

AI King Crab Update

AI RKC Survey

Adak area (completed)

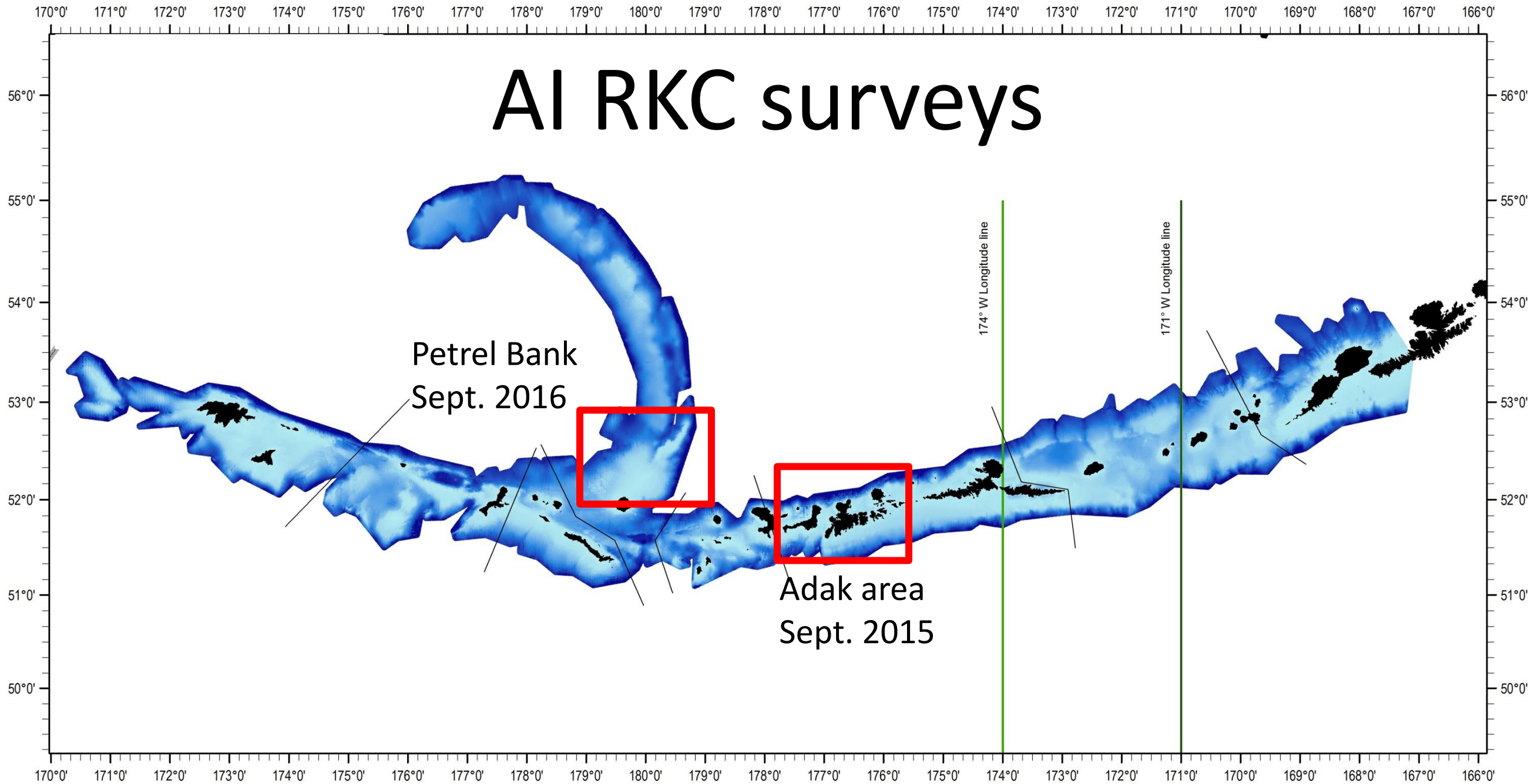
Petrel Bank (Sept. 2016)

AI GKC Cooperative Survey

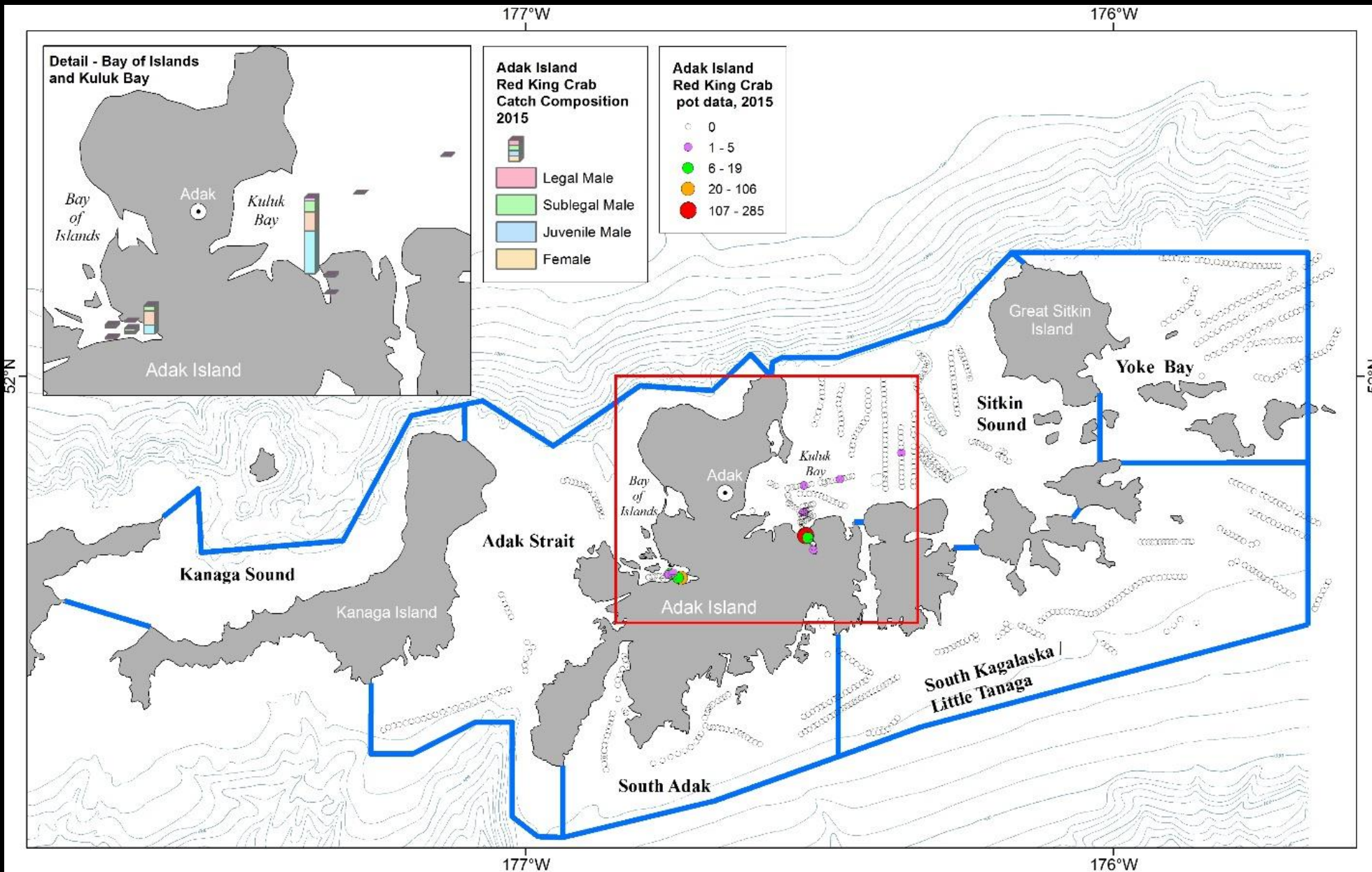
EAG Aug. 2015, EAG + WAG 2016

AI GKC Genetic Stock Structure

AI RKC surveys



Adak RKC Survey



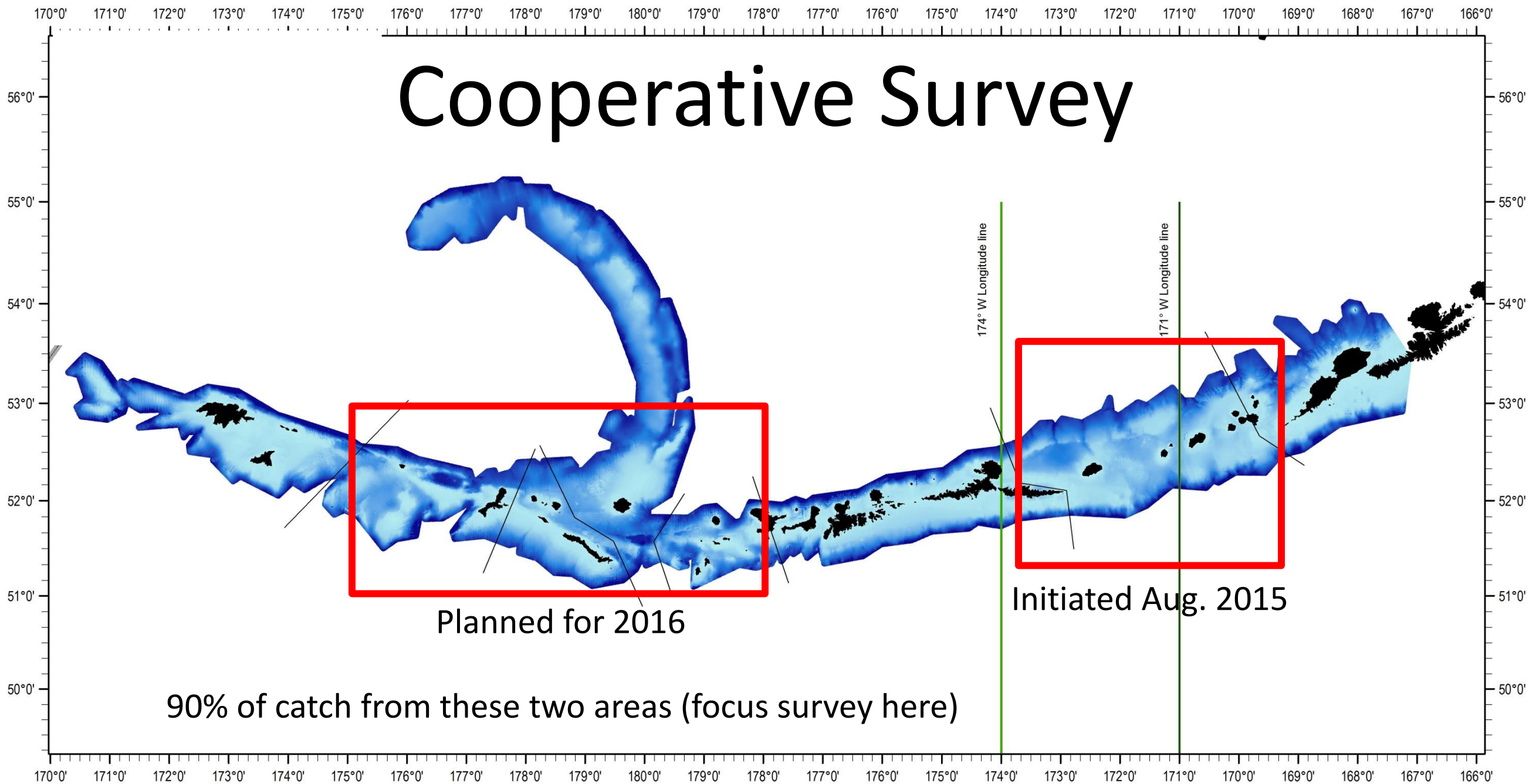
n = 730 potlifts

442 Total RKC caught
88% caught in 2 pots

23 Legal RKC
(0.32crab/pot)
52% Legals in 1 pot

Genetic samples
(to be processed)

Cooperative Survey



Cooperative Survey

Goals:

Increase spatial extent

Reduce potential for hyperstability of CPUE

Initiate consistent time series



Provide cost effective method



Fished Area

Since Rat.

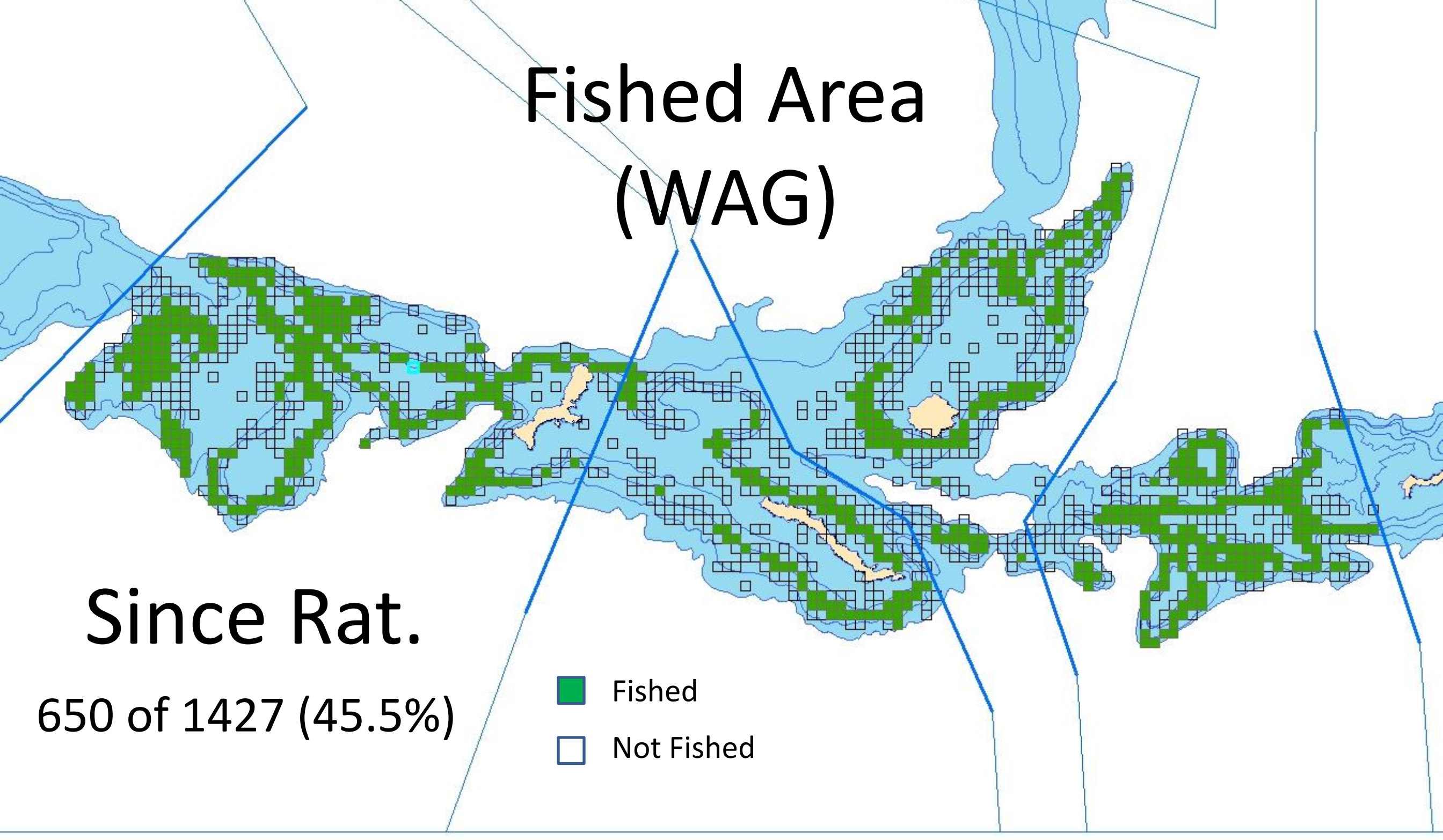
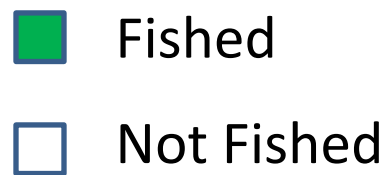
553 of 1100 (50.3%)

-  Fished
-  Not Fished

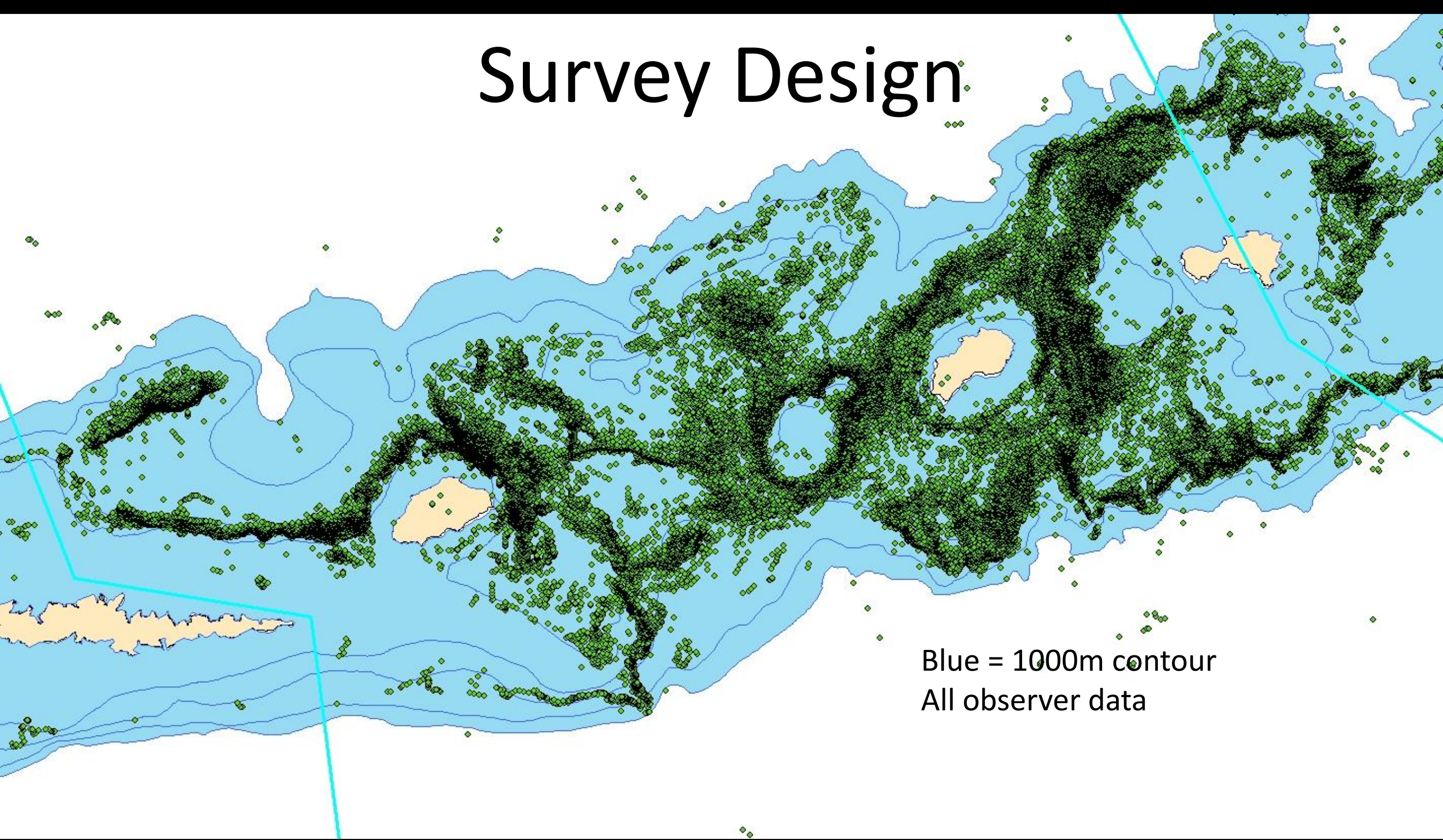
Fished Area (WAG)

Since Rat.

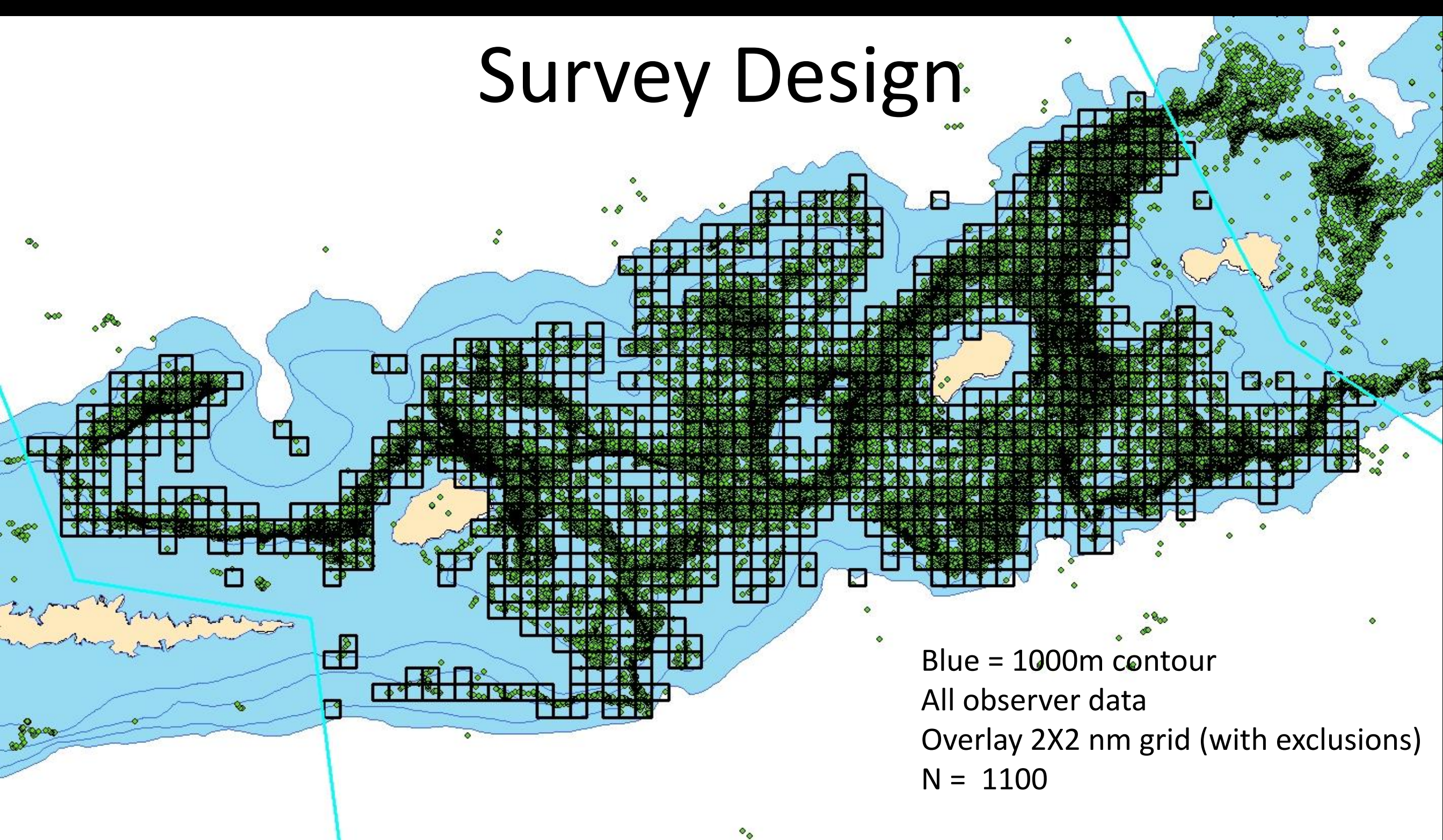
650 of 1427 (45.5%)



Survey Design



Survey Design



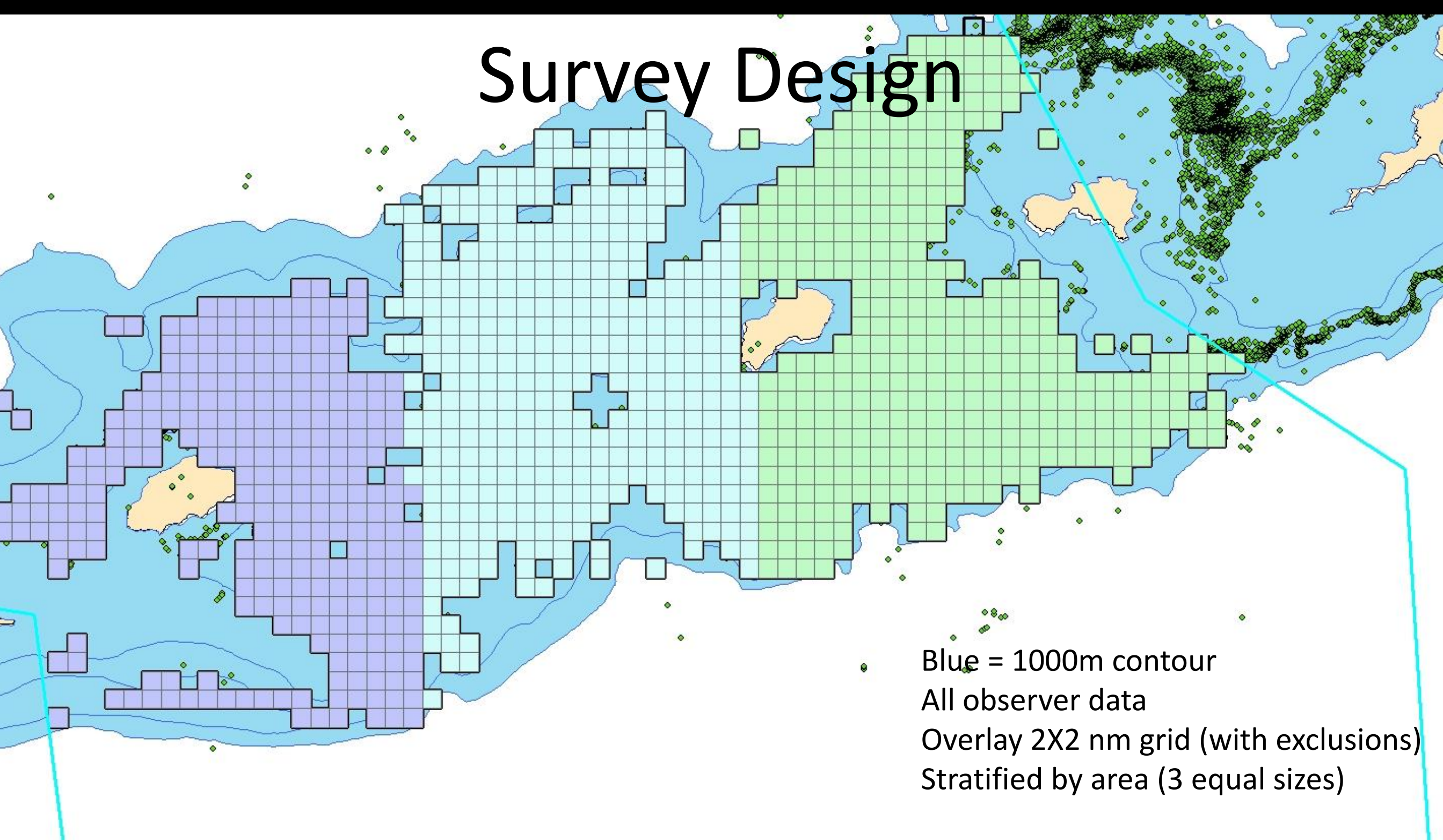
Blue = 1000m contour

All observer data

Overlay 2X2 nm grid (with exclusions)

N = 1100

Survey Design



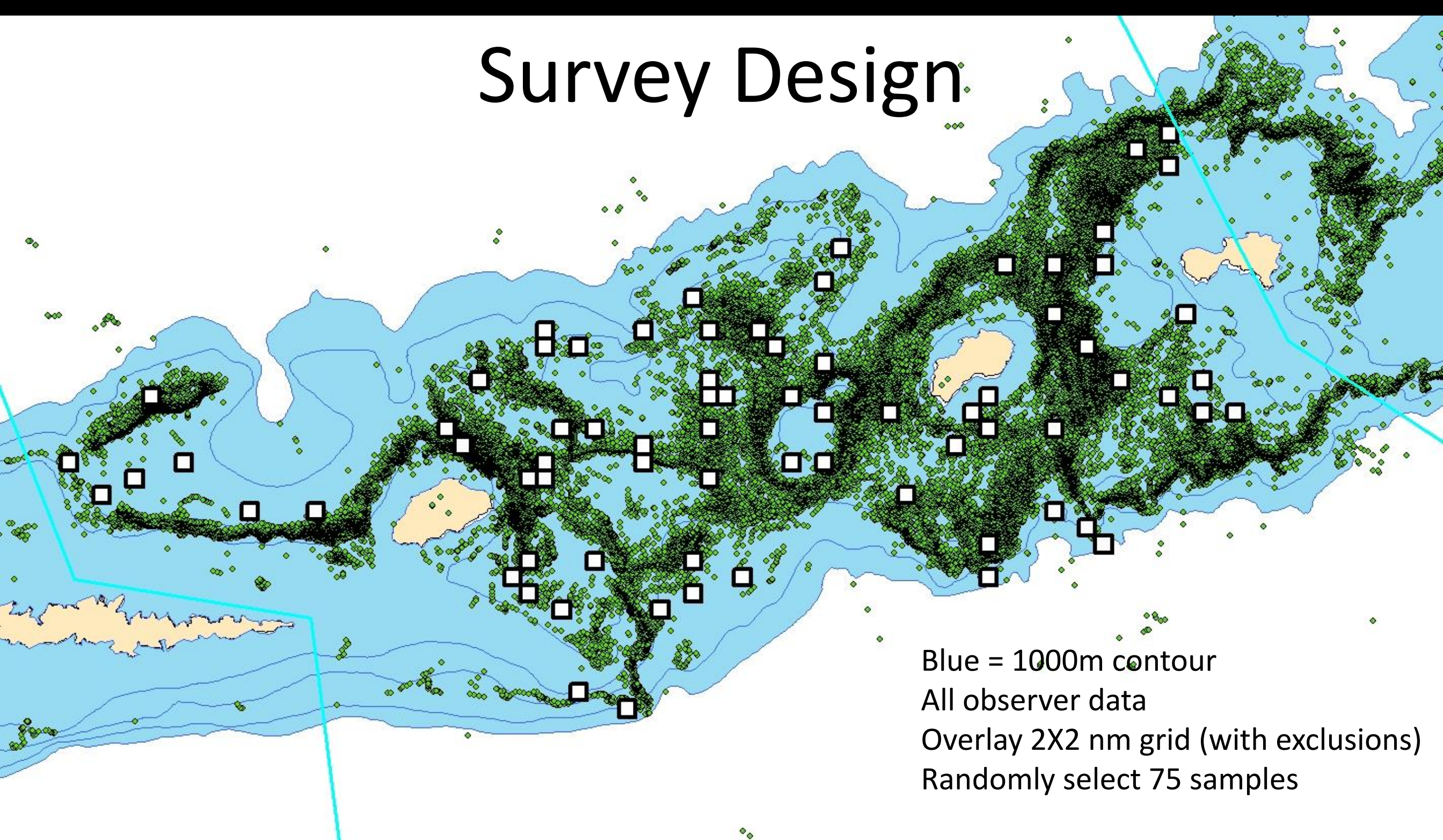
Blue = 1000m contour

All observer data

Overlay 2X2 nm grid (with exclusions)

Stratified by area (3 equal sizes)

Survey Design



Blue = 1000m contour

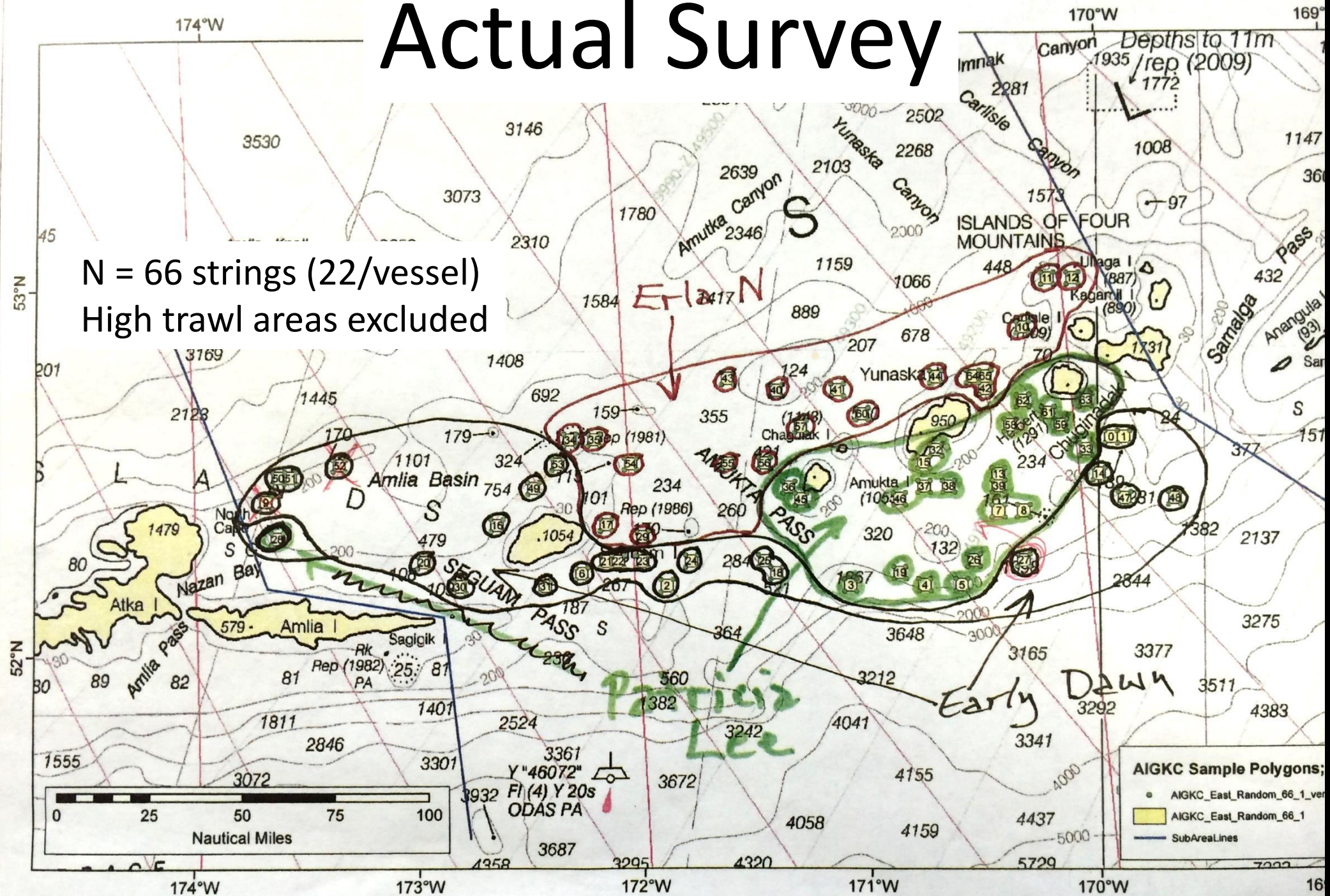
All observer data

Overlay 2X2 nm grid (with exclusions)

Randomly select 75 samples

Actual Survey

N = 66 strings (22/vessel)
High trawl areas excluded



Early Results

Early Dawn: 1 staff, 20 strings, 5 pots/string

5666 Total crab, 2077 measured

Lost one string to Trawl fleet (2 others recovered)

Erla N: 2 staff, 19 strings, 5 pots/string

4352 Total crab, 1414 measured

Patricia Lee: 2 staff, 18 strings, 7 pots/string

5497 Total crab, 2382 measured

n = 57 strings (321 pots)

Next Steps

Examine within and among string variability
(sample size estimates)

Explore better stratification options
(Skipper, Habitat, Effort)

Initiate in WAG (Aug. 2016)

Incorporate small-mesh pots
(Spatial variability in selectivity)

GKC Genetic Sampling

