

Lights Out Connecticut Suggested Reading, Resources, and Bibliography

Books

Johan Eklöf (Author), Elizabeth DeNoma, (2023) *The Darkness Manifesto: On Light Pollution, Night Ecology, and the Ancient Rhythms that Sustain Life*. Scribner

Daniel Klem Jr, (2021) *Solid Air: Invisible Killer- Saving Birds from Windows*. Hancock House Publishers Ltd, Canada

Rich, C. and Longcore, T. (2013) *Ecological Consequences of Artificial Night Lighting*, Island Press

General Bibliographies:

BIRD COLLISIONS WITH GLASS: AN ANNOTATED BIBLIOGRAPHY © American Bird Conservancy, The Plains, VA 20198. (2008) Seewagen, Charles,
<file:///C:/Users/User/Documents/Lights%20Out%20CT/Literature/Glass-Collisions-Bibliography-Nov-2022-update.pdf>

Summaries:

American Bird Conservancy, “Products and Solutions Database,” <https://abcbirds.org/glass-collisions/products-database/>.

American Bird Conservancy, “Bird Collision Deterrence: Summary of Material Threat Factors,” October 2011, <https://abcbirds.org/wp-content/uploads/2015/05/Docs10397.pdf>.

Meredith Barges and Viveca Morris, “Building Safer Cities for Birds – How Cities Are Leading the Way on Bird-Friendly Building Policy,” Yale Bird-Friendly Building Initiative, August 2023. [*Building Safer Cities for Birds \(abcbirds.org\)](https://abcbirds.org/building-safer-cities-for-birds/)

[BIRD-FRIENDLY DEVELOPMENT GUIDELINES \(unl.edu\)](https://unl.edu/bird-friendly-development-guidelines/) 2007 The goal of these Bird-Friendly Development Guidelines is to prevent the needless deaths of migratory birds by suggesting ways to mitigate the dangers buildings pose to them. City of Toronto Green Development Standard.

Carolyn S. Burt, Jeffrey F. Kelly, Grace E. Trankina, Carol L. Silva, Ali Khalighifar, Hank C. Jenkins-Smith, Andrew S. Fox, Kurt M. Fristrup, and Kyle G. Horton. The effects of light pollution on migratory animal behavior. (2022) *Trends in Ecology & Evolution*.

Tegan Jarchow , J.D. Brown & Jonathan Rosenbloom, Bird-friendly Window and Lighting Standards. In Sustainable Development Code.

[Bird-friendly Window and Lighting Standards – Sustainable Development Code \(sustainablecitycode.org\)](https://sustainablecitycode.org/bird-friendly-window-and-lighting-standards/)

[More than mortality: Consequences of human activity on migrating birds extend beyond direct mortality | Ornithological Applications | Oxford Academic \(oup.com\)](https://oup.com/ornithological-applications/more-than-mortality/) May 29, 2023

Schulte-Römer, N. et al. (2019) Lighting professionals versus light pollution experts? Investigating views on an emerging environmental concern. *Sustainability* 11, 1696

U.S. Fish & Wildlife Service, "Birding in the United States: A Demographic and Economic Analysis," 2016, 12.

General Ornithology

Cornell Lab of Ornithology, "Do All Birds Migrate?," accessed May 7, 2023, <https://celebrateurbanbirds.org/faq/do-all-birdsmigrate/#:~:text=Not%20all%20birds%20migrate%2C%20but,food%20or%20a%20better%20climate.>

Dietze, M.C. et al. (2018) Iterative near-term ecological forecasting: needs, opportunities, and challenges. *Proc. Natl. Acad. Sci. U. S. A.* 115, 1424–1432

Dingle, H. and Drake, V.A. (2007) What is migration? *BioScience* 57, 113–121 27. Davies, T.W. et al. (2014) The nature, extent, and ecological implications of marine light pollution. *Front. Ecol. Environ.* 12, 347–355

Dokter, A.M. et al. (2018) Seasonal abundance and survival of North America's migratory avifauna determined by weather radar. *Nat. Ecol. Evol.* 2, 1603–1609

Gauthreaux, S.A. and Belser, C.G. (2003) Radar ornithology and biological conservation. *Auk* 120, 266–277

Horton, K.G. et al. (2021) Near-term ecological forecasting for dynamic aeroconservation of migratory birds. *Conserv. Biol.* 35, 1777–1786

Javits Center, "More than 1,100 Bird Sightings and 17 Bird Species Observed on the Javits Center's Green Roof in 2015," press release, April 26, 2016, <https://javitscenter.com/media/48952/javits-center-green-roofstudy-4-26-16.pdf>

La Sorte, F.A. et al. (2020) Area is the primary correlate of annual and seasonal patterns of avian species richness in urban green spaces. *Landsc. Urban Plan.* 203, 103892

Lepczyk, C.A. et al. (2017) Global patterns and drivers of urban bird diversity. In *Ecology and Conservation of Birds in Urban Environments* (Murgui, E. and Hedblom, M., eds), pp. 13–33, Springer International

Lippert, F. et al. (2022) Learning to predict spatiotemporal movement dynamics from weather radar networks. *Methods Ecol. Evol.* 13, 2811–2826

Mahendiran Mylswamy & P.A. Azeez, "Ecosystem Services of Birds: A Review of Market and Non-market Values," *Entomology, Ornithology & Herpetology: Current Research* 07 (2018). DOI: 10.4172/2161-0983.1000209.

National Audubon Society, "Survival by Degrees: 389 Bird Species on the Brink," 2019, 6, <https://national-prod.s3.amazonaws.com/climatereport-2019-english-lowres.pdf>.

Newton, I. (2008) *The Migration Ecology of Birds*, Academic Press

Van Doren, B.M. and Horton, K.G. (2018) A continental system for forecasting bird migration. *Science* 361, 1115–1118

White, E.P. et al. (2019) Developing an automated iterative near-term forecasting system for an ecological study. *Methods Ecol. Evol.* 10, 332–344 *Trends in Ecology & Evolution* Trends in Ecology & Evolution, Month 2022, Vol. xx, No. xx 13

Winger, B.M. et al. (2019) Nocturnal flight-calling behavior predicts vulnerability to artificial light in migratory birds. *Proc. R. Soc. B Biol. Sci.* 286, 20190364

Zuckerberg, B. et al. (2016) Novel seasonal land cover associations for eastern North American forest birds identified through dynamic species distribution modelling. *Divers. Distrib.* 22, 717–730

Why are birds important in determining environmental degradation?

M. L. Morrison, in *Current Ornithology*, R. F. Johnston, Ed. (Springer US, Boston, MA, 1986; http://link.springer.com/10.1007/978-1-4615-6784-4_10), pp. 429–451.

J. Burger, M. Gochfeld, *Marine Birds as Sentinels of Environmental Pollution*. *EcoHealth*. 1 (2004), doi:10.1007/s10393-004-0096-4.

Are North American Birds in Decline?

Cumulative loss of nearly three billion birds since 1970, across most North American biomes, signals a pervasive and ongoing avifaunal crisis.

Kenneth V. Rosenberg, Adriaan M. Dokter, Peter J. Blancher, John R. Sauer, Adam C. Smith, Paul A. Smith, Jessica C. Stanton, Arvind Panjabi, Laura Helft, Michael Parr, Peter P. Marra. (2019) Decline of the North American Avifauna. *Science*.

<file:///C:/Users/User/Documents/Lights%20Out%20CT/Literature/DECLINE-OF-NORTH-AMERICAN-AVIFAUNA-SCIENCE-2019.pdf>

How many birds are lost in collisions with buildings per year per year?

Up to 1 billion.

Scott R. Loss et al., “Bird–building collisions in the United States: Estimates of annual mortality and species vulnerability,” *The Condor* 116 (1): 8-23 (2014), <https://doi.org/10.1650/CONDOR-13-090.1>.

Brandon P. Brogle, et al., “Evidence and consequences of bird window collisions based on angle of strike,” poster presented at: Wilson Ornithological Society Annual Conference, June 21, 2023, Allentown, Pennsylvania. <https://wos2022.files.wordpress.com/2023/06/wosprogram-2023-updated-6-20.pdf>.

Light Pollution Mechanisms and General Threats

Barentine, J.C. et al. (2021) A case for a new satellite mission for remote sensing of night lights. *Remote Sens.* 13, 2294

Bouroussis, C.A. and Topalis, F.V. (2020) Assessment of outdoor lighting installations and their impact on light pollution using unmanned aircraft systems – the concept of the drone-goniophotometer. *J. Quant. Spectrosc. Radiat. Transf.* 253, 107155

Cinzano, P. et al. (2001) The first World Atlas of the artificial night sky brightness. *Mon. Not. R. Astron. Soc.* 328, 689–707

Elmore, J.A. et al. (2021) Correlates of bird collisions with buildings across three North American countries. *Conserv. Biol.* 35, 654–665

Falchi, F. et al. (2016) The new world atlas of artificial night sky brightness. *Sci. Adv.* 2, e1600377 41.

Alcott, B. (2005) Jevons' paradox. *Ecol. Econ.* 54, 9–21

Garrett, J.K. et al. (2020) Skyglow extends into the world's key biodiversity areas. *Anim. Conserv.* 23, 153–159

Gaston, K.J. et al. (2014) Human alteration of natural light cycles: causes and ecological consequences. *Oecologia* 176, 917–931

Gaston, K.J. et al. (2017) Impacts of artificial light at night on biological timings. *Annu. Rev. Ecol. Evol. Syst.* 48, 49–68

Gaston, K.J. (2018) Lighting up the nighttime. *Science* 362, 744–746

Gaston, K.J. et al. (2021) Pervasiveness of biological impacts of artificial light at night. *Integr. Comp. Biol.* 61, 1098–1110

Guarnieri, M. (2018) An historical survey on light technologies. *IEEE Access* 6, 25881–25897

Guk, E. and Levin, N. (2020) Analyzing spatial variability in nighttime lights using a high spatial resolution color Jilin-1 image – Jerusalem as a case study. *ISPRS J. Photogramm. Remote Sens.* 163, 121–136

Hölker, F. et al. (2010) Light pollution as a biodiversity threat. *Trends Ecol. Amp Evol.* 25, 681–682

Hölker, F. et al. (2021) 11 Pressing research questions on how light pollution affects biodiversity. *Front. Ecol. Evol.* 9, 767177

Jechow, A. et al. (2019) Beyond all-sky: assessing ecological light pollution using multi-spectral full-sphere fisheye lens imaging. *J. Imaging* 5, 46

Koen, E.L. et al. (2018) Emerging threat of the 21st century lightscape to global biodiversity. *Glob. Change Biol.* 24, 2315–2324

Kubelka, V. et al. (2022) Animal migration to northern latitudes: environmental changes and increasing threats. *Trends Ecol. Evol.* 37, 30–41

Kyba, C.C.M. (2018) Is light pollution getting better or worse? *Nat. Astron.* 2, 267–269

Kyba, C.C.M. et al. (2017) Artificially lit surface of Earth at night increasing in radiance and extent. *Sci. Adv.* 3, e1701528

Levin, N. et al. (2020) Remote sensing of night lights: a review and an outlook for the future. *Remote Sens. Environ.* 237, 111443

Riegel, K.W. (1973) Light pollution: outdoor lighting is a growing threat to astronomy. *Science* 179, 1285–1291

Sanders, D. et al. (2021) A meta-analysis of biological impacts of artificial light at night. *Nat. Ecol. Evol.* 5, 74–81

Spitschan, M. et al. (2016) Variation of outdoor illumination as a function of solar elevation and light pollution. *Sci. Rep.* 6, 26756

Vandersteen, J. et al. (2020) Quantifying the impact of light pollution on sea turtle nesting using ground-based imagery. *Remote Sens.* 12, 1785

Verheijen, F.J. (1985) Photopollution: artificial light optic spatial control systems fail to cope with. Incidents, causation, remedies. *Exp. Biol.* 44, 1–18

Wallner, S. (2019) Usage of vertical fisheye-images to quantify urban light pollution on small scales and the impact of LED conversion. *J. Imaging* 5, 86

LED Lights are meant to save energy. They're creating glaring problems. [LED lights are meant to save energy. They're creating glaring problems - Washington Post](#) June 2023

Reflective Glass

American Bird Conservancy, "How Much Does Bird-Friendly Cost?," accessed June 29, 2023, <https://abcbirds.org/news/cost-of-bird-friendlyglass/>

American Bird Conservancy, "Products and Solutions Database," accessed June 28, 2023, <https://abcbirds.org/glass-collisions/products-database/>.

Daniel Klem, "Preventing Bird—Window Collisions," *The Wilson Journal of Ornithology* (2009) 121 (2), 314–321, <http://www.jstor.org/stable/20616902>.

Elizabeth Stamp, "Why Fritted Glass Makes Buildings Even Better," *Architectural Digest*, August 4, 2016, <https://www.architecturaldigest.com/gallery/why-fritted-glass-makes-buildings-even-better>.

Vaclav Smil, "The Stunning Carbon Footprint of Plate Glass: You Need a Lot of Fossil Fuel to Float Molten Glass on a Lake of Tin," *IEEE Spectrum*, March 30, 2022, <https://spectrum.ieee.org/float-glass>.

Yigal Gelb and Nicole Delacretaz, "Windows and Vegetation: Primary Factors in Manhattan Bird Collisions," *Northeastern Naturalist* 16 (3), 2009, 455-470, <http://www.jstor.org/stable/27744581>.

What is the Role of Light Pollution in the Decline of North American Avian Populations?

Adams, C.A. et al. (2019) Effect of anthropogenic light on bird movement, habitat selection, and distribution: a systematic map protocol. *Environ. Evid.* 8, 13

Alaasam, V.J. et al. (2021) The diversity of photosensitivity and its implications for light pollution. *Integr. Comp. Biol.* 61, 1170–1181

Avery, M.L. and Clement, T. (1972) Bird mortality at four towers in eastern North Dakota – fall 1972. *Prairie Nat.* 4, 87–95

Avery, M. et al. (1976) The effects of a tall tower on nocturnal bird migration: a portable ceilometer study. *Auk* 93, 281–291

Baldwin, D.H. (1965) Enquiry into the mass mortality of nocturnal migrants in Ontario. *Ont. Nat.* 3, 3–11
Trends in Ecology & Evolution 12 *Trends in Ecology & Evolution*, Month 2022, Vol. xx, No. xx

Bocetti, C.I. (2011) Cruise ships as a source of avian mortality during fall migration. *Wilson J. Ornithol.* 123, 176–178

Bridge, E.S. et al. (2013) Advances in tracking small migratory birds: a technical review of light-level geolocation. *J. Field Ornithol.* 84, 121–137

Cabrera-Cruz, S.A. et al. (2019) Urban areas affect flight altitudes of nocturnally migrating birds. *J. Anim. Ecol.* 88, 1873–1887

Cabrera-Cruz, S.A. et al. (2018) Light pollution is greatest within migration passage areas for nocturnally-migrating birds around the world. *Sci. Rep.* 8, 3261

Davies, T.W. et al. (2013) Artificial light pollution: are shifting spectral signatures changing the balance of species interactions? *Glob. Change Biol.*

Elmore, J.A. et al. (2021) Predicting bird–window collisions with weather radar. *J. Appl. Ecol.* 58, 1593–1601

Evans, W.R. et al. (2007) Response of night-migrating songbirds in clouds to colored and flashing light. *North Am. Birds* 60, 476–488

Gaston, K.J. and de Miguel, A.S. (2022) Environmental impacts of artificial light at night. *Annu. Rev. Environ. Resour.* 47, 373–398

<https://www.annualreviews.org/doi/10.1146/annurev-environ-112420-014438>

Gaston, K.J. et al. (2013) The ecological impacts of nighttime light pollution: a mechanistic appraisal. *Biol. Rev.* 88, 912–927

Gehring, J. et al. (2009) Communication towers, lights, and birds: successful methods of reducing the frequency of avian collisions. *Ecol. Appl.* 19, 505–514

Horton, K.G. et al. (2019) Bright lights in the big cities: migratory birds' exposure to artificial light. *Front. Ecol. Environ.* 17, 209–214

Jones, J. (2001) Habitat selection studies in avian ecology: a critical review. *Auk* 118, 557–562

- Jones, J. and Francis, C.M. (2003) The effects of light characteristics on avian mortality at lighthouses. *J. Avian Biol.* 34, 328–333
- Korner, P. et al. (2022) Birds and the 'Post Tower' in Bonn: a case study of light pollution. *J. Ornithology.* 163, 827–841
- Korpach, A.M. et al. (2022) Urbanization and artificial light at night reduce the functional connectivity of migratory aerial habitat. *Ecography* 8, e05581
- La Sorte, F.A. et al. (2017) Seasonal associations with urban light pollution for nocturnally migrating bird populations. *Glob. Change Biol.* 23, 4609–4619
- La Sorte, F.A. and Horton, K.G. (2021) Seasonal variation in the effects of artificial light at night on the occurrence of nocturnally migrating birds in urban areas. *Environ. Pollut.* 270, 116085
- La Sorte, F.A. et al. (2022) The role of artificial light at night and road density in predicting the seasonal occurrence of nocturnally migrating birds. *Divers. Distrib.* 28, 992–1009
- La Sorte, F.A. et al. (2022) Assessing the combined threats of artificial light at night and air pollution for the world's nocturnally migrating birds. *Glob. Ecol. Biogeogr.* 31, 912–924
- La Sorte, F.A. et al. (2022) Seasonal associations with light pollution trends for nocturnally migrating bird populations. *Ecosphere* 13, e3994
- La Sorte, F.A. et al. (2023) Light pollution enhances ground level exposure to airborne toxic chemicals for nocturnally migrating passerines. *Glob. Change Biol.* 29, 57–68
- Lao, S. et al. (2020) The influence of artificial light at night and polarized light on bird-building collisions. *Biol. Conserv.* 241, 108358
- Longcore, T. and Rich, C. (2004) Ecological light pollution. *Front. Ecol. Environ.* 2, 191–198
- Longcore, T. et al. (2008) Height, guy wires, and steady-burning lights increase hazard of communication towers to nocturnal migrants: a review and meta-analysis. *Auk* 125, 485–492
- Loss, S.R. et al. (2019) Factors influencing bird-building collisions in the downtown area of a major North American city. *PLoS ONE* 14, e0224164
- McLaren, J.D. et al. (2018) Artificial light at night confounds broad-scale habitat use by migrating birds. *Ecol. Lett.* 21, 356–364
- Ng, W.H. et al. (2022) Continental-scale biomass redistribution by migratory birds in response to seasonal variation in productivity. *Glob. Ecol. Biogeogr.* 31, 727–739
- Overing, R. (1936) The 1935 fall migration at the Washington Monument. *Wilson Bull.* 48, 222–224
- Rebke, M. et al. (2019) Attraction of nocturnally migrating birds to artificial light: the influence of colour, intensity and blinking mode under different cloud cover conditions. *Biol. Conserv.* 233, 220–227
- Rodríguez, A. et al. (2017) Seabird mortality induced by land based artificial lights. *Conservation Biol.* 31, 986–1001

Ronconi, R.A. et al. (2015) Bird interactions with offshore oil and gas platforms: review of impacts and monitoring techniques. *J. Environ. Manag.* 147, 34–45

Saha, P. (2017) Lights out for the Texas skyscraper that caused hundreds of songbird deaths. Audubon Published online May 12, 2017. <https://www.audubon.org/news/lights-out-texasskyscraper-caused-hundreds-songbird-deaths> 16. Sullivan, B. and Press, T.A. (2021) Hundreds of dead migratory birds in New York city prompt calls for dimming lights. NPR Published online.

Smith, R.A. et al. (2021) Pre-migration artificial light at night advances the spring migration timing of a trans-hemispheric migratory songbird. *Environ. Pollut.* 269, 116136

Syposz, M. et al. (2021) Avoidance of different durations, colours and intensities of artificial light by adult seabirds. *Sci. Rep.* 11, 18941

Van Doren, B.M. et al. (2017) High-intensity urban light installation dramatically alters nocturnal bird migration. *Proc. Natl. Acad. Sci. U. S. A.* 114, 11175–11180

Van Doren, B.M.V. et al. (2021) Drivers of fatal bird collisions in an urban center. *Proc. Natl. Acad. Sci. U. S. A.* 114, 11175–11180

Verheijen, F.J. (1960) The mechanisms of the trapping effect of artificial light sources upon animals. *Arch. Néerl. Zool.* 13, 1–107

Watson, M.J. et al. (2016) Anthropogenic light is associated with increased vocal activity by nocturnally migrating birds. *Condor* 118, 338–344

Zhao, X. et al. (2020) Blue light attracts nocturnally migrating birds. *Condor* 122, duaa002

Light Pollution Threat to Other Taxa

Boyes, D.H. et al. (2021) Is light pollution driving moth population declines? A review of causal mechanisms across the life cycle. *Insect Conserv. Divers.* 14, 167–187

Ditmer, M.A. et al. (2021) Artificial nightlight alters the predator–prey dynamics of an apex carnivore. *Ecography* 44, 149–161

Firebaugh, A. and Haynes, K.J. (2019) Light pollution may create demographic traps for nocturnal insects. *Basic Appl. Ecol.* 34, 118–125

Laforge, A. et al. (2019) Reducing light pollution improves connectivity for bats in urban landscapes. *Landsc. Ecol.* 34, 793–809

Parlin, A.F. et al. (2022) Oriented migratory flight at night: consequences of nighttime light pollution for monarch butterflies. *iScience* 25, 104310

McFarlane, R.W. (1963) Disorientation of loggerhead hatchlings by artificial road lighting. *Copeia* 1963, 153

Marangoni, L.F.B. et al. (2022) Impacts of artificial light at night (ALAN) in marine ecosystems – a review. *Glob. Change Biol.* 28, 5346–5367

- Meng, L. et al. (2022) Artificial light at night: an underappreciated effect on phenology of deciduous woody plants. *PNAS Nexus* 1, pgac046
- Moore, M.V. et al. (2017) Urban light pollution alters the diel vertical migration of *Daphnia*. *Vehr. Int. Verein Limnol.* 27, 779–782
- Lennox, R.J. et al. (2019) One hundred pressing questions on the future of global fish migration science, conservation, and policy. *Front. Ecol. Evol.* 7, 286
- Ludvigsen, M. et al. (2018) Use of an autonomous surface vehicle reveals small-scale diel vertical migrations of zooplankton and susceptibility to light pollution under low solar irradiance. *Sci. Adv.* 4, eaap9887
- Stanley, T.R. et al. (2020) Brightness of the night sky affects loggerhead (*Caretta caretta*) sea turtle hatchling misorientation but not nest site selection. *Front. Mar. Sci.* 7, 221
- Stepanian, P.M. et al. (2020) Declines in an abundant aquatic insect, the burrowing mayfly, across major North American waterways. *Proc. Natl. Acad. Sci. U. S. A.* 117, 2987–2992
- Tielens, E.K. et al. (2021) Nocturnal city lighting elicits a macroscale response from an insect outbreak population. *Biol. Lett.* 17, 20200808
- Voigt, C.C. et al. (2017) Migratory bats respond to artificial green light with positive phototaxis. *PLoS ONE* 12, e0177748
- Voigt, C.C. et al. (2018) Migratory bats are attracted by red light but not by warm-white light: implications for the protection of nocturnal migrants. *Ecol. Evol.* 8, 9353–9361

Policy

- Hölker, F. et al. (2010) The dark side of light: a transdisciplinary research agenda for light pollution policy. *Ecol. Soc.* 15, 13
- Jenkins-Smith, H. (1990) *Democratic Politics and Policy Analysis*, Brooks/Cole
- Ripple, W.J. et al. (2017) World scientists' warning to humanity: a second notice. *BioScience* 67, 1026–1028
- Sabatier, P.A. and Jenkins-Smith, H.C. (1993) *Policy Change and Learning: An Advocacy Coalition Approach*, Westview Press
- Lubell, M. et al. (2010) Collaborative Institutions in an ecology of games. *Am. J. Polit. Sci.* 54, 287–300
- Jenkins-Smith, H.C. et al. (2018) The advocacy coalition framework: an overview of the research program. In *Theories of the Policy Process* (4th edn) (Weible, C.M. and Sabatier, P.A., eds), pp. 135–171, Routledge
- Weible, C.M. et al. (2020) Sharpening advocacy coalitions. *Policy Stud. J.* 48, 1054–1081

Weible, C.M. (2005) Beliefs and perceived influence in a natural resource conflict: an advocacy coalition approach to policy networks. *Polit. Res. Q.* 58, 461–475

Sunstein, C.R. et al. (2016) How people update beliefs about climate change: good news and bad news. *Cornell Law Rev.* 102, 1431

Druckman, J.N. and McGrath, M.C. (2019) The evidence for motivated reasoning in climate change preference formation. *Nat. Clim. Chang.* 9, 111–119

City of New York, “Bird Friendly Building Design & Construction Requirements Guidance Document,” November 2020, www1.nyc.gov/assets/buildings/bldgs_bulletins/bird_friendly_guidance_document.pdf.

“Griffith, Quigley Introduce the Federal Bird Safe Buildings Act,” Website of Congressman Morgan Griffith, accessed June 15, 2023. <https://morgangriffith.house.gov/news/documentsingle.aspx?DocumentID=402874>.

Government Accountability Office, “Federal Real Property: National Strategy and Better Data Needed to Improve Management of Excess and Underutilized Property,” GAO Publication No. 12-645, June 2012, 1, <https://www.gao.gov/assets/gao-12-645.pdf>.

Cupertino Zoning Code 19.102.030 (B)(1–3). Cupertino Zoning Code 19.102.010.

Livable City, “Rethinking Residential Zoning,” March 1, 2018, www.livablecity.org/rethinking-rh/; and San Francisco Planning Department, San Francisco Zoning Map, April 2020, https://sfplanning.org/sites/default/files/resources/2019-02/zoning_use_districts.pdf.

“Local Leaders in Sustainability: Green Building Incentive Trends,” American Institute of Architects and National Association of Counties, March 2012, <https://www.naco.org/resources/local-leaders-sustainabilitygreen-building-incentive-trends>.

“Good to Know: Green Building Incentive Strategies,” U.S. Green Building Council, accessed May 4, 2023, <https://www.usgbc.org/articles/goodknow-green-building-incentive-strategies-0>.

Eva Rosenbloom et al., “Transforming Existing Buildings from Climate Liabilities to Climate Assets,” Rocky Mountain Institute, 2023, <https://rmi.org/insight/transforming-existing-buildings-from-climate-liabilities-to-climate-assets/#:~:text=Investing%20in%20existing%20buildings%20makes,carbon%20impact%20of%20these%20retrofits>.

“Seizing the Decarbonization Opportunity in Construction,” McKinsey & Company, July 14, 2021, accessed May 4, 2023, <https://www.mckinsey.com/industries/engineering-construction-and-building-materials/our-insights/call-for-action-seizing-the-decarbonization-opportunity-in-construction>.

U.S. Green Building Council, “Innovation: Bird collision deterrence,” accessed April 27, 2023, <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-data-75>.

Lisa Foderaro, “Renovation at Javits Center Alleviates Hazard for Manhattan’s Birds,” *The New York Times*, September 4, 2015, <https://www.nytimes.com/2015/09/05/nyregion/making-the-javits-center-less-deadly-for-birds.html>.

Romany Webb, “How the Javits Center Is Cutting Energy Use, Reducing Water Pollution, and Cooling Manhattan,” Columbia University, July 28, 2017, <https://blogs.law.columbia.edu/climatechange/2017/07/28/howthe-javits-center-is-cutting-energy-use-reducing-water-pollution-andcooling-manhattan/>.

Kierán Suckling et al., “A Wild Success: A Systematic Review of Bird Recovery Under the Endangered Species Act,” Center for Biological Diversity, 2016, <https://biologicaldiversity.org/campaigns/esa/pdfs/WildSuccess.pdf>.

Human Health

Svechkina, A. et al. (2020) The impact of artificial light at night on human and ecosystem health: a systematic literature review. *Landsc. Ecol.* 35, 1725–1742

Community Science

Rebolo-Ifrán, N. et al. (2019) Drivers of bird–window collisions in southern South America: a two-scale assessment applying citizen science. *Sci. Rep.* 9, 18148

Uribe-Morfín, P. et al. (2021) The invisible enemy: understanding bird–window strikes through citizen science in a focal city. *Ecol. Res.* 36, 430–439