

Region 5 Muskox Report



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Region 5


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Muskox Report

Introduction

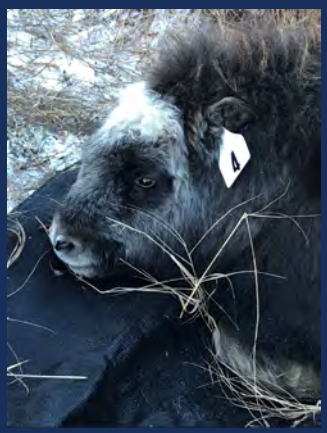
- Brief overview of completed projects
- Ongoing project in Unit 22
- Movements



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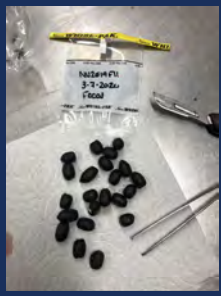
Completed: Muskox Drug Trial



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Completed: Unit 18 Nutrition




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Muskox Report

Nearly Completed: Unit 22 Neonate Survival

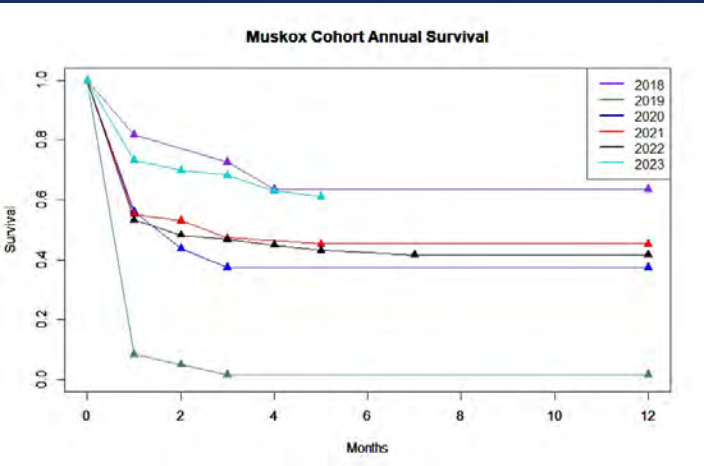


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Muskox Report

Nearly Completed: Unit 22 Neonate Survival




Year	0 Months	1 Month	2 Months	3 Months	4 Months	5 Months	7 Months	12 Months
2018	1.0	0.8	0.75	0.7	0.65	0.62	0.62	0.62
2019	1.0	0.1	0.05	0.02	0.01	0.01	0.01	0.01
2020	1.0	0.55	0.45	0.4	0.38	0.38	0.38	0.38
2021	1.0	0.55	0.5	0.48	0.45	0.45	0.45	0.45
2022	1.0	0.55	0.5	0.48	0.45	0.45	0.45	0.45
2023	1.0	0.75	0.7	0.68	0.65	0.62	0.62	0.62

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Muskox Report

Nearly Completed: Unit 22 Neonate Survival




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Muskox Report

Ongoing: Juvenile Female Survival



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Ongoing: Unit 22 Adult Female Survival Study

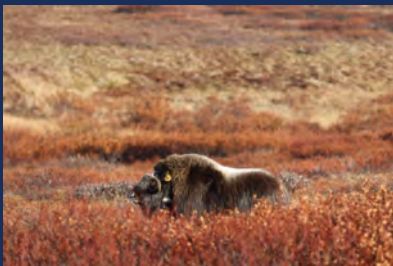


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Research Methods

- Early Research Goals
 - Maintain ~30 active collars/year
 - Monitor survival
 - Monitor movements
 - Supplement Abundance Surveys



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Research Methods

- Modified Research Goals
 - Recapture all to deploy GPS collars
 - Improve:
 - Survival
 - Cause-specific mortality
 - Movements
 - Disease Surveillance
 - Supplement Abundance Survey
 - Assist with Composition Surveys



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Research Methods

- Chemically immobilize muskox
- Monitor heart and respiratory rates, temperature
- Deploy collar
- Collect samples
- Weigh
- Release



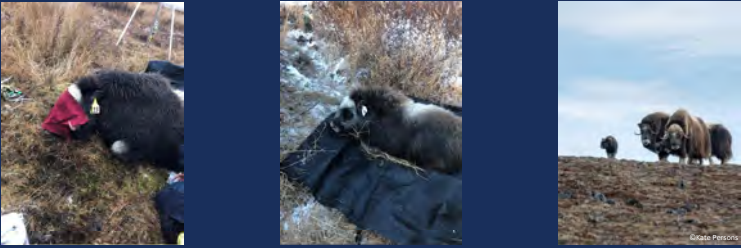
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Muskox Report

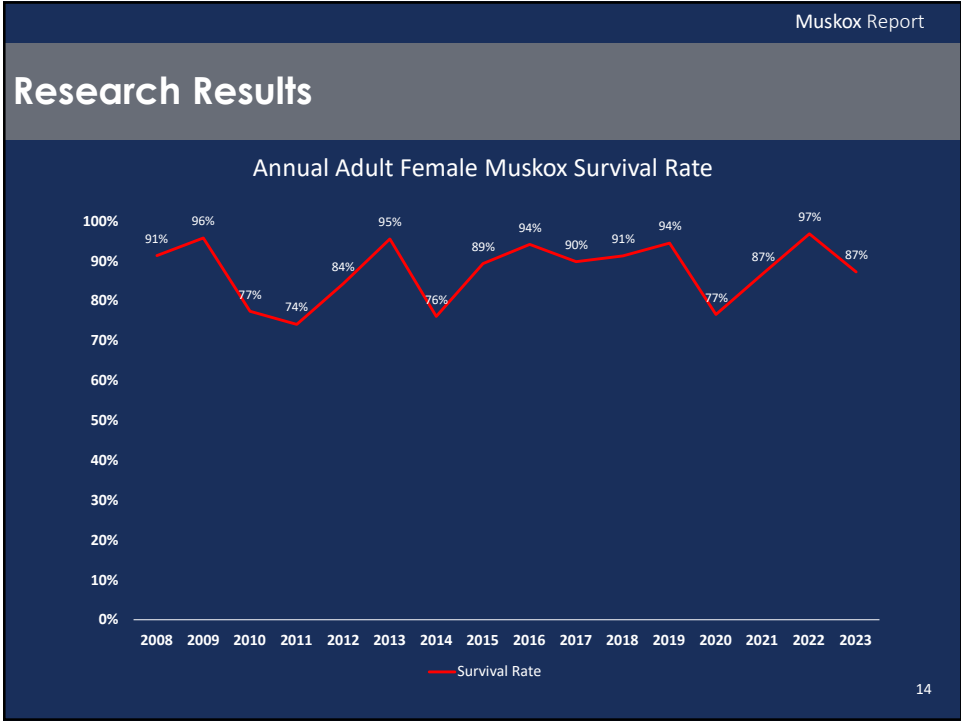
Results

- 112 adult muskox collared between 2008 – 2023
 - 23 recaptured
 - 41 currently on air
- 45 juvenile female muskox collared 2019 – 2023
 - 32 currently on air
 - 17 recaptured with GPS collar



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Research Results

Adult Female Mortalities

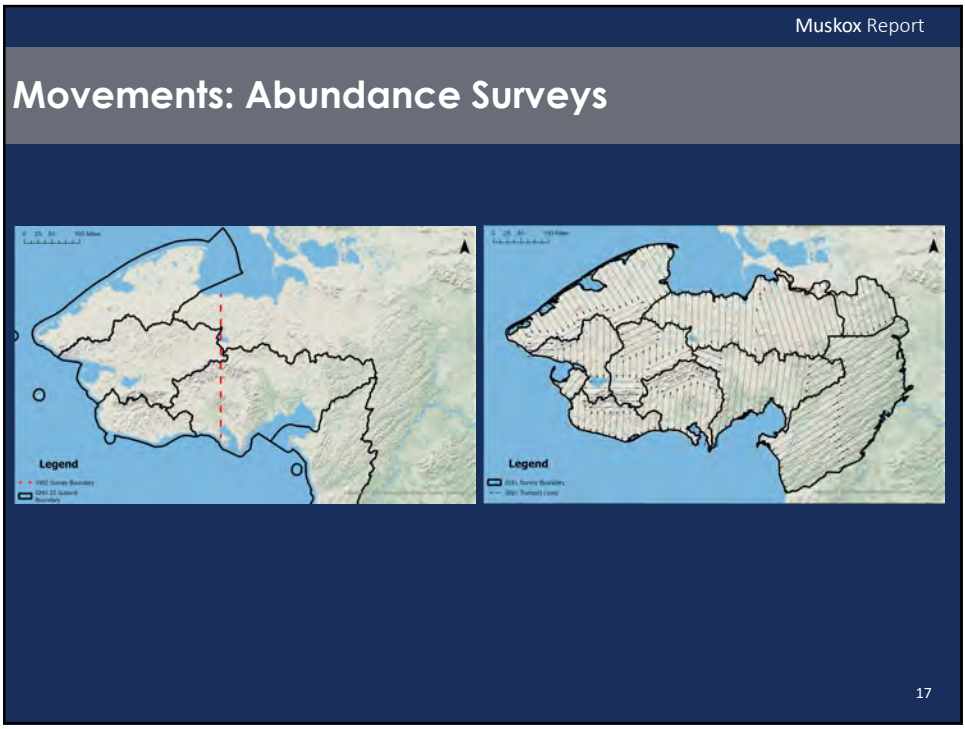


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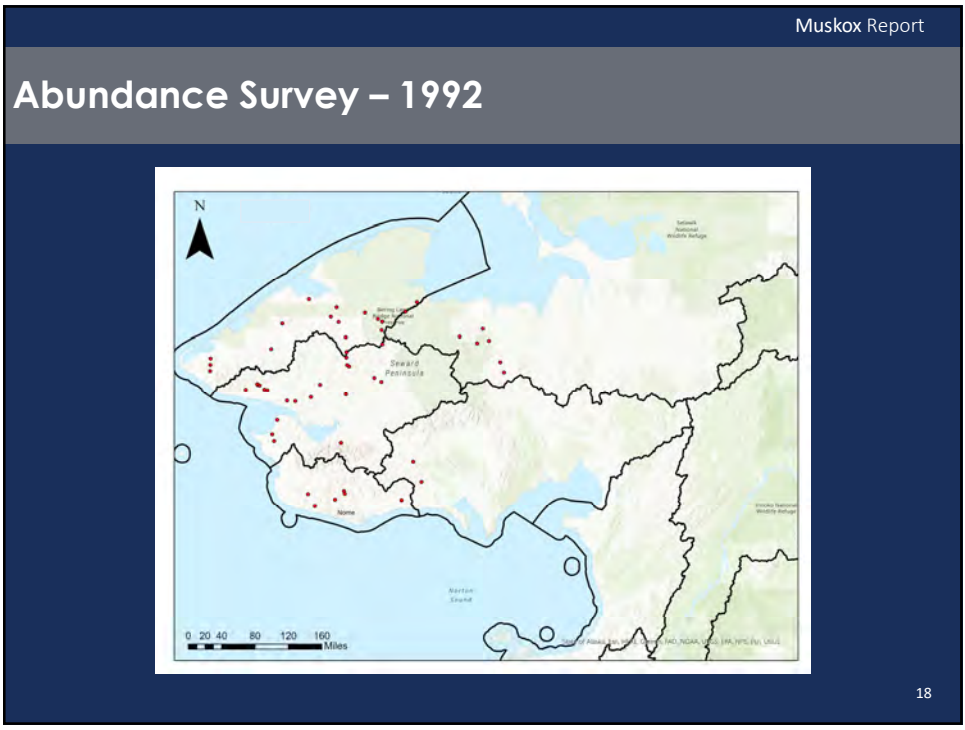
Movements: Abundance Surveys



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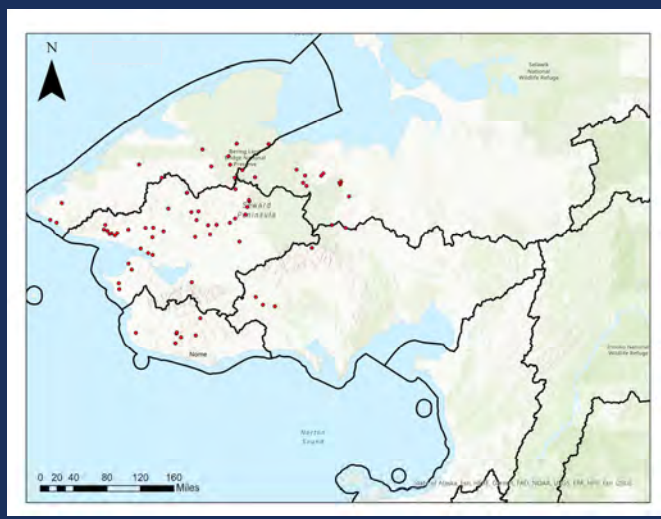


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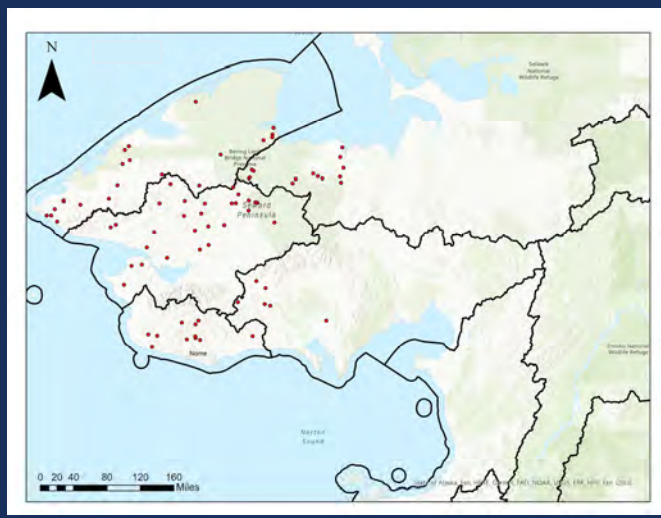
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Abundance Survey – 1994



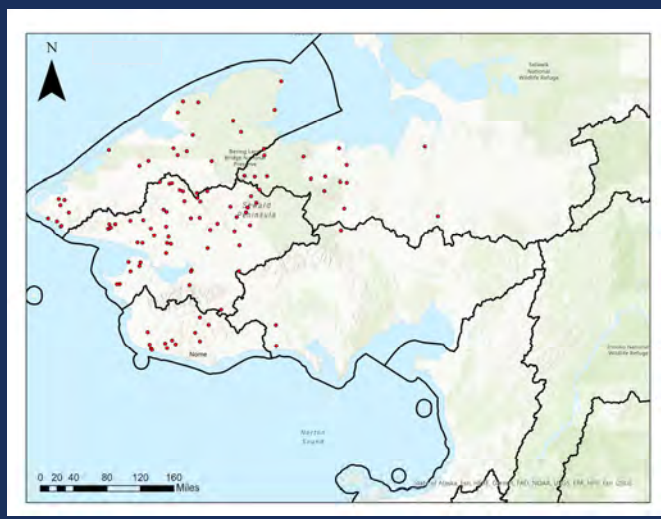
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Abundance Survey – 1996



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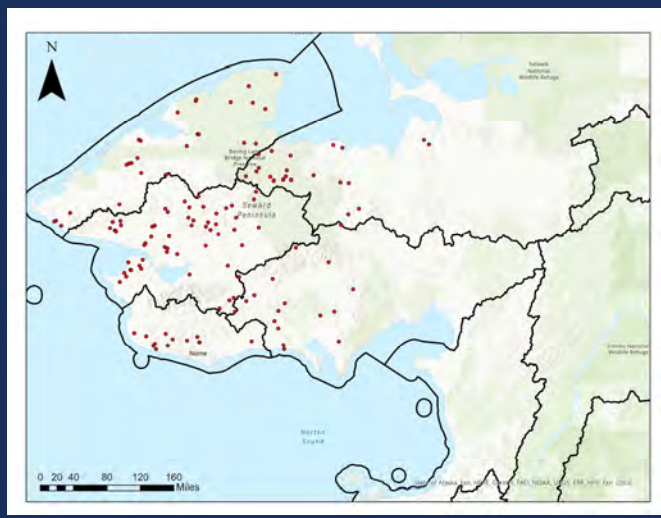
Abundance Survey – 1998



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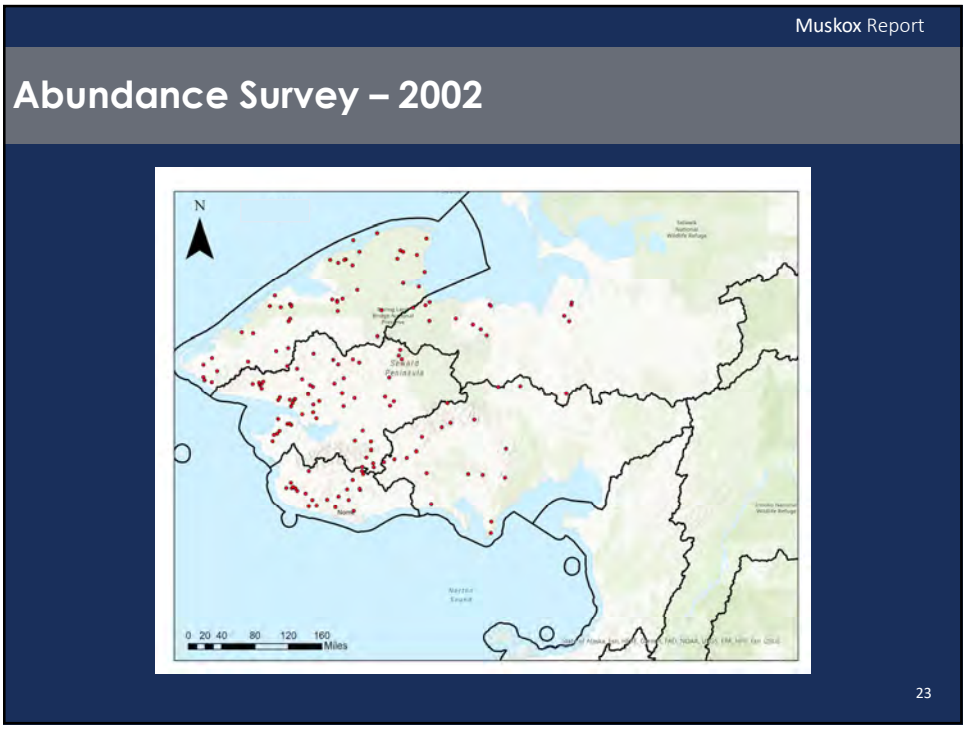
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Abundance Survey – 2000

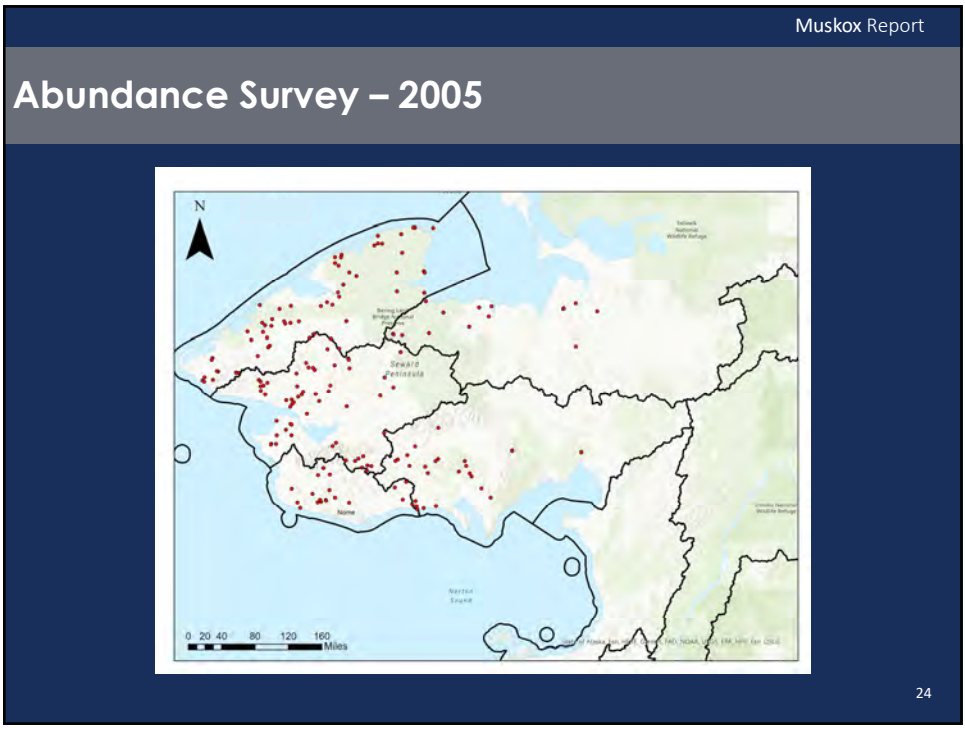


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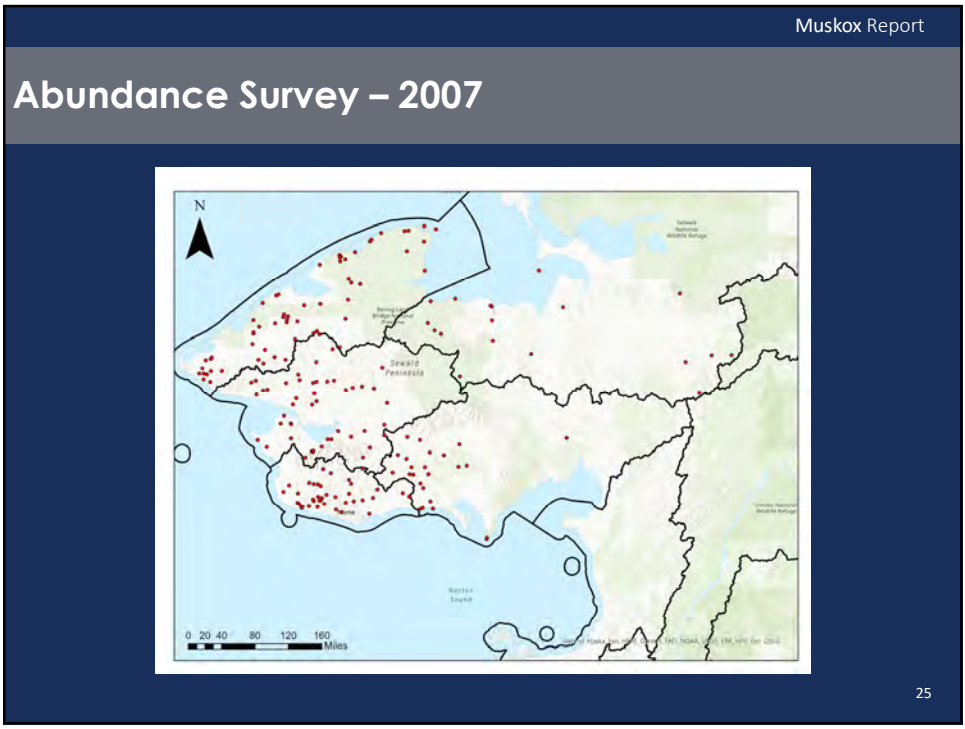
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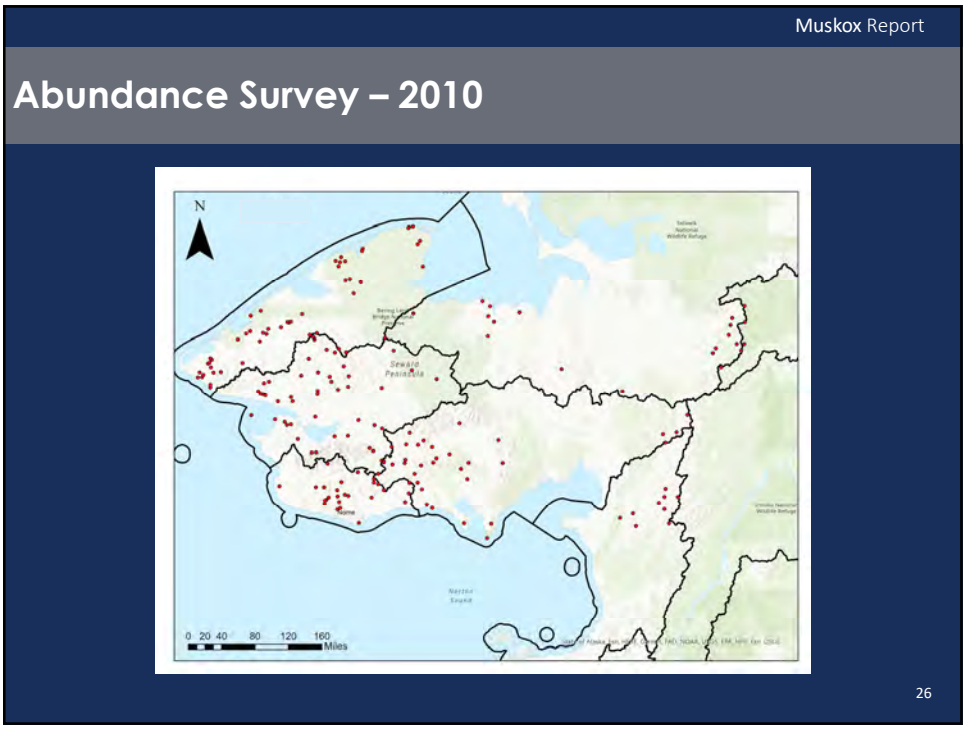
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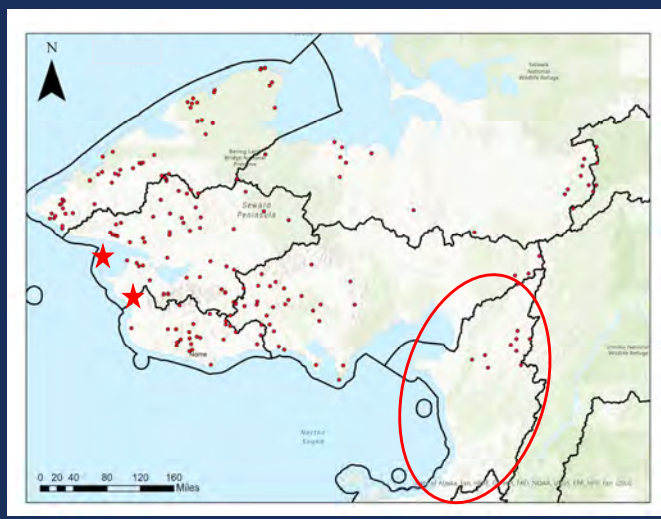


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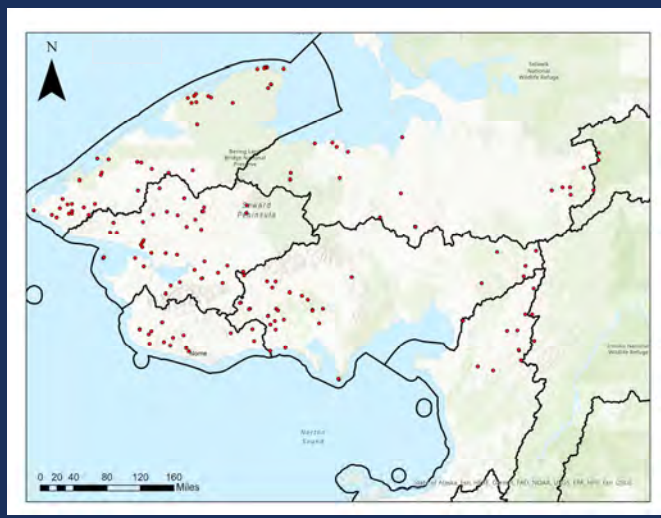
Abundance Survey – 2010



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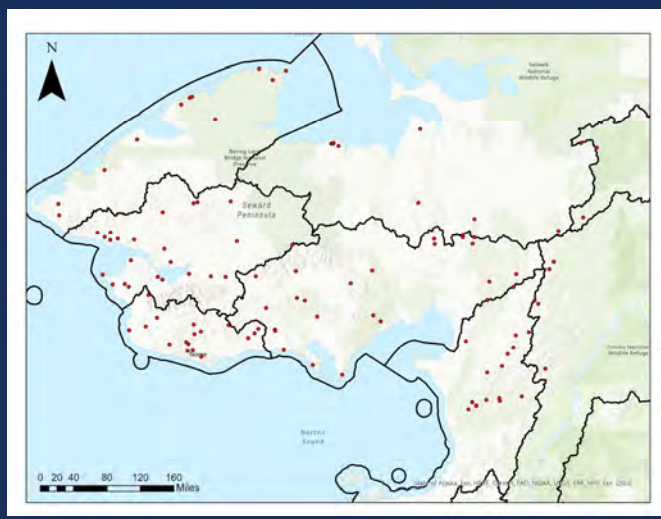
Abundance Survey – 2012



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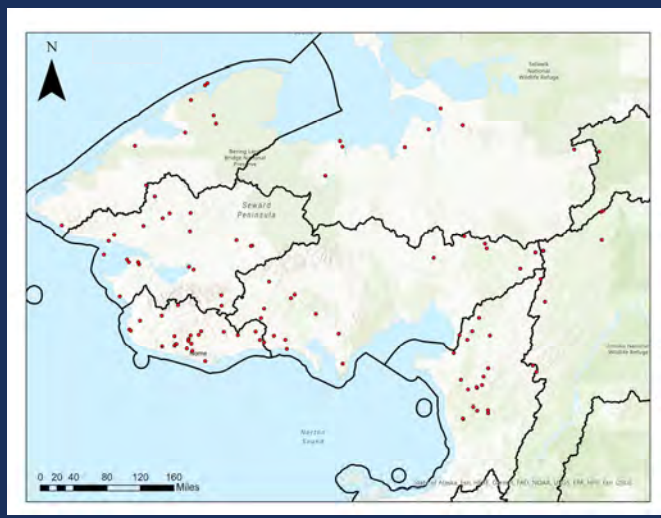
Abundance Survey – 2015



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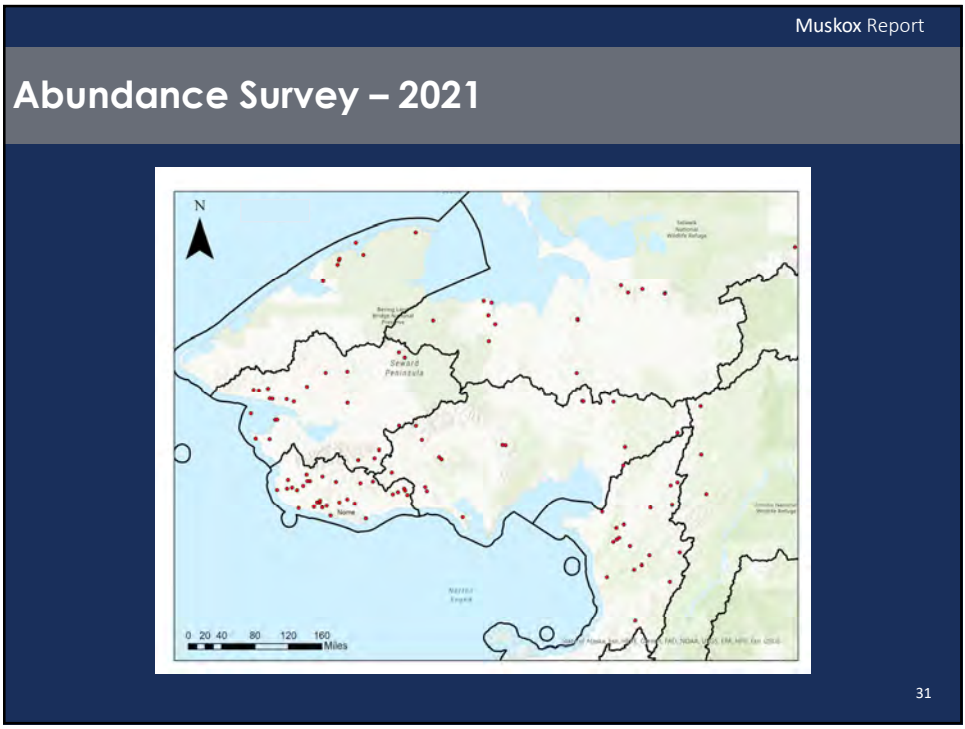
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Abundance Survey – 2017

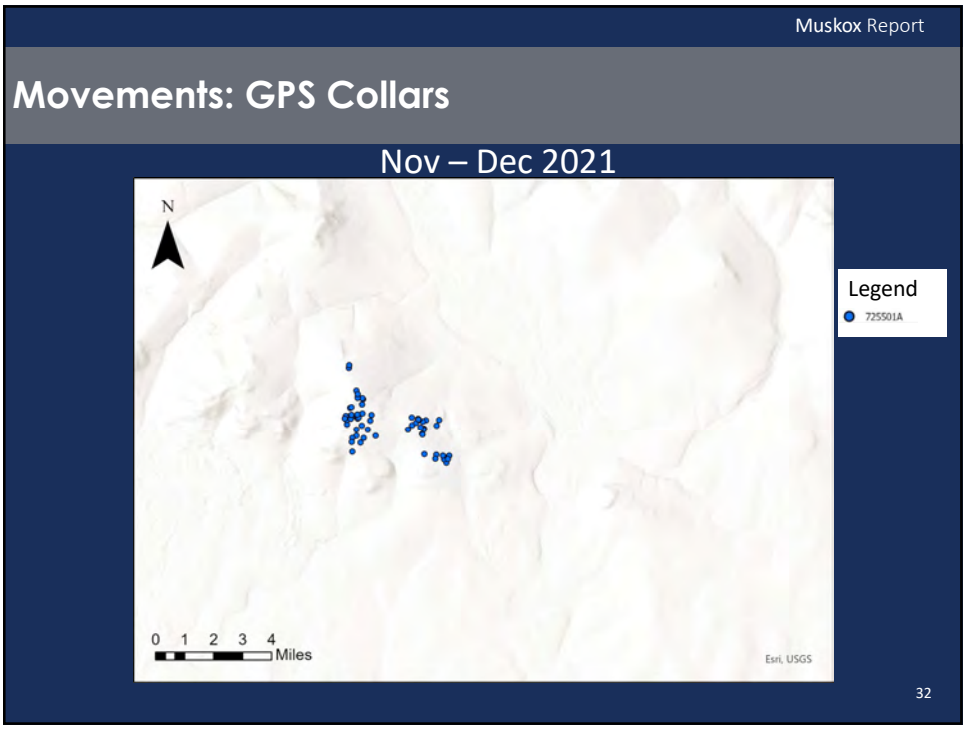


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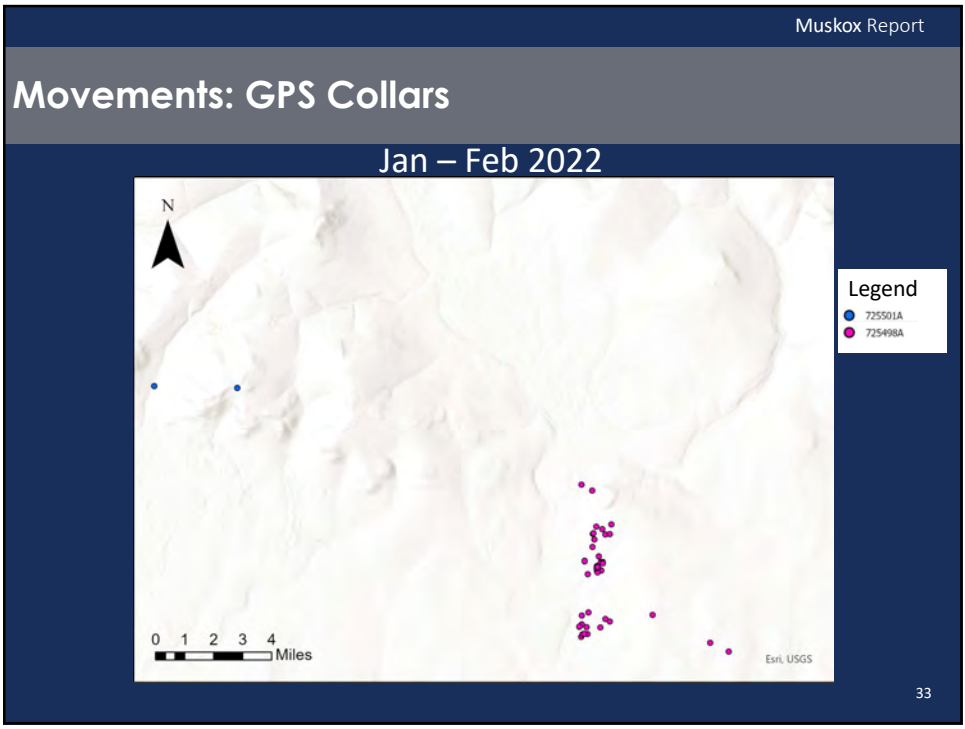
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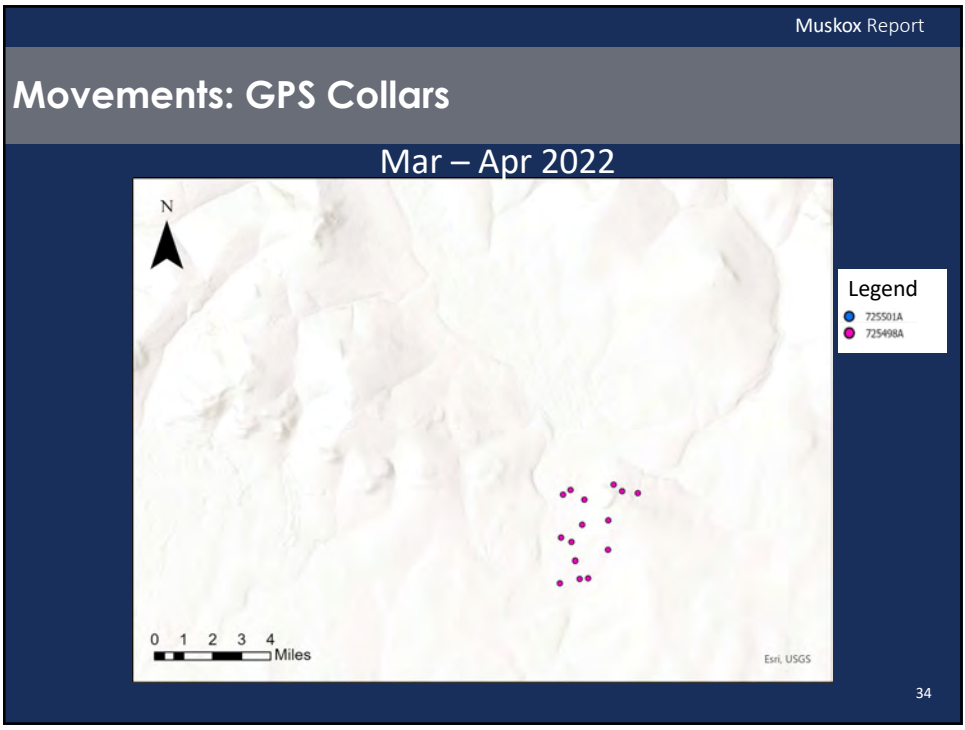
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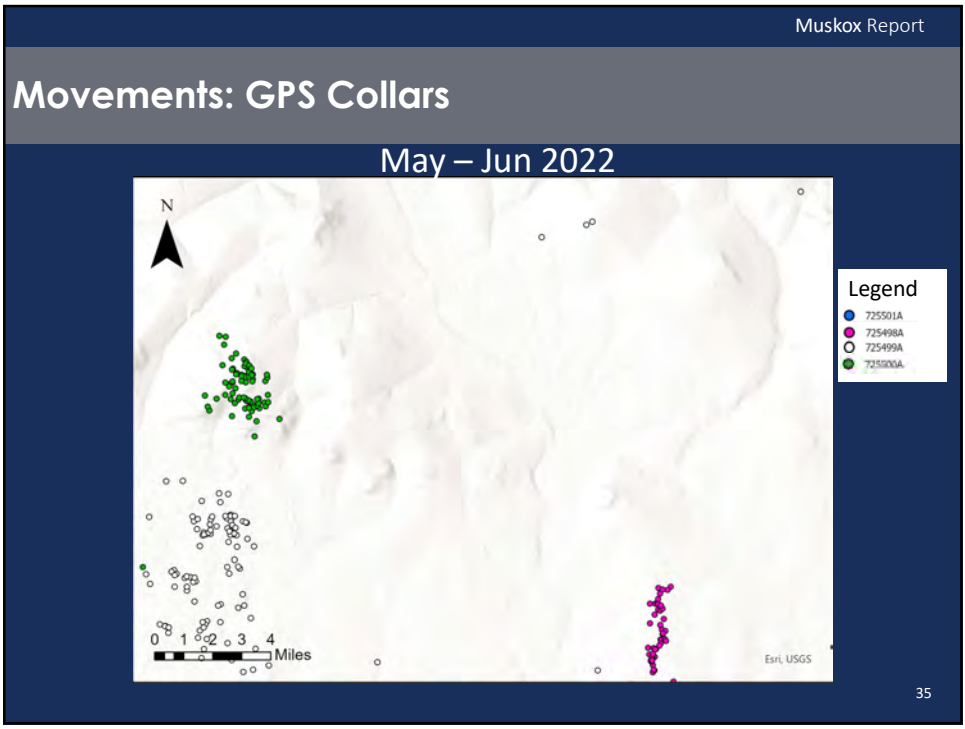
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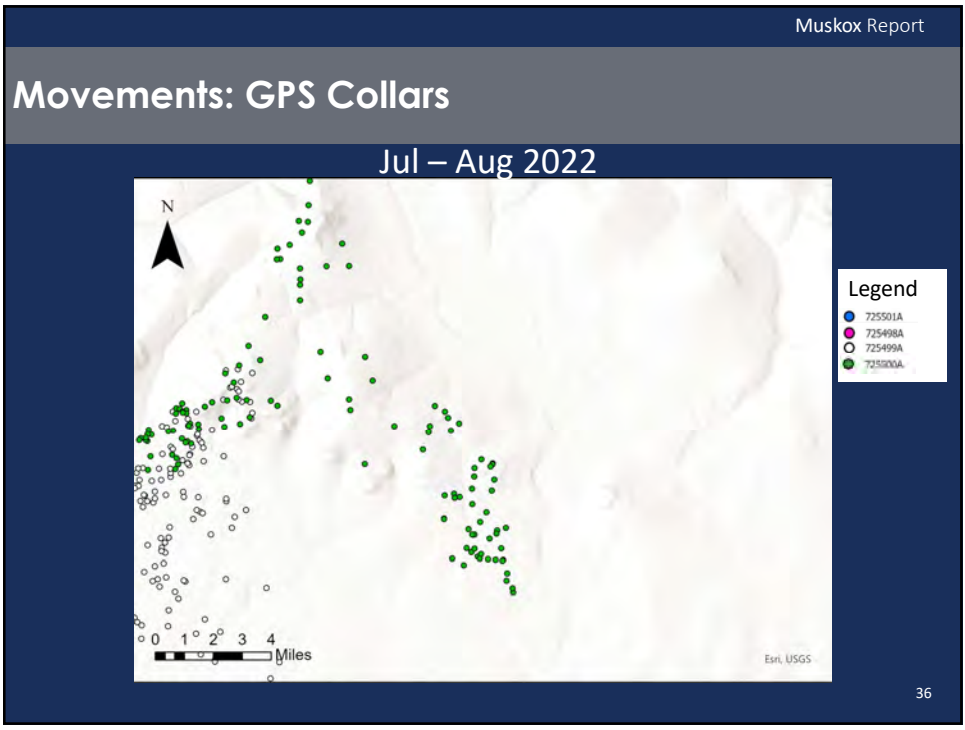
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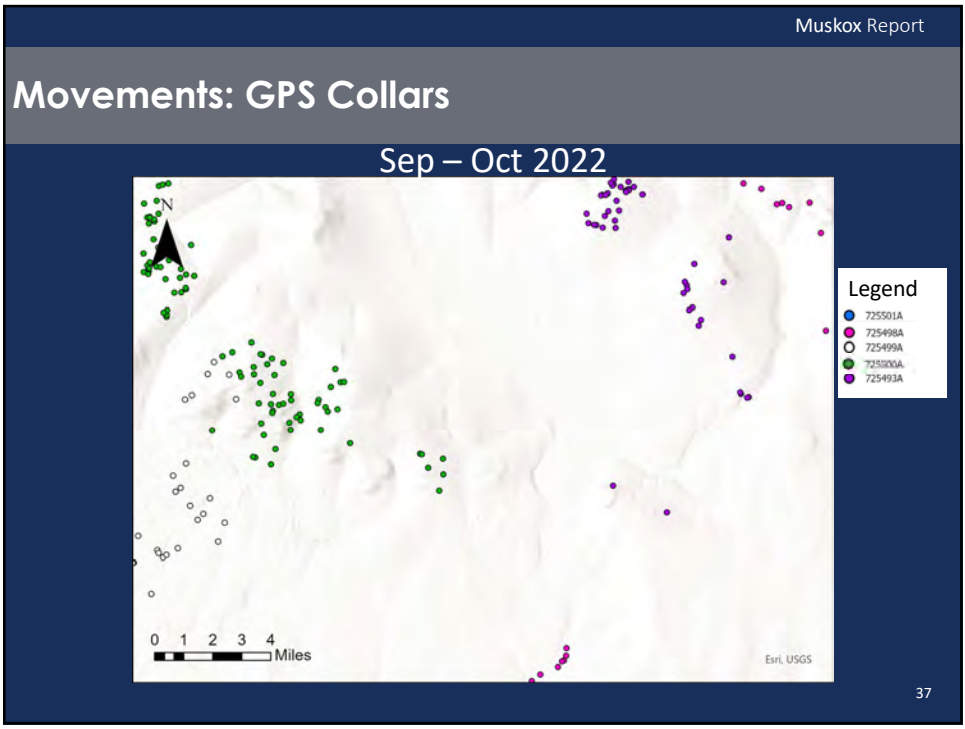
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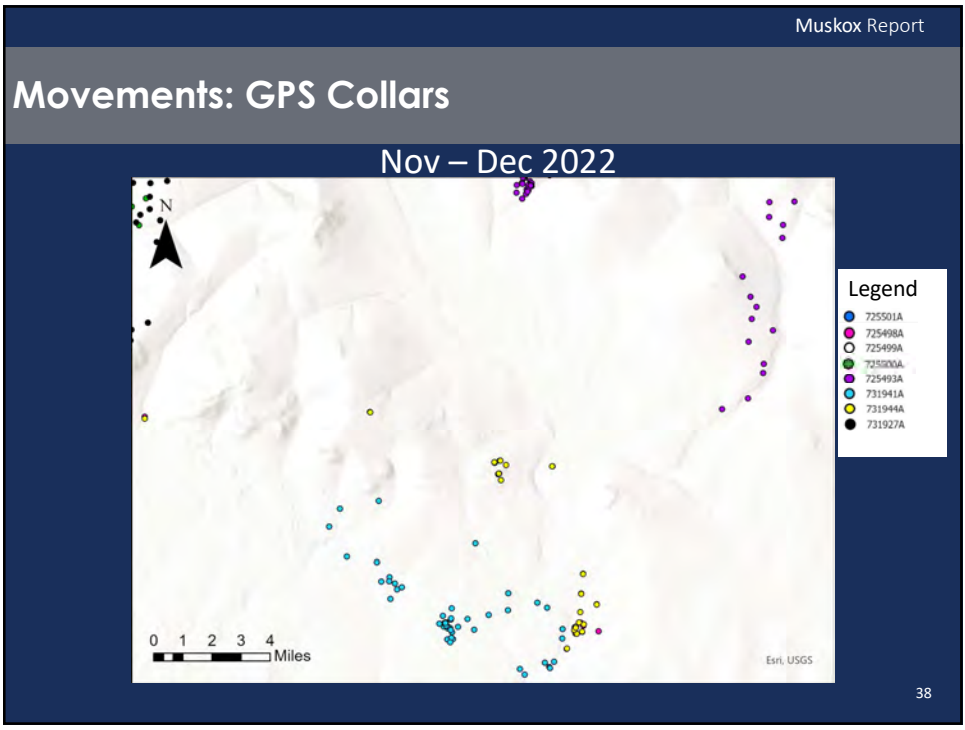
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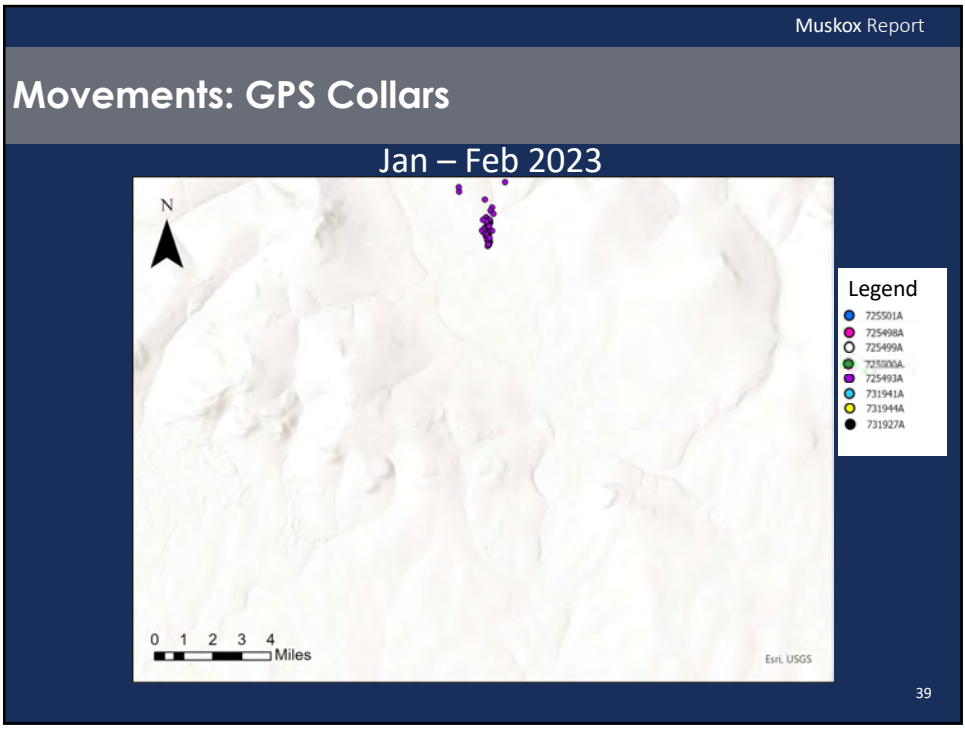
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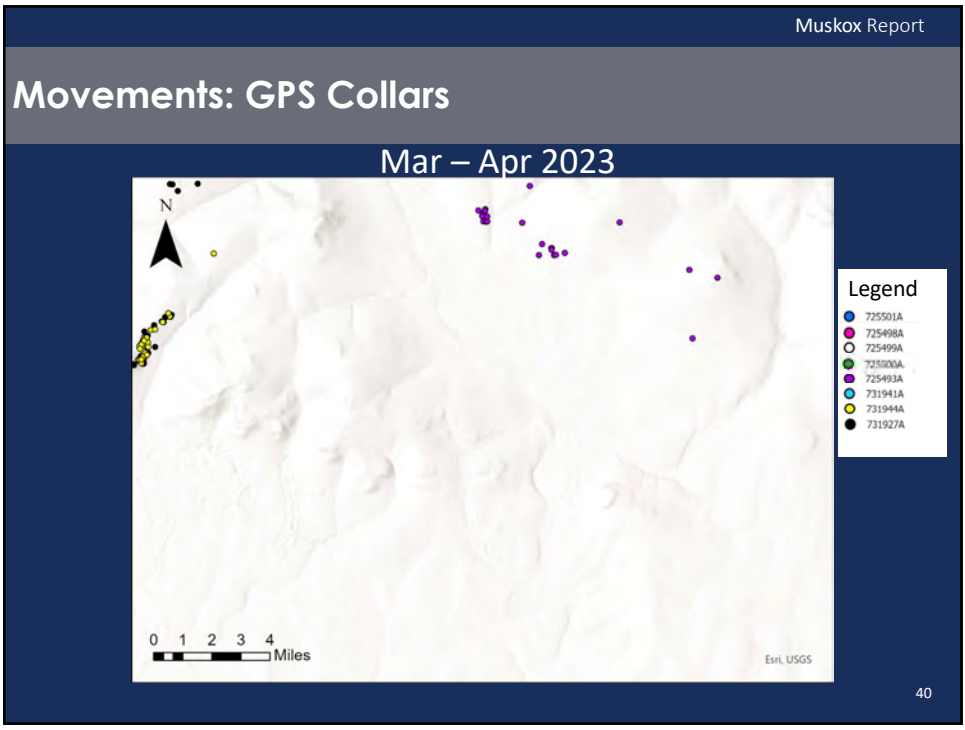
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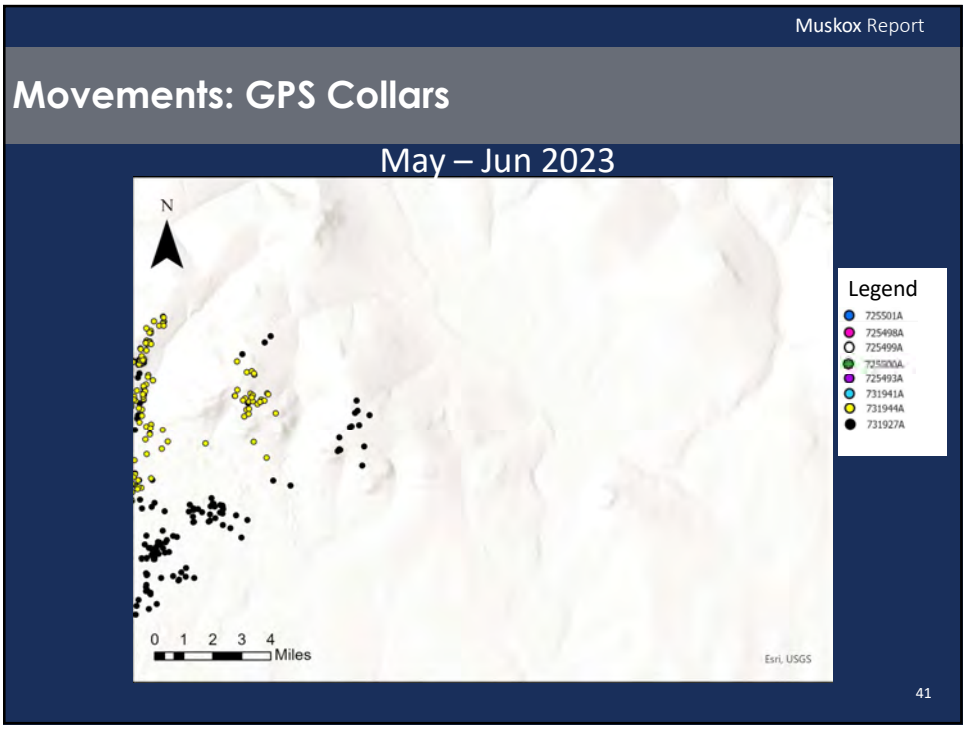
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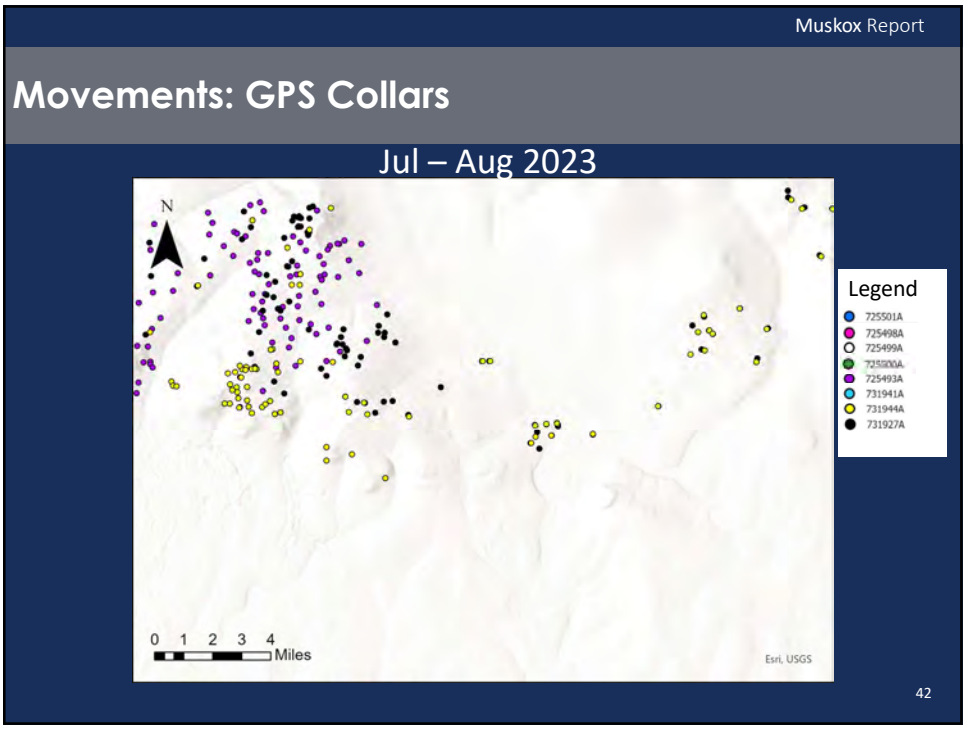
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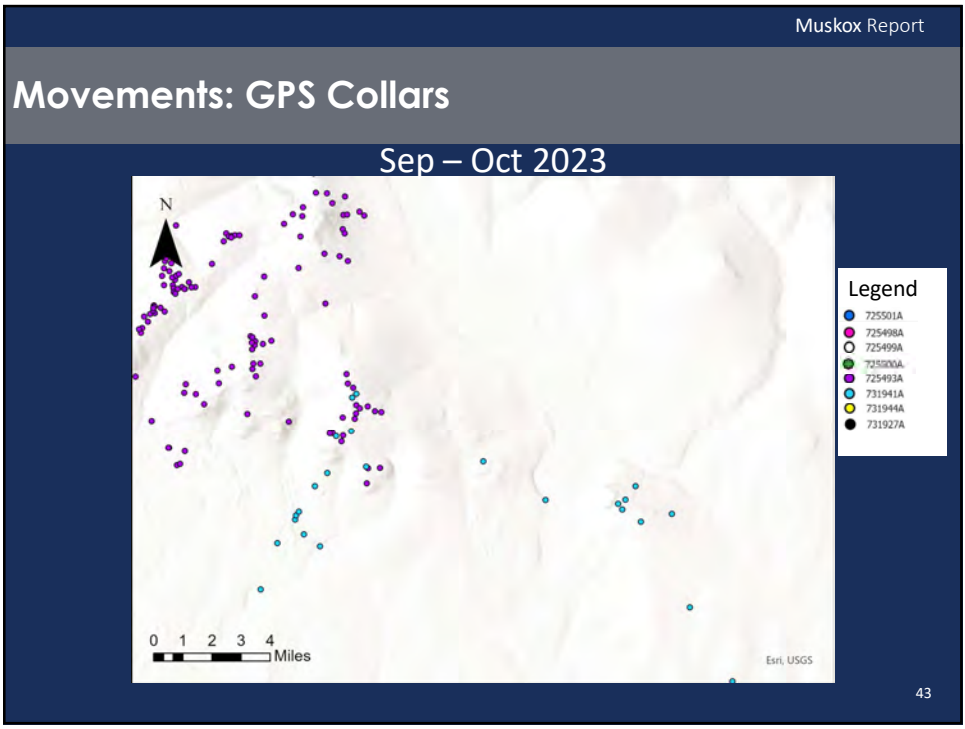
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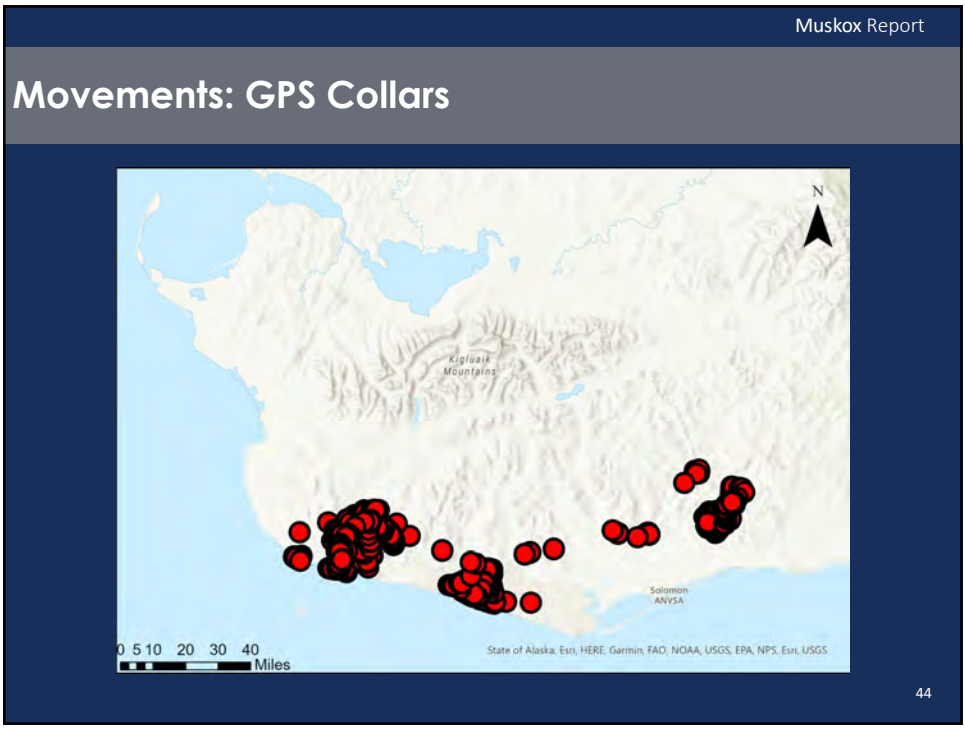
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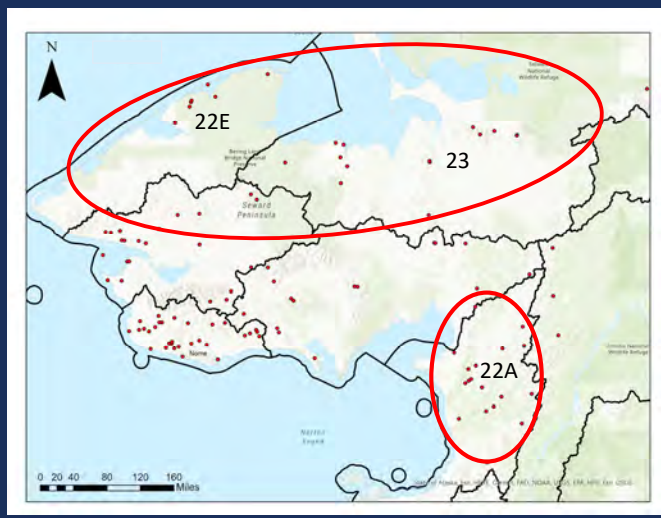
Movements: GPS Collars



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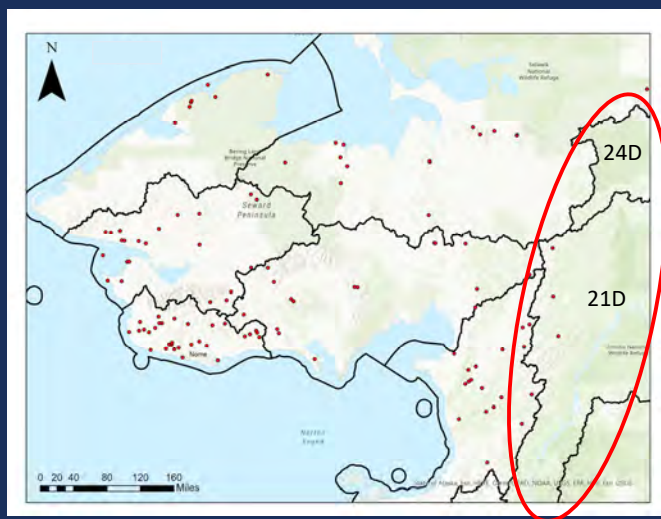
What's Next?



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What's Next?



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What's Next?



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Thank you!



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