



Elodea in Alaska and Alexander Lake: *Eradication Successes and What's Next*

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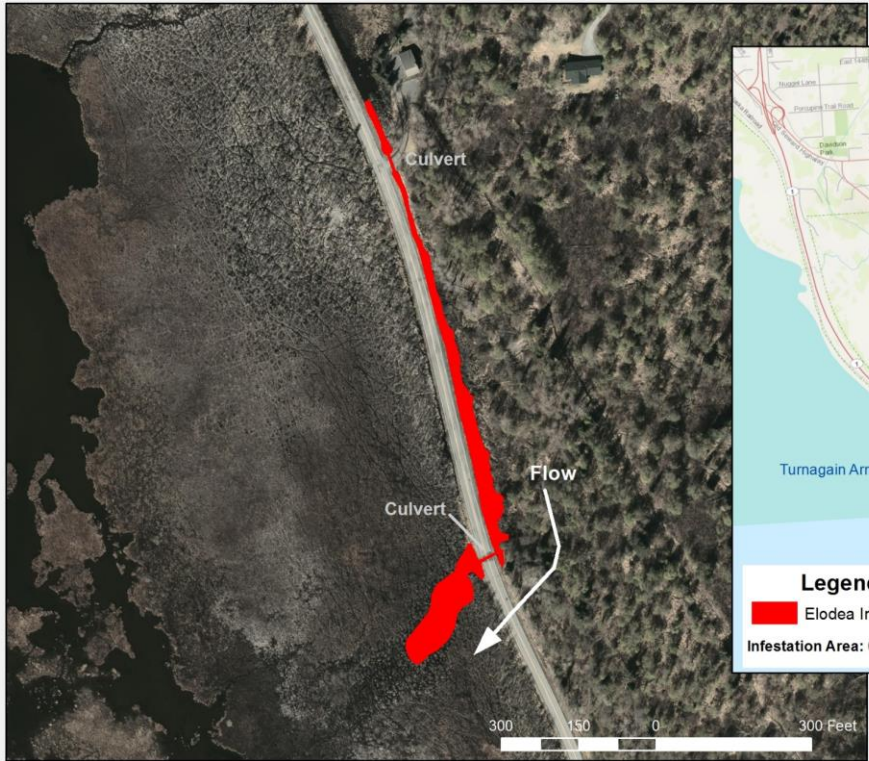
Why do we care?





Potter's Marsh

October 2016 Elodea Survey



Statewide Elodea Eradication Efforts

- ***Kenai:***

- Stormy, Daniels, Beck lakes treated in 2014
- Spot treatment in Stormy in 2015
- NO ELODEA in 2016

- ***Anchorage:***

- DeLong, Little Campbell, Sand lakes treated in 2015
- Lake Hood treated under Emergency Exemption in 2015
- NO ELODEA in 2016
 - except Potter Marsh



2 weeks



8 weeks



14 weeks

Kenai

Anchorage

5 weeks



3 weeks

necrosis



Statewide Elodea Eradication Efforts

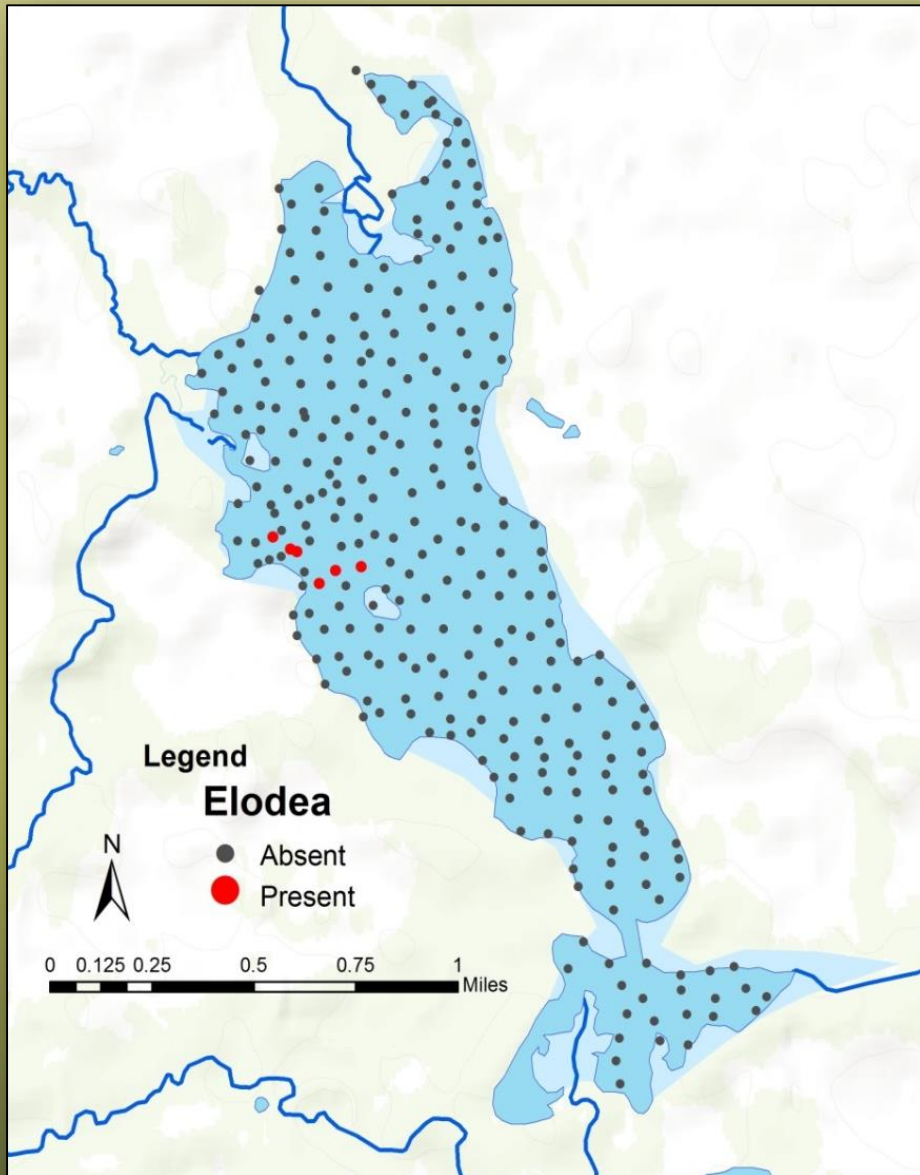
- ***Copper River Delta:***

- Small scale treatments in 2 unnamed ponds and 1 slough in 2016
- Extensive research on impacts

- ***Fairbanks:***

- Extensive outreach since 2011
- Seeking additional funding
- *Received DEC PUP last week*

In the Mat-Su: Alexander Lake



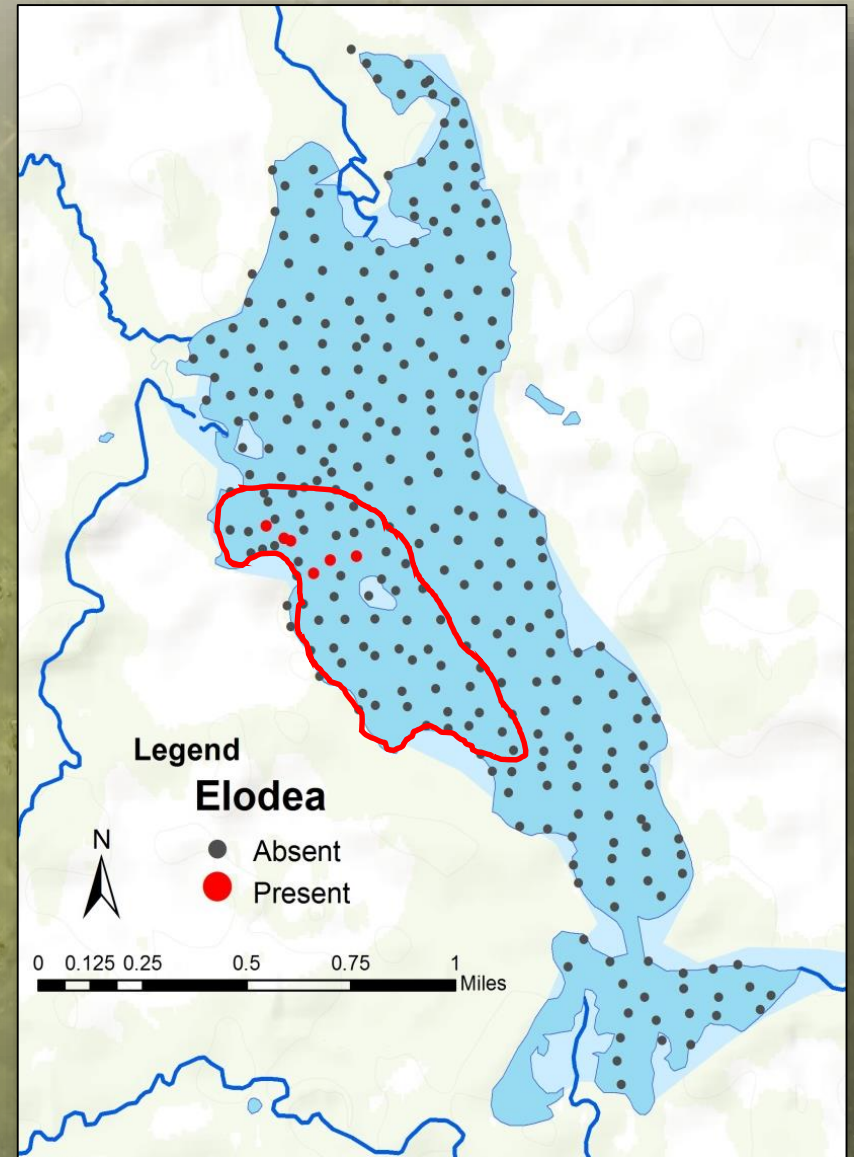
•2014:

- Discovered and surveyed
- 10 infested acres
- Treatment plan for 42 acres
- Fluridone*

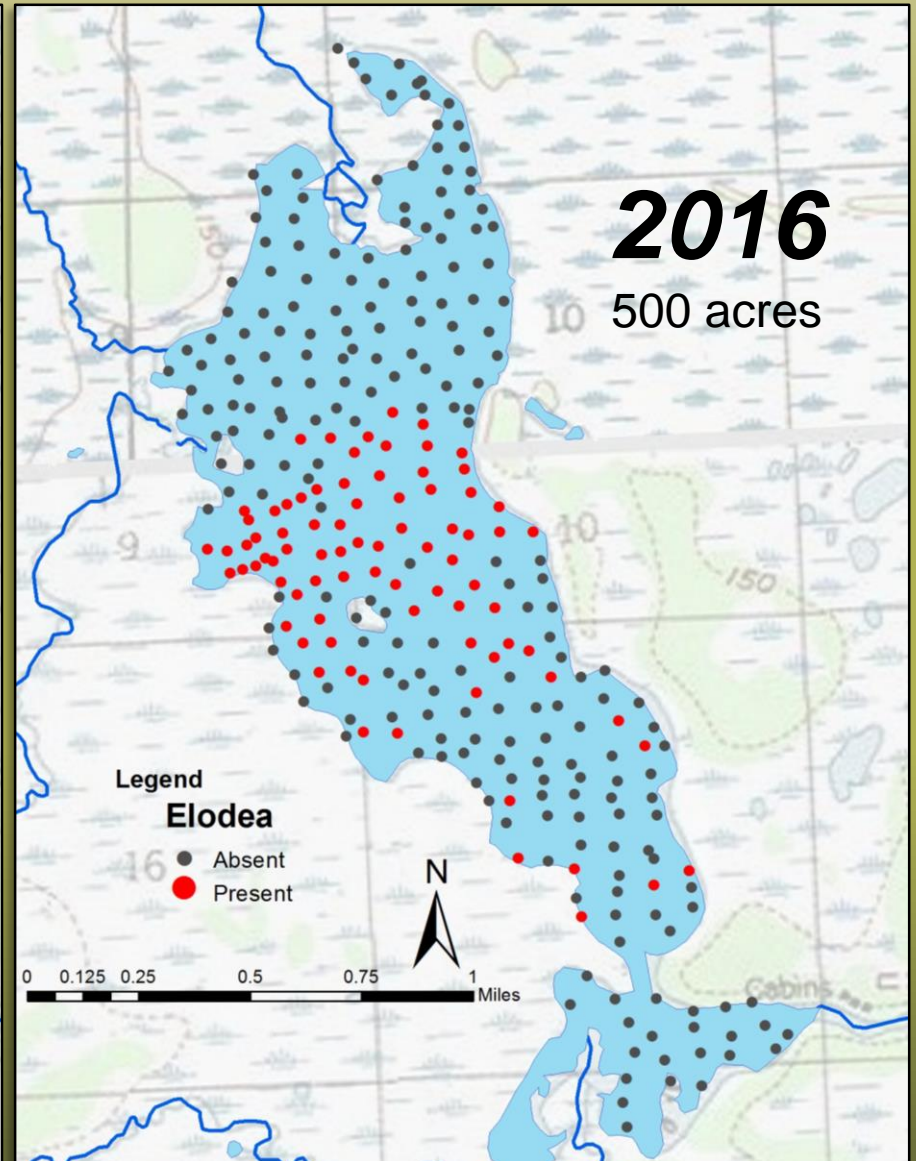
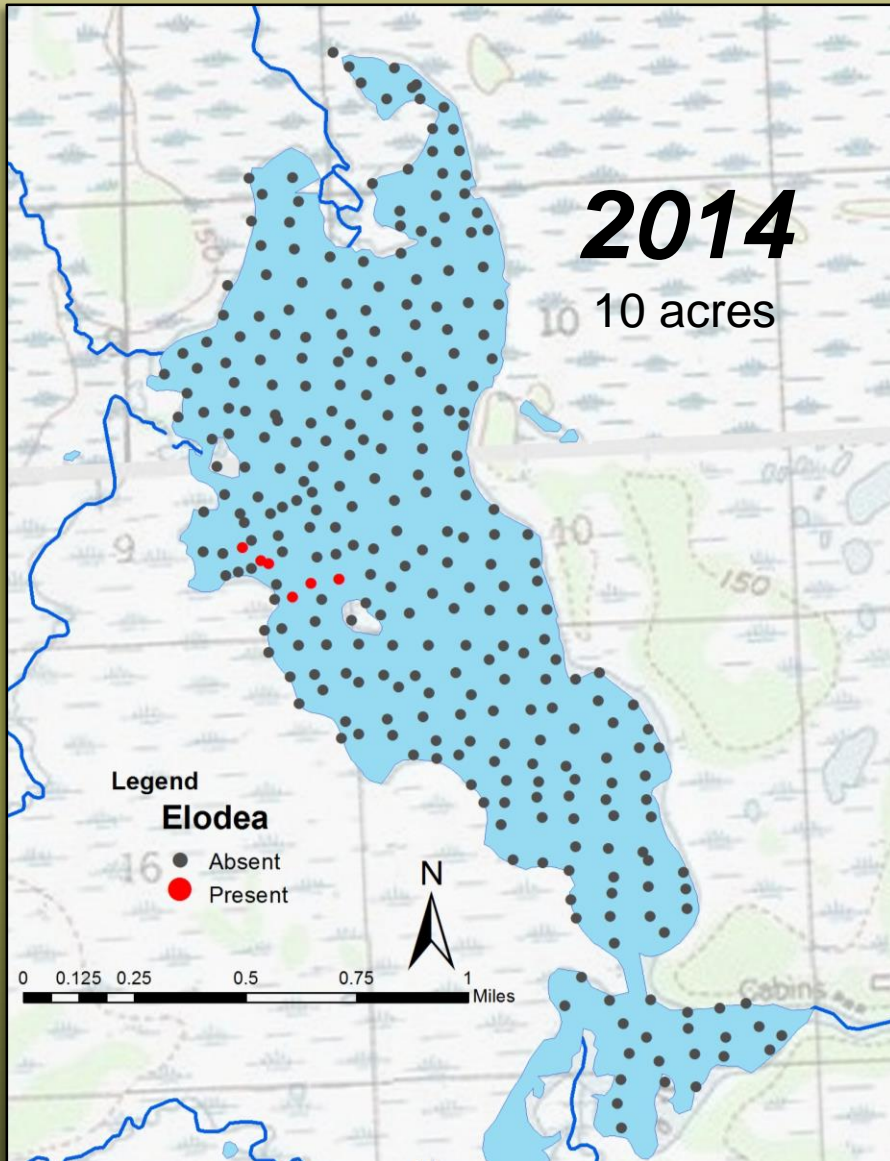
Alexander Lake

•2015:

- Received funding in late July from Mat-Su FHP (USFWS)
- Floatplane survey
- Elodea still isolated but more established
- Thicker patches, more fragments

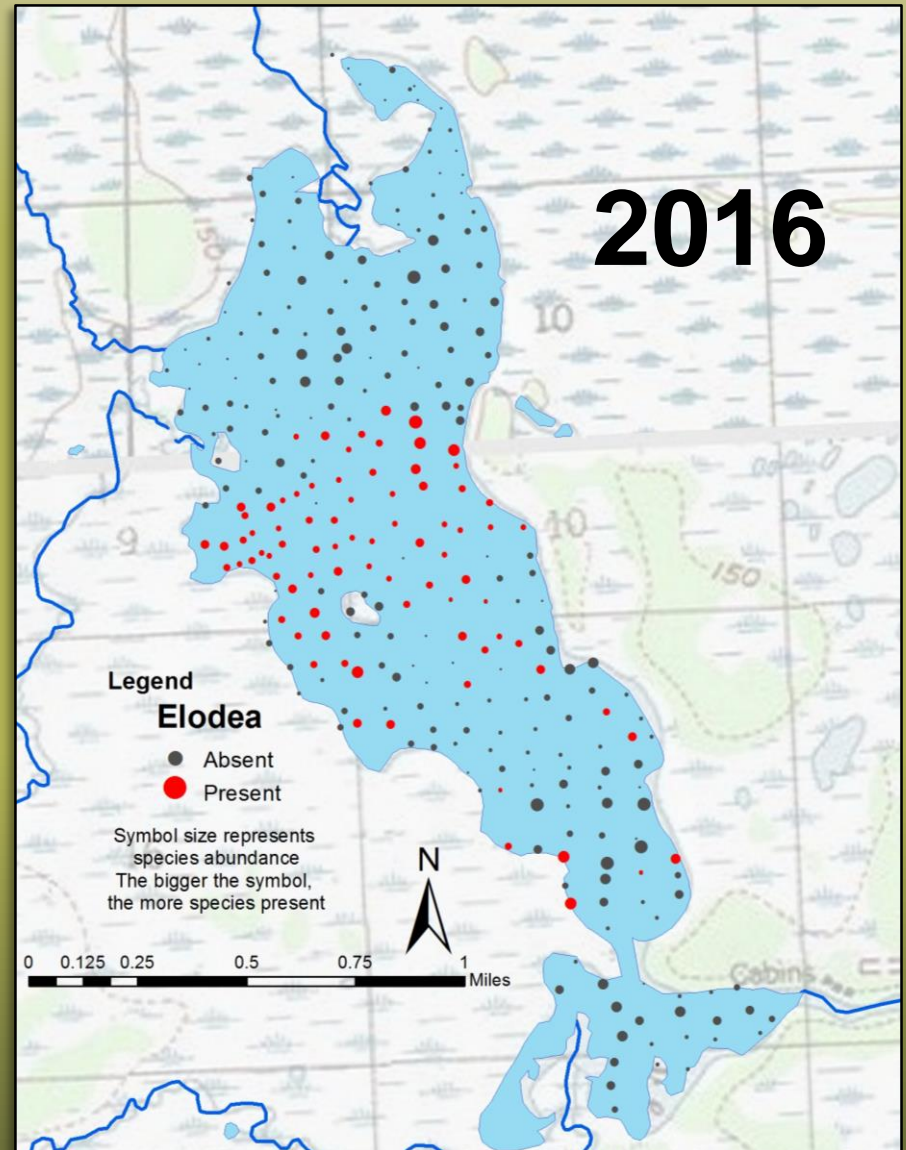
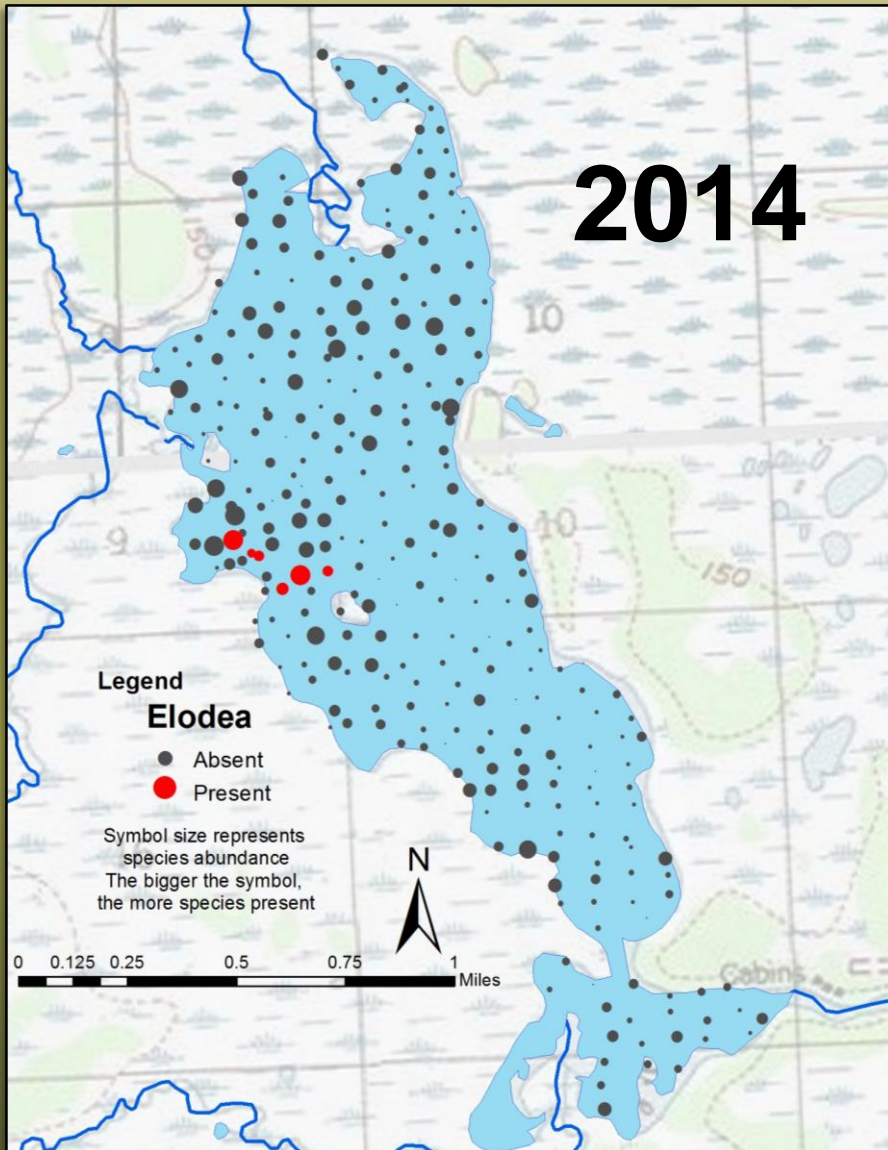


Alexander Lake





Alexander Lake



Alexander Lake: *Management*

- **1st application:**

- Continued with original plan
- 42 acres treated with pelleted fluridone
- August 24th



Alexander Lake: *Management*

- ***After August 24th:***

- Kenai offers unused fluridone
- Applied for a DEC Emergency Exemption
- Resubmitted updated Environmental Assessment
 - 2 weeks public commenting
 - Received new FONSI and Federal PUP
- 500 acres treated September 28th and 29th
 - 35 days after initial shock of spread



What's next?

- ***Monitor***

- Fluridone concentrations
- Alexander Creek for Elodea
 - Tyonek Tribal Conservation District survey

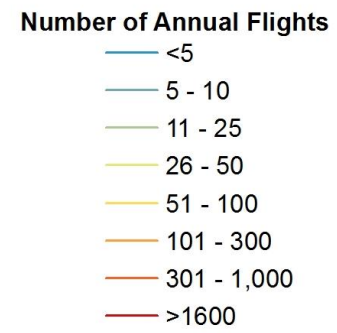
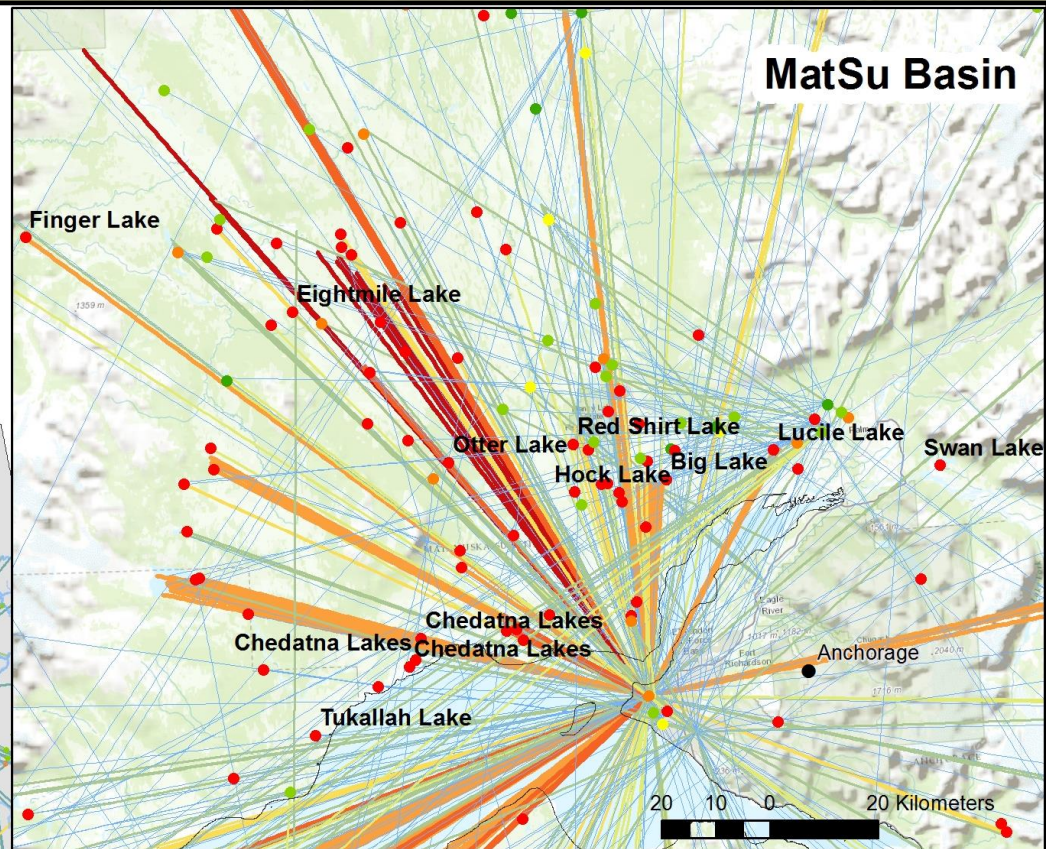
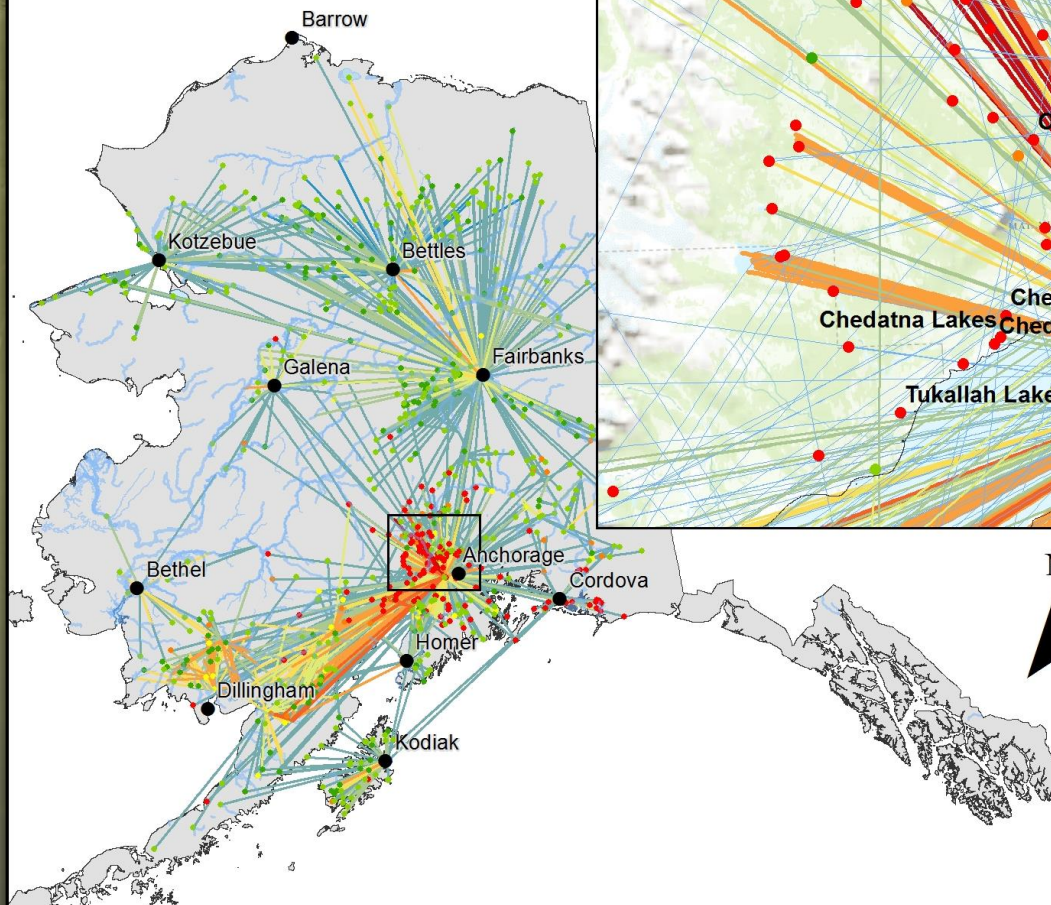
- ***Outreach***

- New audience
 - Cabin owners
 - Waterfowl hunters
 - Retriever groups

What's next?

2015 Annual Flight Data

Toby Schworer
2016 Floatplane Pilot Survey



Kenai National Wildlife Refuge, Kenai Borough, Algebra Hamer, CANWIN, Scott Christy, Scott Lytle, Josh Briggs, and my favorite Daryl Lescanec

U.S. Fish and Wildlife Service, Mat-Su Fish Habitat Partnership, Department of Fish and Game, DOT



Tim Stallard, Jen MacMillian, Aaron Martin, Scott Shuler, Tim Coons, Matt Steffy, Jessica Speed,

Thank you!

John Morton, Mike Buntjer, Karin Hendrickson, Tammy Davis, Krissy Dunker, Pete Johnson, Sam Ivey, Dave Rutz, Keegan Egelus, Adrian Baer