



# HPAI Surveillance of Wild Live Birds in Alaska

## Which species? Where? When? By whom?



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January 18, 2006



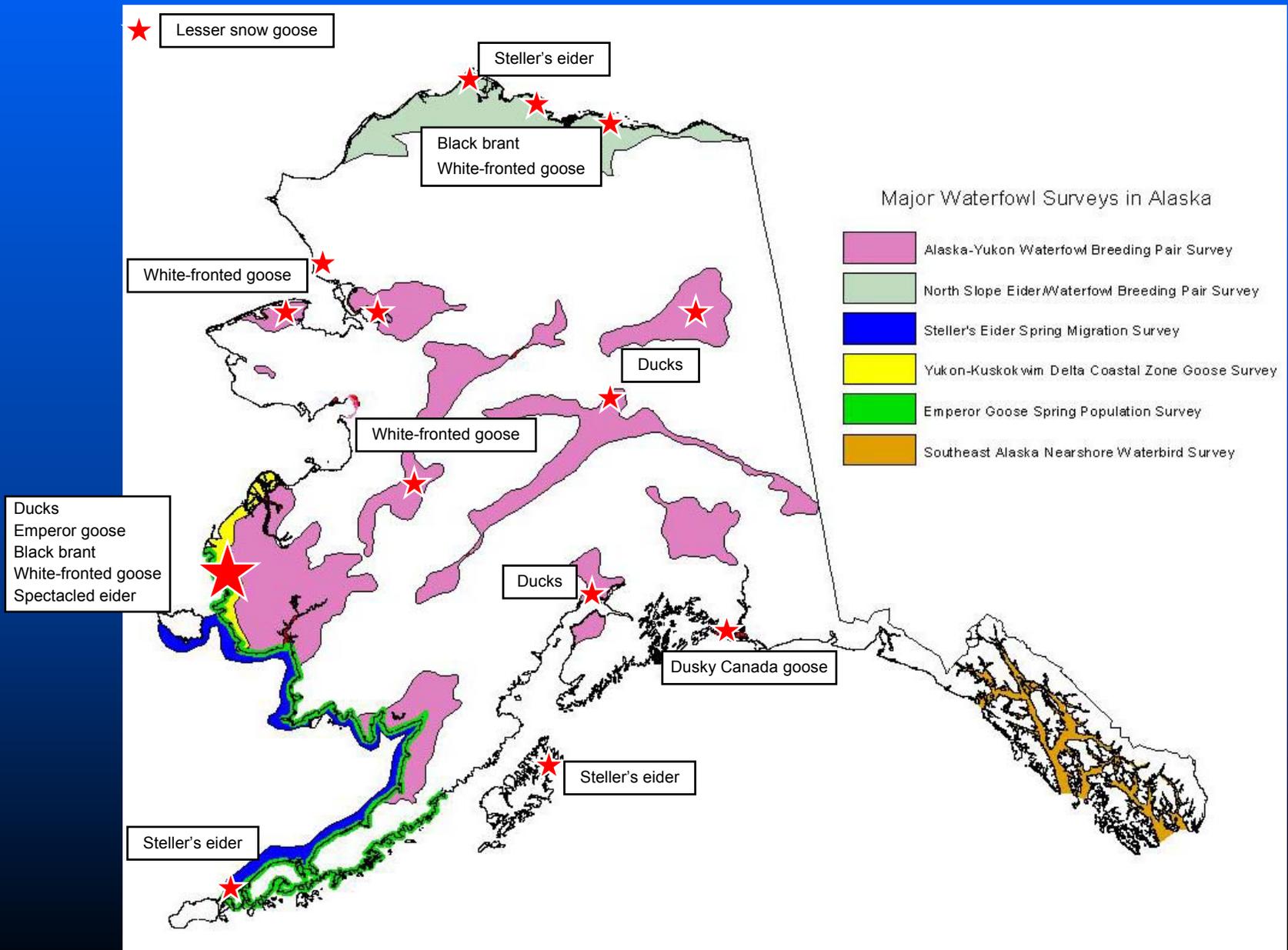
# Planning Considerations

- Goal: Detection? Assessment? Monitoring?
- Population scale - what is the sampling frame?
  - Relation of sampling among all methods, seasons, locations
  - Number of sampling locations
  - Number of samples per site
- Sampling in relation to species seasonal population exposure and movements
- Merits of concurrent fecal, water, soil sampling?

# Priority Species

1. Steller's eider
2. Northern pintail
3. Lesser snow goose
4. Emperor goose
5. Black brant
6. Spectacled eider
7. Aleutian goose
8. Long-tailed duck
9. Tundra swan
10. Common eider
11. King eider
12. Lesser sandhill crane
13. Dunlin
14. Sharp-tailed sandpiper
15. Bar-tailed godwit
16. Ruddy turnstone
17. Pectoral sandpiper
18. Red knot
19. Long-billed dowitcher
20. Rock sandpiper
21. Pacific golden plover
22. Buff-breasted sandpiper
23. Glaucous gull
24. Arctic warbler
25. Eastern yellow wagtail
26. Gray-cheeked thrush

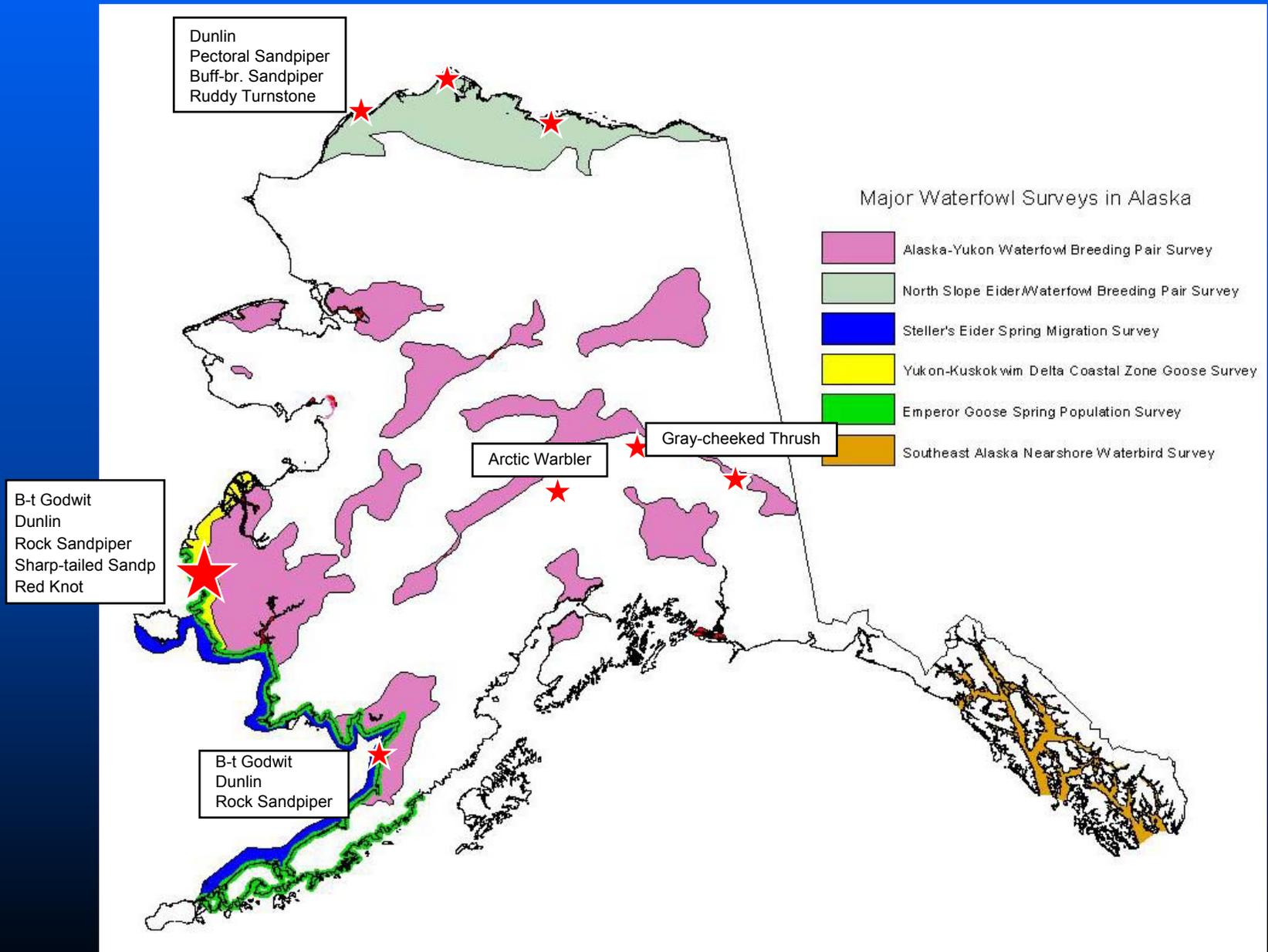
# Current Waterfowl Banding Sites



# Coverage for Priority Species

<b>Steller's Eider</b>	<b>Barrow, Izembek Lagoon</b>
<b>Northern Pintail</b>	<b>Y-K Delta, Minto, Yukon Flats, Cook Inlet</b>
<b>Lesser Snow Goose</b>	<b>Wrangel Island</b>
<b>Emperor Goose</b>	<b>Y-K Delta</b>
<b>Black Brant</b>	<b>Y-K Delta, North Slope colonies, Teshekpuk Lake</b>
<b>Spectacled Eider</b>	<b>Y-K Delta</b>
<b>Aleutian Goose</b>	<b>Buldir Island, Agattu</b>
<b>Long-tailed Duck</b>	<b>North Slope Lagoons?</b>
<b>Tundra Swan</b>	<b>Y-K Delta, North Slope?</b>
<b>Common Eider</b>	<b>North Slope? Northwest Territories</b>
<b>King Eider</b>	<b>North Slope, NWT</b>
<b>Lesser Sandhill Crane</b>	<b>Fairbanks</b>

# Current Shorebird / Landbird Sites



# Coverage for Priority Species

<b>Dunlin</b>	<b>Barrow, Kasegaluk, Colville Delta, Y-K Delta, Egegik Bay</b>
<b>Sharp-tailed Sandpiper</b>	<b>Y-K Delta</b>
<b>Bar-tailed Godwit</b>	<b>Y-K Delta, Egegik Bay</b>
<b>Ruddy Turnstone</b>	<b>Barrow, Kasegaluk, Colville Delta</b>
<b>Pectoral Sandpiper</b>	<b>Barrow, Kasegaluk, Colville Delta</b>
<b>Red Knot</b>	<b>Y-K Delta</b>
<b>Long-billed Dowitcher</b>	<b>Y-K Delta, North Slope</b>
<b>Rock Sandpiper</b>	<b>Y-K Delta, Egegik Bay</b>
<b>Pacific Golden Plover</b>	
<b>Buff-breasted Sandpiper</b>	<b>Barrow, Kasegaluk, Colville Delta</b>

# Coverage for Priority Species

<b>Glaucous Gull</b>	
<b>Arctic Warbler</b>	<b>Denali</b>
<b>Eastern Yellow Wagtail</b>	
<b>Gray-cheeked Thrush</b>	<b>Denali, Fairbanks, Tok</b>

# Permit & Banding Considerations

- Federal and state permits are required for all:
  - Capture and handling of live birds
  - Taking feather, blood, tissue samples
  - Banding, marking, and telemetry
  - Possession of birds/parts other than legally harvested birds
- Are there specific banding needs for HPAI surveillance?
  - Indication of source birds in a mortality event
  - Opportunistic rangewide tracking of HPAI patterns
- Other banding needs and opportunities?
  - Increased sample of waterfowl for harvest management models
  - Banding infrequently marked shorebirds and landbirds
  - Supplemental samples for serology, genetics, isotopes, parasites