Southcentral Alaska Spruce Beetle Outbreak Observations from the field

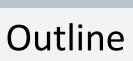
Jason Moan

Forest Health Program Manager Alaska Division of Forestry

2019 Alaska Entomological Society
Annual Meeting

February 9, 2019 Fairbanks, AK





- Outbreak Status
- Observations over time

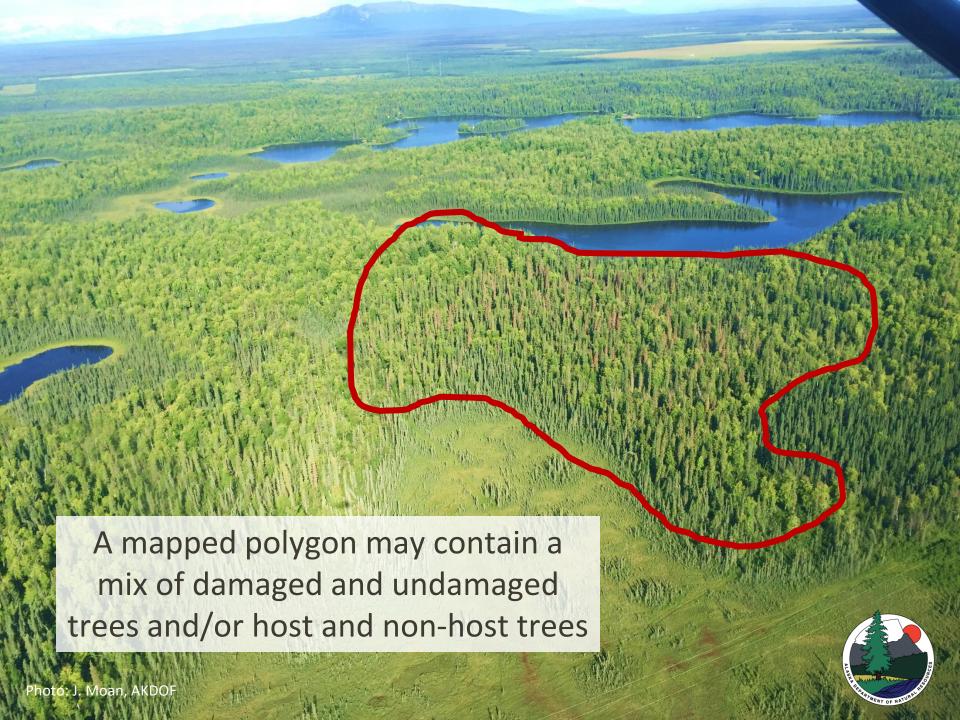


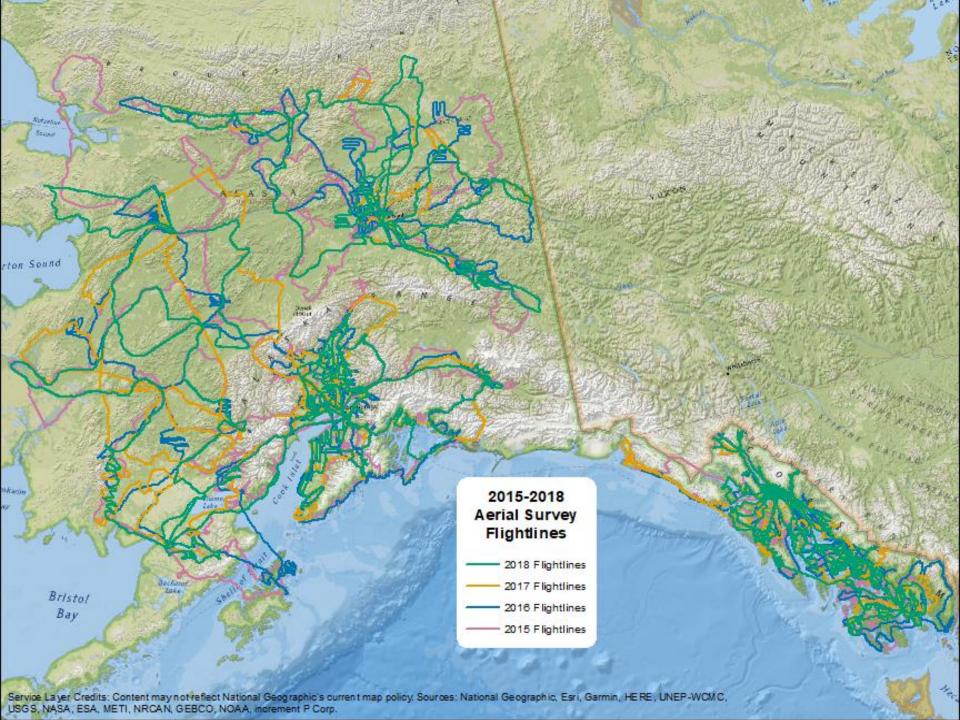


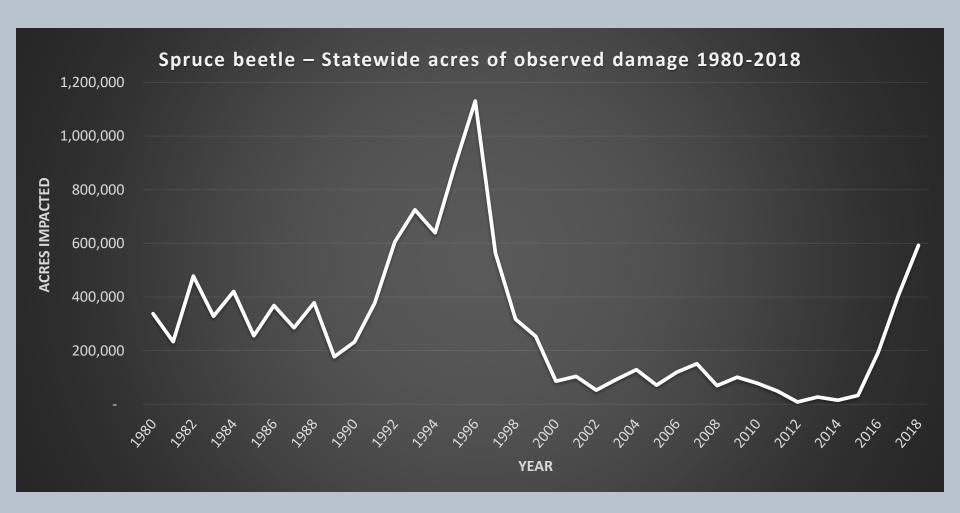


- Cooperative effort between
 - USDA Forest Service Forest Health Protection
 - Alaska Division of Forestry Forest Health Program

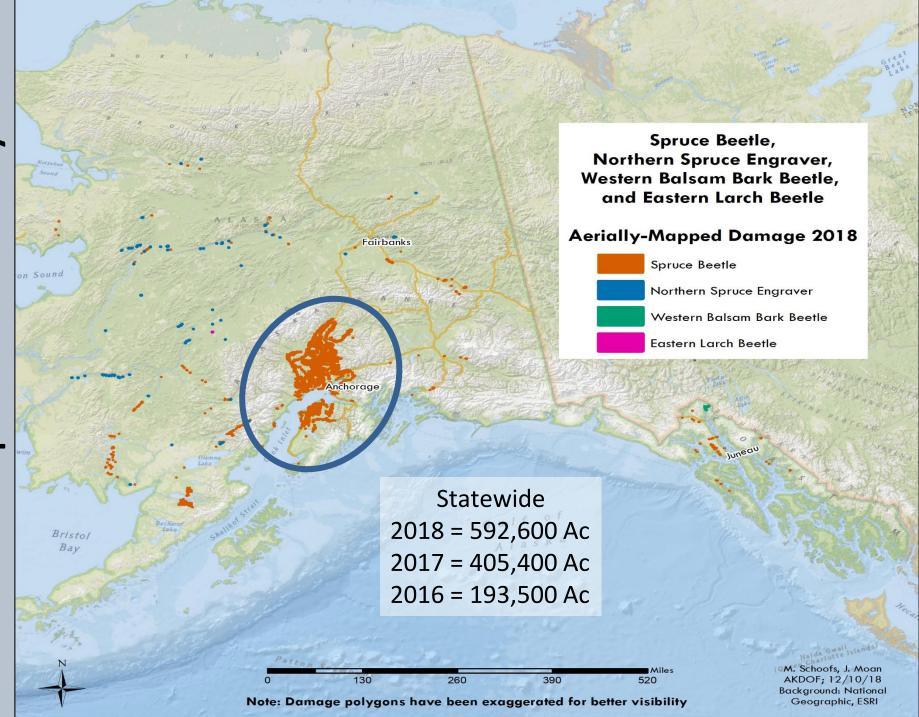


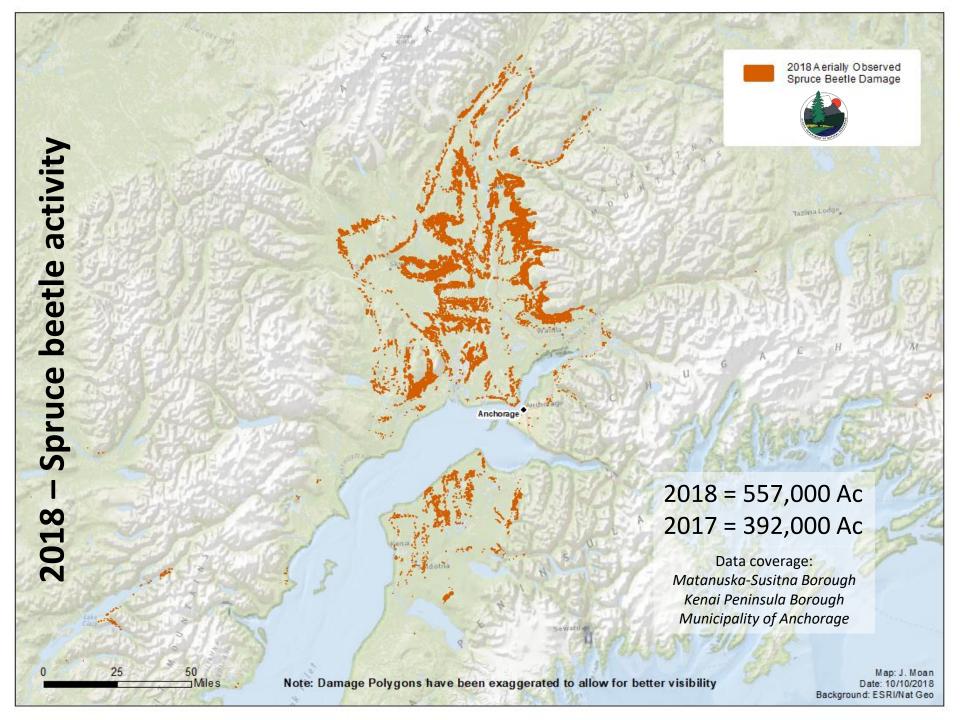


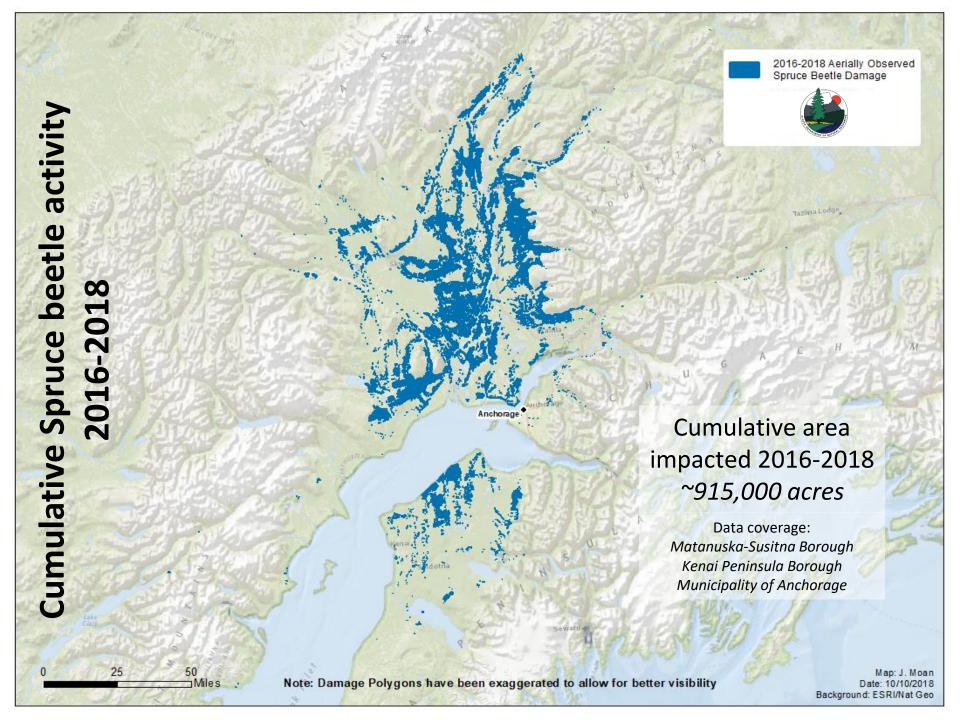


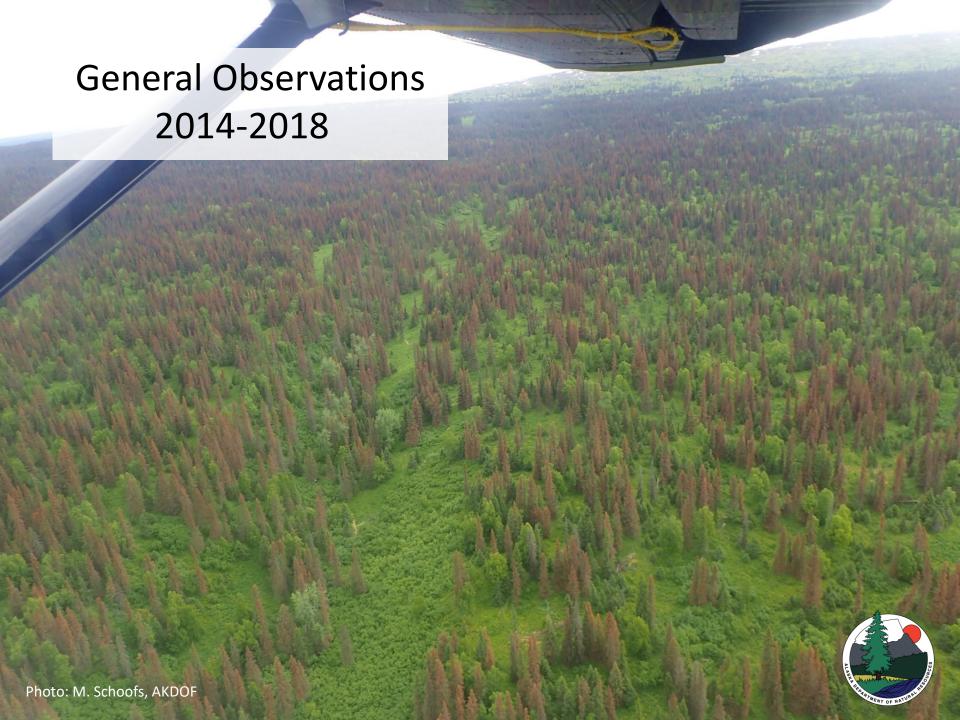


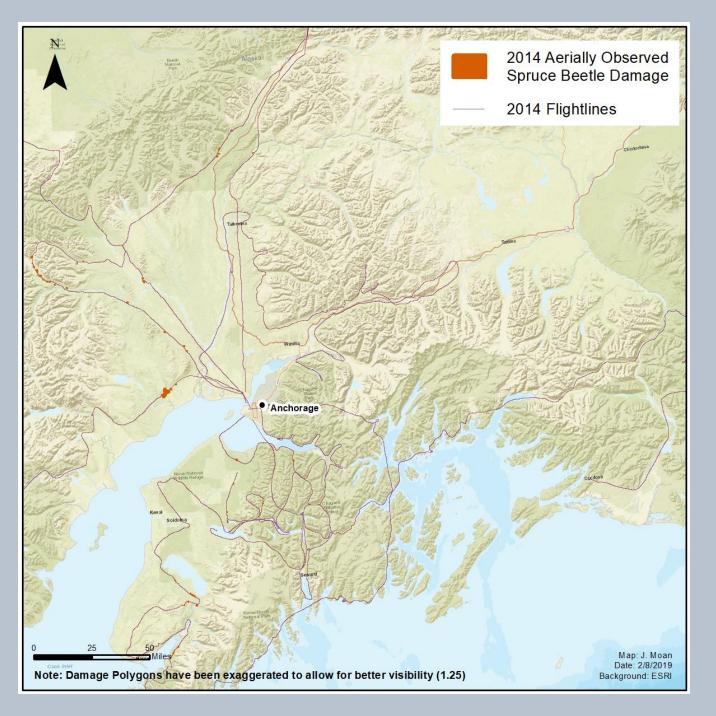




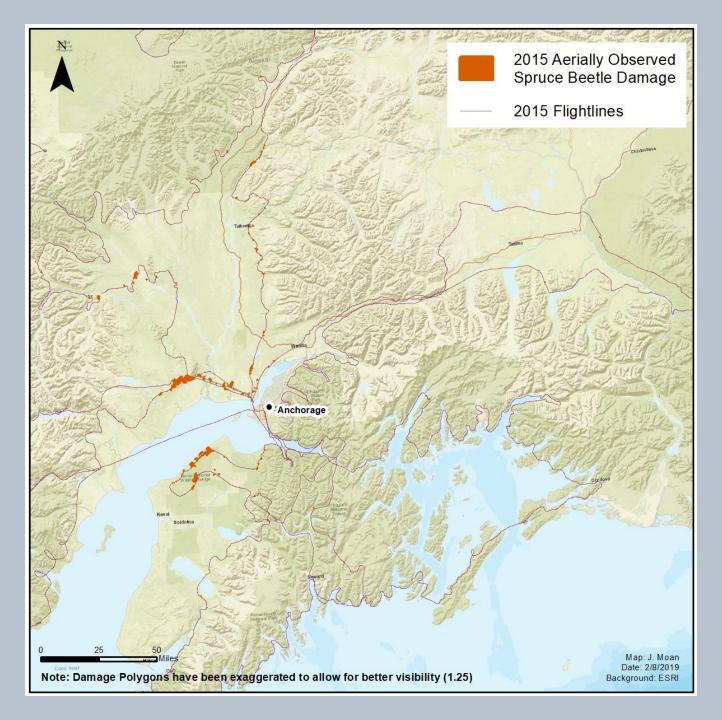




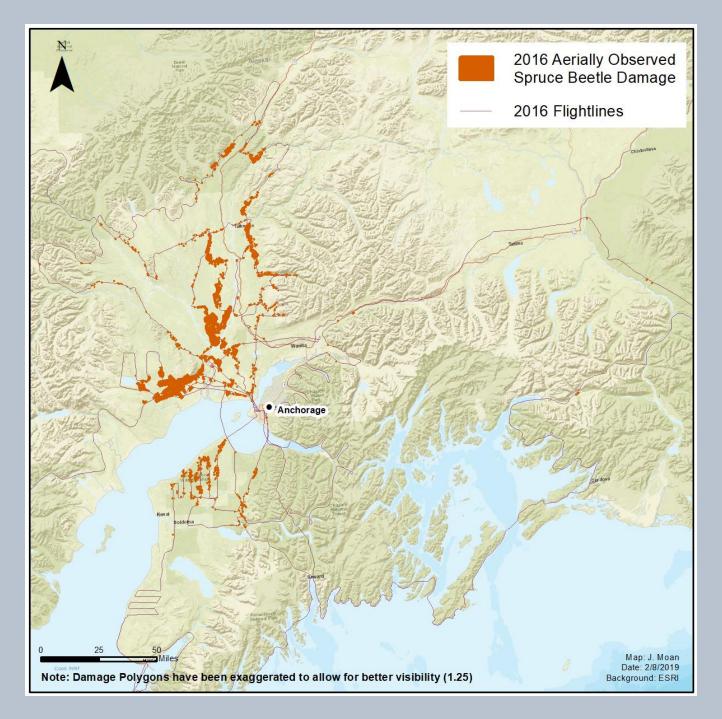




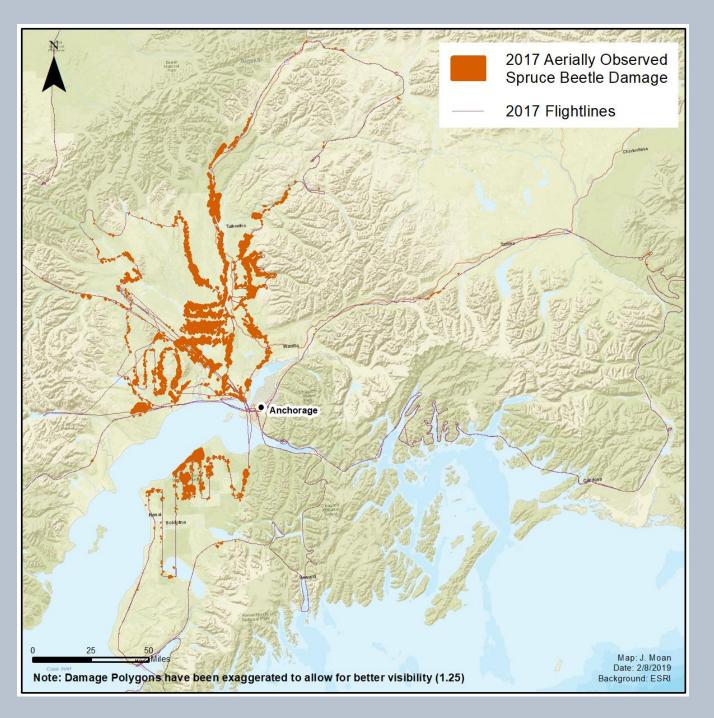




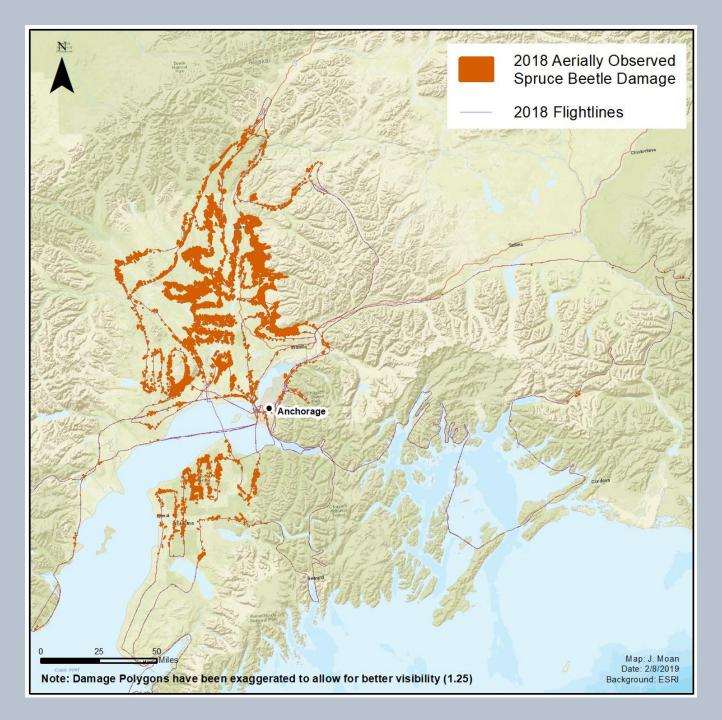










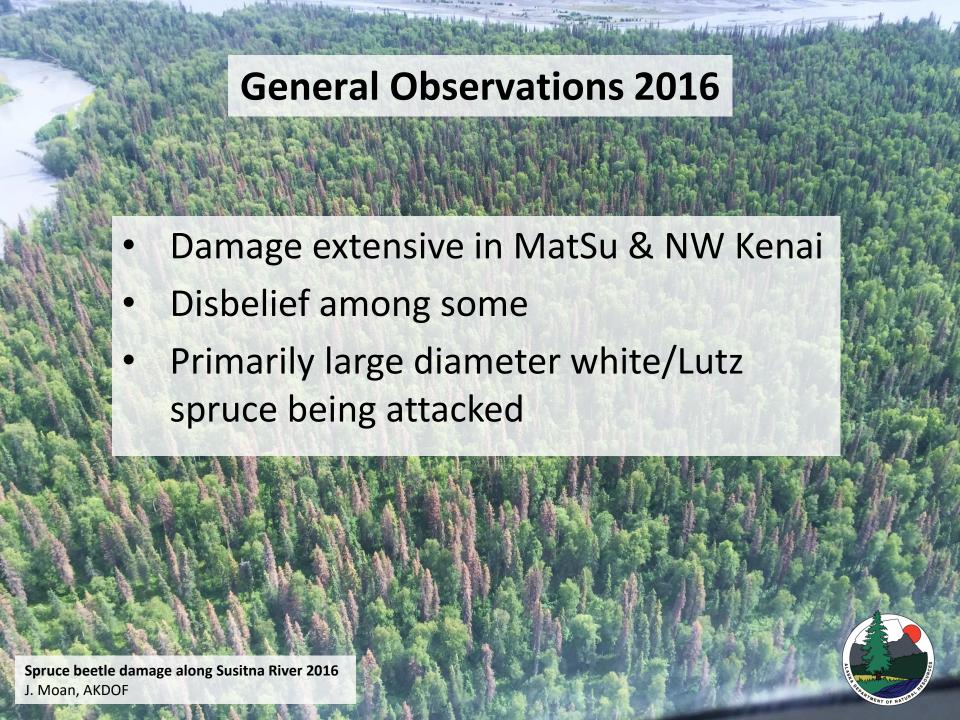




General Observations 2014 & 2015

- Occasional spruce beetle calls, 5-10/year
- Spruce beetle-caused tree mortality scattered
 - Generalist defoliators in outbreak 2014
 - Spruce aphid in outbreak 2015





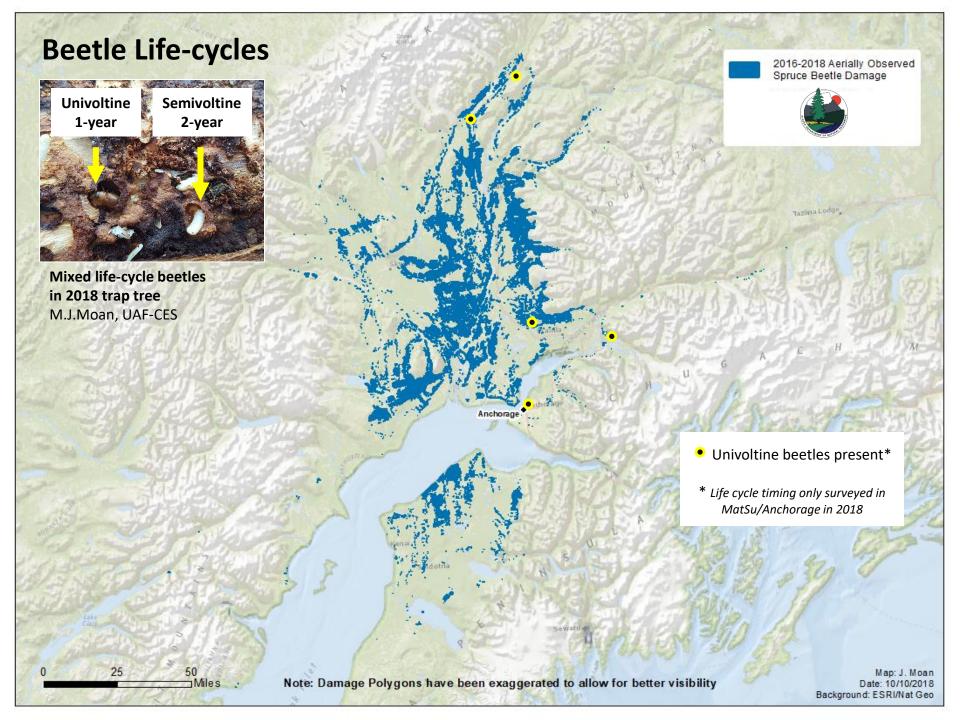
General Observations 2017

- Continued extensive damage in region
- Progressively smaller diameter white/Lutz spruce being attacked
- Nearly 2,100 acres of spruce beetle-caused black spruce mortality observed, adjacent to impacted white spruce forests
- Off-host attacks reported in MatSu, Anchorage, Kenai



General Observations 2018

- Continued extensive damage in region; increasing activity in eastern MatSu & northern Anchorage Municipality
- White/Lutz spruce to 5-6 inch diameter being attacked
- Spruce beetle-caused black spruce mortality often observed near impacted white spruce forests
- Off-host attacks continue
- Univoltine beetles confirmed in MatSu, mixed with semivoltine









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