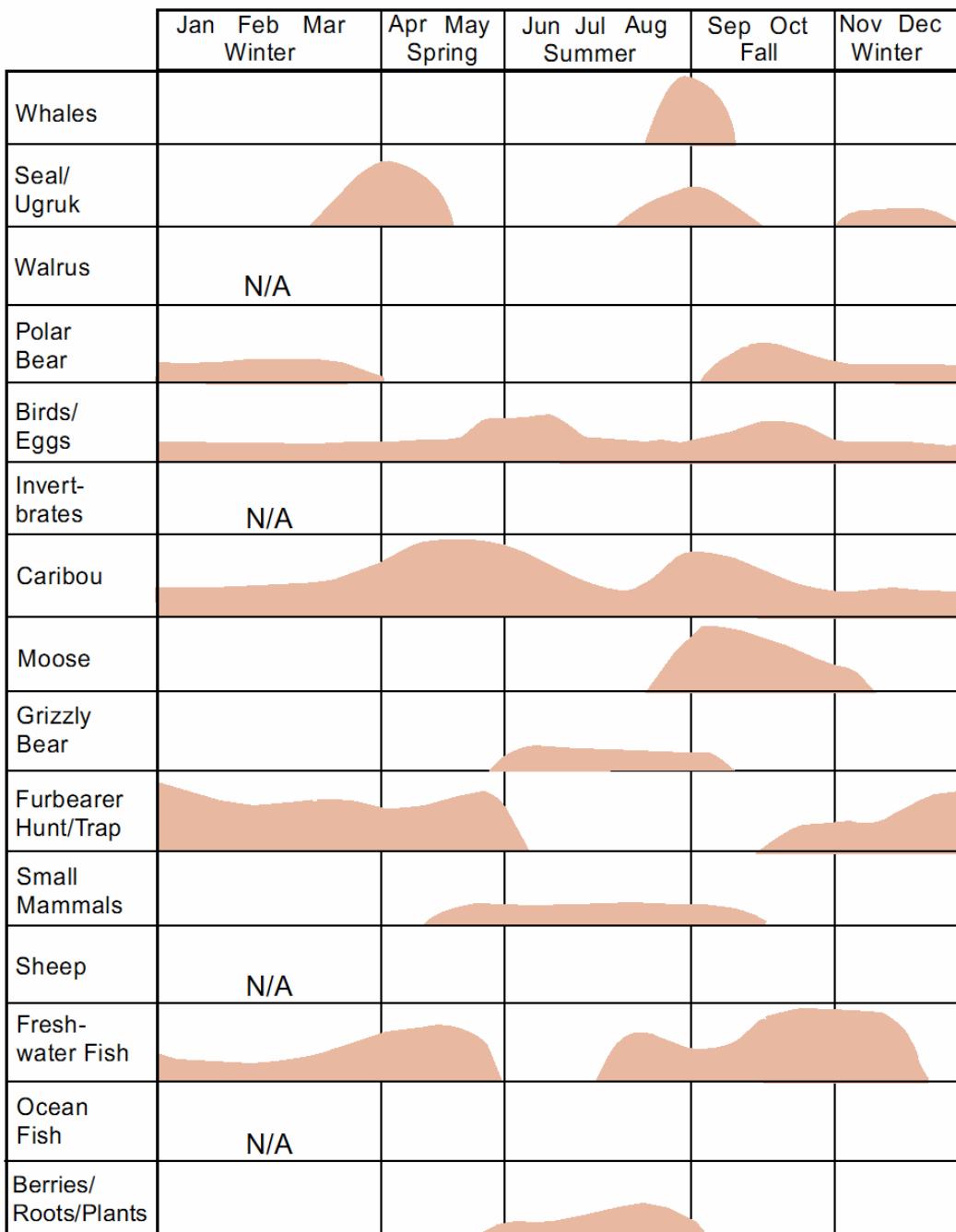












Source: Galginaitis et al., 2001; based on Wentworth 1979.

Note: Patterns Indicate Desired Periods for Pursuit of Each Species Based on the Relationship of Abundance, Hunter Access, Seasonal Needs, and Desirability. Heights of Graphs Indicate Level of Effort.

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OF ANNUAL SUBSISTENCE
CYCLE FOR NUIQSUT

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FIGURE 3-41

