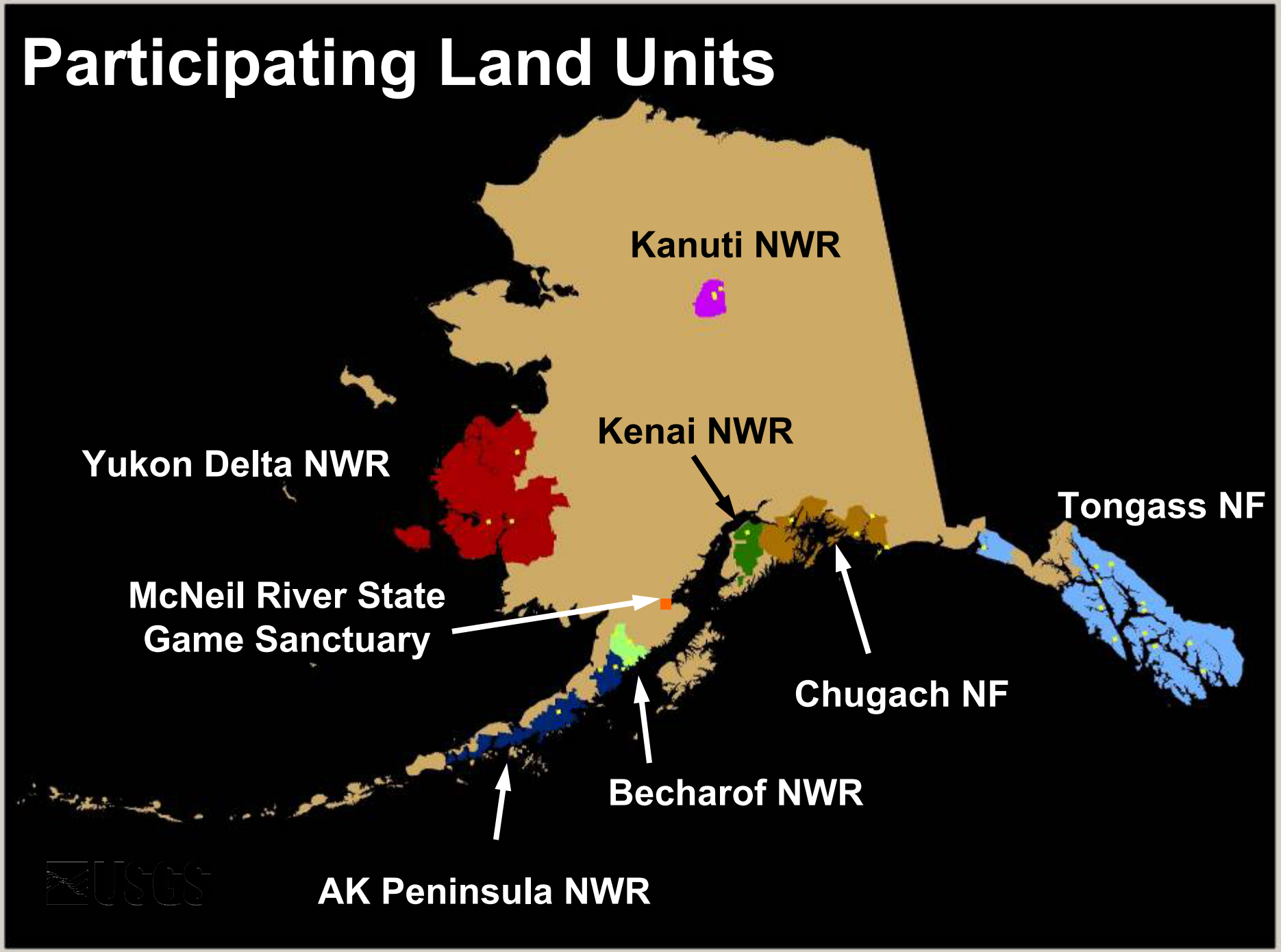
Alaska Landbird Monitoring Survey (ALMS)

2004 Participation and Results

U.S. Department of the Interior
U.S. Geological Survey

Melissa Cady, USGS

Participating Land Units

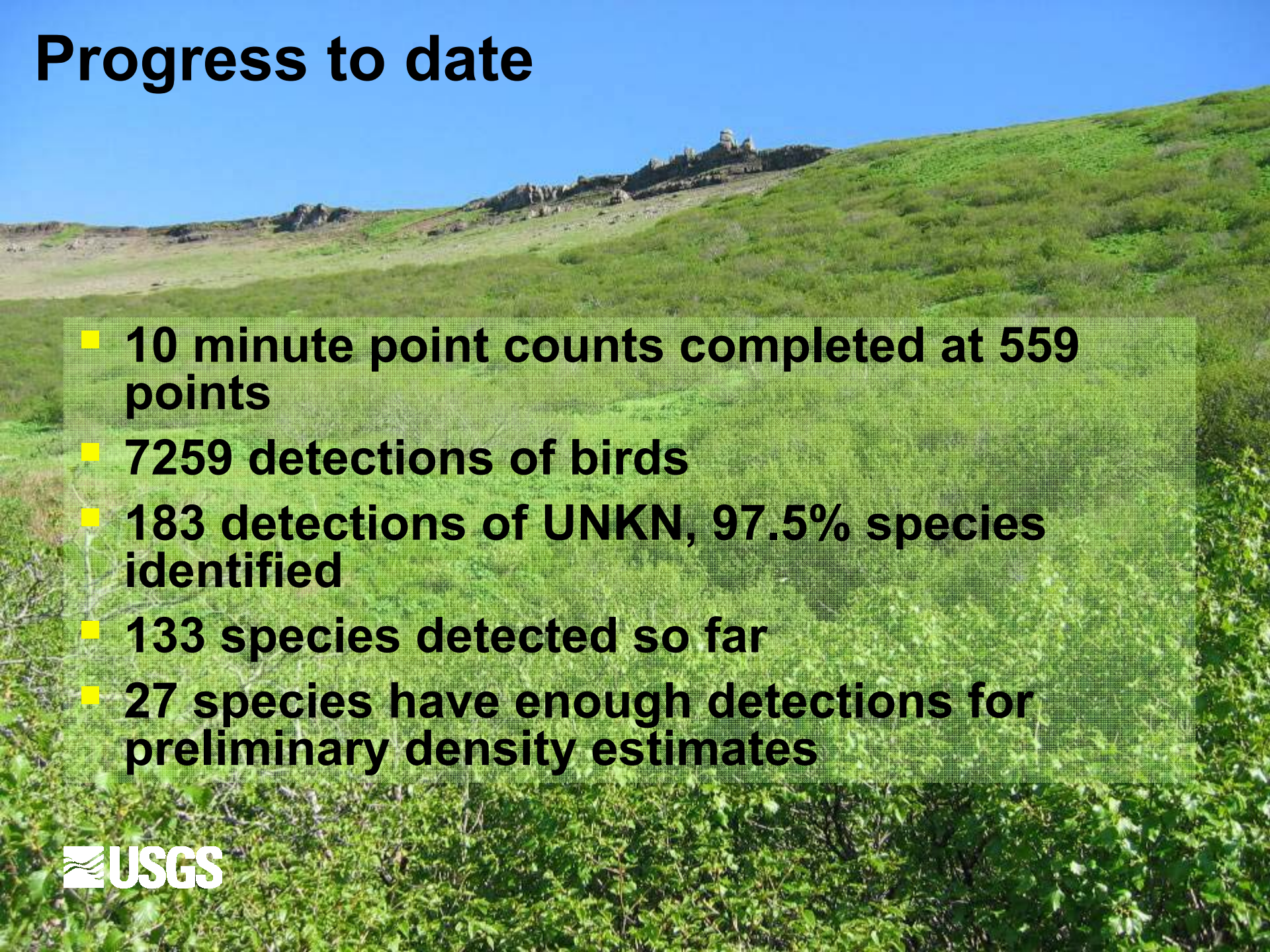


Cooperators 2003-2004

	Number of sites	
Land Unit	2003	2004
Alaska Department of Fish & Game	0	1
Alaska Peninsula/Becharof NWR	0	7
Chugach NF	3	2
Kanuti NWR	3	0
Kenai NWR	1	0
Tongass NF	5	7
Yukon Delta NWR	3	0
TOTAL	15	17

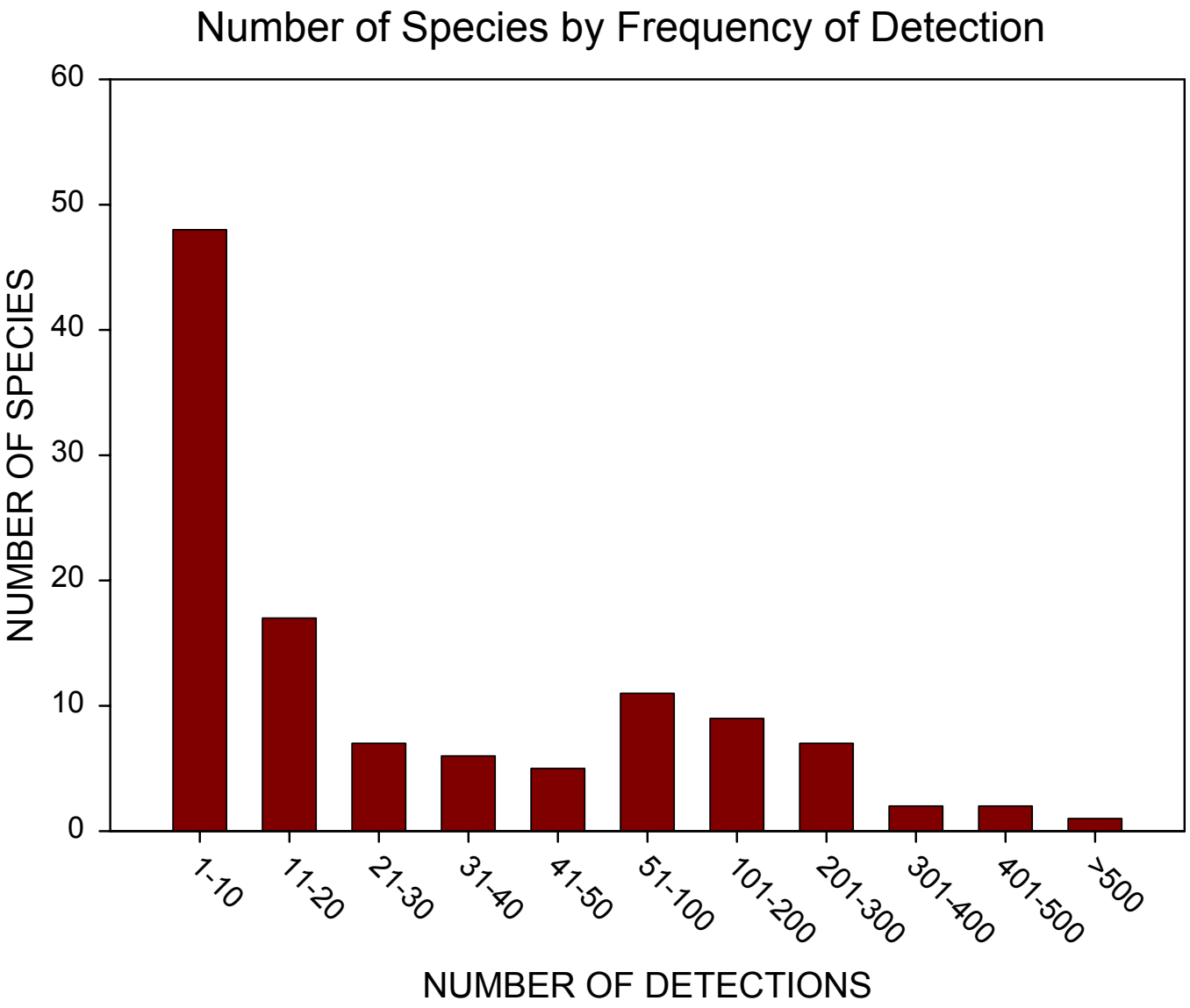
USGS

Progress to date



- 10 minute point counts completed at 559 points
- 7259 detections of birds
- 183 detections of UNKN, 97.5% species identified
- 133 species detected so far
- 27 species have enough detections for preliminary density estimates

USGS

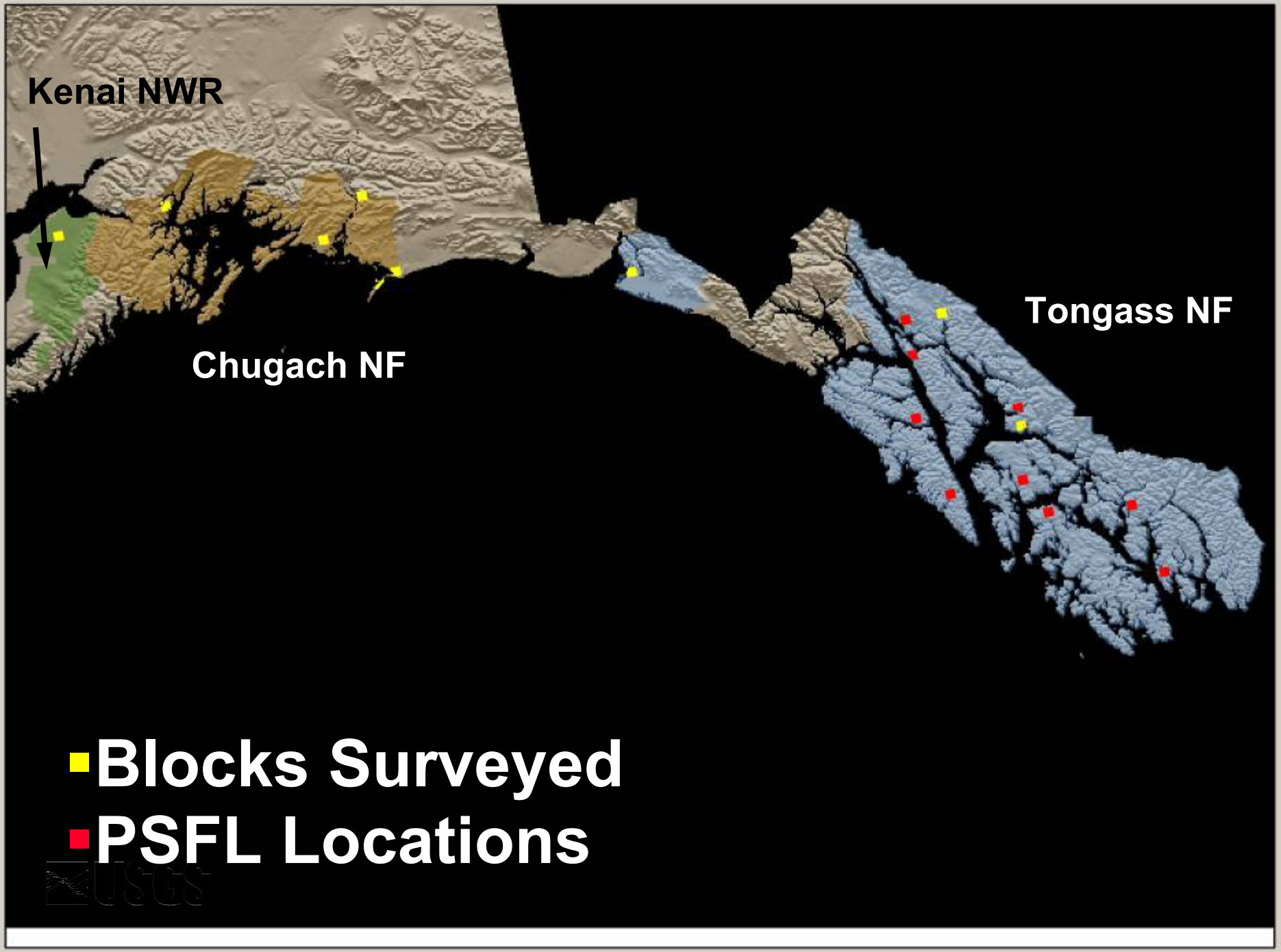

Number of Species by Frequency of Detection
NUMBER OF SPECIES
60
50
40
30
20
10
0
1-10
11-20
21-30
31-40
41-50
51-100
101-200
201-300
301-400
401-500
>500
NUMBER OF DETECTIONS

USGS

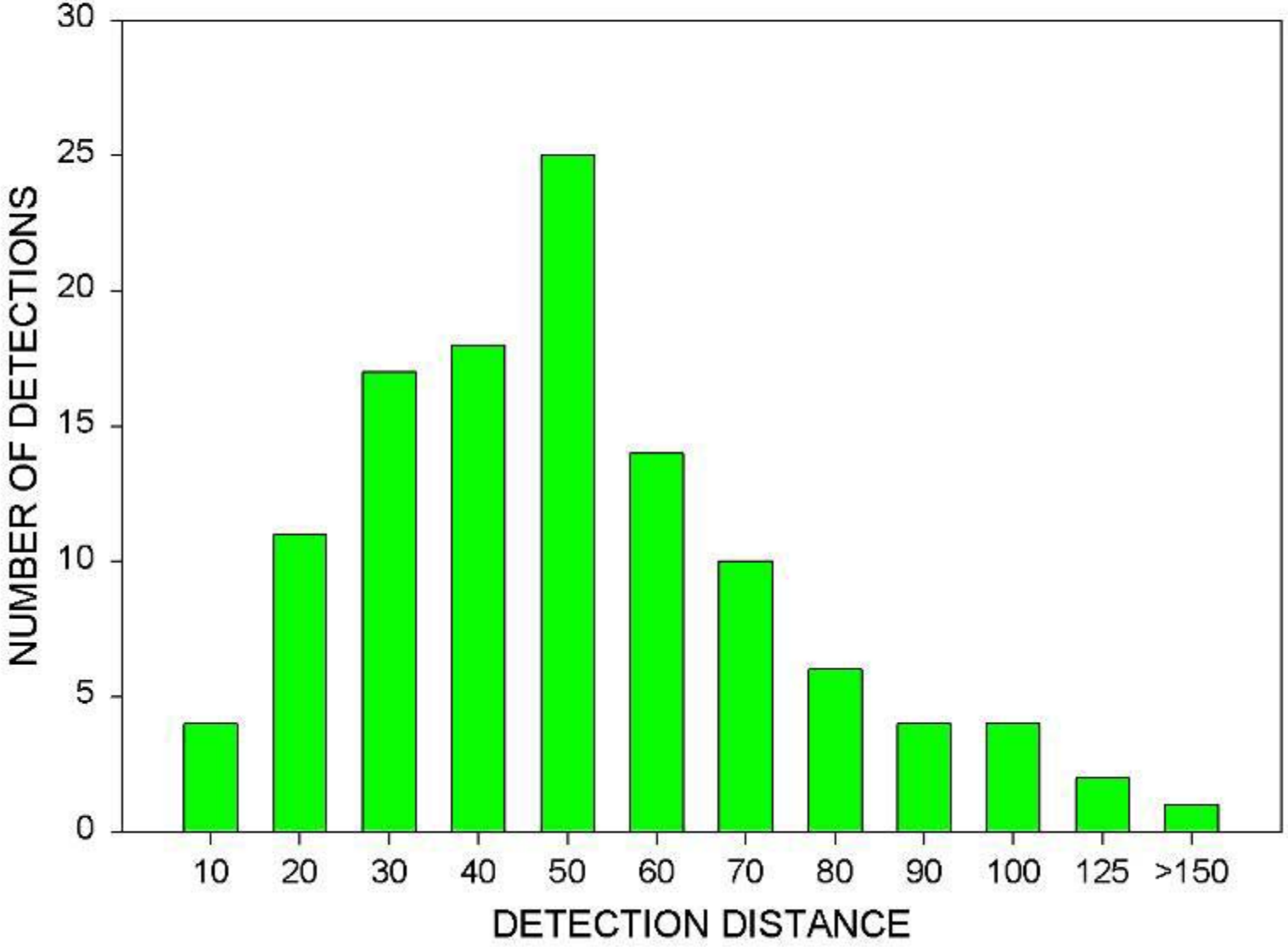
Ten most common species

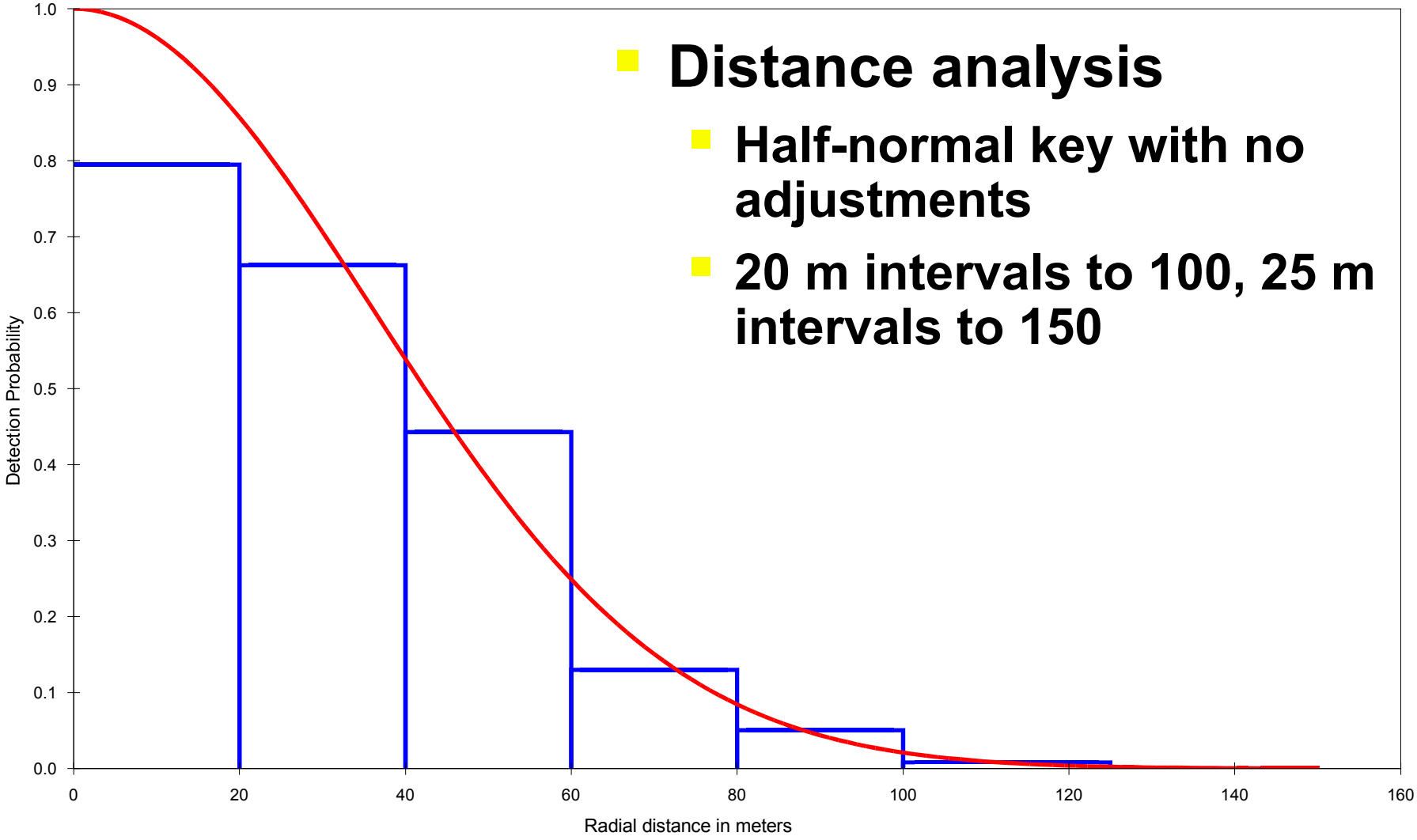
RANK	SPECIES	DETECTIONS
1	SAVS	525
2	HETH	498
3	VATH	417
4	OCWA	369
5	WIWA	367
6	DEJU	292
7	FOSP	263
8	CORE	256
9	ATSP	253
10	RCKI	244

USGS


Kenai NWR
Chugach NF
Tongass NF
Blocks Surveyed
PSFL Locations
USGS

# FREQUENCY OF PSFL DETECTIONS BY DISTANCE BAND
N=118





- **Distance analysis**
  - **Half-normal key with no adjustments**
  - **20 m intervals to 100, 25 m intervals to 150**

USGS

PSFL Density

- BCR 5
  - 0.612 birds/ha
  - 95% CI=0.308-1.215
- Tongass NF
  - 0.987 birds/ha
  - 95% CI=0.571-1.708

USGS

Discussion

- Estimate falls within range of estimated densities from other areas
- Precision will improve as sample sizes increase and stratification becomes possible

USGS

Acknowledgements

- Colleen Handel
- Cooperators
  - ADF&G Nongame Wildlife Program
  - Alaska Peninsula/Becharof NWRs
  - Kanuti NWR
  - Kenai NWR
  - Chugach National Forest
  - Tongass National Forest
  - Yukon Delta NWR

USGS