

Table S1. POPAN-estimated capture probability, by subarea and year, for each bottlenose dolphin stock included in this study.

Parameter	estimate	se	Stock
p gKA a0 t2003	0.251715	0.04458	Kaua'i/Ni'ihau
p gKA a1 t2004	0.23978	0.042591	Kaua'i/Ni'ihau
p gKA a2 t2005	0.3816	0.052667	Kaua'i/Ni'ihau
p gKA a3 t2006	0.246296	0.043595	Kaua'i/Ni'ihau
p gKA a4 t2007	0.015652	0.011773	Kaua'i/Ni'ihau
p gKA a8 t2011	0.603509	0.064479	Kaua'i/Ni'ihau
p gKA a9 t2012	0.304825	0.054514	Kaua'i/Ni'ihau
p gKA a10 t2013	0.623285	0.062701	Kaua'i/Ni'ihau
p gKA a11 t2014	0.549284	0.060333	Kaua'i/Ni'ihau
p gKA a12 t2015	0.639332	0.060069	Kaua'i/Ni'ihau
p gKA a13 t2016	0.450475	0.065757	Kaua'i/Ni'ihau
p gKA a14 t2017	0.369465	0.064337	Kaua'i/Ni'ihau
p gKA a15 t2018	0.452984	0.071489	Kaua'i/Ni'ihau
p gKB a0 t2003	0.251715	0.04458	Kaua'i/Ni'ihau
p gKB a1 t2004	0.23978	0.042591	Kaua'i/Ni'ihau
p gKB a2 t2005	0.3816	0.052667	Kaua'i/Ni'ihau
p gKB a3 t2006	0.246296	0.043595	Kaua'i/Ni'ihau
p gKB a4 t2007	0.015652	0.011773	Kaua'i/Ni'ihau
p gKB a8 t2011	0.603509	0.064479	Kaua'i/Ni'ihau
p gKB a9 t2012	0.304825	0.054514	Kaua'i/Ni'ihau
p gKB a10 t2013	0.623285	0.062701	Kaua'i/Ni'ihau
p gKB a11 t2014	0.549284	0.060333	Kaua'i/Ni'ihau
p gKB a12 t2015	0.639332	0.060069	Kaua'i/Ni'ihau
p gKB a13 t2016	0.450475	0.065757	Kaua'i/Ni'ihau
p gKB a14 t2017	0.369465	0.064337	Kaua'i/Ni'ihau
p gKB a15 t2018	0.452984	0.071489	Kaua'i/Ni'ihau
p gKC a0 t2003	0.251715	0.04458	Kaua'i/Ni'ihau
p gKC a1 t2004	0.23978	0.042591	Kaua'i/Ni'ihau
p gKC a2 t2005	0.3816	0.052667	Kaua'i/Ni'ihau
p gKC a3 t2006	0.246296	0.043595	Kaua'i/Ni'ihau
p gKC a4 t2007	0.015652	0.011773	Kaua'i/Ni'ihau
p gKC a8 t2011	0.603509	0.064479	Kaua'i/Ni'ihau
p gKC a9 t2012	0.304825	0.054514	Kaua'i/Ni'ihau
p gKC a10 t2013	0.623285	0.062701	Kaua'i/Ni'ihau
p gKC a11 t2014	0.549284	0.060333	Kaua'i/Ni'ihau
p gKC a12 t2015	0.639332	0.060069	Kaua'i/Ni'ihau
p gKC a13 t2016	0.450475	0.065757	Kaua'i/Ni'ihau
p gKC a14 t2017	0.369465	0.064337	Kaua'i/Ni'ihau

p gKC a15 t2018	0.452984	0.071489	Kaua'i/Ni'ihau
p gKD a0 t2003	0.251715	0.04458	Kaua'i/Ni'ihau
p gKD a1 t2004	0.23978	0.042591	Kaua'i/Ni'ihau
p gKD a2 t2005	0.3816	0.052667	Kaua'i/Ni'ihau
p gKD a3 t2006	0.246296	0.043595	Kaua'i/Ni'ihau
p gKD a4 t2007	0.015652	0.011773	Kaua'i/Ni'ihau
p gKD a8 t2011	0.603509	0.064479	Kaua'i/Ni'ihau
p gKD a9 t2012	0.304825	0.054514	Kaua'i/Ni'ihau
p gKD a10 t2013	0.623285	0.062701	Kaua'i/Ni'ihau
p gKD a11 t2014	0.549284	0.060333	Kaua'i/Ni'ihau
p gKD a12 t2015	0.639332	0.060069	Kaua'i/Ni'ihau
p gKD a13 t2016	0.450475	0.065757	Kaua'i/Ni'ihau
p gKD a14 t2017	0.369465	0.064337	Kaua'i/Ni'ihau
p gKD a15 t2018	0.452984	0.071489	Kaua'i/Ni'ihau
p gMA a0 t2002	0.169491	0.062417	O'ahu
p gMA a1 t2003	0.261647	0.081005	O'ahu
p gMA a2 t2004	0.00699	0.009317	O'ahu
p gMA a4 t2006	0.096677	0.041095	O'ahu
p gMA a5 t2007	0.297099	0.075627	O'ahu
p gMA a6 t2008	0.229109	0.063146	O'ahu
p gMA a7 t2009	0.074083	0.034791	O'ahu
p gMA a8 t2010	0.101962	0.04064	O'ahu
p gMA a9 t2011	0.132167	0.046598	O'ahu
p gMA a10 t2012	0.065547	0.03257	O'ahu
p gMA a11 t2013	0.110411	0.041558	O'ahu
p gMA a12 t2014	0.646726	0.085128	O'ahu
p gMA a13 t2015	0.213006	0.057517	O'ahu
p gMA a14 t2016	0.535417	0.087217	O'ahu
p gMA a15 t2017	0.343536	0.074878	O'ahu
p gMA a16 t2018	0.189414	0.057383	O'ahu
p gMB a0 t2002	0.169491	0.062417	O'ahu
p gMB a1 t2003	0.261647	0.081005	O'ahu
p gMB a2 t2004	0.00699	0.009317	O'ahu
p gMB a4 t2006	0.096677	0.041095	O'ahu
p gMB a5 t2007	0.297099	0.075627	O'ahu
p gMB a6 t2008	0.229109	0.063146	O'ahu
p gMB a7 t2009	0.074083	0.034791	O'ahu
p gMB a8 t2010	0.101962	0.04064	O'ahu
p gMB a9 t2011	0.132167	0.046598	O'ahu
p gMB a10 t2012	0.065547	0.03257	O'ahu
p gMB a11 t2013	0.110411	0.041558	O'ahu
p gMB a12 t2014	0.646726	0.085128	O'ahu

p gMB a13 t2015	0.213006	0.057517	O'ahu
p gMB a14 t2016	0.535417	0.087217	O'ahu
p gMB a15 t2017	0.343536	0.074878	O'ahu
p gMB a16 t2018	0.189414	0.057383	O'ahu
p gOA a0 t2002	0.169491	0.062417	O'ahu
p gOA a1 t2003	0.261647	0.081005	O'ahu
p gOA a2 t2004	0.00699	0.009317	O'ahu
p gOA a4 t2006	0.096677	0.041095	O'ahu
p gOA a5 t2007	0.297099	0.075627	O'ahu
p gOA a6 t2008	0.229109	0.063146	O'ahu
p gOA a7 t2009	0.074083	0.034791	O'ahu
p gOA a8 t2010	0.101962	0.04064	O'ahu
p gOA a9 t2011	0.132167	0.046598	O'ahu
p gOA a10 t2012	0.065547	0.03257	O'ahu
p gOA a11 t2013	0.110411	0.041558	O'ahu
p gOA a12 t2014	0.646726	0.085128	O'ahu
p gOA a13 t2015	0.213006	0.057517	O'ahu
p gOA a14 t2016	0.535417	0.087217	O'ahu
p gOA a15 t2017	0.343536	0.074878	O'ahu
p gOA a16 t2018	0.189414	0.057383	O'ahu
p gOB a0 t2002	0.169491	0.062417	O'ahu
p gOB a1 t2003	0.261647	0.081005	O'ahu
p gOB a2 t2004	0.00699	0.009317	O'ahu
p gOB a4 t2006	0.096677	0.041095	O'ahu
p gOB a5 t2007	0.297099	0.075627	O'ahu
p gOB a6 t2008	0.229109	0.063146	O'ahu
p gOB a7 t2009	0.074083	0.034791	O'ahu
p gOB a8 t2010	0.101962	0.04064	O'ahu
p gOB a9 t2011	0.132167	0.046598	O'ahu
p gOB a10 t2012	0.065547	0.03257	O'ahu
p gOB a11 t2013	0.110411	0.041558	O'ahu
p gOB a12 t2014	0.646726	0.085128	O'ahu
p gOB a13 t2015	0.213006	0.057517	O'ahu
p gOB a14 t2016	0.535417	0.087217	O'ahu
p gOB a15 t2017	0.343536	0.074878	O'ahu
p gOB a16 t2018	0.189414	0.057383	O'ahu
p gMA a0 t2000	0.402416	0.127117	Maui Nui
p gMA a1 t2001	0.480448	0.092492	Maui Nui
p gMA a2 t2002	0.253099	0.069855	Maui Nui
p gMA a3 t2003	0.278648	0.459854	Maui Nui
p gMA a4 t2004	0.260413	0.072692	Maui Nui
p gMA a5 t2005	0.330133	0.062172	Maui Nui

p gMA a6 t2006	0.199141	0.047996	Maui Nui
p gMA a7 t2007	0.077771	0.032741	Maui Nui
p gMA a9 t2009	0.102302	0.041312	Maui Nui
p gMA a10 t2010	0.378177	0.092762	Maui Nui
p gMA a11 t2011	0.148488	0.059468	Maui Nui
p gMA a12 t2012	0.466581	0.10218	Maui Nui
p gMA a13 t2013	0.695381	0.102712	Maui Nui
p gMA a14 t2014	0.423077	0.091939	Maui Nui
p gMA a15 t2015	0.415304	0.080794	Maui Nui
p gMA a16 t2016	0.55663	0.095182	Maui Nui
p gMA a17 t2017	0.691109	0.095178	Maui Nui
p gMA a18 t2018	0.816362	0.11437	Maui Nui
p gMB a0 t2000	0.407118	0.069234	Maui Nui
p gMB a1 t2001	0.485941	0.077212	Maui Nui
p gMB a2 t2002	0.255924	0.06471	Maui Nui
p gMB a3 t2003	0.281682	0.072843	Maui Nui
p gMB a4 t2004	0.261607	0.071252	Maui Nui
p gMB a5 t2005	0.325692	0.056845	Maui Nui
p gMB a6 t2006	0.199602	0.047783	Maui Nui
p gMB a7 t2007	0.076795	0.032983	Maui Nui
p gMB a9 t2009	0.103496	0.040796	Maui Nui
p gMB a10 t2010	0.383229	0.085851	Maui Nui
p gMB a11 t2011	0.150542	0.057838	Maui Nui
p gMB a12 t2012	0.470779	0.094127	Maui Nui
p gMB a13 t2013	0.702152	0.080725	Maui Nui
p gMB a14 t2014	0.427732	0.08218	Maui Nui
p gMB a15 t2015	0.419397	0.071353	Maui Nui
p gMB a16 t2016	0.56225	0.079624	Maui Nui
p gMB a17 t2017	0.697116	0.073456	Maui Nui
p gMB a18 t2018	0.823408	0.088884	Maui Nui
p gHA a0 t2002	0.666281	1.360856	Hawai'i
p gHA a1 t2003	0.171124	0.133124	Hawai'i
p gHA a2 t2004	0.539233	0.171746	Hawai'i
p gHA a3 t2005	0.658288	0.109668	Hawai'i
p gHA a4 t2006	0.777687	0.084071	Hawai'i
p gHA a5 t2007	0.108529	0.047699	Hawai'i
p gHA a6 t2008	0.76321	0.077479	Hawai'i
p gHA a7 t2009	0.36728	0.074681	Hawai'i
p gHA a8 t2010	0.51137	0.087002	Hawai'i
p gHA a9 t2011	0.163905	0.054423	Hawai'i
p gHA a10 t2012	0.705921	0.074314	Hawai'i
p gHA a11 t2013	0.319983	0.065963	Hawai'i

p gHA a12 t2014	0.076638	0.035316	Hawai'i
p gHA a13 t2015	0.163304	0.058471	Hawai'i
p gHA a14 t2016	0.409154	0.07681	Hawai'i
p gHA a15 t2017	0.149613	0.046038	Hawai'i
p gHA a16 t2018	0.136897	0.048816	Hawai'i
p gHB a0 t2002	0.666251	1.360861	Hawai'i
p gHB a1 t2003	0.171125	0.13313	Hawai'i
p gHB a2 t2004	0.539201	0.171778	Hawai'i
p gHB a3 t2005	0.658271	0.109704	Hawai'i
p gHB a4 t2006	0.777662	0.08414	Hawai'i
p gHB a5 t2007	0.10852	0.047704	Hawai'i
p gHB a6 t2008	0.763224	0.077484	Hawai'i
p gHB a7 t2009	0.367262	0.074696	Hawai'i
p gHB a8 t2010	0.511359	0.087008	Hawai'i
p gHB a9 t2011	0.163898	0.054426	Hawai'i
p gHB a10 t2012	0.705898	0.074357	Hawai'i
p gHB a11 t2013	0.319982	0.065968	Hawai'i
p gHB a12 t2014	0.076639	0.035319	Hawai'i
p gHB a13 t2015	0.163297	0.058473	Hawai'i
p gHB a14 t2016	0.409144	0.076823	Hawai'i
p gHB a15 t2017	0.149614	0.046043	Hawai'i
p gHB a16 t2018	0.13689	0.048822	Hawai'i

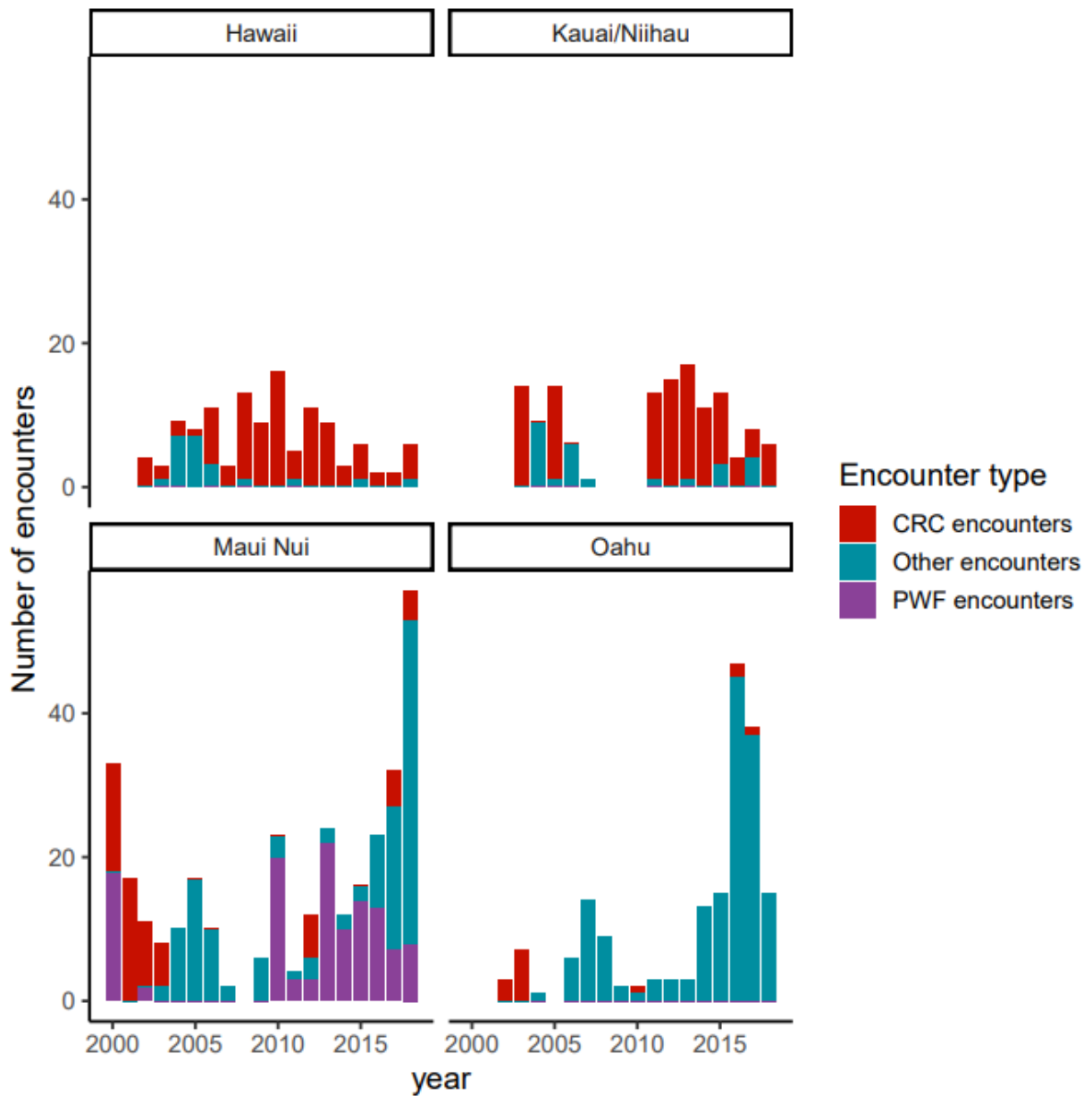


Figure S1. Annual observations by Cascadia Research Collective (CRC), Pacific Whale Foundation (PWF), and citizen scientists (“other”) within each stock over the course of the study.

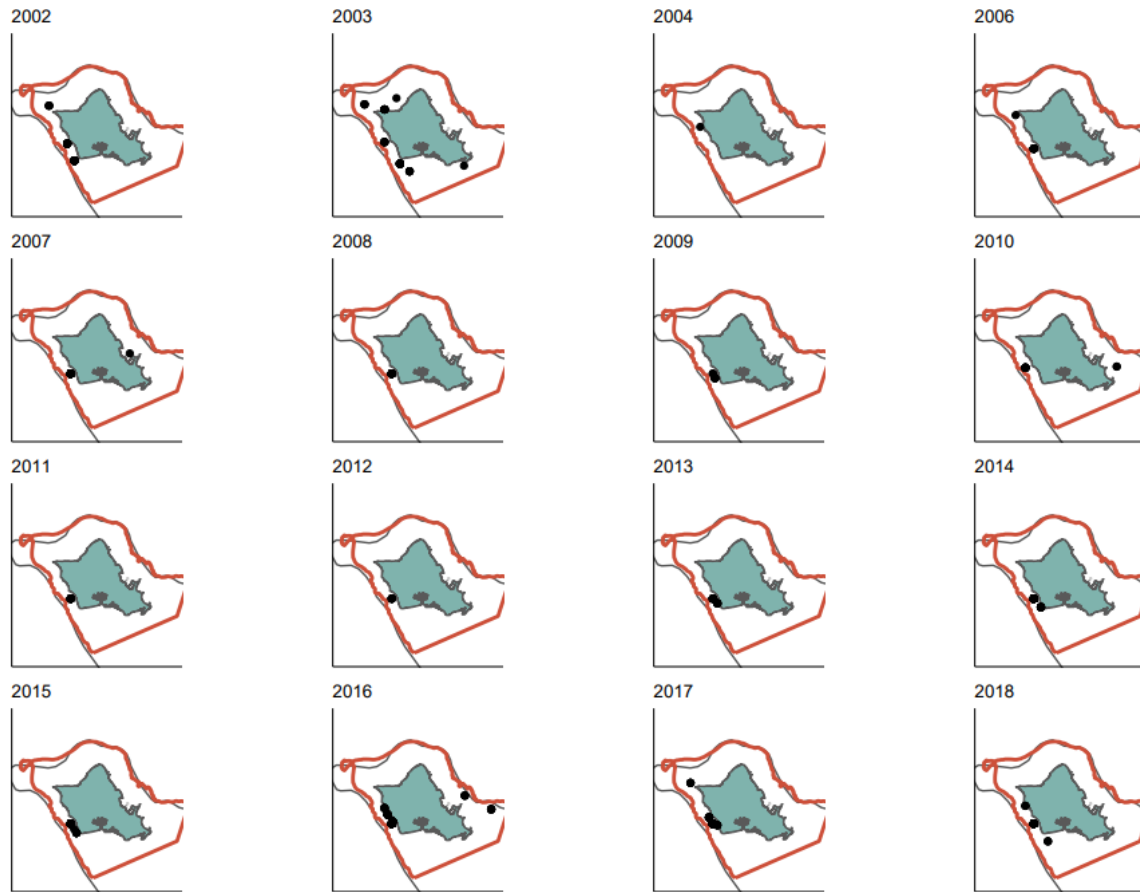


Figure S2. Annual locations of encounters included in this study within the O'ahu stock.

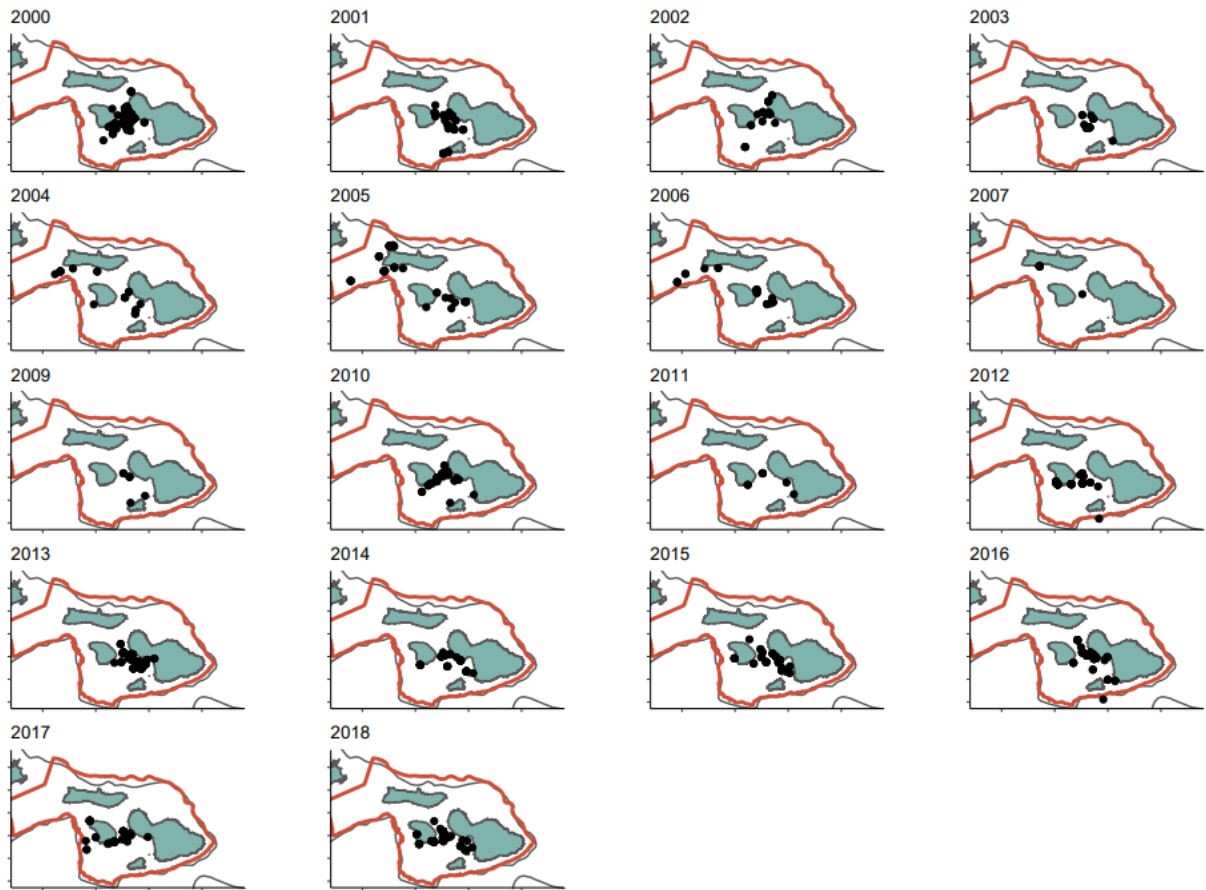


Figure S3. Annual locations of encounters included in this study within the Maui Nui stock.