

**Supplement.**

**Table S1.** Kernel UD estimates in 95% and 50% for all individuals in each period. The animal acoustic identified (ID) is also reported.

ID	MONTH	UD90 (m <sup>2</sup> )	Mean value (UD90)	SD (UD90)	UD50 (m <sup>2</sup> )	Mean value (UD50)	SD (UD50)
14456	June	41295	41295	0	7350	7350	0
14457	June	12	13.5	2.12	3	3	0
	July	15			3		
14458	June	8671	8671	-	2335	2335	0
14459	June	243	243	-	43	43	0
14462	June	447	447	-	115	115	0
14463	June	171	77.25	63.16	35	17.25	12.84
	July	36			6		
	August	44			10		
	September	58			18		
14464	June	5051	5051	-	1168	1168	0
14465	June	47022	19912.33	23478.43	7355	3359	3460.66
	August	6168			1372		
	September	6547			1350		
14468	June	396	492.5	365.61	50	66.5	55.41
	July	736			73		
	August	820			138		
	September	18			5		
14470	June	21195	21195	-	7435	7435	0
14471	June	135	135	-	37	37	0
14472	June	1994	1994	-	725	725	0
14474	June	20168	20168	-	5767	5767	0
14475	June	2786	736.25	1366.59	719	188.75	353.56
	July	53			8		
	August	33			7		
	September	73			21		
14477	June	5650	5650	-	1503	1503	0
14483	June	10391	10391	-	3434	3434	0
14484	June	3076	3076	-	605	605	0
15829	June	44495	44495	-	13156	13156	0
15830	June	47	17.75	19.72	7	3.25	2.63
	July	11			2		
	July	4			1		
	September	9			3		

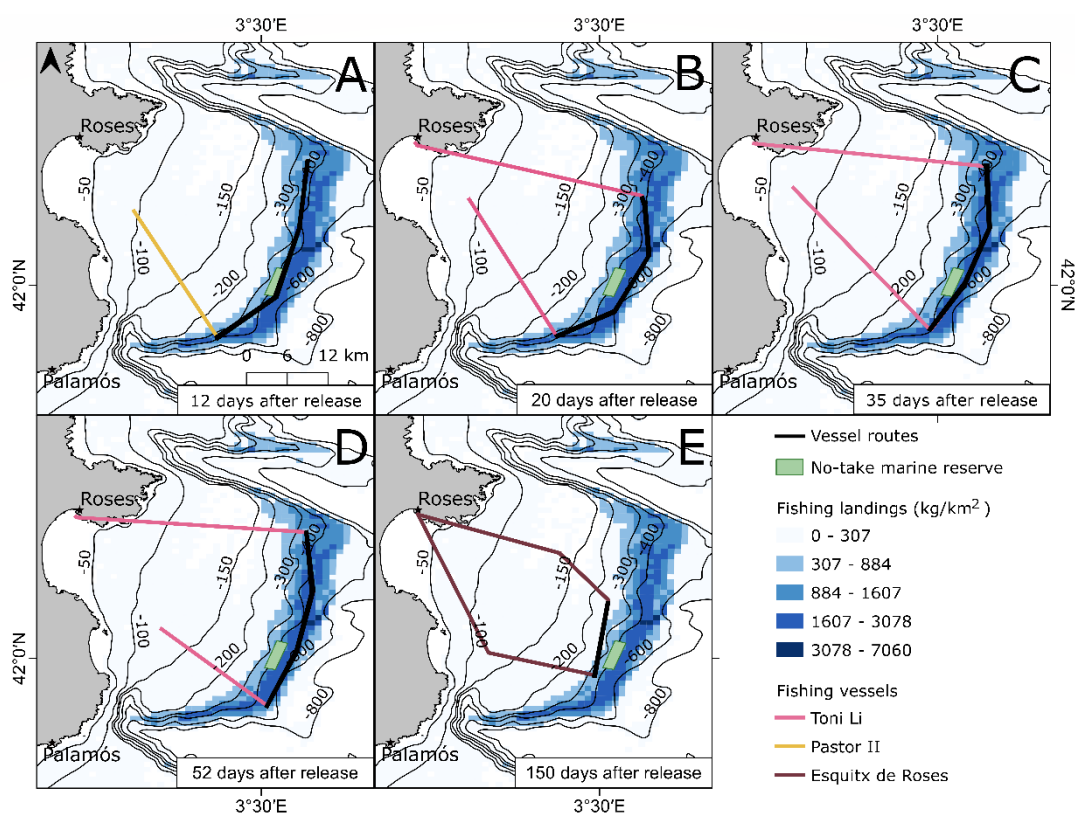
**Table S2.** Values about all the interactions among individuals and overlapping among home ranges. Coefficient of Association (CA) values are reported (in metres, m).

Interactions	UDOI (UD90)	UDOI (UD50)	1 m	5 m	10 m	20 m	50 m
<b>June</b>							
ID 14456 – ID 14457	0	0	0	0	0	0	0.0037
ID 14456 – ID 14458	0.1458	0.0061	0	0	0.0025	0.0025	0.0551
ID 14456 – ID 14459	0	0	0	0	0	0	0
ID 14456 – ID 14462	0.0054	0	0	0	0	0	0
ID 14456 – ID 14463	0.0013	0	0	0	0	0.0009	0.0045
ID 14456 – ID 14464	0.0811	0.0108	0	0	0	0.0018	0.1313
ID 14456 – ID 14465	0.1752	0.0069	0	0.005	0.005	0.0076	0.0076
ID 14456 – ID 14468	0	0	0	0	0	0	0.0009
ID 14456 – ID 14470	0.0464	0.0006	0	0.0027	0.0027	0.0027	0.0107
ID 14456 – ID 14471	0.0009	0	0	0	0.0015	0.0108	0.023
ID 14456 – ID 14472	0.0003	0	0	0	0	0	0.0025
ID 14456 – ID 14474	0.0102	0	0	0.0025	0.0025	0.0025	0.0049
ID 14456 – ID 14475	0.0506	0	0	0	0.0021	0.0154	0.0842
ID 14456 – ID 14477	0.0184	0	0	0	0	0	0.0081
ID 14456 – ID 14483	0.0291	0	0	0	0	0.0027	0.0027
ID 14456 – ID 14484	0.0101	0	0	0	0.0025	0.0025	0.0049
ID 14456 – ID 15829	0.1219	0.00318	0	0	0	0	0.002
ID 14456 – ID 15830	0.0001	0	0	0	0.0012	0.0018	0.0096
ID 14457 – ID 14458	0	0	0	0	0	0	0
ID 14457 – ID 14459	0	0	0	0	0	0.0004	0.0755
ID 14457 – ID 14462	0	0	0	0	0.0014	0.0029	0.0072
ID 14457 – ID 14463	0	0	0	0	0	0	0
ID 14457 – ID 14464	0	0	0	0	0	0	0
ID 14457 – ID 14465	0	0	0	0	0	0	0
ID 14457 – ID 14468	0	0	0	0	0	0.0003	0.2765
ID 14457 – ID 14470	0.0003	0	0	0	0	0	0.0005
ID 14457 – ID 14471	0	0	0	0	0.0005	0.1069	0.1131
ID 14457 – ID 14472	0	0	0	0	0	0	0.0011
ID 14457 – ID 14474	0.0018	0.0004	0	0	0	0.0064	0.0149
ID 14457 – ID 14475	0	0	0	0	0	0	0
ID 14457 – ID 14477	0	0	0	0	0	0	0
ID 14457 – ID 14483	0.0004	0	0	0	0	0	0.0055
ID 14457 – ID 14484	0	0	0	0	0	0.0005	0.0059
ID 14457 – ID 15829	0.0002	0	0	0	0	0	0.002
ID 14457 – ID 15830	0	0	0	0	0	0	0.2875
ID 14458 – ID 14459	0	0	0	0	0	0	0.0091
ID 14458 – ID 14462	0.0917	0.0236	0	0.0009	0.0179	0.258	0.2732
ID 14458 – ID 14463	0	0	0	0	0	0	0.0452
ID 14458 – ID 14464	0.4240	0.0603	0	0	0	0	0.0009
ID 14458 – ID 14465	0.0096	0	0	0	0	0	0.0011
ID 14458 – ID 14468	0	0	0	0	0	0	0.0096
ID 14458 – ID 14470	0.0067	0	0	0	0	0	0.0012
ID 14458 – ID 14471	0	0	0	0	0	0	0
ID 14458 – ID 14472	0.0009	0	0	0	0	0	0.0122
ID 14458 – ID 14474	0.0002	0	0	0	0	0	0.0011
ID 14458 – ID 14475	0.0005	0	0	0	0	0	0.0313
ID 14458 – ID 14477	0.0003	0	0	0	0	0	0.0012
ID 14458 – ID 14483	0.0009	0	0	0	0	0	0.0012
ID 14458 – ID 14484	0.0353	0.0013	0	0	0	0.0011	0.0445
ID 14458 – ID 15829	0.0633	0.0113	0	0	0	0	0
ID 14458 – ID 15830	0	0	0	0	0	0	0.149
ID 14459 – ID 14462	0	0	0	0	0	0.0021	0.2532
ID 14459 – ID 14463	0	0	0	0	0	0	0
ID 14459 – ID 14464	0	0	0	0	0	0	0

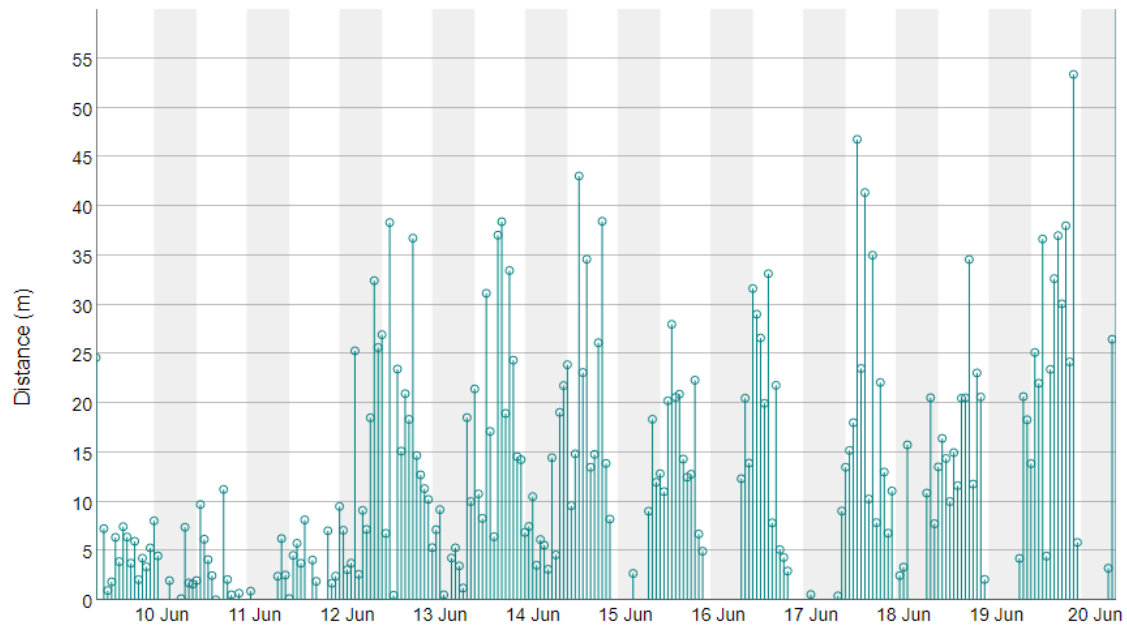
ID 14459 – ID 14465	0.0001	0	0	0	0	0	0	0
ID 14459 – ID 14468	0.5942	0	0.0024	0.0224	0.1165	0.1957	0.2024	
ID 14459 – ID 14470	0.0001	0	0	0	0	0	0	
ID 14459 – ID 14471	0	0	0	0	0	0	0	
ID 14459 – ID 14472	0.0552	0	0	0	0.004	0.0403	0.0819	
ID 14459 – ID 14474	0.0080	0	0	0.0013	0.0067	0.0081	0.0174	
ID 14459 – ID 14475	0	0	0	0	0	0	0	
ID 14459 – ID 14477	0	0	0	0	0	0	0	
ID 14459 – ID 14483	0	0	0	0	0	0	0	
ID 14459 – ID 14484	0.0052	0	0	0	0	0.0081	0.0741	
ID 14459 – ID 15829	0.0011	0	0	0	0	0	0.0096	
ID 14459 – ID 15830	0	0	0	0	0	0	0.1661	
ID 14462 – ID 14463	0	0	0	0	0	0	0	
ID 14462 – ID 14464	0	0	0	0	0	0	0	
ID 14462 – ID 14465	0.0032	0	0	0	0	0	0	
ID 14462 – ID 14468	0	0	0	0	0.0005	0.0028	0.0755	
ID 14462 – ID 14470	0.0085	0	0	0	0	0	0	
ID 14462 – ID 14471	0	0	0	0	0.0052	0.0105	0.0192	
ID 14462 – ID 14472	0	0	0	0	0	0.003	0.0486	
ID 14462 – ID 14474	0	0	0	0	0	0	0.0121	
ID 14462 – ID 14475	0	0	0	0	0	0	0	
ID 14462 – ID 14477	0	0	0	0	0	0	0	
ID 14462 – ID 14483	0	0	0	0	0	0	0	
ID 14462 – ID 14484	0.0127	0	0	0	0	0.0122	0.0856	
ID 14462 – ID 15829	0.0001	0	0	0	0	0	0	
ID 14462 – ID 15830	0	0	0	0	0	0	0.1668	
ID 14463 – ID 14464	0	0	0	0	0	0	0.1192	
ID 14463 – ID 14465	0	0	0	0	0	0.0012	0.0037	
ID 14463 – ID 14468	0	0	0	0	0	0	0	
ID 14463 – ID 14470	0	0	0	0	0	0	0.0013	
ID 14463 – ID 14471	0	0	0	0	0	0	0	
ID 14463 – ID 14472	0	0	0	0	0	0	0	
ID 14463 – ID 14474	0	0	0	0	0	0	0.0012	
ID 14463 – ID 14475	0.0164	0	0	0	0	0.0352	0.1812	
ID 14463 – ID 14477	0	0	0	0	0	0.0013	0.0025	
ID 14463 – ID 14483	0	0	0	0	0	0	0.0013	
ID 14463 – ID 14484	0	0	0	0	0	0	0.0024	
ID 14463 – ID 15829	0.0035	0	0	0	0	0.0033	0.0076	
ID 14463 – ID 15830	0	0	0	0	0	0	0.0005	
ID 14464 – ID 14465	0	0	0	0	0	0.004	0.004	
ID 14464 – ID 14468	0	0	0	0	0	0	0	
ID 14464 – ID 14470	0	0	0	0	0	0.0045	0.0045	
ID 14464 – ID 14471	0	0	0	0	0	0	0	
ID 14464 – ID 14472	0	0	0	0	0	0	0	
ID 14464 – ID 14474	0	0	0	0	0	0.0039	0.0077	
ID 14464 – ID 14475	0.001	0	0	0	0	0.0012	0.0969	
ID 14464 – ID 14477	0	0	0	0	0	0.0045	0.0045	
ID 14464 – ID 14483	0	0	0	0.0045	0.0045	0.009	0.009	
ID 14464 – ID 14484	0	0	0	0	0	0.0039	0.0039	
ID 14464 – ID 15829	0.0639	0.0094	0	0	0	0	0	
ID 14464 – ID 15830	0	0	0	0	0.0007	0.0007	0.0013	
ID 14465 – ID 14468	0.0002	0	0	0	0	0	0	
ID 14465 – ID 14470	0.0011	0	0	0.0152	0.0152	0.0152	0.0152	
ID 14465 – ID 14471	0	0	0	0	0	0	0	
ID 14465 – ID 14472	0.0024	0	0	0	0	0	0	
ID 14465 – ID 14474	0.0005	0	0	0	0.0099	0.0099	0.0099	
ID 14465 – ID 14475	0	0	0	0	0.0015	0.0015	0.0015	
ID 14465 – ID 14477	0.0002	0	0	0	0	0	0.031	
ID 14465 – ID 14483	0.0004	0	0	0	0	0.0159	0.0317	
ID 14465 – ID 14484	0.0094	0	0	0	0.0204	0.0204	0.0204	
ID 14465 – ID 15829	0.0005	0	0	0	0	0	0	
ID 14465 – ID 15830	0.0003	0	0	0	0.0007	0.0015	0.0015	
ID 14468 – ID 14470	0.0007	0	0	0	0	0	0	
ID 14468 – ID 14471	0	0	0	0	0	0	0.0005	
ID 14468 – ID 14472	0.0667	0	0	0	0.001	0.0021	0.0183	
ID 14468 – ID 14474	0.0123	0	0	0	0.0005	0.0016	0.0042	
ID 14468 – ID 14475	0	0	0	0	0	0	0.0016	

ID 14468 – ID 14477	0	0	0	0	0	0	0
ID 14468 – ID 14483	0	0	0	0	0	0	0
ID 14468 – ID 14484	0.0159	0	0	0	0.0005	0.0031	0.0173
ID 14468 – ID 15829	0.0029	0	0	0	0	0	0.0029
ID 14468 – ID 15830	0	0	0	0.0003	0.0009	0.0198	0.2706
ID 14470 – ID 14471	0.0079	0.0009	0	0	0	0.0063	0.0438
ID 14470 – ID 14472	0.0066	0	0	0	0	0	0
ID 14470 – ID 14474	0.1434	0.0233	0	0.0129	0.0129	0.0129	0.0649
ID 14470 – ID 14475	0	0	0	0	0	0.0016	0.0016
ID 14470 – ID 14477	0.2405	0.0359	0	0	0	0.0247	0.1235
ID 14470 – ID 14483	0.4757	0.1018	0	0	0	0.0256	0.0256
ID 14470 – ID 14484	0.0237	0	0	0.0135	0.0135	0.0135	0.0135
ID 14470 – ID 15829	0.1229	0.0166	0	0	0	0	0
ID 14470 – ID 15830	0.0007	0	0	0	0.0008	0.0008	0.0008
ID 14471 – ID 14472	0	0	0	0	0	0	0
ID 14471 – ID 14474	0.0234	0.0055	0	0.0028	0.0564	0.0705	0.0874
ID 14471 – ID 14475	0	0	0	0	0	0	0
ID 14471 – ID 14477	0	0	0	0	0	0	0.0157
ID 14471 – ID 14483	0.0159	0.0011	0	0	0.0063	0.0095	0.0442
ID 14471 – ID 14484	0	0	0	0	0	0	0.0028
ID 14471 – ID 15829	0.0016	0	0	0	0	0	0.0135
ID 14471 – ID 15830	0	0	0	0	0	0	0
ID 14472 – ID 14474	0.0442	0	0	0	0	0.009	0.0631
ID 14472 – ID 14475	0	0	0	0	0	0	0
ID 14472 – ID 14477	0.0016	0	0	0	0	0	0
ID 14472 – ID 14483	0.0036	0	0	0	0	0	0
ID 14472 – ID 14484	0.1664	0.0129	0	0	0	0.02778	0.1296
ID 14472 – ID 15829	0.0051	0	0	0	0	0	0.0099
ID 14472 – ID 15830	0.0141	0	0	0.0015	0.0088	0.0204	0.0401
ID 14474 – ID 14475	0	0	0	0	0.0015	0.0015	0.0015
ID 14474 – ID 14477	0.0049	0	0	0	0	0	0.0265
ID 14474 – ID 14483	0.2886	0.0489	0	0	0	0.027	0.027
ID 14474 – ID 14484	0.0337	0	0	0	0.0092	0.0183	0.0367
ID 14474 – ID 15829	0.0385	0.0014	0	0	0	0	0.0049
ID 14474 – ID 15830	0.0006	0	0	0.0007	0.0007	0.0007	0.0044
ID 14475 – ID 14477	0	0	0	0	0	0.0031	0.0031
ID 14475 – ID 14483	0	0	0	0	0.0016	0.0016	0.0031
ID 14475 – ID 14484	0	0	0	0.0015	0.0029	0.0029	0.0237
ID 14475 – ID 15829	0.0253	0	0	0	0	0	0
ID 14475 – ID 15830	0	0	0	0	0.0005	0.0005	0.0207
ID 14477 – ID 14483	0.0772	0.0018	0	0	0.02667	0.02667	0.02667
ID 14477 – ID 14484	0.0249	0	0	0	0	0.0279	0.0279
ID 14477 – ID 15829	0.1931	0.0428	0	0	0	0	0.0059
ID 14477 – ID 15830	0.0025	0	0	0	0	0	0.0007
ID 14483 – ID 14484	0.0246	0	0	0	0.0141	0.0141	0.0141
ID 14483 – ID 15829	0.0584	0.0017	0	0	0	0	0.006
ID 14483 – ID 15830	0.0016	0	0	0	0	0.0015	0.0023
ID 14484 – ID 15829	0.0219	0	0	0	0	0	0.0049
ID 14484 – ID 15830	0.0212	0	0	0.0058	0.0227	0.0358	0.0446
ID 15829 – ID 15830	0.0009	0	0	0	0	0	0.0123
<b>July</b>							
ID 14457 – ID 14463	0	0	0	0	0	0	0
ID 14457 – ID 14468	0	0	0	0	0	0.0003	0.2352
ID 14457 – ID 14475	0	0	0	0	0	0	0
ID 14457 – ID 15830	0	0	0	0	0	0	0.2811
ID 14463 – ID 14468	0	0	0	0	0	0	0
ID 14463 – ID 14475	0	0	0	0	0	0.0017	0.1442
ID 14463 – ID 15830	0	0	0	0	0	0	0
ID 14468 – ID 14475	0	0	0	0	0	0	0
ID 14468 – ID 15830	0	0	0	0.0005	0.0046	0.0498	0.4173
ID 14475 – ID 15830	0	0	0	0	0	0	0
<b>August</b>							
ID 14463 – ID 14465	0	0	0	0	0	0	0
ID 14463 – ID 14468	0	0	0	0	0	0	0
ID 14463 – ID 14475	0	0	0	0	0.0049	0.0425	0.3252
ID 14463 – ID 15830	0	0	0	0	0	0	0

ID 14465 – ID 14468	0	0	0	0	0	0	0
ID 14465 – ID 14475	0	0	0	0	0	0	0
ID 14465 – ID 15830	0	0	0	0	0	0	0
ID 14468 – ID 14475	0	0	0	0	0	0	0
ID 14468 – ID 15830	0	0	0	0.0002	0.003	0.0181	0.2491
ID 14475 – ID 15830	0	0	0	0	0	0	0
<b>September</b>							
ID 14463 – ID 14465	0	0	0	0	0	0	0
ID 14463 – ID 14468	0	0	0	0	0	0	0
ID 14463 – ID 14475	0	0	0	0	0.0163	0.1683	0.2853
ID 14463 – ID 15830	0	0	0	0	0	0	0
ID 14465 – ID 14468	0	0	0	0	0	0	0
ID 14465 – ID 14475	0	0	0	0	0	0	0
ID 14465 – ID 15830	0	0	0	0	0	0	0
ID 14468 – ID 14475	0	0	0	0	0	0	0
ID 14468 – ID 15830	0	0	0	0	0	0	0.2417
ID 14475 – ID 15830	0	0	0	0	0	0	0



**Figure S1.** Trajectories of the trawlers that recaptured the 5 Norway lobsters with coded tags (previously released inside the no-take reserve). The number of days after the release is also indicated. The recaptured Norway lobsters in the panels AD were also instrumented with an acoustic tag.



**Figure S2.** Distance in metres covered per hour of individual 14459 captured on 20<sup>th</sup> of June by the fishing vessel Pastor II. Dark shadows represent dark hours.