

# SI Materials and Methods: Dataset sources

Data Ref.	Data Title	Communities	Data Location	Main Publication	Dataset-specific Acknowledgements
(1)	Bird Abundances at Hubbard Brook (1969-2010) and on three replicate plots (1986-2000) in the White Mountain National Forest	2: Hubbard, White Mountain	<a href="http://www.hubbardbrook.org/data/dataset.php?id=81">http://www.hubbardbrook.org/data/dataset.php?id=81</a>	(2)	Data on bird abundances at Hubbard Brook were provided by Richard T. Holmes. These data were gathered as part of the Hubbard Brook Ecosystem Study (HBES). The HBES is a collaborative effort at the Hubbard Brook Experimental Forest, which is operated and maintained by the USDA Forest Service, Northern Research Station, Newtown Square, PA.
(3)	Detection of Density-Dependent Effects in Annual Duck Censuses	1: Redvers	<a href="http://dx.doi.org/10.2307/1939462">http://dx.doi.org/10.2307/1939462</a>	(3)	
(4)	The Land-Bird Community of Skokholm: Ordination and Turnover	1: Skokholm	<a href="http://www.jstor.org/stable/3544096">http://www.jstor.org/stable/3544096</a>	(4)	
(5)	Bird Populations. Konza Prairie LTER	2: Konza Waterfowl, Konza Songbirds	<a href="http://www.konza.ksu.edu/knz/pages/data/Knzdsdetail.aspx?datasetCode=CBP01">http://www.konza.ksu.edu/knz/pages/data/Knzdsdetail.aspx?datasetCode=CBP01</a>	(6)	Data for CBP01 were provided by lead investigator Brett K. Sandercock and supported by the NSF Long Term Ecological Research Program at Konza Prairie Biological Station

(7)	Neotropical Migratory Bird Communities in a Developing Pine Plantation	1: Texas birds	<a href="http://www.seafwa.org/resource/dynamic/private/PDF/DICKSON-439-446.pdf">http://www.seafwa.org/resource/dynamic/private/PDF/DICKSON-439-446.pdf</a>	(7)	
(8)	Eastern Wood Breeding Bird Data. In: Pattern and Process in Macroecology	1: Eastern Wood birds	<a href="http://online.library.wiley.com/doi/10.1002/9780470999592.app2/summary">http://online.library.wiley.com/doi/10.1002/9780470999592.app2/summary</a>	(9)	
(10)	The North American Breeding Bird Survey Results and Analysis. Version 96.4. Patuxent Wildlife Research Center	2: Pawnee songbirds, Pawnee Raptors	<a href="http://www.mbr-pwrc.usgs.gov/bbs/bbs.html">http://www.mbr-pwrc.usgs.gov/bbs/bbs.html</a>	(11)	Data sets were provided by the Shortgrass Steppe Long Term Ecological Research group, a partnership between Colorado State University, United States Department of Agriculture, Agricultural Research Service, and the U.S. Forest Service Pawnee National Grassland. Significant funding for these data was provided by the National Science Foundation Long Term Ecological Research program (NSF Grant Number DEB-0823405).
(12)	Mountain Bird Watch	3: Maine, New York, Green Mountains	<a href="http://www.vtecostudies.org/MBW/">http://www.vtecostudies.org/MBW/</a>	(13)	Thanks to the Vermont Center for Ecostudies for supplying data and to the hundreds of Mountain Birdwatch volunteers who gathered data for the project.

(14)	Avian populations Long-Term Monitoring. Luquillo LTER	1: Luquillo Birds	<a href="http://luq.lternet.edu/data/luqmetadata23">http://luq.lternet.edu/data/luqmetadata23</a>	(15)	These data were provided by lead investigator Robert B. Waide and were supported by grants BSR-8811902, DEB 9411973, DEB 0080538, DEB 0218039, and DEB 0620910 from NSF to the Institute for Tropical Ecosystem Studies, University of Puerto Rico, and to the International Institute of Tropical Forestry USDA Forest Service, as part of the Luquillo Long-Term Ecological Research Program. The U.S. Forest Service (Dept. of Agriculture) and the University of Puerto Rico gave additional support.
(16)	The marine community at Hinkley Point	2: Hinkley Flatfish, Hinkley Gadoidfish	<a href="http://www3.imperial.ac.uk/cpb/databases/gpdd">http://www3.imperial.ac.uk/cpb/databases/gpdd</a>	(17)	
(18)	Time-series data for a selection of forty fish species caught during the International Bottom Trawl Survey	4: Northsea Demersal, Northsea Flatfish, Northsea Gadoid, Northsea Pelagic	<a href="http://icesjournals.oxfordjournals.org/content/53/6/1079">http://icesjournals.oxfordjournals.org/content/53/6/1079</a>	(18)	

(19)	Anole Population Dynamics. Luquillo LTER	1: Luquillo anoles	<a href="http://luq.lternet.edu/data/luqmetadata4">http://luq.lternet.edu/data/luqmetadata4</a>	(20)	These data were provided by lead investigator Douglas Reagan and were supported by grants BSR-8811902, DEB 9411973, DEB 0080538, DEB 0218039, and DEB 0620910 from NSF to the Institute for Tropical Ecosystem Studies, University of Puerto Rico, and to the International Institute of Tropical Forestry USDA Forest Service, as part of the Luquillo Long-Term Ecological Research Program. The U.S. Forest Service (Dept. of Agriculture) and the University of Puerto Rico gave additional support.
(21)	Long-term sampling of a herpetofaunal assemblage on an isolated urban bushland remnant, Bold Park, Perth	2: Bold Park Snakes, Bold Park Lizards	<a href="http://www.rswa.org.au/publications/Journal/81%2083%29/81%2083%29how.pdf">http://www.rswa.org.au/publications/Journal/81%2083%29/81%2083%29how.pdf</a>	(21)	
(22)	Effects of rangeland management on community dynamics of the herpetofauna of the tallgrass prairie	2: Cowley County Snakes, Cowley County Lizards	<a href="http://www.bioone.org/doi/abs/10.1655/0018-0831%2006%2962%5B378%3AEORMOC%5D2.0.CO%3B2">http://www.bioone.org/doi/abs/10.1655/0018-0831%2006%2962%5B378%3AEORMOC%5D2.0.CO%3B2</a>	(22)	

(23)	Temporal variations in reptile assemblages in the goldfields of Western Australia	2: Ora Banda Snakes, Ora Banda Lizards	<a href="http://www.rswa.org.au/publications/Journal/91%2083%29/roy%20soc%20vol%2091%20pt%203%20thompson%20spatial.pdf">http://www.rswa.org.au/publications/Journal/91%2083%29/roy%20soc%20vol%2091%20pt%203%20thompson%20spatial.pdf</a>	(23)	
(24)	Historic and Legacy Data on Snakes. Kansas Biological Survey	1: Fitch Snakes	<a href="http://kufs.ku.edu/media/kufs/libres/snakedata.htm">http://kufs.ku.edu/media/kufs/libres/snakedata.htm</a>	(25)	Thank you to Dr. Henry S. Fitch for his efforts and to Alice Fitch Aechelle, George Pisani, and the Kansas Biological Survey for making this data publicly available and allowing its inclusion in this publication.
(26)	Population estimates of Appalachian salamanders. Coweeta LTER	1: Coweeta Salamanders	<a href="http://tropicalinternet.edu/knb/metacat/knb-lter-cwt.1044.4/lter">http://tropicalinternet.edu/knb/metacat/knb-lter-cwt.1044.4/lter</a>	(27)	Data were provided by lead investigator R.Haven Wiley and supported by the Coweeta LTER. Funding for these data was provided by the National Science Foundation Long Term Ecological Research program.
(28)	Edwin S. George Reserve Turtles. The Global Population Dynamics Database Version 2	1: ES George Turtles	<a href="http://www3.imperial.ac.uk/cpb/databases/gpdd">http://www3.imperial.ac.uk/cpb/databases/gpdd</a>	(29)	

(30)	Long-Term Studies of Vertebrate Communities (book)	1: Rainbow Bay Frogs		(31)	
(32)	Marine Mammals and Fisheries (book)	1: CA Coastline Molluscs	<a href="http://www.sw.ic.ac.uk/cpb/cpb/gpdd.html">http://www.sw.ic.ac.uk/cpb/cpb/gpdd.html</a> .		
(33)	Long-term trends in abundance of Lepidoptera larvae in northern hardwood forests. Hubbard Brook Experimental Forest	1: Hubbard Brook Leps	<a href="http://www.hubbardbrook.org/data/dataset.php?id=82">http://www.hubbardbrook.org/data/dataset.php?id=82</a>	(34)	Data on Lepidoptera abundances at Hubbard Brook were provided by Richard T. Holmes. These data were gathered as part of the Hubbard Brook Ecosystem Study (HBES). The HBES is a collaborative effort at the Hubbard Brook Experimental Forest, which is operated and maintained by the USDA Forest Service, Northern Research Station, Newtown Square, PA.
(35)	Arthropod Pitfall Traps at LTER II NPP sites. Jornada LTER	4: Jornada Pitfalls Creosote, Jornada Pitfalls Grassland, Jornada Pitfalls Mesquite, Jornada Pitfalls Tarbush	<a href="http://tropical.lternet.edu/knb/metacat/knb-lter-jrn.20020550.9933/lter">http://tropical.lternet.edu/knb/metacat/knb-lter-jrn.20020550.9933/lter</a>	(36)	Data sets were developed by lead investigator David Lightfoot and provided by John P Anderson of the Jornada Basin Long-Term Ecological Research (LTER) project. Funding for these data was provided by the U.S. National Science Foundation (Grant DEB-1235828).

(37)	Community Ecology of Land Snails Survey (Long-term population dynamics of snails in the tabonuco forest). Luquillo LTER	1: Luquillo Snails	<a href="http://tropical.internet.edu/knb/metacat/knb-lter-luq.107.3/lter">http://tropical.internet.edu/knb/metacat/knb-lter-luq.107.3/lter</a>	(38)	These data were provided by lead investigator M Willig and were supported by grants BSR-8811902, DEB 9411973, DEB 0080538, DEB 0218039, and DEB 0620910 from NSF to the Institute for Tropical Ecosystem Studies, University of Puerto Rico, and to the International Institute of Tropical Forestry USDA Forest Service, as part of the Luquillo Long-Term Ecological Research Program. The U.S. Forest Service (Dept. of Agriculture) and the University of Puerto Rico gave additional support.
(39)	Zooplankton survey of Oneida Lake, New York, 1975 – 2006.	1: Oneida Lake Zooplankton	<a href="https://knb.ecoinformatics.org/#view/kgordon.17.56">https://knb.ecoinformatics.org/#view/kgordon.17.56</a>	(40)	Some data used in this publication were obtained by scientists, staff, and students at the Cornell Biological Field Station; this publication has not been reviewed by them. The Cornell Biological Field Station is operated and maintained by Cornell University, Ithaca, NY.

(41)	MARINe Core Surveys: Species Counts	11: Pacific Coast Arthropods CAY, Pacific Coast Echinoderms, Pacific Coast Molluscs BOA, Pacific Coast Molluscs CAY, Pacific Coast Molluscs GPT, Pacific Coast Molluscs HAZ, Pacific Coast Molluscs MCR, Pacific Coast Molluscs OCC, Pacific Coast Molluscs PSN, Pacific Coast Molluscs SAD, Pacific Coast Molluscs SHB	<a href="http://osu.pisnoweb.org/cgi-bin/showDataset.cgi?docid=MLPA_intertidal.81.2">http://osu.pisnoweb.org/cgi-bin/showDataset.cgi?docid=MLPA_intertidal.81.2</a>	This study utilized data collected by the Partnership for Interdisciplinary Studies of Coastal Oceans and the Multi-Agency Rocky Intertidal Network: a long-term ecological consortium funded by many groups, including BOEM (Bureau of Ocean Energy Management), PISCO (Partnership for Interdisciplinary Studies of Coastal Oceans), and NPS (National Parks Service).
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(42)	Monitoring the Abundance of Butterflies 1976-1985 (Book)	6: UK Butterflies Agricultural, UK Butterflies Coastal, UK Butterflies Grassland, UK Butterflies Forest, UK Butterflies Mixed, UK Butterflies Wetland	<a href="http://www.sw.ic.ac.uk/cpb/cpb/gpdd.html">http://www.sw.ic.ac.uk/cpb/cpb/gpdd.html</a> .	(42)	
(43)	Long-term monitoring and experimental manipulation of a Chihuahuan Desert ecosystem near Portal, Arizona, USA	3: Portal rodents, Portal Summer annuals, Portal Winter annuals	<a href="http://www.esajournals.org/doi/abs/10.1890/08-1222.1">http://www.esajournals.org/doi/abs/10.1890/08-1222.1</a>	(44)	
(45)	Small Mammal Mark-Recapture Population Dynamics at Core Research Sites at the Sevilleta National Wildlife Refuge, New Mexico.	3: Sev 5p grass, Sev 5p larrea, Sev rs larrea	<a href="http://sev.lter.net.edu/data/sev-008">http://sev.lter.net.edu/data/sev-008</a>	(46)	Data sets were provided by lead investigator Seth Newsome and the Sevilleta Long Term Ecological Research (LTER) Program. Significant funding for collection of these data was provided by the National Science Foundation Long Term Ecological Research program.

(47)	Seasonal summary of numbers of small mammals on the LTER traplines in prairie. Konza Prarie LTER	1: Konza	<a href="http://www.konza.ksu.edu/knz/pages/data/Knzdsdetail.aspx?datasetCode=CSM04">http://www.konza.ksu.edu/knz/pages/data/Knzdsdetail.aspx?datasetCode=CSM04</a>	(48)	Data for small mammal abundances (CSM04) were provided by lead investigator Donald W. Kaufman and supported by the NSF Long Term Ecological Research Program at Konza Prairie Biological Station.
(49)	Mammal abundance indices in the northern portion of the Great Basin, 1962–1993	2: Curlew, INEEL	<a href="http://www.esajournals.org/doi/abs/10.1890/04-1607">http://www.esajournals.org/doi/abs/10.1890/04-1607</a>	(50)	
(51)	Small Mammal Exclosure Study. Jornada LTER	2: Jornada Grassland rodents, Jornada Shrubland rodents	<a href="http://tropicalinternet.edu/knb/metacat/knb-lter-jrn.20060130.9846/lter">http://tropicalinternet.edu/knb/metacat/knb-lter-jrn.20060130.9846/lter</a>	(52)	Study was developed by David Lightfoot and data provided by lead investigator Brandon Bestelmeyer of the Jornada Basin Long-Term Ecological Research (LTER) project. Funding for these data was provided by the U.S. National Science Foundation (Grant DEB-1235828).
(53)	Long Term Mammal Data from Powdermill Biological Station	2: Powdermill squirrels, Powdermill rodents	<a href="http://metacat.internet.edu/knb/metacat/knb-lter-vcr.67.11/lter">http://metacat.internet.edu/knb/metacat/knb-lter-vcr.67.11/lter</a>	(54)	Data sets were provided by lead investigator Dr. Joseph Merritt and the Virginia Coast Reserve LTER project of the University of Virginia. Funding for these data was provided by the U.S. National Science Foundation (NSF Grants BSR-8702333-06, DEB-9211772, DEB-9411974, DEB-0080381 and DEB-0621014).

(55)	SGS-LTER Long-Term Monitoring Project: Small Mammals on Trapping Webs	1: Shortgrass rodents	<a href="http://sgslter.colostate.edu/dataset_view.aspx?id=LTMntrSmlMammWebs">http://sgslter.colostate.edu/dataset_view.aspx?id=LTMntrSmlMammWebs</a>	(56)	Data sets were provided by Paul Stapp, lead investigator and member of the Shortgrass Steppe Long Term Ecological Research group, a partnership between Colorado State University, United States Department of Agriculture, Agricultural Research Service, and the U.S. Forest Service Pawnee National Grassland. Significant funding for these data was provided by the National Science Foundation Long Term Ecological Research program (NSF Grant Number DEB-0823405).
(57)	Long-Term Dynamics of Small-Mammal Populations in Ontario	1: Ontario rodents	<a href="http://www.esajournals.org/doi/abs/10.1890/0012-9658(2007)95:5[B0213:3ALTDOSM%5D2.0.CO%3B2">http://www.esajournals.org/doi/abs/10.1890/0012-9658(2007)95:5[B0213:3ALTDOSM%5D2.0.CO%3B2</a>	(57)	
(58)	An 11-year study of small mammal populations at Mont St. Hilaire, Quebec	1: Hilaire rodents	<a href="http://www.nrcresearchpress.com/doi/abs/10.1139/z76-249#.UHXy31HZ2eg">http://www.nrcresearchpress.com/doi/abs/10.1139/z76-249#.UHXy31HZ2eg</a>	(58)	
(59)	Karoo National Park Census Data. 1994 – 2009	1: Karoo NP	<a href="http://dataknp.sanparks.org/sanparks/metacat/peggym.117.10/sanparks">http://dataknp.sanparks.org/sanparks/metacat/peggym.117.10/sanparks</a>	(60)	Data were provided by SANParks Regional Ecologists, in a cooperative effort of the South African National Parks (SANParks) and the National Center for Ecological Analysis and Synthesis (NCEAS).

(61)	Census totals for large herbivores in the Kruger National Park summarized by year and region 1965-1997	1: Kruger NP	<a href="http://data.knpsanparks.org/metacat/judithk.814.4/sanparks">http://data.knpsanparks.org/metacat/judithk.814.4/sanparks</a>	(60)	Data were provided by SANParks Regional Ecologists, in a cooperative effort of the South African National Parks (SANParks) and the National Center for Ecological Analysis and Synthesis (NCEAS).
(62)	Golden Gate Highland National Parks Census Data	1: Goldengate NP	<a href="http://data.knpsanparks.org/metacat/peggym.113.6/sanparks">http://data.knpsanparks.org/metacat/peggym.113.6/sanparks</a>	(60)	Data were provided by SANParks Regional Ecologists, in a cooperative effort of the South African National Parks (SANParks) and the National Center for Ecological Analysis and Synthesis (NCEAS).
(63)	Long-term population dynamics of individually mapped Sonoran Desert winter annuals from the Desert Laboratory, Tucson AZ	2: Desert Lab Open habitats, Desert Lab Shrub habitats	<a href="http://www.eebweb.arizona.edu/faculty/venable/LTREB.htm">http://www.eebweb.arizona.edu/faculty/venable/LTREB.htm</a>	(64)	
(65)	Spatial and Temporal Patterns of Net Primary Production in Chihuahuan Desert Ecosystems (NPP Study). Jornada LTER	10: Jornada CS, Jornada CW, Jornada GS, Jornada GW, Jornada MS, Jornada MW, Jornada PS, Jornada PW, Jornada TS, Jornada TW	<a href="http://tropical.INTERNET.EDU/knb/metacat/knb-lter-jrn.20020440.9858/lter">http://tropical.INTERNET.EDU/knb/metacat/knb-lter-jrn.20020440.9858/lter</a>	(66)	Data sets were provided by lead investigator Debra Peters and the Jornada Basin Long-Term Ecological Research (LTER) project. Funding for these data was provided by the U.S. National Science Foundation (Grant DEB-1235828).

(67)	Long-term mapped quadrats from Kansas prairie: demographic information for herbaceous plants	2: Kansas Annuals, Kansas Perennials	<a href="http://www.esajournals.org/doi/abs/10.1890/0012-9658(2007)2988%5B2673%3ALMQFKP%5D2.0.CO%3B2">http://www.esajournals.org/doi/abs/10.1890/0012-9658(2007)2988%5B2673%3ALMQFKP%5D2.0.CO%3B2</a>	(68)	
(69)	Mapped quadrats in sagebrush steppe: long-term data for analyzing demographic rates and plant-plant interactions	1: Steppe plants	<a href="http://www.esajournals.org/doi/abs/10.1890/10-0404.1">http://www.esajournals.org/doi/abs/10.1890/10-0404.1</a>	(70)	

## References

1. Holmes RT, Sillett S, Rodenhouse N, Sturges FW, Sherry TW (2010) *Bird Abundances at Hubbard Brook (1969-2010) and on three replicate plots (1986-2000) in the White Mountain National Forest* (Corvallis, OR: Forest Science Data Bank: 81. [Database].) Available at: <http://www.hubbardbrook.org/data/dataset.php?id=81>.
2. Holmes RT (2007) Understanding population change in migratory songbirds: long-term and experimental studies of Neotropical migrants in breeding and wintering areas. *Ibis* 149:2–13.
3. Vickery WL, Nudds TD (1984) Detection of Density-Dependent Effects in Annual Duck Censuses. *Ecology* 65(1):96–104.
4. Williamson M (1983) The Land-Bird Community of Skokholm: Ordination and Turnover. *Oikos* 41(3):378–384.
5. Sandercock BK (2009) *Bird Populations* (Konza Prairie LTER: CBP01.) Available at: <http://www.konza.ksu.edu/knz/pages/data/Knzdsdetail.aspx?datasetCode=CBP01>.
6. Powell AFLA, Stouffer PC (2006) Effects of prescribed burns and bison (*bos bison*) grazing on breeding bird abundances in tallgrass prairie. *The Auk* 123(1):183–197.

7. Dickson JG, Conner RN, Williamson JH (1993) Neotropical Migratory Bird Communities in a Developing Pine Plantation. *1993 Proceedings on the Annual Conference SEAFWA*. Available at: <http://www.seafwa.org/resource/dynamic/private/PDF/DICKSON-439-446.pdf>.
8. Gaston KJ, Blackburn TM eds. (2007) in *Pattern and Process in Macroecology* (Blackwell Science Ltd), pp 355–357. Available at: <http://onlinelibrary.wiley.com/doi/10.1002/9780470999592.app2/summary> [Accessed September 17, 2012].
9. Hinsley SA, Bellamy PE, Newton I (1995) Bird species turnover and stochastic extinction in woodland fragments. *Ecography* 18(1):41–50.
10. Sauer JR, Hines JE, Gough G, Thomas I, Peterjohn BG (1997) *The North American Breeding Bird Survey Results and Analysis. Version 96.4*. (Patuxent Wildlife Research Center, Laurel, MD) Available at: <http://www.mbr-pwrc.usgs.gov/bbs/bbs.html>.
11. Milchunas DG, Lauenroth WK, Burke IC (1998) Livestock Grazing: Animal and Plant Biodiversity of Shortgrass Steppe and the Relationship to Ecosystem Function. *Oikos* 83(1):65.
12. Mountain Bird Watch (2010) (Vermont Center for Ecostudies) Available at: <http://www.vtecostudies.org/MBW/>.
13. Faccio SD (2003) Effects of ice storm-created gaps on forest breeding bird communities in central Vermont. *Forest Ecology and Management* 186(1–3):133–145.
14. Robert B. Waide (2012) *Avian populations Long-Term Monitoring* (Luquillo LTER project of the Institute for Tropical Ecosystem Studies: Bird abundance - point counts [Database]) Available at: <http://luq.lternet.edu/data/luqmetadata23>.
15. Waide RB (1991) The Effect of Hurricane Hugo on Bird Populations in the Luquillo Experimental Forest, Puerto Rico. *Biotropica* 23(4):475.
16. Henderson P (2010) *The marine community at Hinkley Point* (NERC Centre for Population Biology, Imperial College) Available at: <http://www.sw.ic.ac.uk/cpb/cpb/gpdd.html>.
17. Magurran AE, Henderson PA (2003) Explaining the excess of rare species in natural species abundance distributions. *Nature* 422(6933):714–716.
18. Heessen HJL (1996) Time-series data for a selection of forty fish species caught during the International Bottom Trawl Survey. *ICES J Mar Sci* 53(6):1079–1084.
19. Reagan D (2010) *Anole Population Dynamics* (Luquillo LTER project of the Institute for Tropical Ecosystem Studies: Anole Vertical Transects (tower data) [Database]) Available at: <http://luq.lternet.edu/data/luqmetadata4>.
20. Reagan DP (1991) The Response of Anolis Lizards to Hurricane-Induced Habitat Changes in a Puerto Rican Rain Forest. *Biotropica* 23(4):468.

21. How R (1998) Long-term sampling of a herpetofaunal assemblage on an isolated urban bushland remnant, Bold Park, Perth. *Journal of the Royal Society of Western Australia* 81:143–148.
22. Wilgers DJ, Horne EA, Sandercock BK, Volkmann AW (2006) Effects of rangeland management on community dynamics of the herpetofauna of the tallgrass prairie. *Herpetologica* 62(4):378–388.
23. Thompson SA, Thompson GG (2005) Temporal variations in reptile assemblages in the goldfields of Western Australia. *Journal of the Royal Society of Western Australia* 88:25–36.
24. Fitch HS (2006) *Historic and Legacy Data on Snakes* (Kansas Biological Survey., University of Kansas Field Station) Available at: <http://kufs.ku.edu/media/kufs/libres/snakedata.htm>.
25. Fitch HS, Shirer HW (1971) A Radiotelemetric Study of Spatial Relationships in Some Common Snakes. *Copeia* 1971(1):118.
26. Wiley RH (2005) *Population estimates of Appalachian salamanders*. (Coweeta LTER: knb-lter-cwt.1044.4 [Database]) Available at: <http://tropical.lternet.edu/knb/metacat/knb-lter-cwt.1044.4/lter>.
27. Hairston NG, Wiley RH, Smith CK, Kneidel KA (1992) The Dynamics of Two Hybrid Zones in Appalachian Salamanders of the Genus *Plethodon*. *Evolution* 46(4):930.
28. NERC Centre for Population Biology, Imperial College (2010) Edwin S. George Reserve Turtles. *The Global Population Dynamics Database Version 2*. Available at: <http://www.sw.ic.ac.uk/cpb/cpb/gpdd.html> [Accessed September 17, 2012].
29. Congdon JD, Greene JL, Gibbons JW (1986) Biomass of Freshwater Turtles: A Geographic Comparison. *American Midland Naturalist* 115(1):165.
30. Cody ML, Smallwood JA (1996) *Long-Term Studies of Vertebrate Communities* (Academic Press).
31. Brook BW, Traill LW, Bradshaw CJA (2006) Minimum viable population sizes and global extinction risk are unrelated. *Ecology Letters* 9(4):375–382.
32. Beddington JR, Beverton R, Lavigne DM eds. (1985) *Marine Mammals and Fisheries* (George Allen and Unwin Ltd., London).
33. Holmes RT (1997) *Long-term trends in abundance of Lepidoptera larvae in northern hardwood forests* (Corvallis, OR: Forest Science Data Bank: 82 [Database], Hubbard Brook Experimental Forest) Available at: <http://www.hubbardbrook.org/data/dataset.php?id=82>.
34. Stange EE, Ayres MP, Bess JA (2011) Concordant population dynamics of Lepidoptera herbivores in a forest ecosystem. *Ecography* 34(5):772–779.
35. Lightfoot D (1995) *Arthropod Pitfall Traps-III in 5x1 grid at LTER II NPP sites knb-lter-jrn.20020550.9933* (Jornada LTER: ARTHPIT3 [Database]) Available at: <http://tropical.lternet.edu/knb/metacat/knb-lter-jrn.20020550.9933/lter>.

36. Schowalter TD, Lightfoot DC, Whitford WG (1999) Diversity of Arthropod Responses to Host-plant Water Stress in a Desert Ecosystem in Southern New Mexico. *The American Midland Naturalist* 142(2):281–290.
37. Willig M, Bloch CP (2004) *Community Ecology of Land Snails Survey (Long-term population dynamics of snails in the tabonuco forest)* (Luquillo LTER project of the Institute for Tropical Ecosystem Studies: El Verde Grid invertebrate data knb-lter-luq.107.3) Available at: <http://tropical.lternet.edu/knb/metacat/knb-lter-luq.107.3/lter>.
38. Willig MR, Camilo GR (1991) The Effect of Hurricane Hugo on Six Invertebrate Species in the Luquillo Experimental Forest of Puerto Rico. *Biotropica* 23(4):455.
39. Rudstam L, Mills E (2008) *Zooplankton survey of Oneida Lake, New York, 1975 - 2006* Available at: <https://knb.ecoinformatics.org/#view/kgordon.17.56>.
40. Idrisi N, Mills EL, Rudstam LG, Stewart DJ (2001) Impact of zebra mussels (*Dreissena polymorpha*) on the pelagic lower trophic levels of Oneida Lake, New York. *Can J Fish Aquat Sci* 58(7):1430–1441.
41. Raimondi P, Blanchette C, Miner M (2009) *MARINe Core Surveys: Species Counts* (PISCO: Intertidal: MLPA baseline: Central Coast: MLPA\_intertidal.81.2 [Database]) Available at: [http://osu.piscoweb.org/cgi-bin/showDataset.cgi?docid=MLPA\\_intertidal.81.2](http://osu.piscoweb.org/cgi-bin/showDataset.cgi?docid=MLPA_intertidal.81.2).
42. Pollard E, Hall ML, Bibby TJ (1986) *Monitoring the Abundance of Butterflies 1976-1985* (Joint Nature Conservation Committee) Available at: [http://isbndb.com/d/book/monitoring\\_the\\_abundance\\_of\\_butterflies\\_1976\\_1985.html](http://isbndb.com/d/book/monitoring_the_abundance_of_butterflies_1976_1985.html).
43. Ernest SKM, Valone TJ, Brown JH (2009) Long-term monitoring and experimental manipulation of a Chihuahuan Desert ecosystem near Portal, Arizona, USA. *Ecology* 90(6):1708–1708.
44. Brown JH (1998) in *Experimental ecology: Issues and perspectives*, Experimental ecology: Issues and perspectives., pp 71–95. Available at: [://PREV200000378306](http://PREV200000378306).
45. Friggens M (2008) *Small Mammal Mark-Recapture Population Dynamics at Core Research Sites at the Sevilleta National Wildlife Refuge, New Mexico* (Albuquerque, NM: Sevilleta Long Term Ecological Research Site Database: SEV008) Available at: <http://sev.lternet.edu/data/sev-008>.
46. Ernest SKM, Brown JH, Parmenter RR (2000) Rodents, plants, and precipitation: spatial and temporal dynamics of consumers and resources. *Oikos* 88(3):470–482.
47. Kaufman DW (2010) *Seasonal summary of numbers of small mammals on the LTER traplines in prairie* (Konza Prairie LTER: CSM04) Available at: <http://www.konza.ksu.edu/knz/pages/data/Knzdsdetail.aspx?datasetCode=CSM04>.
48. Peterson S., Kaufman GA, Kaufman DW (1985) Habitat selection by small mammals of the tallgrass prairie: experimental patch choice. *The Prairie Naturalist* 17:65–70.
49. Bartel RA, Knowlton FF, Stoddart LC (2005) Mammal abundance indices in the northern portion of the Great Basin, 1962–1993. *Ecology* 86(11):3130.



50. Bartel RA, Knowlton FF, Stoddart LC (2008) Long-term Patterns in Mammalian Abundance in Northern Portions of the Great Basin. *Journal of Mammalogy* 89(5):1170–1183.
51. Lightfoot D (1995) *Small Mammal Exclosure Study (SMES rodent trapping data)* knb-lter-jrn.20060130.9846 (Jornada LTER: smesrdnt) Available at:  
<http://tropical.lternet.edu/knb/metacat/knb-lter-jrn.20060130.9846/lter>.
52. Hallett JG (1982) Habitat Selection and the Community Matrix of a Desert Small-Mammal Fauna. *Ecology* 63(5):1400.
53. Merritt J (1999) *Long Term Mammal Data from Powdermill Biological Station*. (Virginia Coast Reserve Long-Term Ecological Research Project Data Publication knb-lter-vcr.67.11) Available at:  
<http://metacat.lternet.edu/knb/metacat/knb-lter-vcr.67.11/lter>.
54. Merritt JF, Lima M, Bozinovic F (2001) Seasonal regulation in fluctuating small mammal populations: feedback structure and climate. *Oikos* 94(3):505–514.
55. Stapp P (2006) *SGS-LTER Long-Term Monitoring Project: Small Mammals on Trapping Webs on the Central Plains Experimental Range, Nunn, Colorado, USA 1994 -2011, ARS Study Number 118* (Shortgrass Steppe LTER: LTMntrSmlMamWebs) Available at:  
[http://sgslter.colostate.edu/dataset\\_view.aspx?id=LTMntrSmlMamWebs](http://sgslter.colostate.edu/dataset_view.aspx?id=LTMntrSmlMamWebs) [Accessed September 19, 2012].
56. Stapp P, Van Horne B, Lindquist MD (2008) in *Ecology of the shortgrass steppe: a long-term perspective/edited by William K. Lauenroth and Ingrid C. Burke* (Oxford University Press, Inc., New York, New York). Available at: <http://www.wklauenroth.net/index.php/about/shortgrass-book/> [Accessed October 20, 2014].
57. Fryxell JM, Falls JB, Falls EA, Brooks RJ (1998) Long-Term Dynamics of Small-Mammal Populations in Ontario. *Ecology* 79(1):213–225.
58. Grant PR (1976) An 11-year study of small mammal populations at Mont St. Hilaire, Quebec. *Canadian Journal of Zoology* 54(12):2156–2173.
59. SANParks (2009) *Karoo National Park Census Data. 1994 - 2009* (South African National Park Data Repository: peggym.117.10) Available at:  
<http://dataknp.sanparks.org/sanparks/metacat/peggym.117.10/sanparks>.
60. Craigie ID, et al. (2010) Large mammal population declines in Africa's protected areas. *Biological Conservation* 143(9):2221–2228.
61. SANParks (1997) *Census totals for large herbivores in the Kruger National Park summarized by year and region 1965-1997* (South African National Park Data Repository: judithk.814.4) Available at:  
<http://dataknp.sanparks.org/sanparks/metacat/judithk.814.4/sanparks>.
62. SANParks (2004) *Golden Gate Highland National Parks Census Data* (South African National Park Data Repository: peggym.113.6) Available at:  
<http://dataknp.sanparks.org/sanparks/metacat/peggym.113.6/sanparks> [Accessed September 19, 2012].

63. Venable DL (2008) *Long-term population dynamics of individually mapped Sonoran Desert winter annuals from the Desert Laboratory, Tucson AZ* (University of Arizona) Available at: <http://www.eebweb.arizona.edu/faculty/venable/LTREB.htm> [Accessed September 19, 2012].
64. Venable DL, Pake CE, Caprio AC (1993) Diversity and Coexistence of Sonoran Desert Winter Annuals. *Plant Species Biology* 8(2-3):207–216.
65. Peters D (1989) *Spatial and Temporal Patterns of Net Primary Production in Chihuahuan Desert Ecosystems (NPP Study: Quadrat biomass)* (Jornada LTER: nppqdbio) Available at: <http://tropical.lternet.edu/knb/metacat/knb-lter-jrn.20020440.9858/lter>.
66. Peters DPC, Yao J, Browning D, Rango A (2014) Mechanisms of grass response in grasslands and shrublands during dry or wet periods. *Oecologia* 174(4):1323–1334.
67. Adler PB, Tyburczy WR, Lauenroth WK (2007) Long-term mapped quadrats from Kansas prairie: demographic information for herbaceous plants. *Ecology* 88(10):2673.
68. Adler PB, HilleRisLambers J (2008) The influence of climate and species composition on the population dynamics of ten prairie forbs. *Ecology* 89(11):3049–3060.
69. Zachmann L, Moffet C, Adler P (2010) Mapped quadrats in sagebrush steppe: long-term data for analyzing demographic rates and plant–plant interactions. *Ecology* 91(11):3427–3427.
70. Mordecai EA (2013) Despite spillover, a shared pathogen promotes native plant persistence in a cheatgrass-invaded grassland. *Ecology* 94(12):2744–2753.