

Len Thomas

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

9,399
citations

57758

44
h-index

42399

92
g-index

131
all docs

131
docs citations

131
times ranked

7423
citing authors

#	ARTICLE	IF	CITATIONS
1	Distance software: design and analysis of distance sampling surveys for estimating population size. <i>Journal of Applied Ecology</i> , 2010, 47, 5-14.	4.0	1,621
2	State-space models of individual animal movement. <i>Trends in Ecology and Evolution</i> , 2008, 23, 87-94.	8.7	708
3	Estimating animal population density using passive acoustics. <i>Biological Reviews</i> , 2013, 88, 287-309.	10.4	495
4	Retrospective Power Analysis. <i>Conservation Biology</i> , 1997, 11, 276-280.	4.7	333
5	Flexible and practical modeling of animal telemetry data: hidden Markov models and extensions. <i>Ecology</i> , 2012, 93, 2336-2342.	3.2	311
6	Estimating cetacean population density using fixed passive acoustic sensors: An example with Blainville's beaked whales. <i>Journal of the Acoustical Society of America</i> , 2009, 125, 1982-1994.	1.1	257
7	Spatial models for distance sampling data: recent developments and future directions. <i>Methods in Ecology and Evolution</i> , 2013, 4, 1001-1010.	5.2	256
8	A general discrete-time modeling framework for animal movement using multistate random walks. <i>Ecological Monographs</i> , 2012, 82, 335-349.	5.4	222
9	Design and Analysis of Line Transect Surveys for Primates. <i>International Journal of Primatology</i> , 2010, 31, 833-847.	1.9	219
10	Improving Estimates of Bird Density Using Multiple- Covariate Distance Sampling. <i>Auk</i> , 2007, 124, 1229-1243.	1.4	207
11	First direct measurements of behavioural responses by Cuvier's beaked whales to mid-frequency active sonar. <i>Biology Letters</i> , 2013, 9, 20130223.	2.3	200
12	Understanding the population consequences of disturbance. <i>Ecology and Evolution</i> , 2018, 8, 9934-9946.	1.9	186
13	The importance of statistical power analysis: an example from <i>Animal Behaviour</i> . <i>Animal Behaviour</i> , 1996, 52, 856-859.	1.9	172
14	IMPROVING ESTIMATES OF BIRD DENSITY USING MULTIPLE- COVARIATE DISTANCE SAMPLING. <i>Auk</i> , 2007, 124, 1229.	1.4	169
15	Monitoring Long-Term Population Change: Why are there so Many Analysis Methods?. <i>Ecology</i> , 1996, 77, 49-58.	3.2	152
16	Statistical modelling of individual animal movement: an overview of key methods and a discussion of practical challenges. <i>ASTA Advances in Statistical Analysis</i> , 2017, 101, 399-438.	0.9	122
17	Metapopulation consequences of site fidelity for colonially breeding mammals and birds. <i>Journal of Animal Ecology</i> , 2005, 74, 716-727.	2.8	118
18	Estimating the Encounter Rate Variance in Distance Sampling. <i>Biometrics</i> , 2009, 65, 225-236.	1.4	115

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19	An interim framework for assessing the population consequences of disturbance. <i>Methods in Ecology and Evolution</i> , 2015, 6, 1150-1158.	5.2	114
20	Inferences About Landbird Abundance from Count Data: Recent Advances and Future Directions. , 2009, , 201-235.		111
21	Embedding Population Dynamics Models in Inference. <i>Statistical Science</i> , 2007, 22, .	2.8	105
22	Cetacean population density estimation from single fixed sensors using passive acoustics. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 3610-3622.	1.1	99
23	Novel survey method finds dramatic decline of wild cotton-top tamarin population. <i>Nature Communications</i> , 2010, 1, 30.	12.8	98
24	A guide to stateâ€‘space modeling of ecological time series. <i>Ecological Monographs</i> , 2021, 91, e01470.	5.4	97
25	A method for detecting whistles, moans, and other frequency contour sounds. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 4055-4061.	1.1	91
26	From echolocation clicks to animal densityâ€‘Acoustic sampling of harbor porpoises with static dataloggers. <i>Journal of the Acoustical Society of America</i> , 2012, 131, 550-560.	1.1	90
27	Modelling the biological significance of behavioural change in coastal bottlenose dolphins in response to disturbance. <i>Functional Ecology</i> , 2013, 27, 314-322.	3.6	89
28	Passive acoustic monitoring of the decline of Mexico's critically endangered vaquita. <i>Conservation Biology</i> , 2017, 31, 183-191.	4.7	87
29	Evidence for density-dependent changes in body condition and pregnancy rate of North Atlantic fin whales over four decades of varying environmental conditions. <i>ICES Journal of Marine Science</i> , 2013, 70, 1273-1280.	2.5	85
30	Decline towards extinction of Mexico's vaquita porpoise (<i>Phocoena sinus</i>). <i>Royal Society Open Science</i> , 2019, 6, 190598.	2.4	82
31	A UNIFIED FRAMEWORK FOR MODELLING WILDLIFE POPULATION DYNAMICS+. <i>Australian and New Zealand Journal of Statistics</i> , 2005, 47, 19-34.	0.9	81
32	Extinction is Imminent for Mexico's Endemic Porpoise Unless Fishery Bycatch is Eliminated. <i>Conservation Letters</i> , 2017, 10, 588-595.	5.7	79
33	Dose-response relationships for the onset of avoidance of sonar by free-ranging killer whales. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 975-993.	1.1	78
34	Field Trials of Line Transect Methods Applied to Estimation of Desert Tortoise Abundance. <i>Journal of Wildlife Management</i> , 2001, 65, 583.	1.8	73
35	Longâ€‘term trends in carnivore abundance using distance sampling in Serengeti National Park, Tanzania. <i>Journal of Applied Ecology</i> , 2011, 48, 1490-1500.	4.0	65
36	Passive acoustic monitoring of beaked whale densities in the Gulf of Mexico. <i>Scientific Reports</i> , 2015, 5, 16343.	3.3	65

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37	Marine mammals and sonar: Dose-response studies, the risk-disturbance hypothesis and the role of exposure context. <i>Journal of Applied Ecology</i> , 2018, 55, 396-404.	4.0	64
38	Understanding the combined effects of multiple stressors: A new perspective on a longstanding challenge. <i>Science of the Total Environment</i> , 2022, 821, 153322.	8.0	64
39	Changes in spatial and temporal distribution and vocal behavior of Blainville's beaked whales (<i>Mesoplodon densirostris</i>) during multiship exercises with mid-frequency sonar. <i>Marine Mammal Science</i> , 2011, 27, E206.	1.8	62
40	The Importance of Analysis Method for Breeding Bird Survey Population Trend Estimates. <i>Conservation Biology</i> , 1996, 10, 479-490.	4.7	58
41	Basin-scale distribution of harbour porpoises in the Baltic Sea provides basis for effective conservation actions. <i>Biological Conservation</i> , 2018, 226, 42-53.	4.1	57
42	Cost-effective abundance estimation of rare animals: Testing performance of small-boat surveys for killer whales in British Columbia. <i>Biological Conservation</i> , 2009, 142, 1542-1547.	4.1	51
43	A Risk Function for Behavioral Disruption of Blainville's Beaked Whales (<i>Mesoplodon densirostris</i>) from Mid-Frequency Active Sonar. <i>PLoS ONE</i> , 2014, 9, e85064.	2.5	51
44	Monte Carlo Inference for State-Space Models of Wild Animal Populations. <i>Biometrics</i> , 2009, 65, 572-583.	1.4	48
45	Applying distance sampling to fin whale calls recorded by single seismic instruments in the northeast Atlantic. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 3522-3535.	1.1	48
46	Passive Acoustic Monitoring for Estimating Animal Density. <i>Acoustics Today</i> , 2012, 8, 35.	1.0	47
47	Line Transect Sampling of Primates: Can Animal-to-Observer Distance Methods Work?. <i>International Journal of Primatology</i> , 2010, 31, 485-499.	1.9	46
48	Estimating minke whale (<i>Balaenoptera acutorostrata</i>) boing sound density using passive acoustic sensors. <i>Marine Mammal Science</i> , 2013, 29, 142-158.	1.8	46
49	Point transect sampling with traps or lures. <i>Journal of Applied Ecology</i> , 2006, 43, 377-384.	4.0	45
50	REVIEW Assessing North Atlantic right whale health: threats, and development of tools critical for conservation of the species. <i>Diseases of Aquatic Organisms</i> , 2021, 143, 205-226.	1.0	44
51	Estimating resource acquisition and at-sea body condition of a marine predator. <i>Journal of Animal Ecology</i> , 2013, 82, 1300-1315.	2.8	42
52	Statistical ecology comes of age. <i>Biology Letters</i> , 2014, 10, 20140698.	2.3	40
53	Inter-annual and seasonal trends in cetacean distribution, density and abundance off southern California. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 112, 143-157.	1.4	39
54	The Effect of Animal Movement on Line Transect Estimates of Abundance. <i>PLoS ONE</i> , 2015, 10, e0121333.	2.5	39

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55	Population-level consequences of seismic surveys on fishes: An interdisciplinary challenge. <i>Fish and Fisheries</i> , 2019, 20, 653-685.	5.3	38
56	An Efficient Acoustic Density Estimation Method with Human Detectors Applied to Gibbons in Cambodia. <i>PLoS ONE</i> , 2016, 11, e0155066.	2.5	36
57	Roaring and repetition: How bowhead whales adjust their call density and source level (Lombard) Tj ETQq1 1 0.784314 rgBT /Overlock of America, 2020, 147, 2061-2080.	1.1	34
58	dsmextra: Extrapolation assessment tools for density surface models. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1464-1469.	5.2	33
59	Fin whale density and distribution estimation using acoustic bearings derived from sparse arrays. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 2980-2993.	1.1	32
60	Spatially explicit capture-recapture methods to estimate minke whale density from data collected at bottom-mounted hydrophones. <i>Journal of Ornithology</i> , 2012, 152, 445-455.	1.1	31
61	Passive acoustic density estimation of sperm whales in the Tongue of the Ocean, Bahamas. <i>Marine Mammal Science</i> , 2012, 28, E444.	1.8	31
62	Comparing methods suitable for monitoring marine mammals in low visibility conditions during seismic surveys. <i>Marine Pollution Bulletin</i> , 2018, 126, 1-18.	5.0	31
63	Modelling the population size and dynamics of the British grey seal. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019, 29, 6-23.	2.0	31
64	A path reconstruction method integrating dead-reckoning and position fixes applied to humpback whales. <i>Movement Ecology</i> , 2015, 3, 31.	2.8	29
65	Gauging allowable harm limits to cumulative, sub-lethal effects of human activities on wildlife: A case-study approach using two whale populations. <i>Marine Policy</i> , 2016, 70, 58-64.	3.2	28
66	Last call: Passive acoustic monitoring shows continued rapid decline of critically endangered vaquita. <i>Journal of the Acoustical Society of America</i> , 2017, 142, EL512-EL517.	1.1	28
67	Incorporating movement into models of grey seal population dynamics. <i>Journal of Animal Ecology</i> , 2006, 75, 634-645.	2.8	27
68	Beaked whale (<i>Mesoplodon densirostris</i>) passive acoustic detection in increasing ambient noise. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 662-669.	1.1	27
69	Monitoring population-level responses of marine mammals to human activities. <i>Marine Mammal Science</i> , 2016, 32, 1004-1021.	1.8	27
70	Spatio-temporal variation in click production rates of beaked whales: Implications for passive acoustic density estimation. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 1962-1974.	1.1	27
71	A hierarchical model for spatial capture-recapture data: comment. <i>Ecology</i> , 2011, 92, 526-528.	3.2	25
72	Modeling the Diving Behavior of Whales: A Latent-Variable Approach with Feedback and Semi-Markovian Components. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2014, 19, 82-100.	1.4	25

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73	Effects of a seismic survey on movement of free-ranging Atlantic cod. <i>Current Biology</i> , 2021, 31, 1555-1562.e4.	3.9	25
74	Acoustic detection probability of bottlenose dolphins, <i>Tursiops truncatus</i> , with static acoustic dataloggers in Cardigan Bay, Wales. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 2596-2609.	1.1	24
75	Tracking marine mammals in 3D using electronic tag data. <i>Methods in Ecology and Evolution</i> , 2015, 6, 987-996.	5.2	24
76	Efficient abstracting of dive profiles using a broken-stick model. <i>Methods in Ecology and Evolution</i> , 2015, 6, 278-288.	5.2	22
77	Delphinid echolocation click detection probability on near-seafloor sensors. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1918-1930.	1.1	21
78	Understanding the Population Consequences of Acoustic Disturbance for Marine Mammals. <i>Advances in Experimental Medicine and Biology</i> , 2016, 875, 417-423.	1.6	20
79	Acoustic detection range and population density of Cuvier's beaked whales estimated from near-surface hydrophones. <i>Journal of the Acoustical Society of America</i> , 2021, 149, 111-125.	1.1	19
80	Mixture Models for Distance Sampling Detection Functions. <i>PLoS ONE</i> , 2015, 10, e0118726.	2.5	19
81	Estimating abundance of cryptic but trappable animals using trapping point transects: a case study for Key Largo woodrats. <i>Methods in Ecology and Evolution</i> , 2012, 3, 695-703.	5.2	17
82	Estimating effective detection area of static passive acoustic data loggers from playback experiments with cetacean vocalisations. <i>Methods in Ecology and Evolution</i> , 2018, 9, 2362-2371.	5.2	16
83	Using dose-response functions to improve calculations of the impact of anthropogenic noise. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2019, 29, 242-253.	2.0	14
84	Using density surface models to estimate spatio-temporal changes in population densities and trend. <i>Ecography</i> , 2020, 43, 1079-1089.	4.5	14
85	From physiology to policy: A review of physiological noise effects on marine fauna with implications for mitigation. <i>Proceedings of Meetings on Acoustics</i> , 2016, , .	0.3	13
86	The effects of acoustic misclassification on cetacean species abundance estimation. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 2469-2476.	1.1	11
87	Spatial variation in maximum dive depth in gray seals in relation to foraging. <i>Marine Mammal Science</i> , 2014, 30, 923-938.	1.8	11
88	Estimation bias under model selection for distance sampling detection functions. <i>Environmental and Ecological Statistics</i> , 2017, 24, 399-414.	3.5	11
89	Varying-Coefficient Stochastic Differential Equations with Applications in Ecology. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2021, 26, 446-463.	1.4	11
90	Changes in the Movement and Calling Behavior of Minke Whales (<i>Balaenoptera acutorostrata</i>) in Response to Navy Training. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	11

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91	The importance of prior choice in model selection: a density dependence example. <i>Methods in Ecology and Evolution</i> , 2013, 4, 25-33.	5.2	10
92	Modelling the broadband propagation of marine mammal echolocation clicks for click-based population density estimates. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 954-967.	1.1	10
93	High site-fidelity in common bottlenose dolphins despite low salinity exposure and associated indicators of compromised health. <i>PLoS ONE</i> , 2021, 16, e0258031.	2.5	10
94	Using a State-Space Model of the British Song Thrush <i>Turdus philomelos</i> Population to Diagnose the Causes of a Population Decline. , 2009, , 541-561.		10
95	Estimating the abundance of the critically endangered Baltic Proper harbour porpoise (<i>Phocoena Tj ETQq1 1 0.784314 rgBT /Overlock 10 T</i>)	1.9	10
96	The Challenges of Analyzing Behavioral Response Study Data: An Overview of the MOCHA (Multi-study) Tj ETQq0 0 0 rgBT /Overlock 10 T 2016, 875, 399-407.	1.6	9
97	Estimating group size from acoustic footprint to improve Blainville's beaked whale abundance estimation. <i>Applied Acoustics</i> , 2019, 156, 434-439.	3.3	9
98	An Expert Elicitation of the Effects of Low Salinity Water Exposure on Bottlenose Dolphins. <i>Oceans</i> , 2021, 2, 179-192.	1.3	9
99	Modeling population effects of the <i>Deepwater Horizon</i> oil spill on a long-lived species. <i>Conservation Biology</i> , 2021, , .	4.7	9
100	Accurate Epigenetic Aging in Bottlenose Dolphins (<i>Tursiops truncatus</i>), an Essential Step in the Conservation of at-Risk Dolphins. <i>Journal of Zoological and Botanical Gardens</i> , 2021, 2, 416-420.	1.8	8
101	An Approximate Bayesian Method Applied to Estimating the Trajectories of Four British Grey Seal (<i>Halichoerus grypus</i>) Populations from Pup Counts. <i>Journal of Marine Biology</i> , 2011, 2011, 1-7.	1.0	7
102	The Development and Use of a Method to Fill Time Gaps in Migration Counts. <i>Condor</i> , 2012, 114, 513-522.	1.6	7
103	Techniques for Estimating the Size of Low-Density Gopher Tortoise Populations. <i>Journal of Fish and Wildlife Management</i> , 2017, 8, 377-386.	0.9	7
104	Alternative method for assessment of southwestern Atlantic humpback whale population status. <i>PLoS ONE</i> , 2021, 16, e0259541.	2.5	7
105	An Assessment of the Population of Cotton-Top Tamarins (<i>Saguinus oedipus</i>) and Their Habitat in Colombia. <i>PLoS ONE</i> , 2016, 11, e0168324.	2.5	6
106	Surveying abundance and stand type associations of <i>Formica aquilonia</i> and <i>F. lugubris</i> (Hymenoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 T <i>Entomology</i> , 2012, 109, 47-53.	1.2	6
107	Quantifying the response of Blainville's beaked whales to U.S. naval sonar exercises in Hawaii. <i>Marine Mammal Science</i> , 2022, 38, 1549-1565.	1.8	5
108	Discrete-space continuous-time models of marine mammal exposure to Navy sonar. <i>Ecological Applications</i> , 2022, 32, e02475.	3.8	4

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109	Grey Seals Red in Tooth and Claw: How Darwin Helps Model Their Population. Significance, 2009, 6, 108-112.	0.4	3
110	Effects of Model Formulation on Estimates of Health in Individual Right Whales (<i>Eubalaena glacialis</i>). Advances in Experimental Medicine and Biology, 2016, 875, 977-985.	1.6	3
111	Calibrating models of cancer invasion: parameter estimation using approximate Bayesian computation and gradient matching. Royal Society Open Science, 2021, 8, 202237.	2.4	3
112	A comparison of three methods for estimating call densities of migrating bowhead whales using passive acoustic monitoring. Environmental and Ecological Statistics, 0, , 1.	3.5	3
113	Estimating Key Largo woodrat abundance using spatially explicit capture-recapture and trapping point transects. Wildlife Society Bulletin, 2016, 40, 331-338.	1.6	2
114	Concepts: Estimating Abundance of Prey Species Using Line Transect Sampling. , 2017, , 89-120.		2
115	A fine-scale marine mammal movement model for assessing long-term aggregate noise exposure. Ecological Modelling, 2022, 464, 109798.	2.5	2
116	Model predicts catastrophic decline of common bottlenose dolphin (<i>Tursiops truncatus</i>) population under proposed land restoration project in Barataria Bay, Louisiana, USA.	1.8	2
117	Assessing the Role of Sampling Uncertainty When Predicting Behavioral Responses of Tagged Cetaceans Exposed to Naval Sonar. Frontiers in Marine Science, 2021, 8, .	2.5	1