## Steller's Eiders: The Road to Recovery How waterfowl Husbandry can support Conservation efforts Photo By Tasha DiMarzio



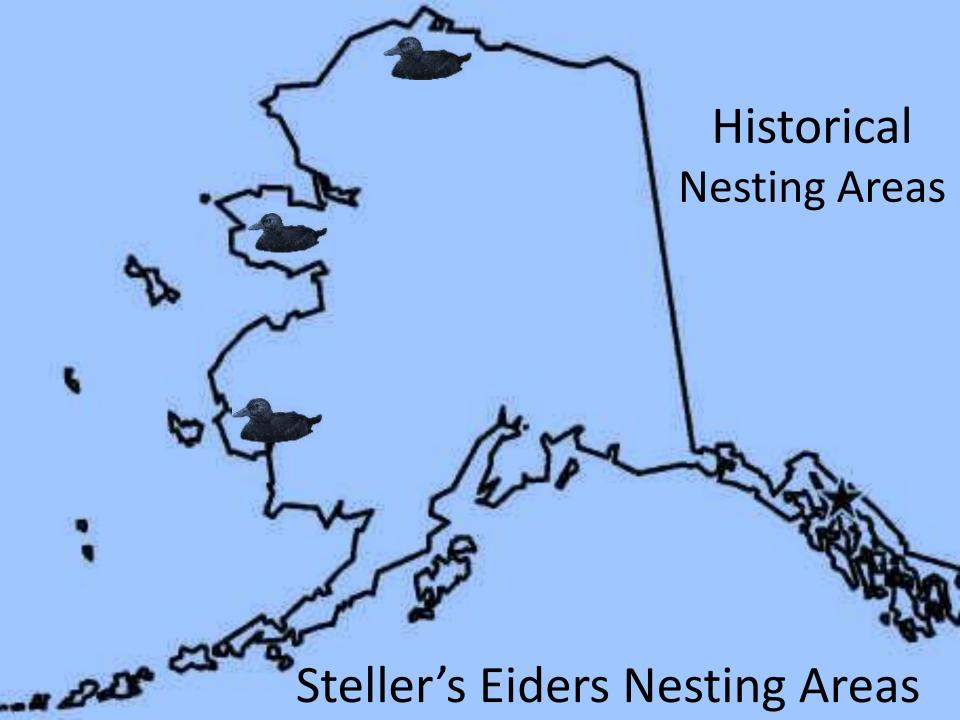


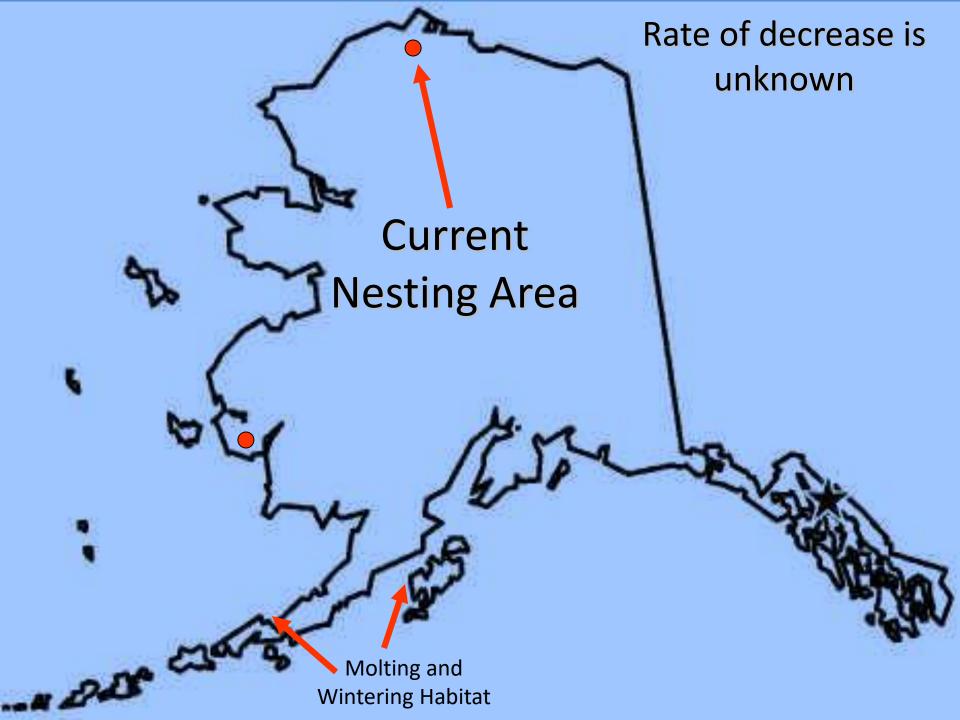




- The current population is declining and is believed to be ~150,000 world wide, the majority of these birds nest in Russia.
- Less then 200 breeding pairs nest in Alaska.
- They are the only members of the family Polysticta and are Important part of native tradition and folklore











#### Possible Causes and Obstacles of Decline



#### Over-Harvesting









#### **Contaminants and Marine Debris**













# 7D°N — 66°N — 66°N — 62°N — 54°N — 54°N — 155°E 175°E 175°W 165°W 155°W 145°W



#### **Environmental Changes:**

Rising Seas, Warming Water Temperatures, and Higher Salinity Levels







## Husbandry Support Since 2002: Steller's Eider Recovery Plan



#### 1. Establish a Breeding Flock of Steller's Eiders in captivity

- -Refine Incubation Techniques
- -Promote Natural Behaviors and Incubation











**Artificial Incubation:** 

Temperature, Development, and Weight loss trends



## Embryonic Development





#### Eider Reintroduction Pilot Project 2015

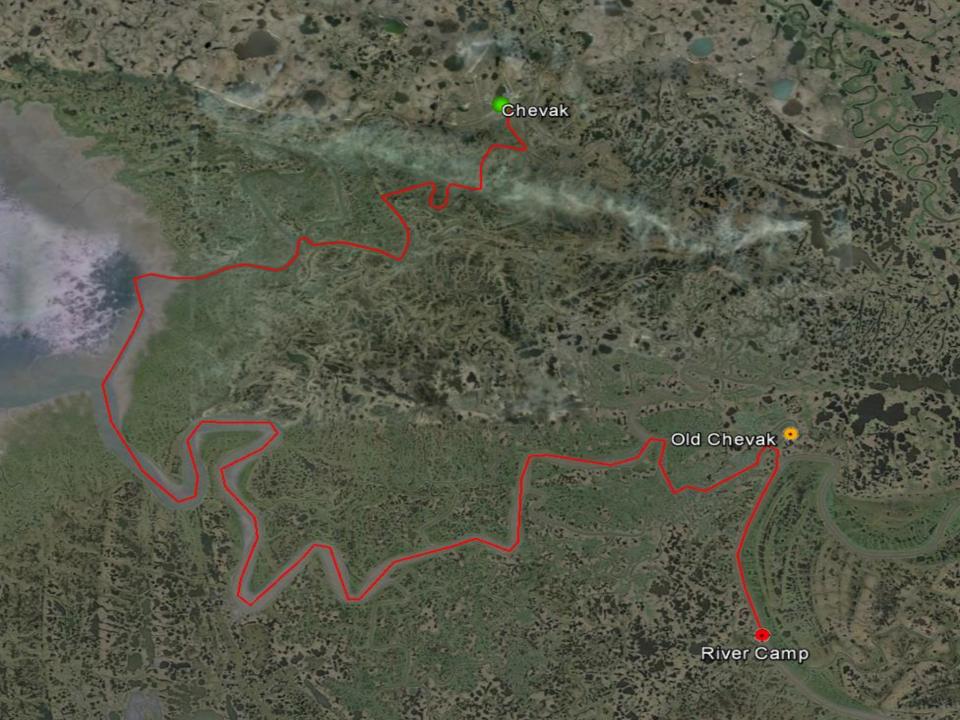


How Husbandry Techniques Can be Used in a Field Setting









#### Getting Around the Delta can be Tricky





#### Setting up River Camp





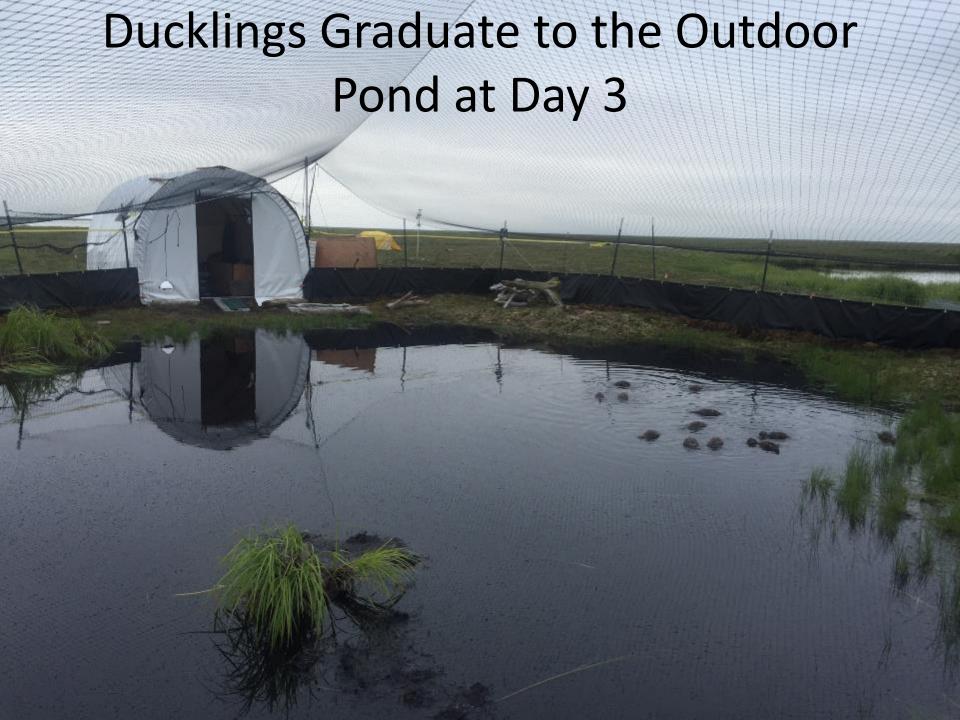
## 12 NOPI Hatched in 3 Days IIII ////



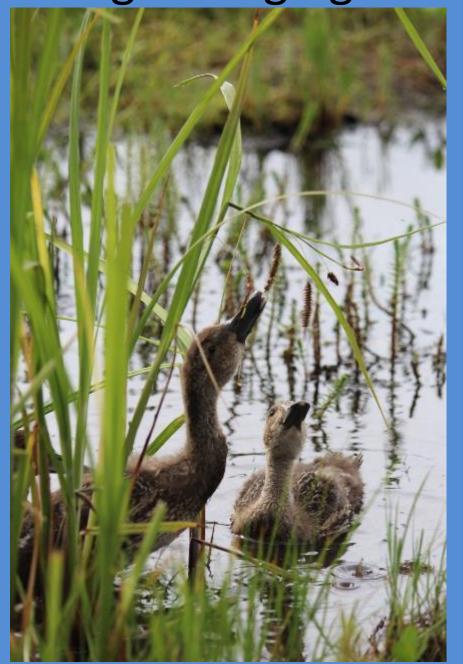




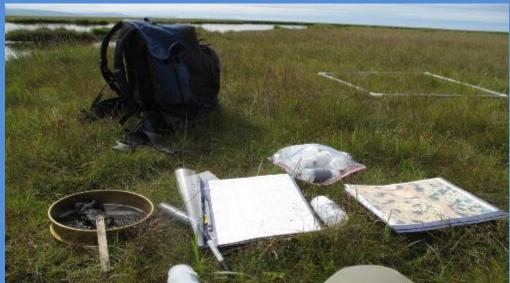




#### **Ducklings Foraging on Carex**





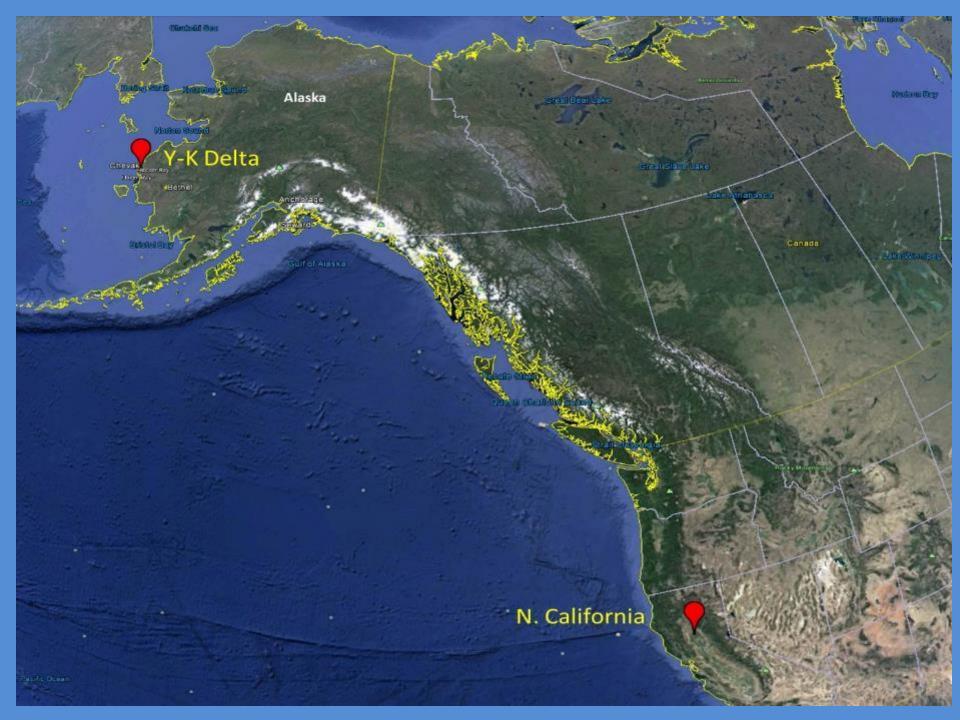








#### **NOPI** Egg to Release





#### It Takes a Big Team















Sadie

Caitlin

Nathan

Lizzie

Katrina











Hannah

John usews

Micah usrws

Arnold DCW

Tasha

#### Eyes on Eiders



