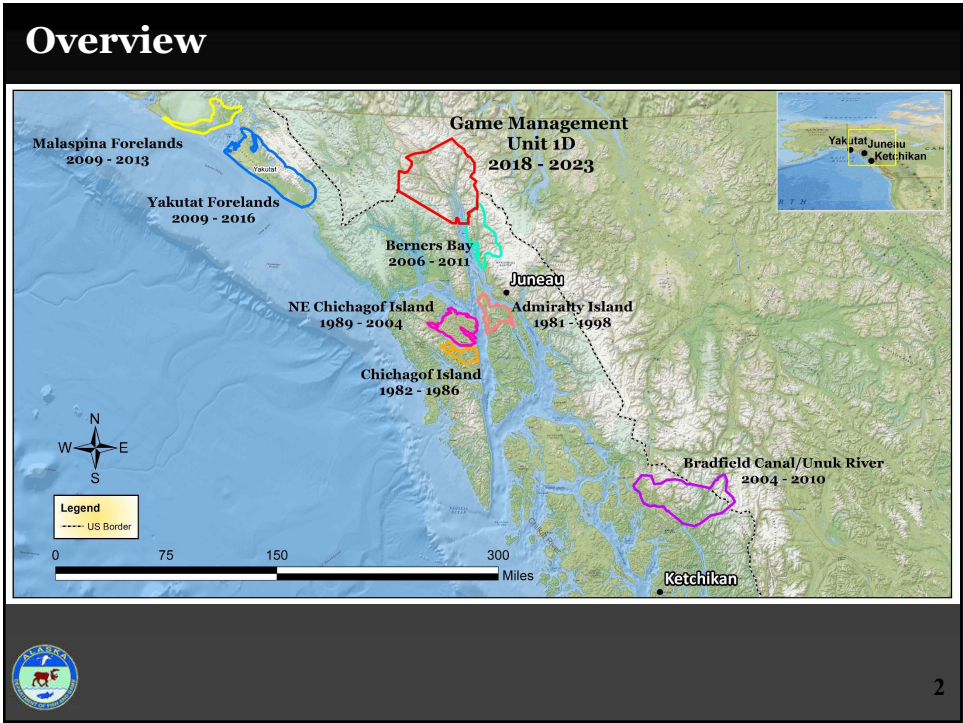




1



2

Overview

2016 Upper Lynn Canal Advisory Committee
Letter to BOG - brown bear study - high female mortality

2018 Research Project: Brown bear population density and habitat selection on the northern mainland coast of Southeast Alaska



2020 high mortality

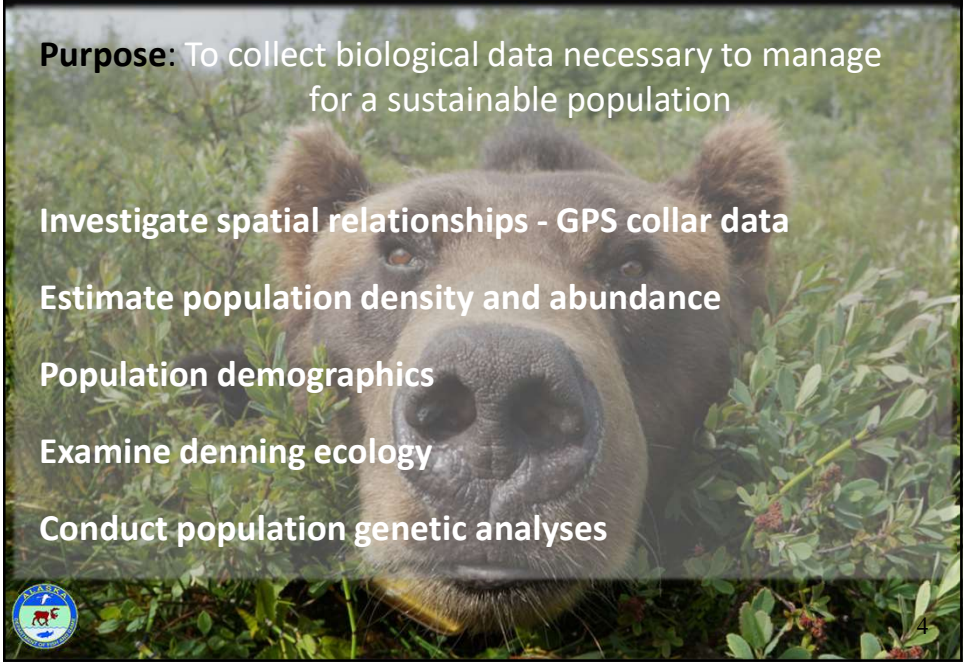


3

Research objectives

Purpose: To collect biological data necessary to manage for a sustainable population

- Investigate spatial relationships - GPS collar data
- Estimate population density and abundance
- Population demographics
- Examine denning ecology
- Conduct population genetic analyses



4



5

Capture Methods

Free Range Darting

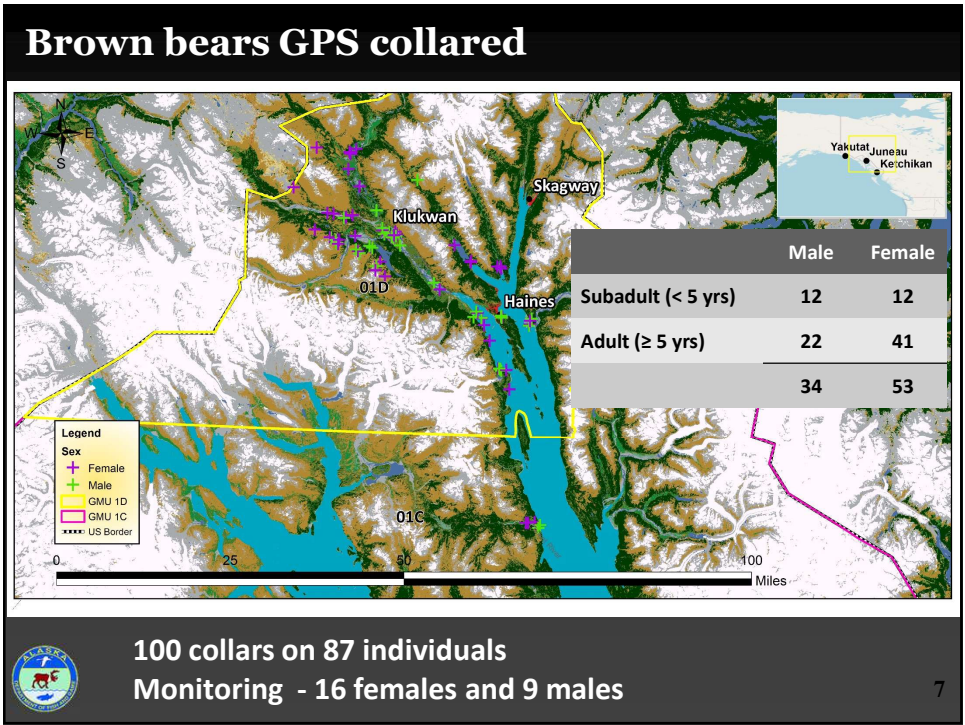
Foot Snare

Helicopter Darting

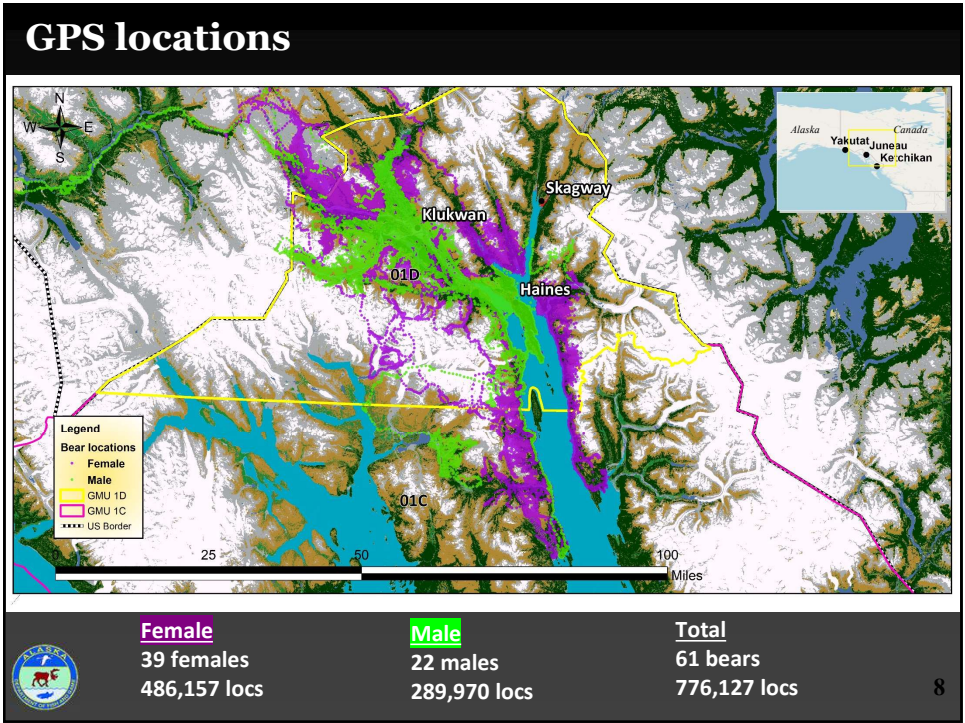
Foot Snare

6

6



7



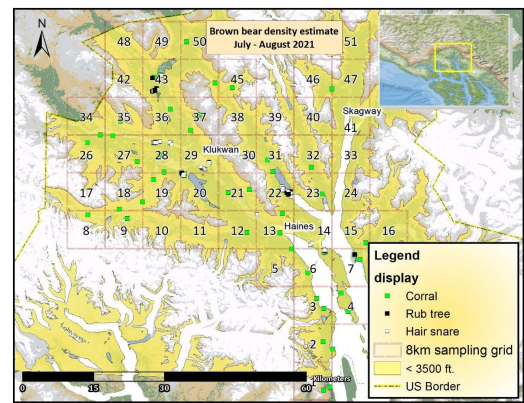
8

Density estimate

Non-invasive genetic sampling

Multiple detectors

Spatial mark-recapture



9

9

Multiple detectors



Corrals



Rub trees



Snares

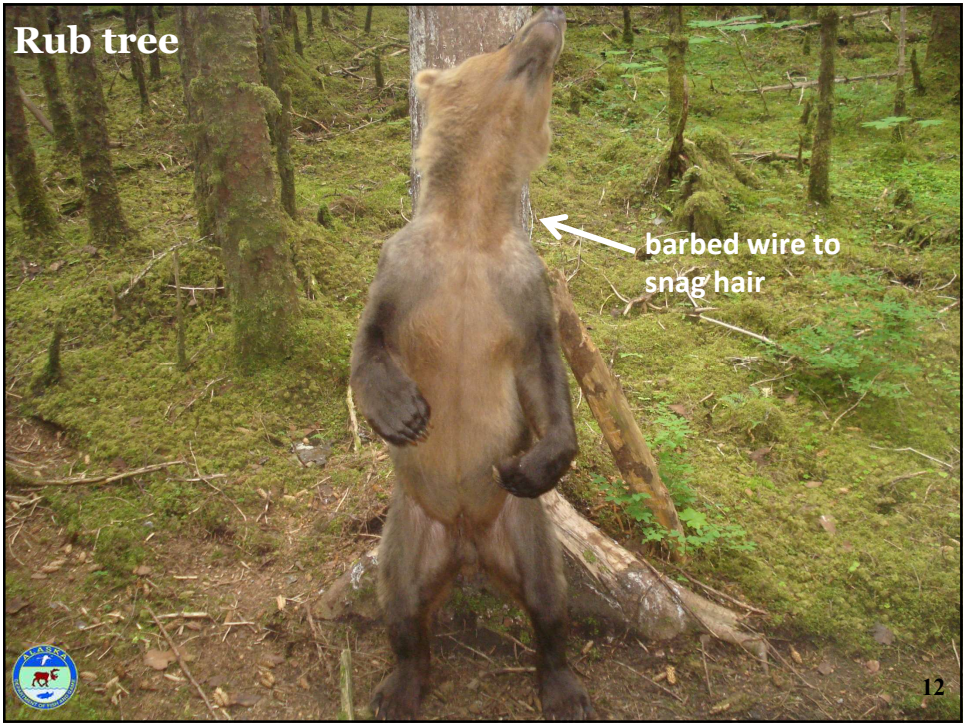


10

10



11



12

Single catch hair snare



   59°F 15°C  08-02-2021 08:25:11

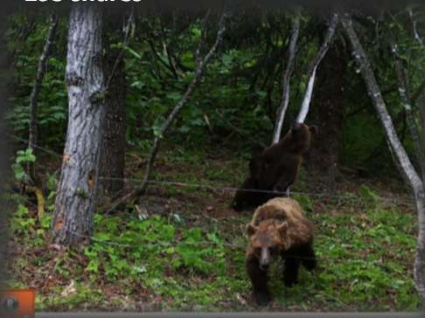
13

13

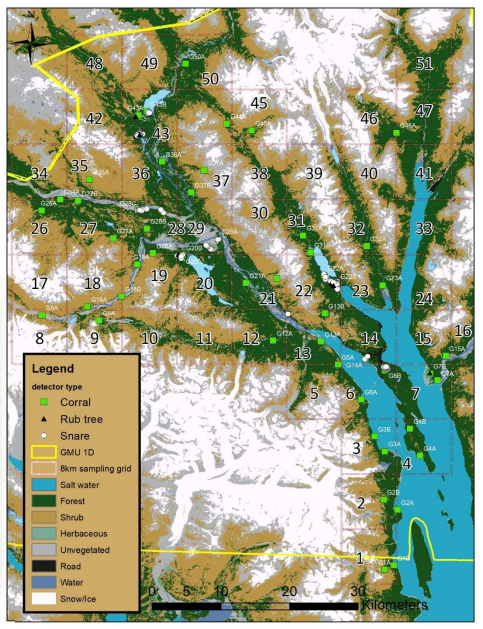
Density estimate

July 1st – August 30th 2021
Conducted ten 5-day sessions
Maintained 366 hair traps

- 51 corrals
- 20 rub trees
- 295 snares







Legend

detector type

- Corral
- Rub tree
- Snare

IGMU 1D

8km sampling grid

Salt water

Forest

Shrub

Herbaceous

Unvegetated

Road

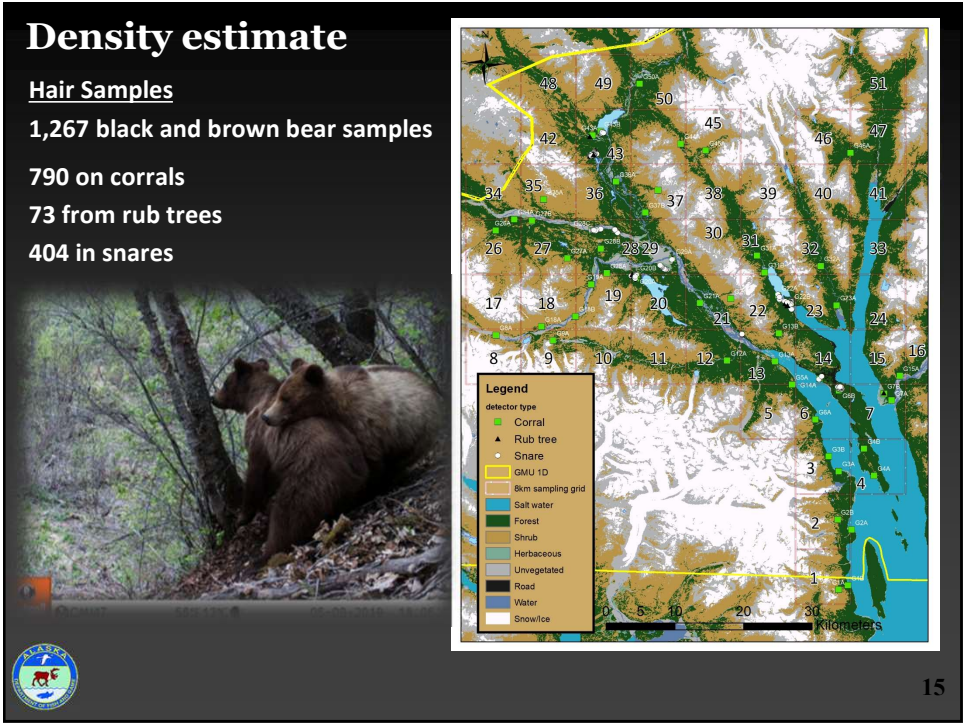
Water

Snow/Ice

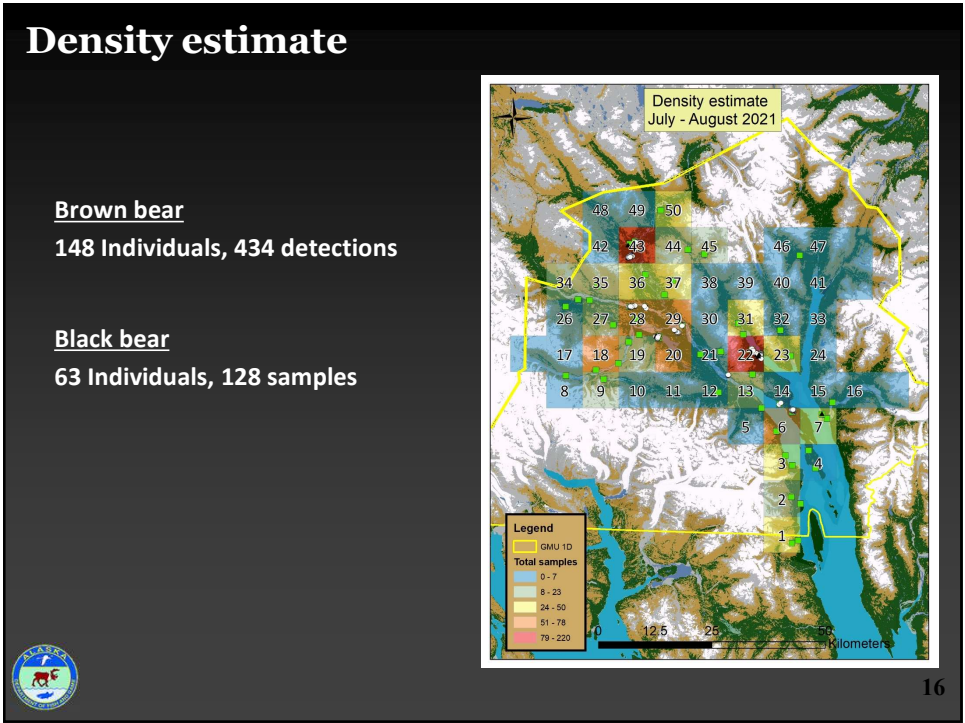
0 5 10 20 30 Kilometers

14

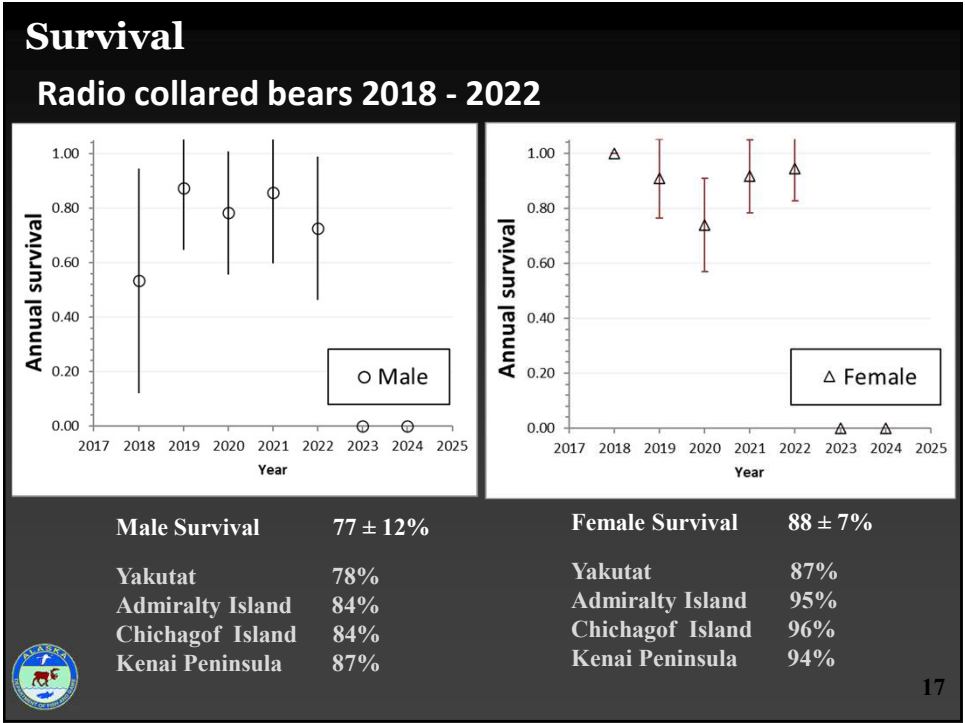
14



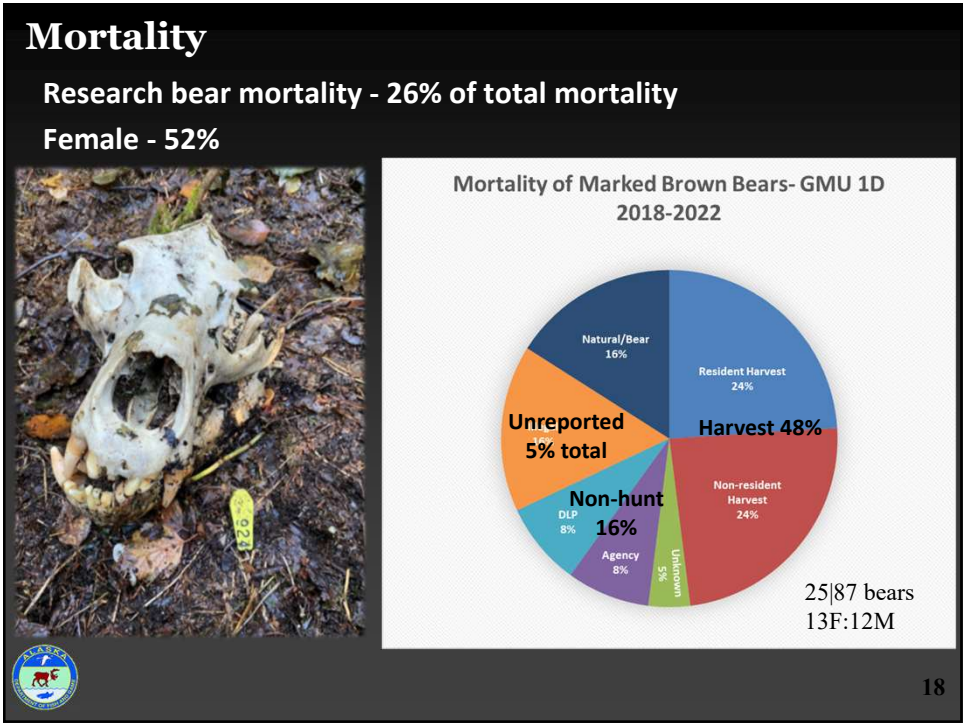
15



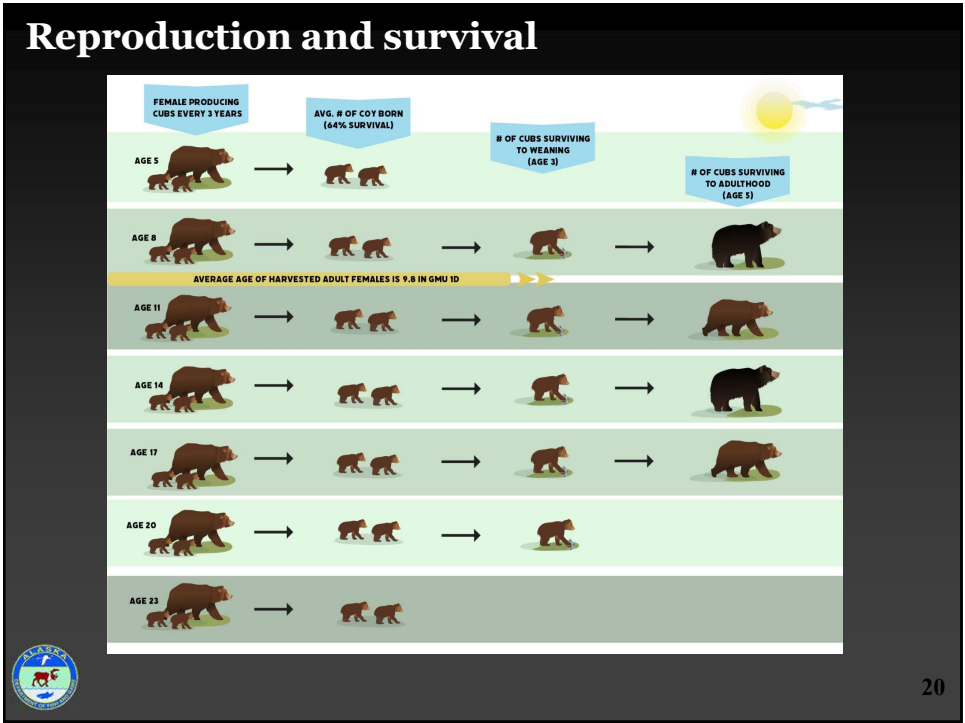
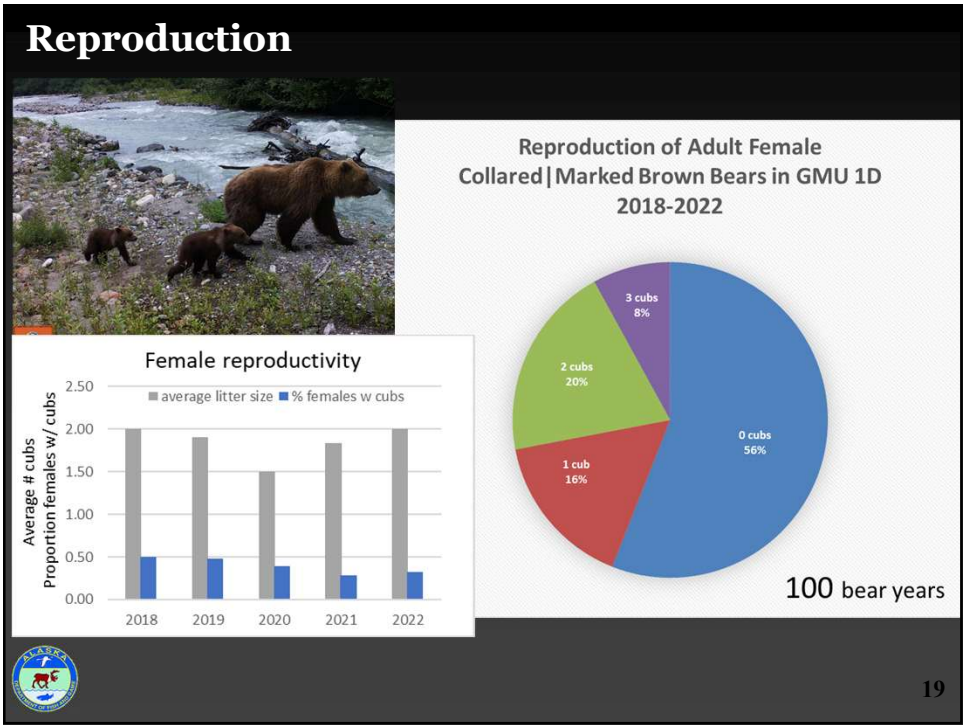
16

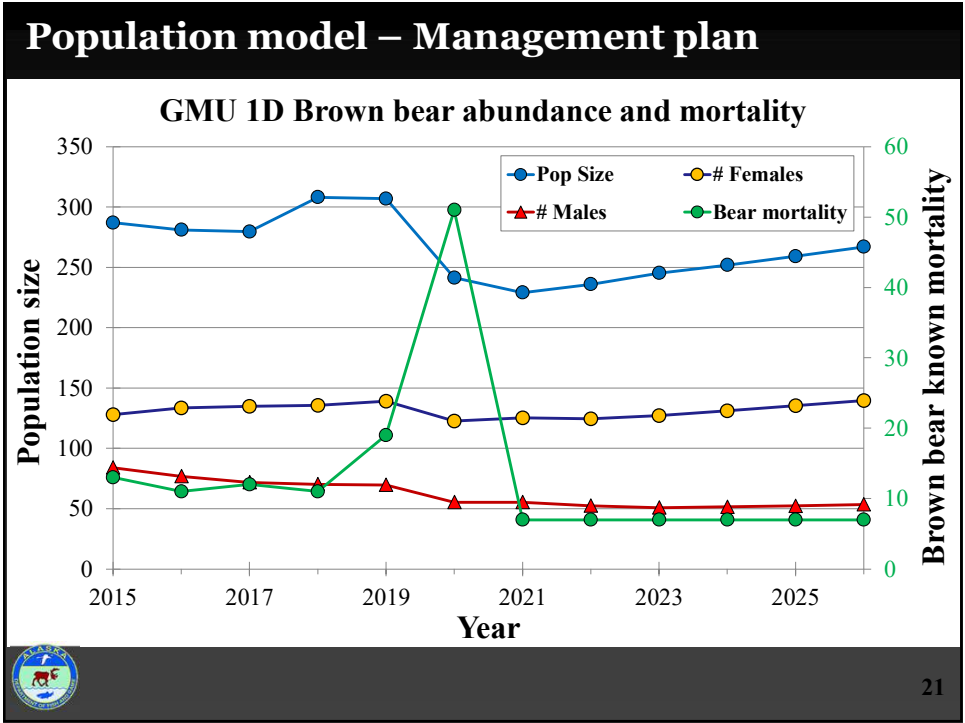


17

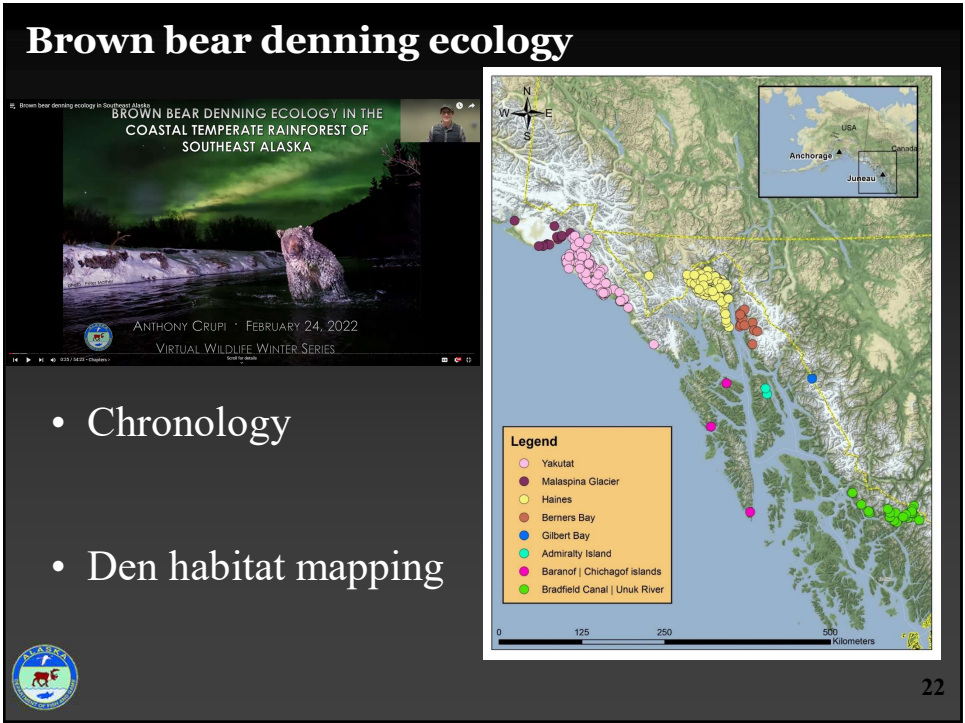


18

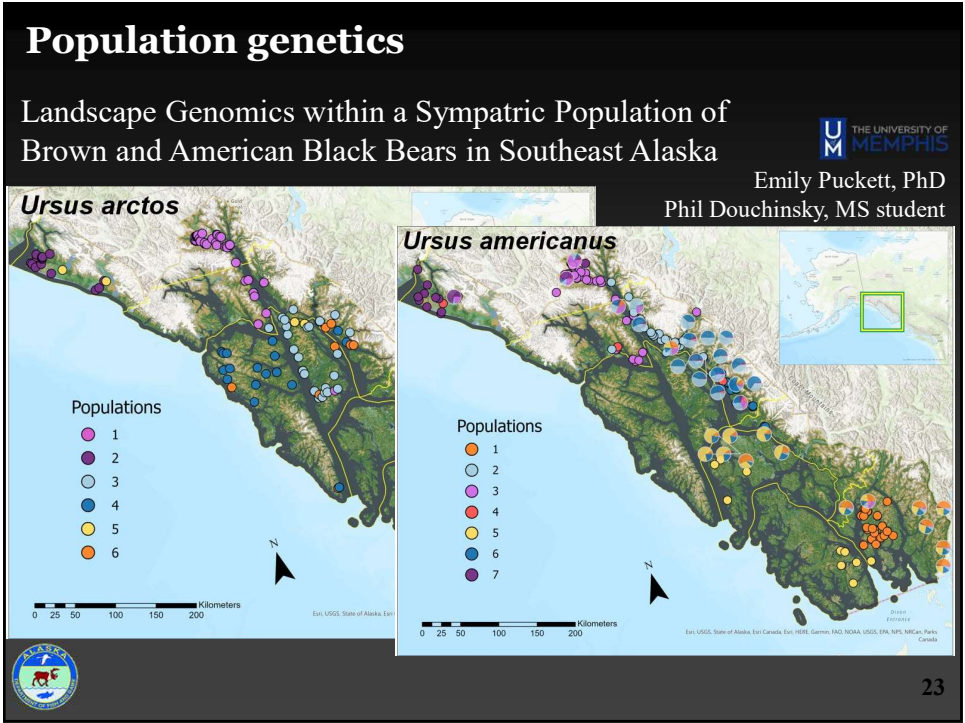




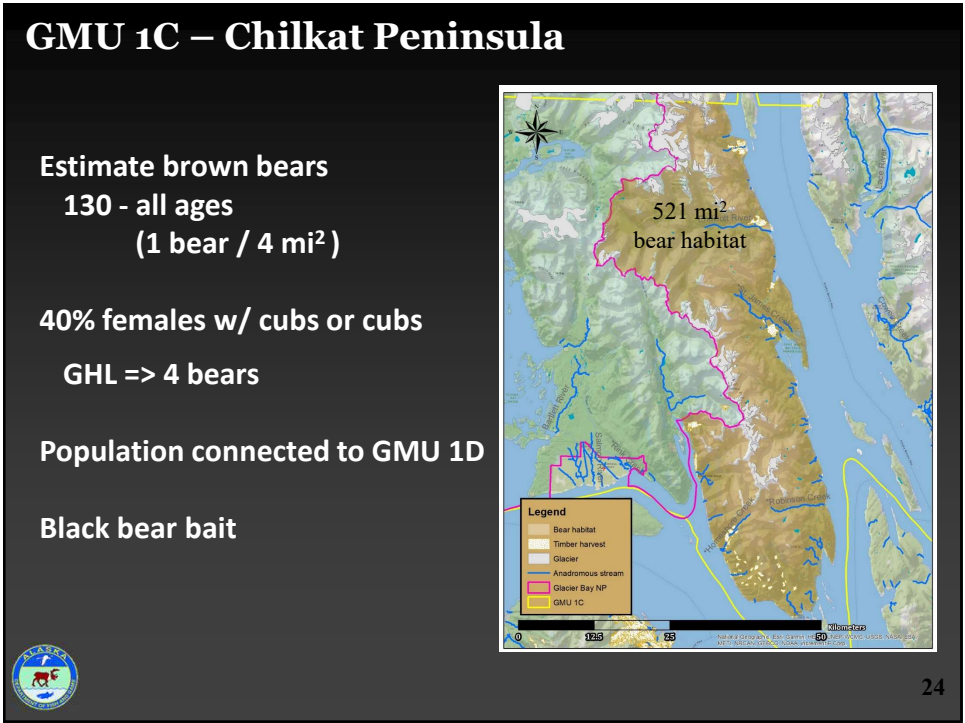
21



22



23



24

