Na Manu Kai - Maui, Molokai, and Kahoʻolawe

What We Know and What We Need to Learn

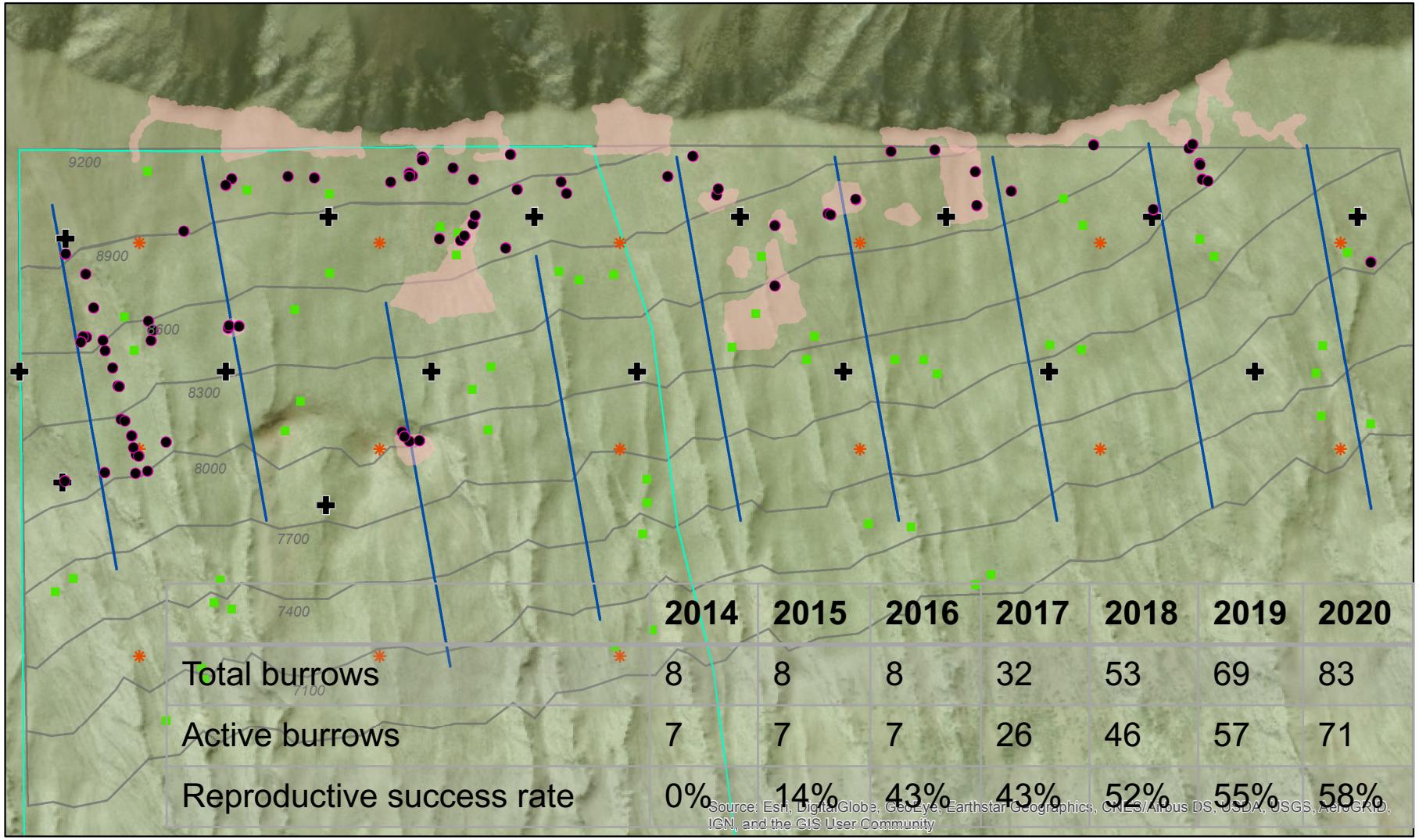
ʻUaʻu - ʻAʻo - ʻAkēʻakē

Jay F. Penniman – Maui Nui Seabird Recovery Project – ESRC – June 3, 2021

Jay Penniman

Teya Penniman

Olli Tenovuo - ABC

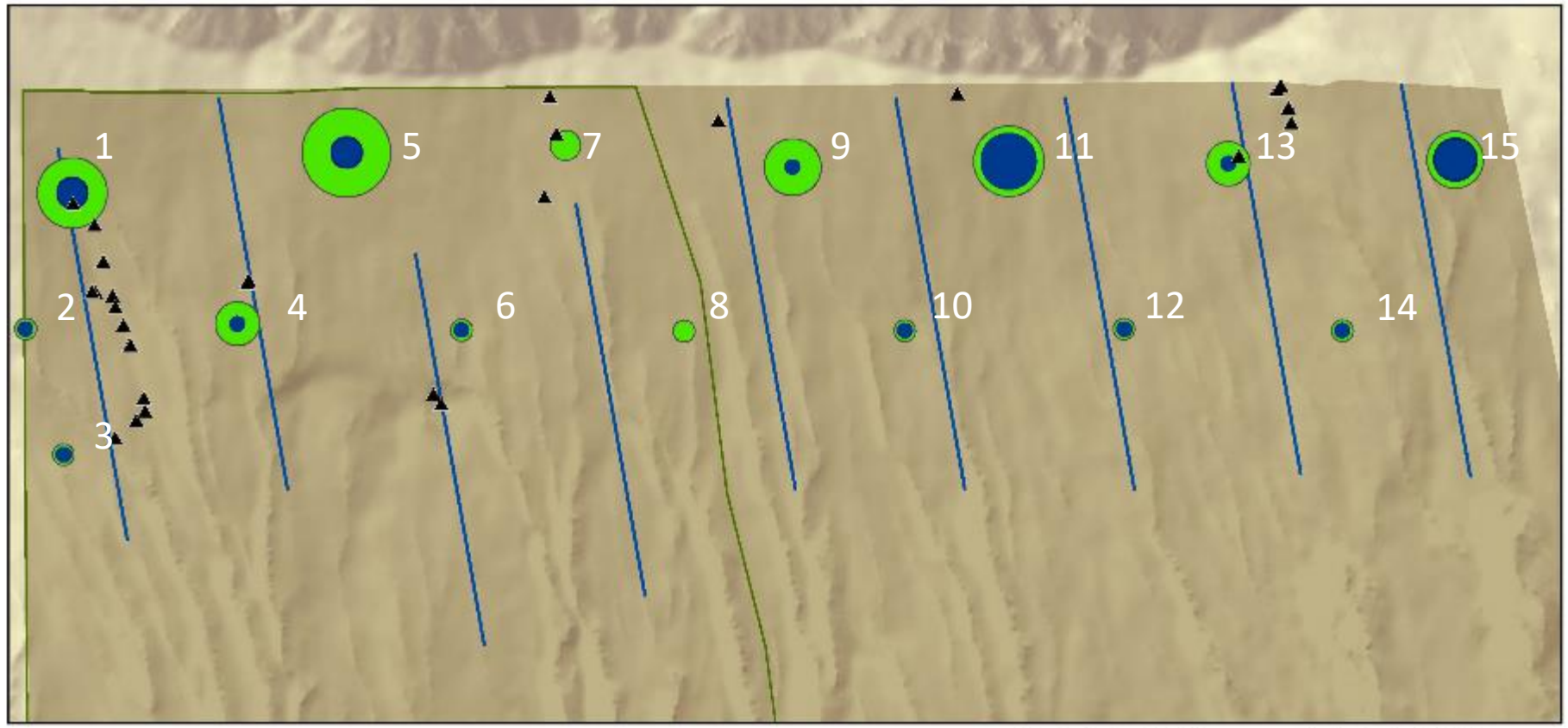


	2014	2015	2016	2017	2018	2019	2020
Total burrows	8	8	8	32	53	69	83
Active burrows	7	7	7	26	46	57	71
Reproductive success rate	0%	14%	43%	43%	52%	55%	58%

0 .25 .5 1 Kilometers

Nakula Natural Area / Kahikinui Forest Reserves:
Hawaiian Petrel Site Activity 2020
Maui Nui Seabird Recovery Project

- HAPE Burrows (n=83)
- Songmeters
- Vegetation plots
- Cat Monitoring Stations
- Predator Track Transects
- 2020 Burrow Search
- Nakula Natural Area Reserve



0 .25 .5 1 Kilometers

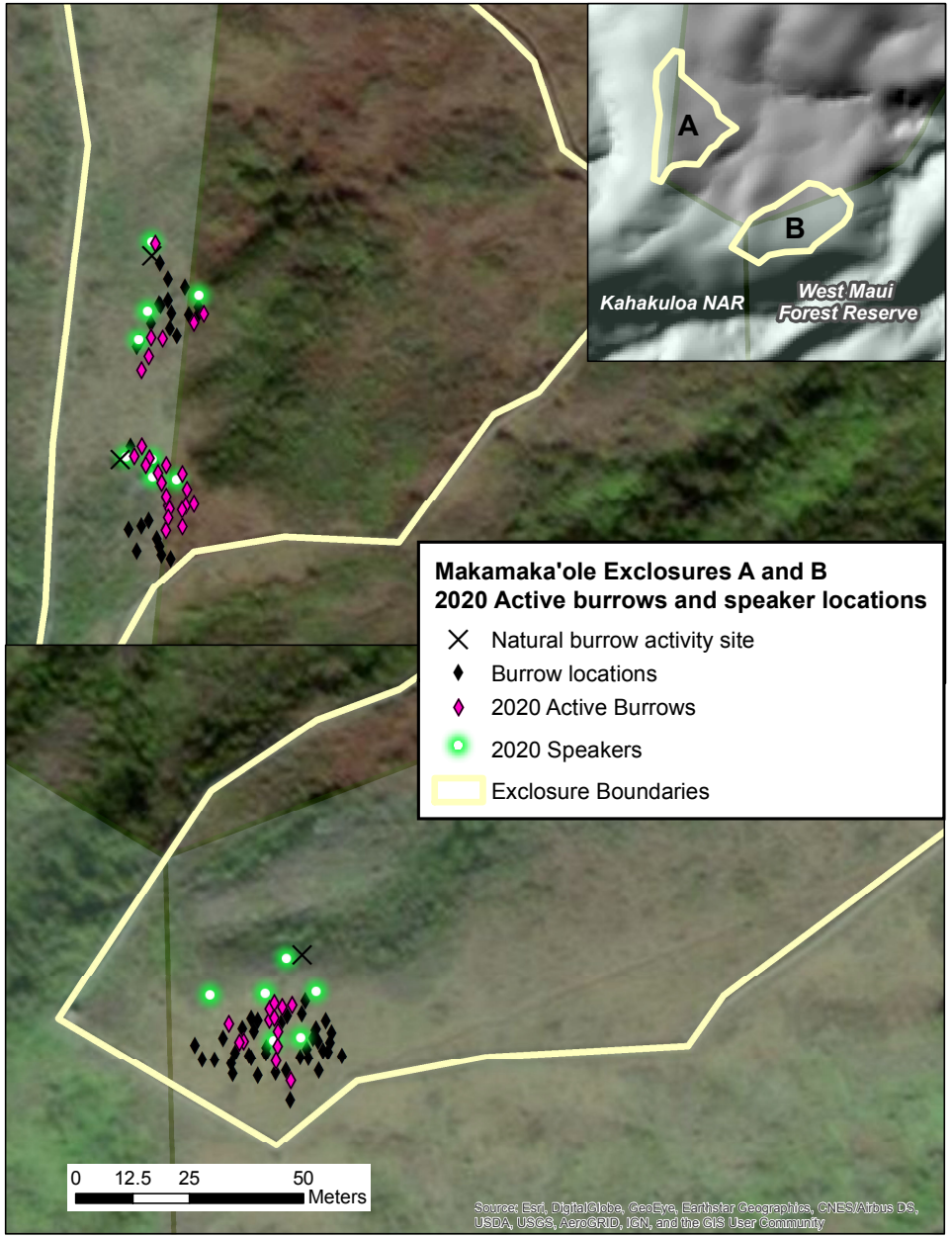
Nakula Natural Area / Kahikinui Forest Reserves: Songmeter History
Maui Nui Seabird Recovery Project

Calls/min 2014
- .01 - .3
- .3 - .75
- .75 - 1.5
- 1.5 - 2.5

Kahikinui_Burrows

Transects

Calls/min 2017
- .01 - .3
- .3 - .75
- .75 - 1.5
- 1.5 - 2.5
- 2.5 - 5.0
- 5.0 - 7.0



Natural and artificial burrow and speaker locations in exclosures A and B

MAUI NUI SEABIRD • RECOVERY PROJECT