

TESHEKPUK CARIBOU HERD OVERVIEW

BOARD OF GAME

BARROW, AK

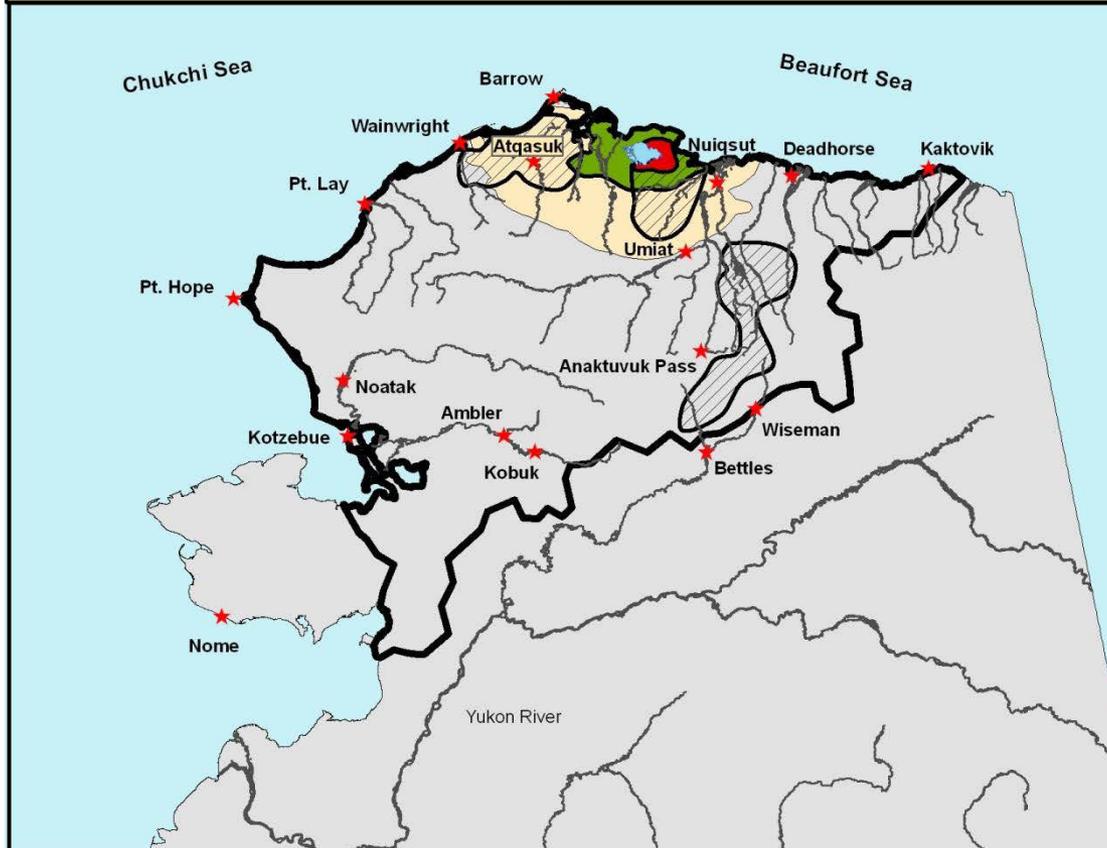
NOVEMBER 2011

LINCOLN PARRETT – CARIBOU BIOLOGIST
ADF&G – WILDLIFE CONSERVATION

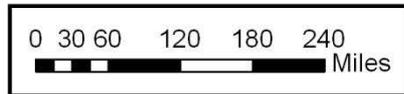


Teshekpuk Caribou Herd Seasonal Ranges

Revised September 2010



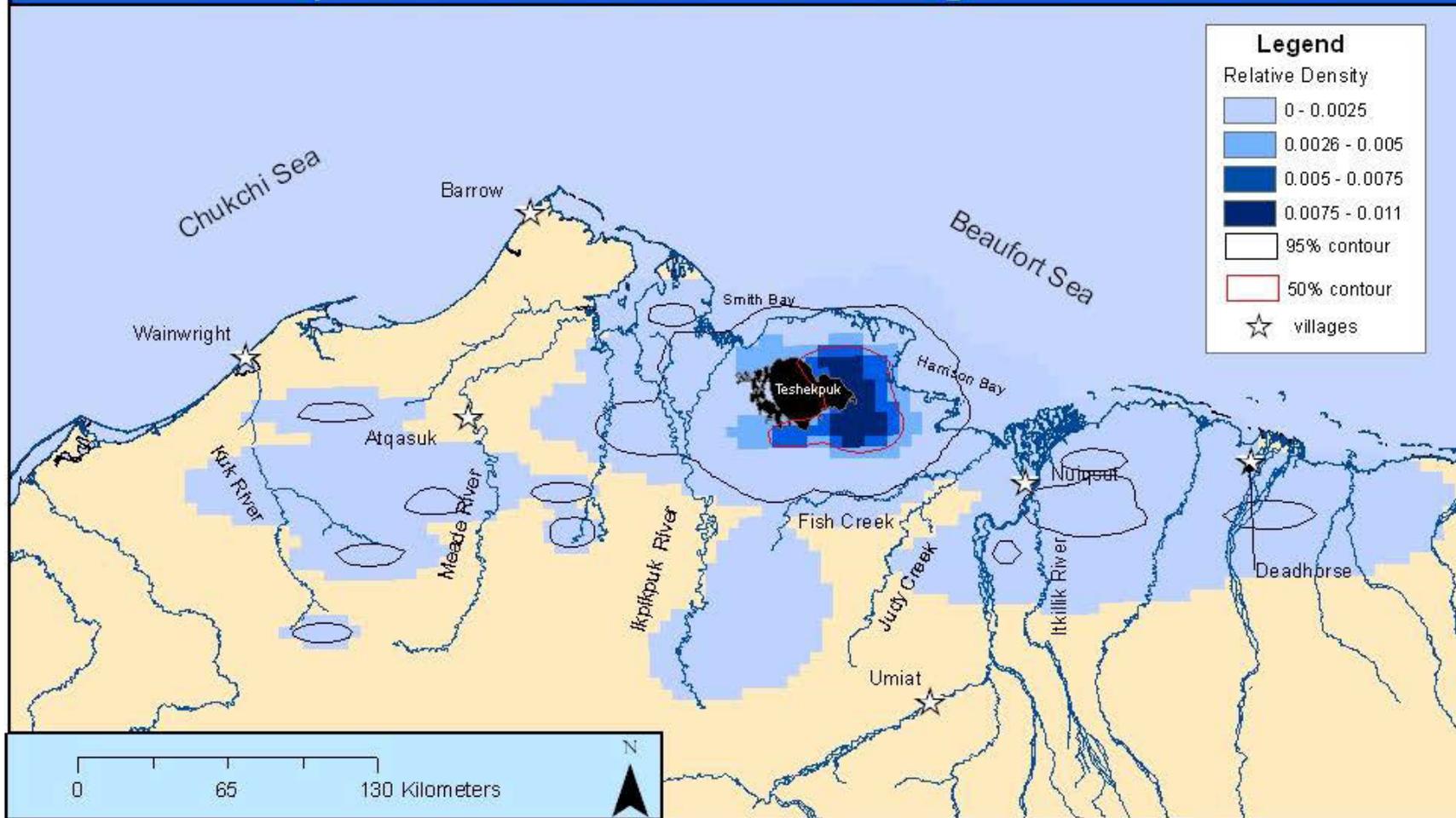
Alaska Dept. of Fish and Game
1300 College Road
Fairbanks, AK 99709



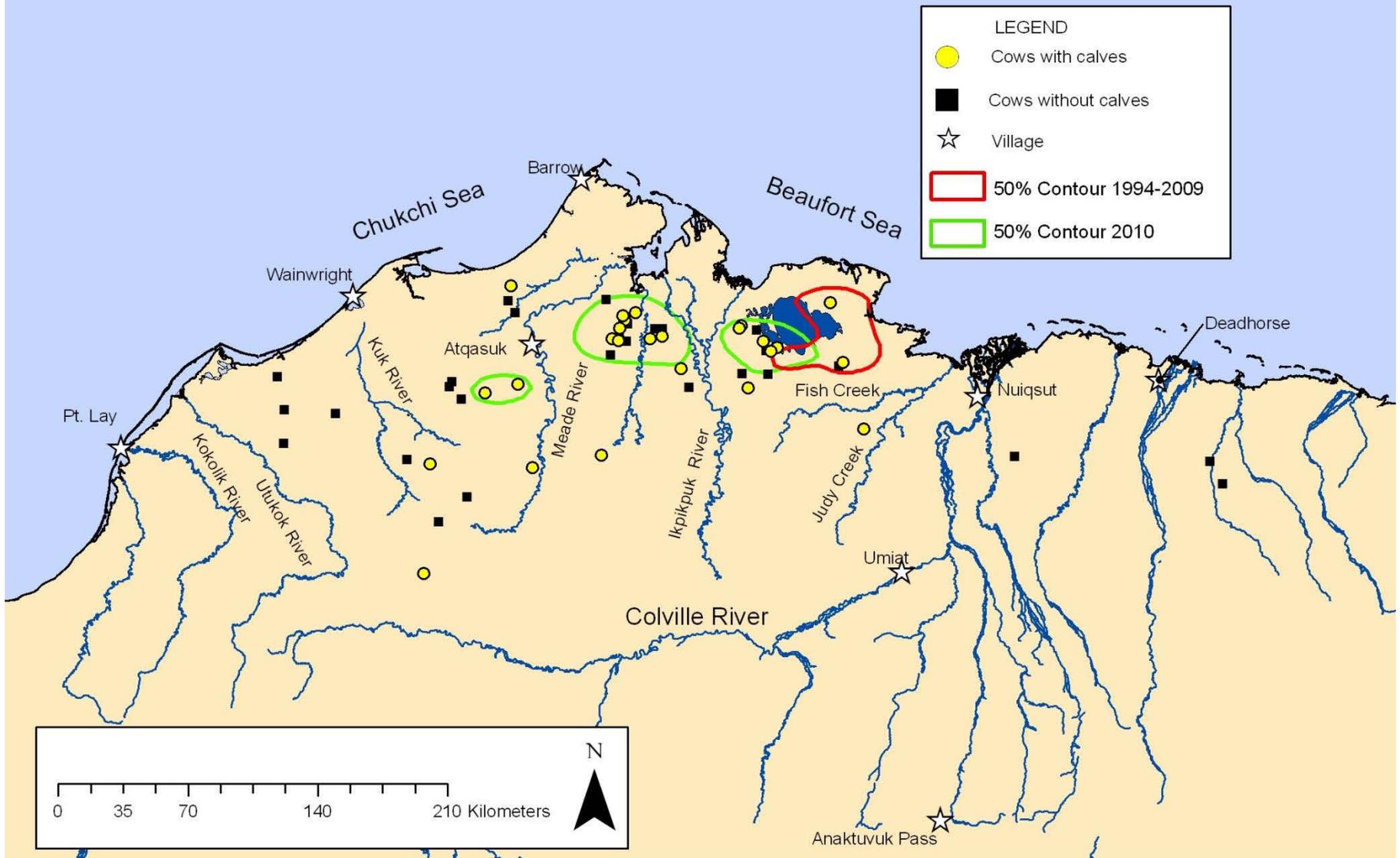
Legend

- ★ Villages
- ▭ Extent of Range
- ▭ Summer Range
- ▭ Calving Grounds
- ▭ Core Calving Grounds
- ▨ Frequently Used Winter Range

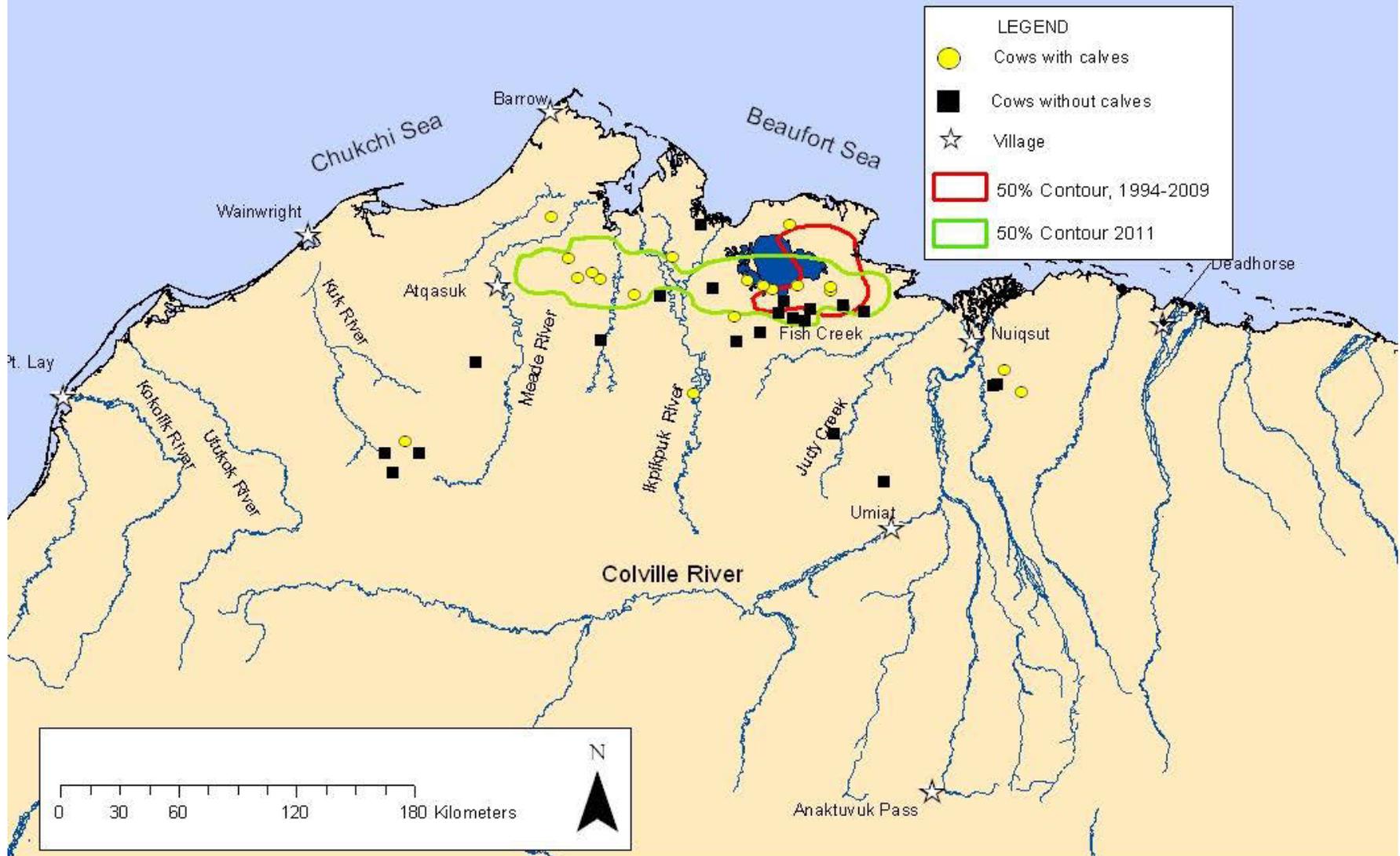
Teshekpuk Caribou Herd Cumulative Calving Distribution 1994-2009



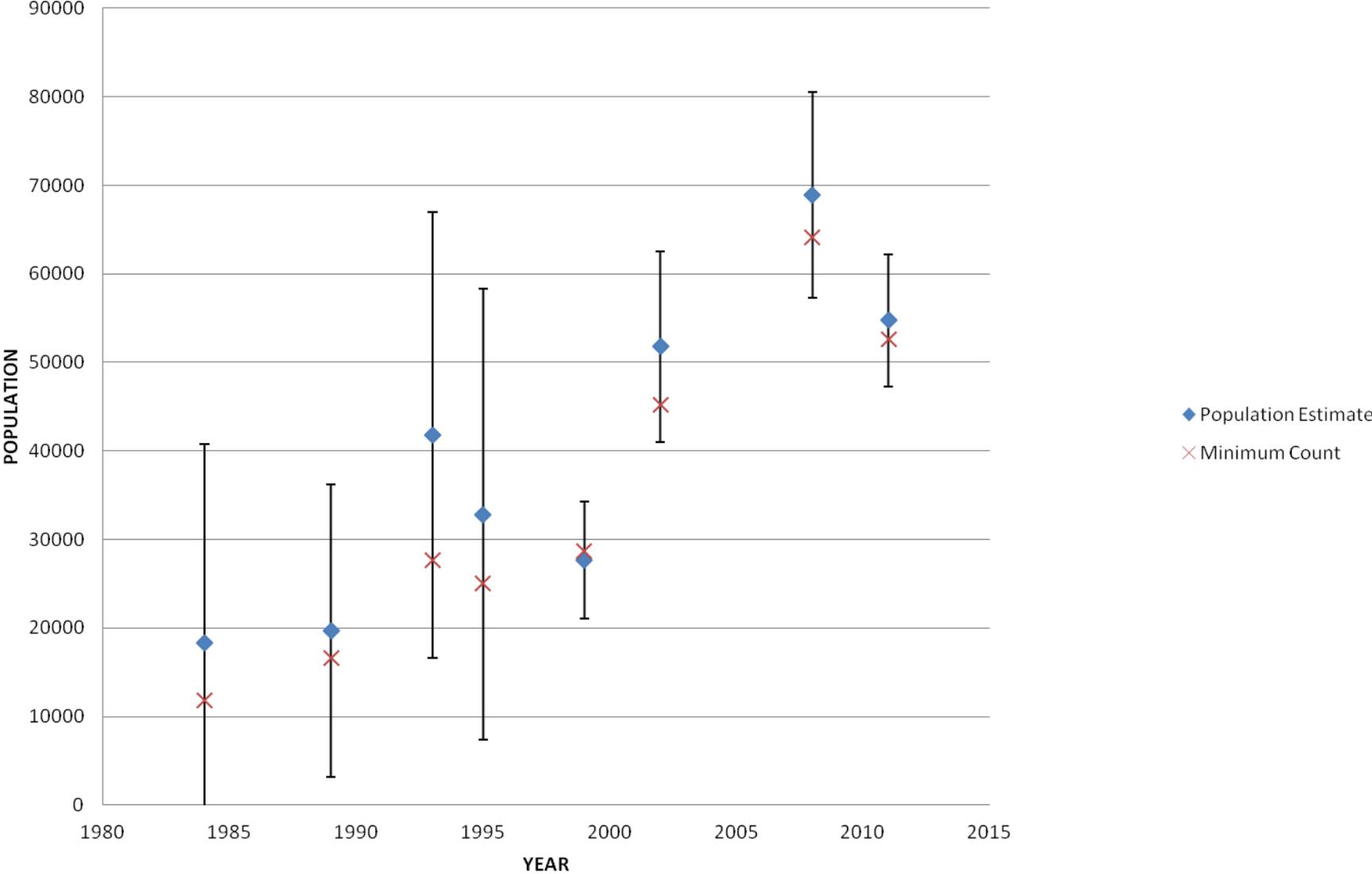
2010 Teshekpuk Caribou Herd Calving Distribution



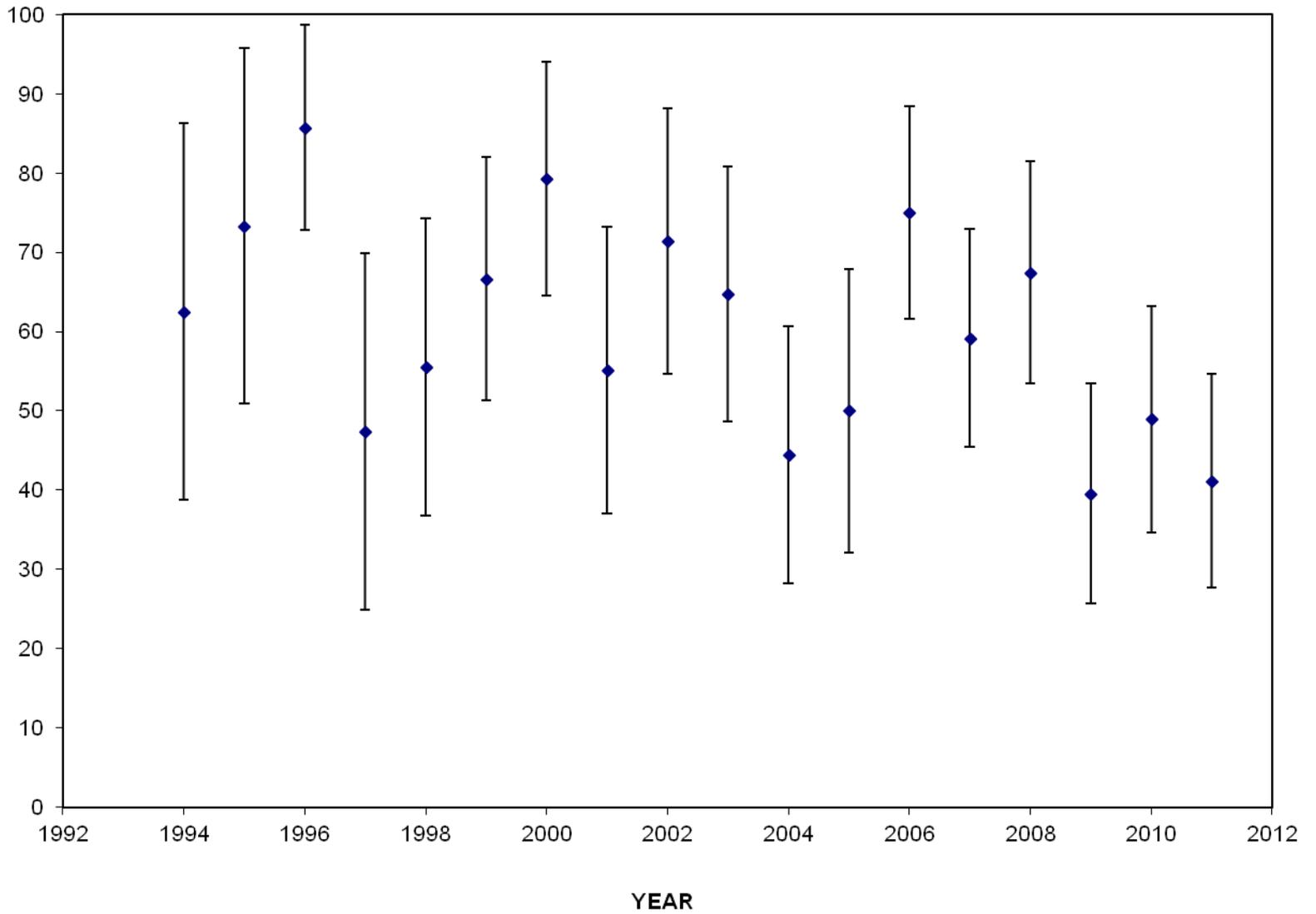
2011 Teshekpuk Caribou Herd Calving Distribution



TCH Abundance Estimates

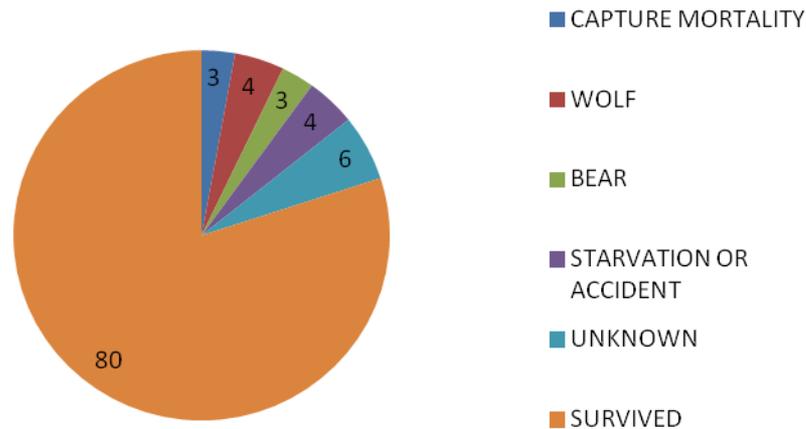


Teshkepkuk Caribou Herd
PROPORTION OF FEMALES WITH CALVES (95%CI)

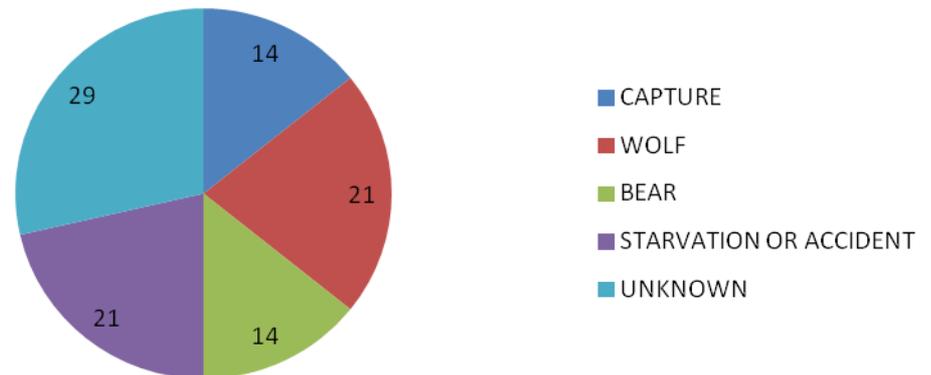


TCH Calf Survival Project

Calf Fates Through Early October



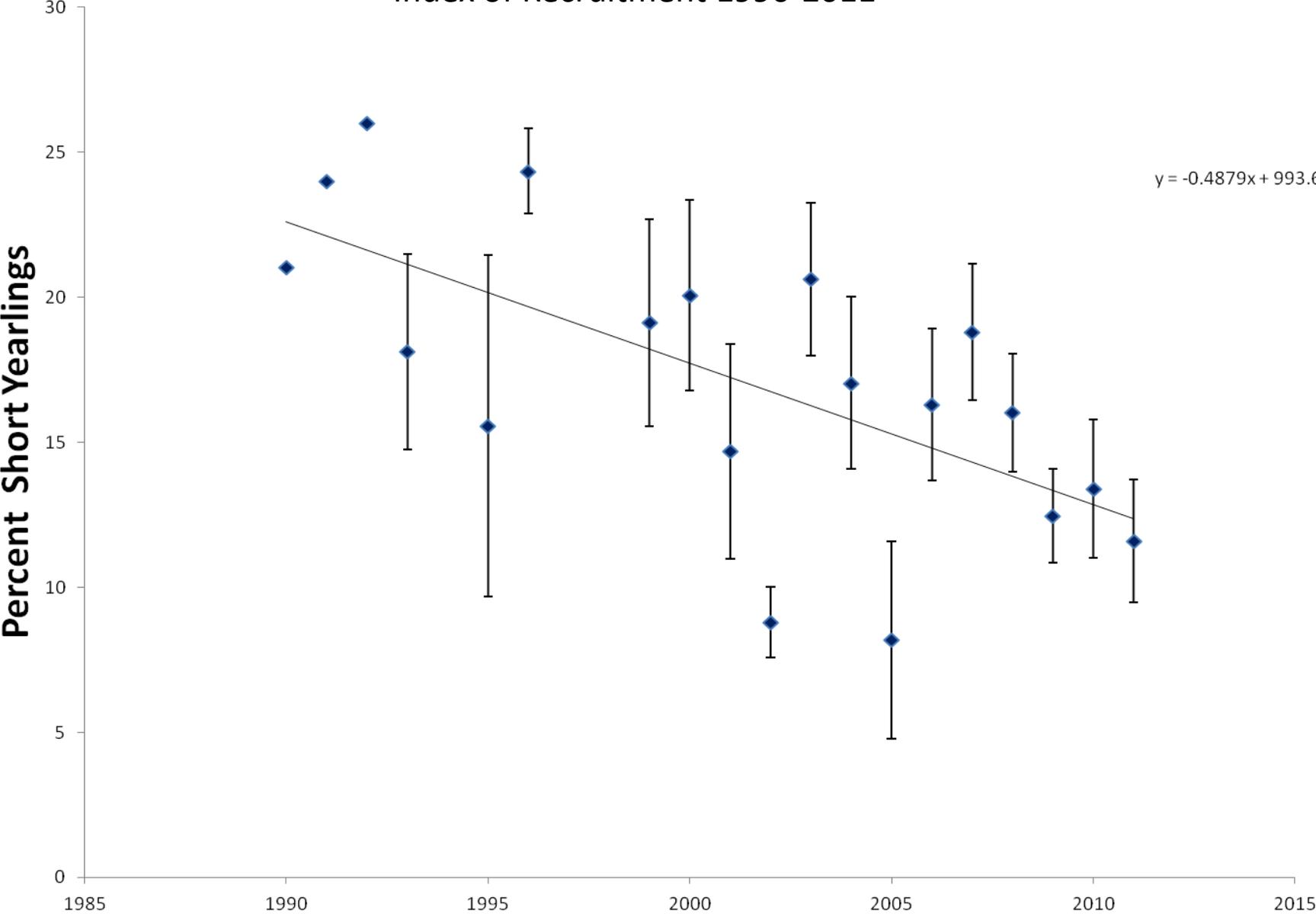
Causes of Mortality



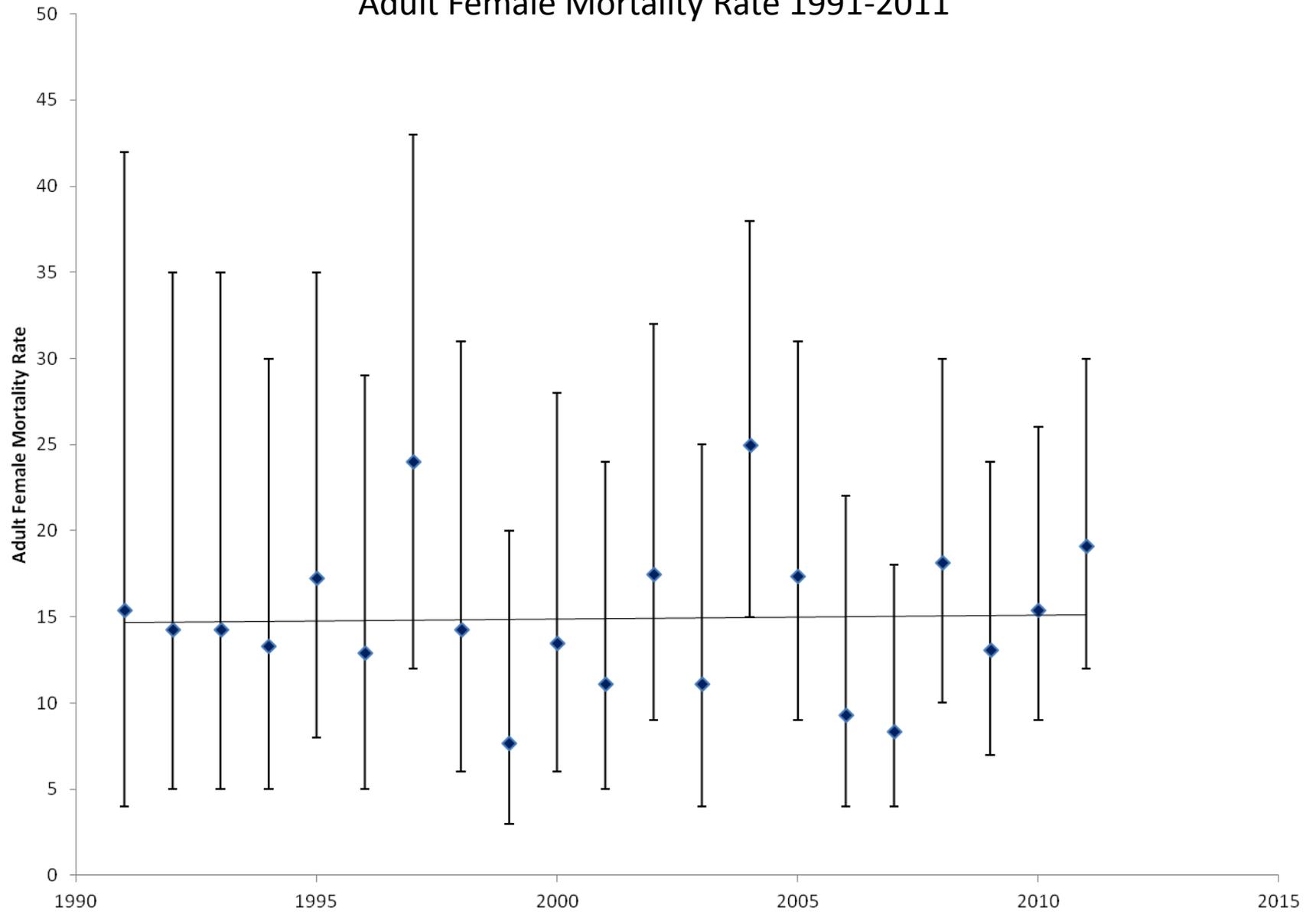
•70 calves were collared in June, 2011

•Calf survival was twice as high in the 1994-2009 core calving ground

Index of Recruitment 1990-2011

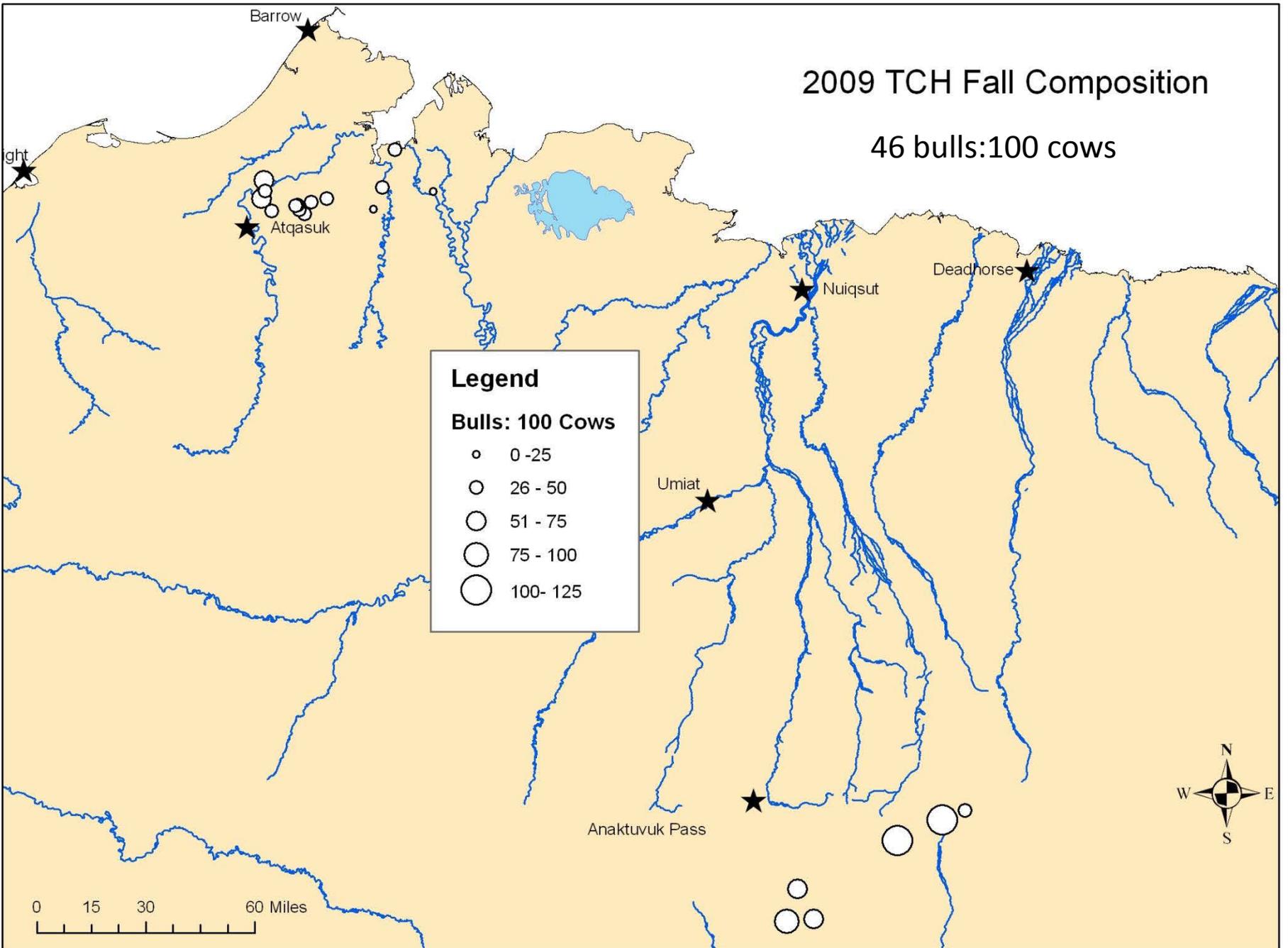


Adult Female Mortality Rate 1991-2011



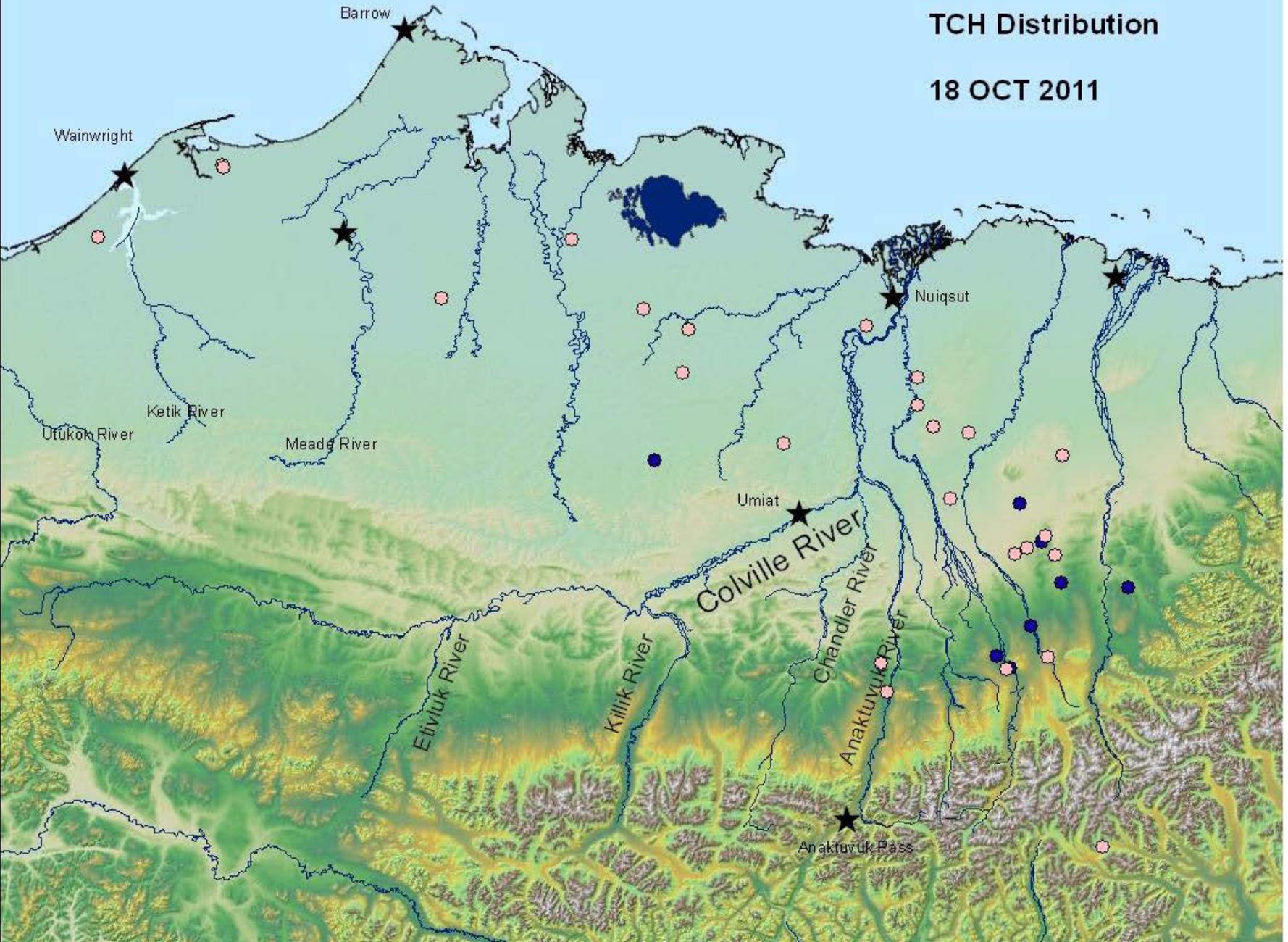
2009 TCH Fall Composition

46 bulls:100 cows



TCH Distribution

18 OCT 2011



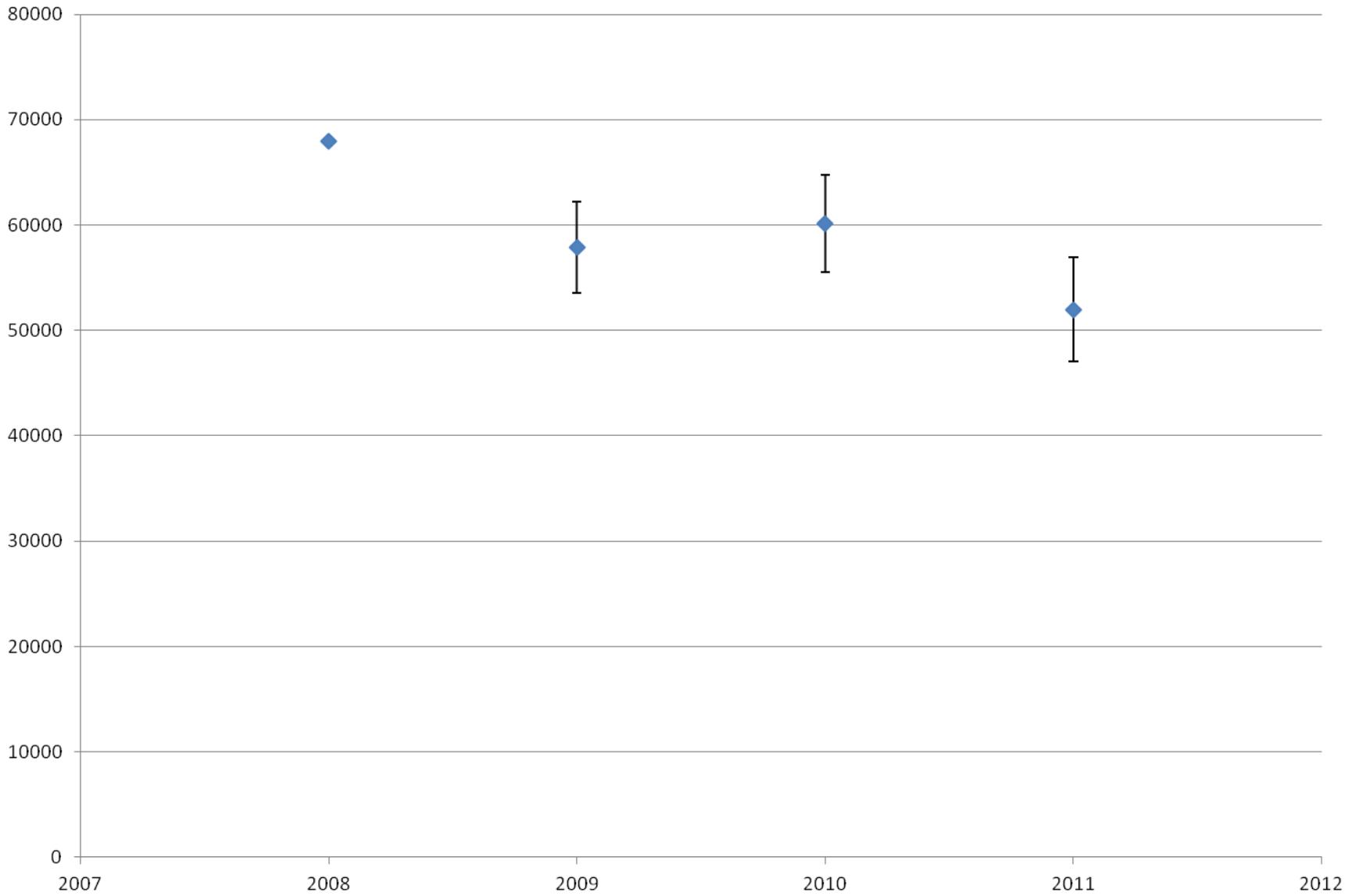
Unit 26A Regulations:

- Residents: 5 caribou per day, 'no closed season' for bulls, July 1-May15 for cows
Registration permit for residents north of Yukon River or statewide harvest ticket
- Nonresidents: 5 caribou total, no closed season for bulls, July 1-May15 for cows

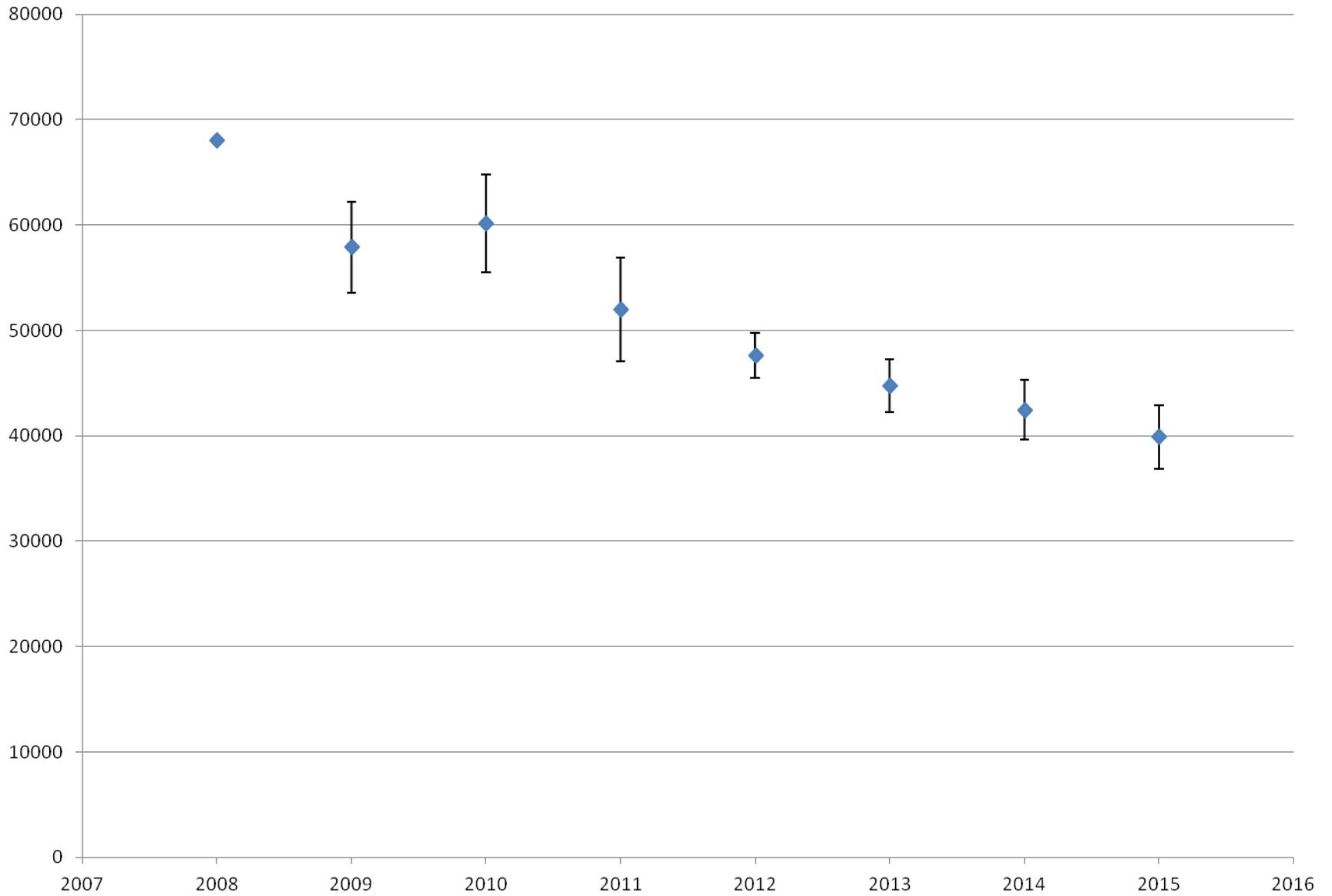
Unit 26A Harvest:

- Local Residents: 6903 total caribou per year (ADFG 2002-2007 community harvest survey average)~75% from the TCH, the remainder from WAH and CAH
- Non-local Residents: 48 per year (2000-2010 harvest ticket average)
- Nonresidents: 39 per year (2000-2010 harvest ticket average)
- Total annual harvest is high; estimated at 5-11% of the population, depending upon Barrow harvest level

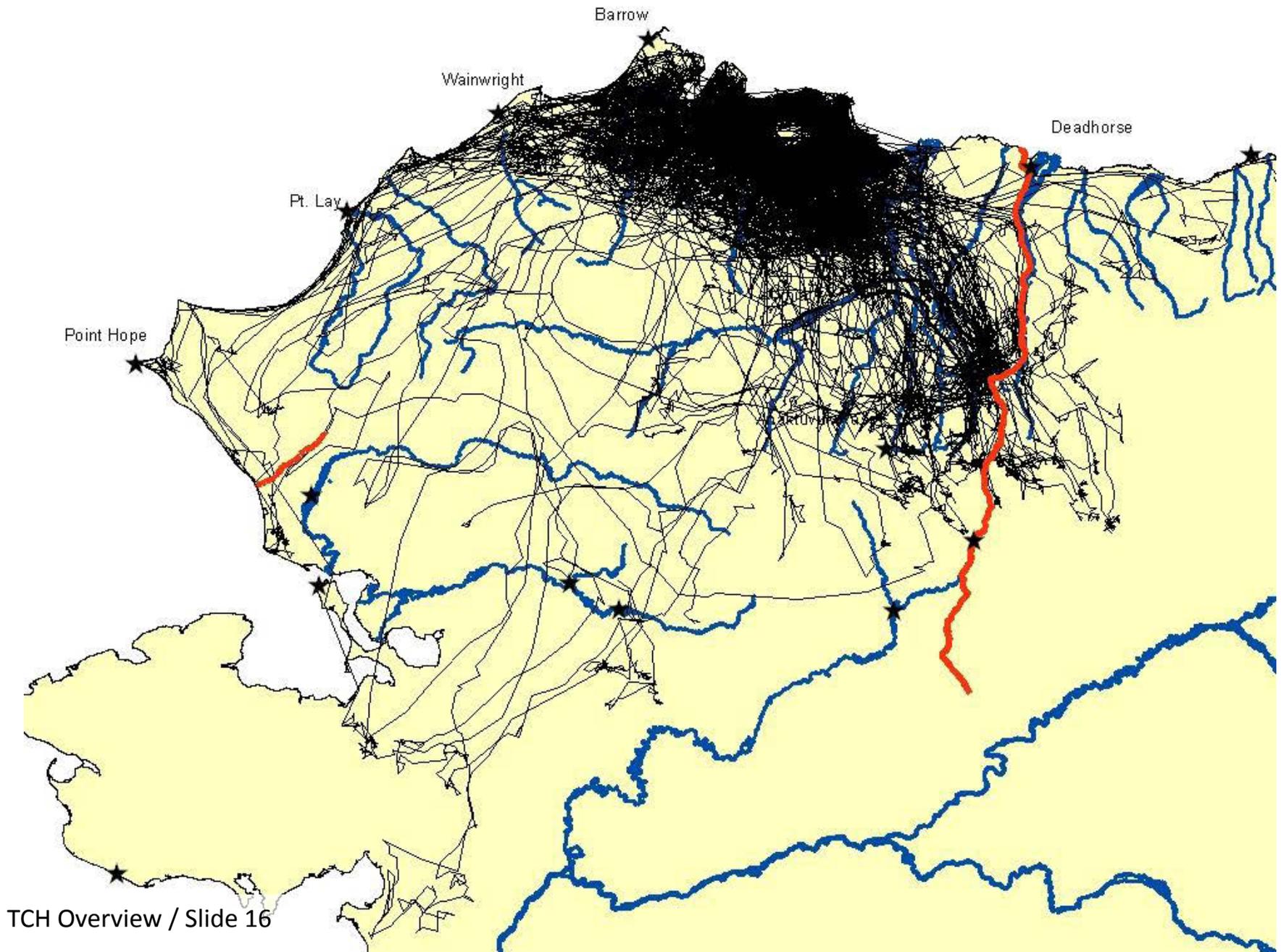
Stochastic Population Model 2008-2011



Stochastic Population Model 2008-2015



Interpolated Paths of TCH Satellite Collared Caribou



Health Assessments and Body Condition

March 2009 – Red Dog



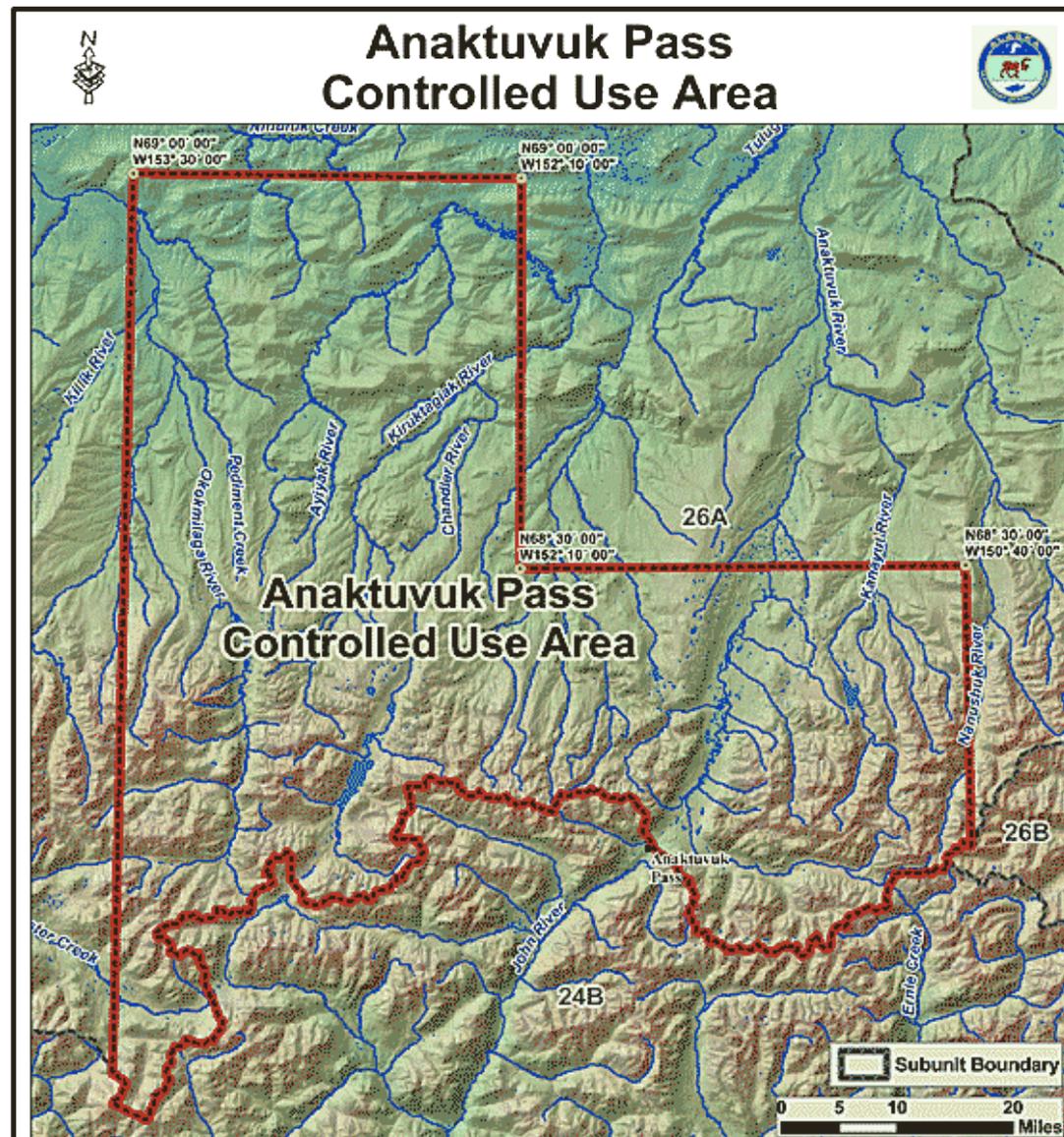
June 2009 - Teshekpuk



- Incidence of disease and parasites were generally low
- Body condition was mediocre, but normal for late winter and early summer
- We would like to do this more often and sample more caribou
- Weights of yearlings, corrected for capture date, have been constant since 1996

Discretionary Authority And Controlled Use Areas

- Discretionary authority is not used in any 26A caribou hunt management
- The Anaktuvuk Pass CUA prohibits aircraft use for caribou hunting Aug 15-Oct 15



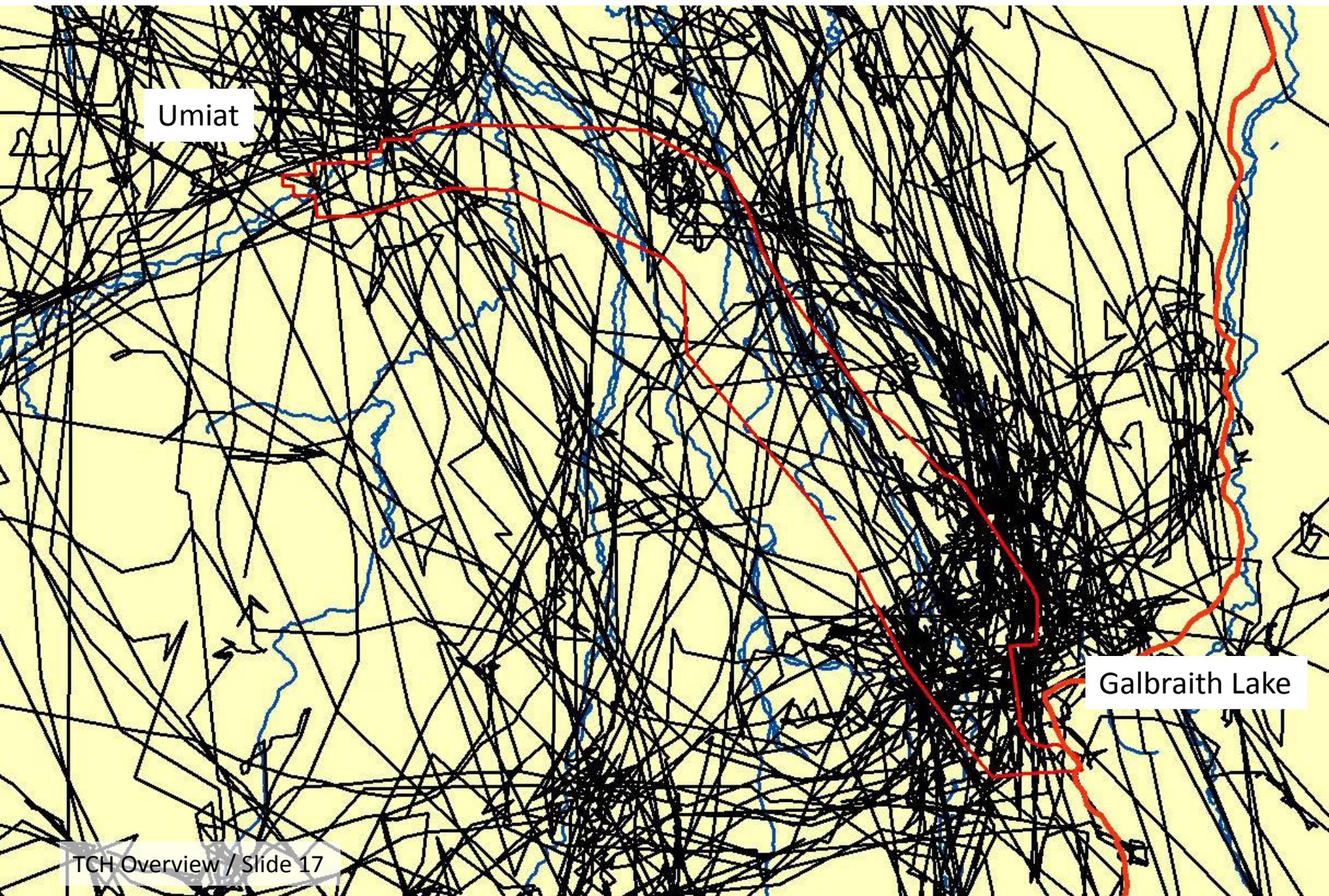
AREA DESCRIPTION FOR: Anaktuvuk Pass Controlled Use Area

In Unit 26A, the area consists of that portion of Unit 26(A) bounded by a line beginning at 153° 30' W. long., on the game management boundary between Units 24 and 26(A), north along 153° 30' W. long. to 69° N. lat., east along 69° N. lat. to 152° 10' W. long., south along 152° 10' W. long. to 68° 30' N. lat., east along 68° 30' N. lat. to 150° 40' W. long., south along 150° 40' W. long. to the game management boundary between Units 24 and 26(A), and westerly along the game management unit boundary to the point of origin at 153° 30' W. long.

(ii) The area is closed to the use of aircraft for hunting caribou, including the transportation of caribou hunters, their hunting gear, or parts of caribou from August 15 through October 15; however, this provision does not apply to the transportation of caribou hunters, their hunting gear, or parts of caribou by aircraft from publicly owned airports.



Paths of Satellite Collared Caribou Near the Galbraith-Umiat Road Corridor



Umiat

Galbraith Lake

TCH FALL MIGRATION



Legend

★ Villages

▭ Galbraith Road Study Corridor

▭ Dalton Highway Corridor

Intensity of Use during Migration

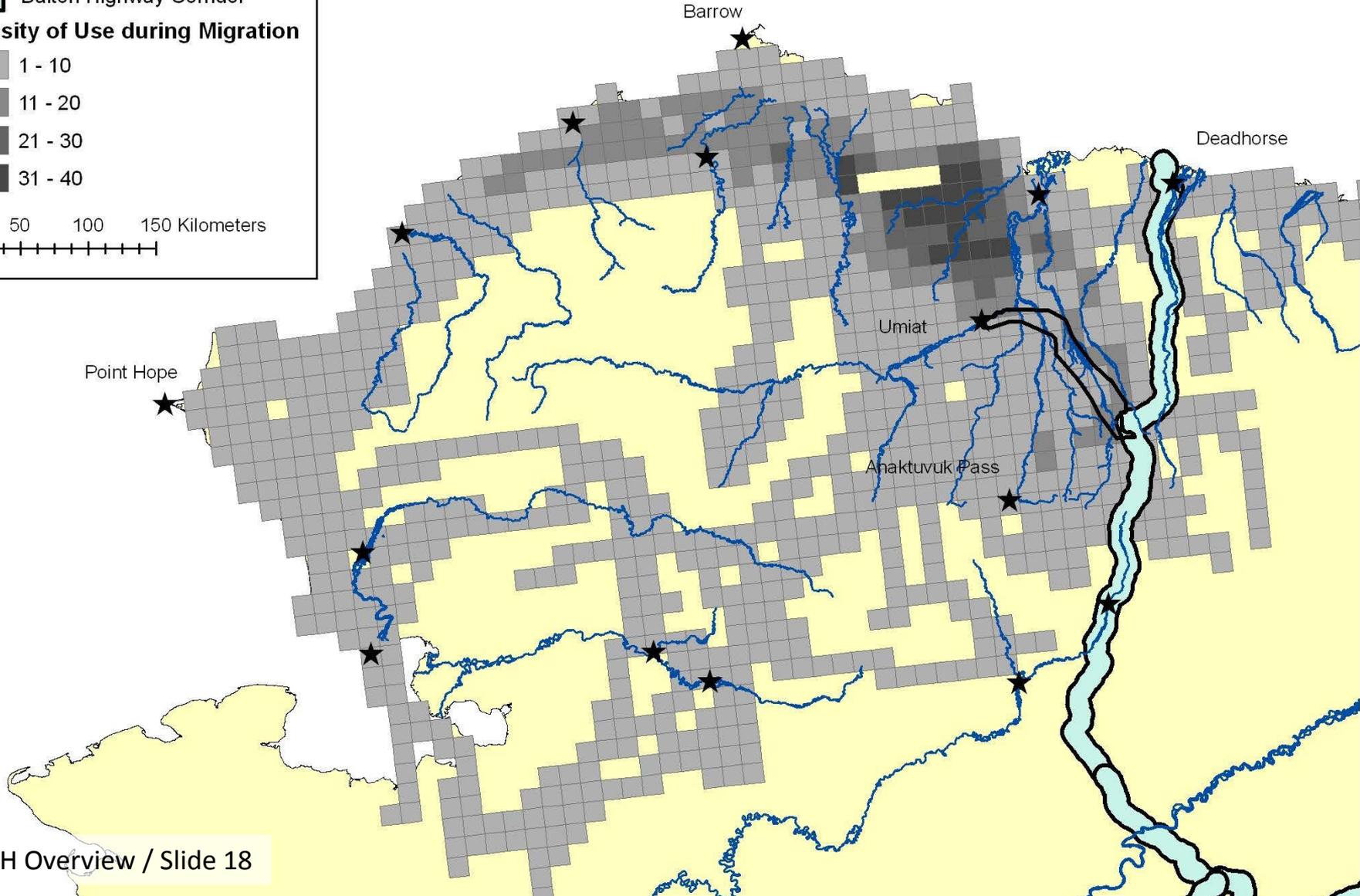
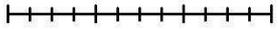
1 - 10

11 - 20

21 - 30

31 - 40

0 25 50 100 150 Kilometers

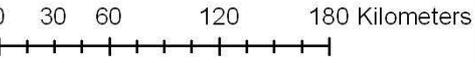


Legend

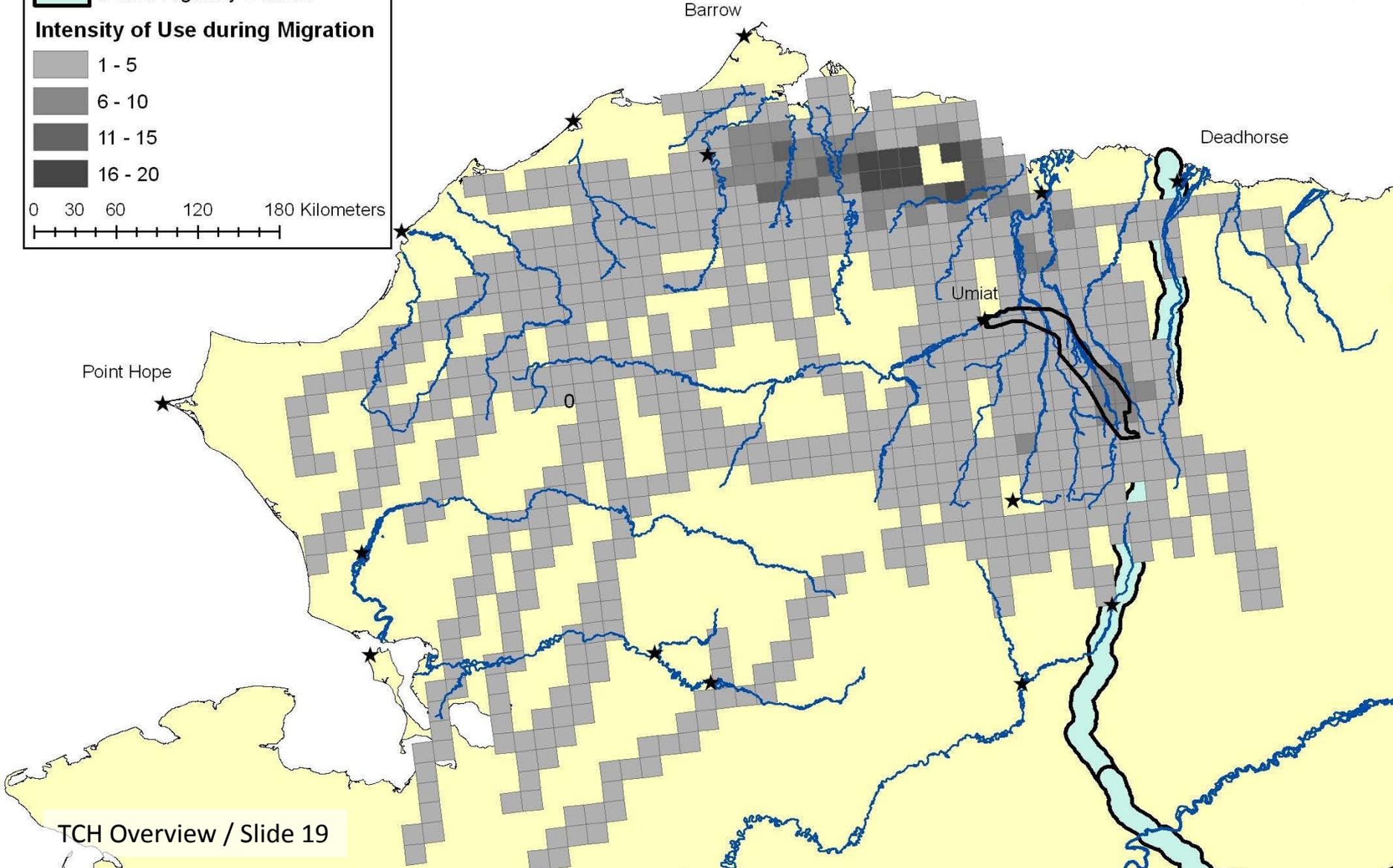
- ★ Villages
- ▭ Galbraith Road Study Corridor
- ▭ Dalton Highway Corridor

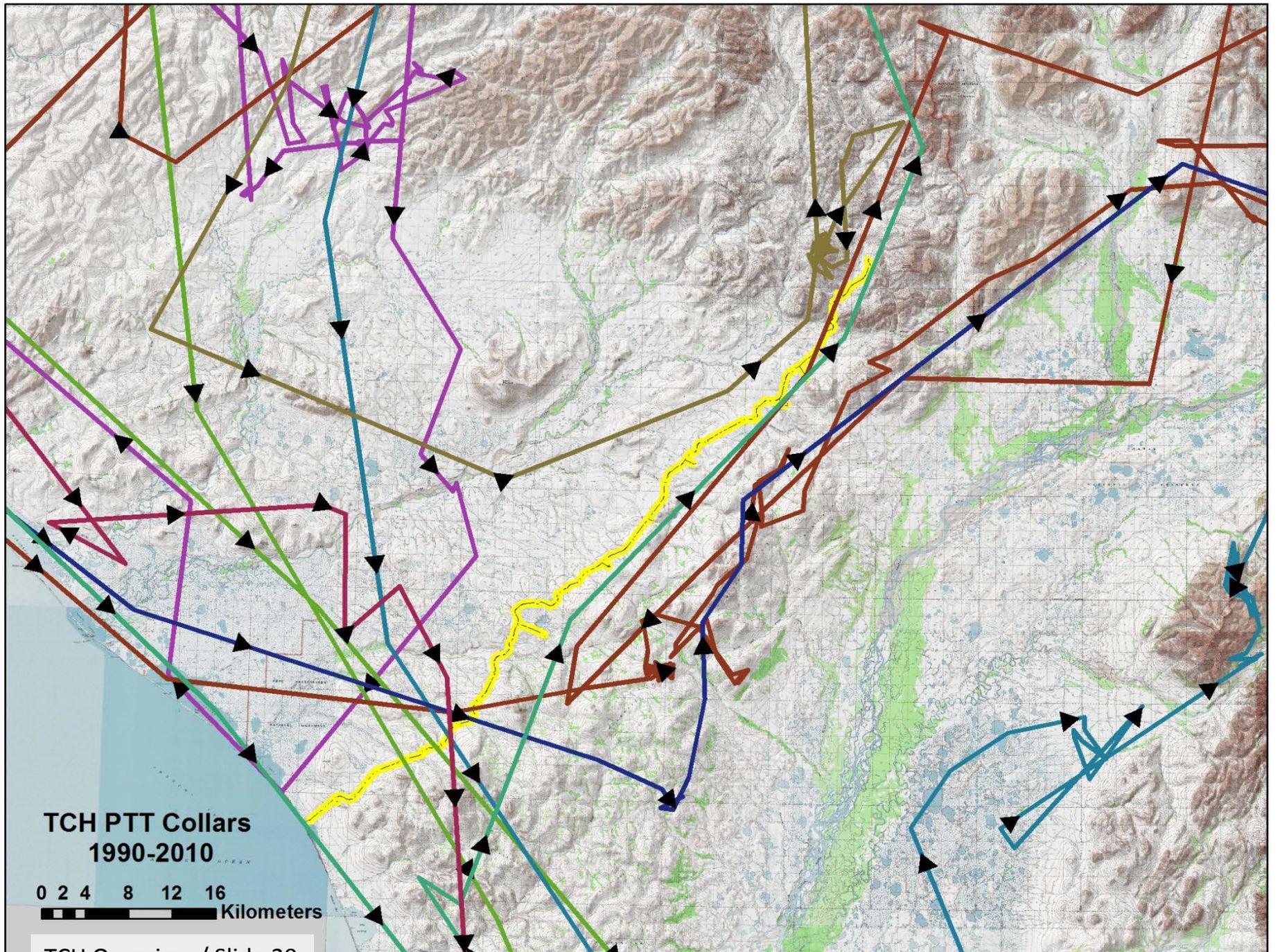
Intensity of Use during Migration

- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 20



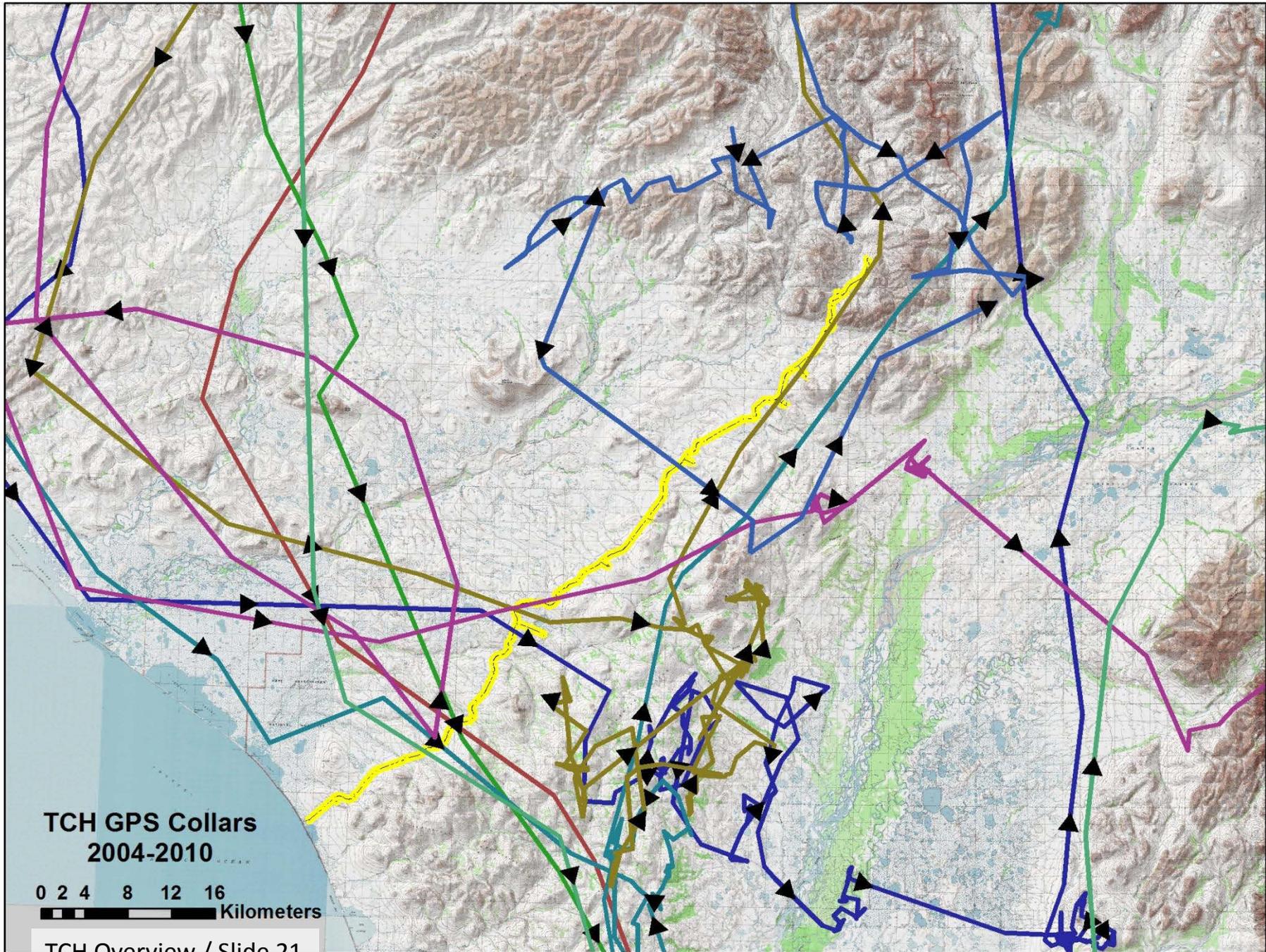
TCH SPRING MIGRATION





**TCH PTT Collars
1990-2010**

0 2 4 8 12 16
Kilometers



TCH GPS Collars
2004-2010

0 2 4 8 12 16
Kilometers

TCH Overview / Slide 21

- End -