Lights Out: Help Save Out Birds, Pollinators & Other Wildlife Resources for Lights Out Carol Woods Bird Club, January 13, 2025

Dark Sky:

DarkSky's mission is to work to restore the nighttime environment and protect communities and wildlife from light pollution.

DarkSky International.org: <u>https://darksky.org</u>

The DarkSky website is a comprehensive resource for science and best use of lighting fixtures to manage Artificial Lights At Night (ALAN).

Artificial Light at Night: State of the Science 2024: <u>https://darksky.org/news/artificial-light-at-night-state-of-the-science-2024/</u> This is a summary report for research from 2024 with footnotes for each citation in the report.

Artificial Lights at Night Research Literature Database: This is an ALAN searchable database by topic such as birds, pollinators, plants, etc. <u>https://www.zotero.org/groups/2913367/alan_db/library</u>

Book - Night Magic:

Henion, Leigh Ann. *Night Magic: Adventures Among Glowworms, Moon Gardens, and Other Marvels of the Dark.* New York, Algonquin Books of Chapel Hill, 2024.

Discover the magic of our Appalachian Mountains in Leigh Ann's nighttime explorations described in her book. It is a fascinating journey into our nighttime environment you won't want to miss. This Kirkus Reviews says it best: "A lyrical, fascinating story about exploring the secret world of darkness and the remarkable creatures within it. Henion writes with poetic grace."

World Atlas of Artificial Night Sky:

- Fabio Falchi et al. The New World Atlas of Artificial Night Sky: https://www.science.org/doi/10.1126/sciadv.1600377
- CIRES: Cooperative Institute for Research in Environmental Sciences at the University of Colorado Boulder https://cires.colorado.edu/Artificial-light

National Library of Medicine:

PubMed Central[®] (PMC) is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM) <u>https://pmc.ncbi.nlm.nih.gov/</u>

Insects:

- Xerces Society for Invertebrate Conservation: https://www.xerces.org/
 - o https://www.xerces.org/blog/to-protect-pollinators-we-need-to-fight-light-pollution
 - o <u>https://xerces.org/blog/the-night-shift-moths-as-nocturnal-pollinators</u>
- National Library of Medicine:
 - The impact of artificial light at night on nocturnal insects: A review and synthesis: <u>https://pmc.ncbi.nlm.nih.gov/articles/PMC6262936/#ece34557-sec-0001</u>

• <u>Fireflies:</u>

<u>NCSU Extension</u>: "Discover the Secret Science of Fireflies" with Dr. Clyde Sorenson. https://homegrown.extension.ncsu.edu/2021/06/discover-the-secret-science-of-fireflies/

- <u>Moths:</u>
 - Dr. Sam Fabian, Imperial College London: "'Like a moth to a flame' this strange insect behavior is finally explained".
 - Video of moth flying around artificial light: <u>https://www.youtube.com/watch?v=i7awa_WGI_o</u>
 - Research paper: <u>https://www.nature.com/articles/s41467-024-44785-3</u>

Plants:

Knop, E., Zoller, L., Ryser, R. et al. Artificial light at night as a new threat to pollination. Nature 548, 206–209 (2017). <u>https://doi.org/10.1038/nature23288</u>

Reptiles:

Emily S. Wooley, Louis E. Keiner, Scott L. Parker, H. Erin Rickard, and Eric T. Koepfler "The Effect of Artificial Light on Orientation of Hatchling Loggerhead Sea Turtles (Caretta caretta)," Ichthyology & Herpetology 112(3), 328-338, (9 September 2024). <u>https://doi.org/10.1643/h2020039</u>

Amphibians:

Alexander S. Hall "Acute Artificial Light Diminishes Central Texas Anuran Calling Behavior," The American Midland Naturalist 175(2), 183-193, (1 April 2016). <u>https://doi.org/10.1674/0003-0031-175.2.183</u>

Mammals/Humans:

National Library of Medicine - search by topic of interest. https://pmc.ncbi.nlm.nih.gov/

Birds:

- Cornell Lab, Living Bird, Winter 2024: "A Fifth of All Bird Species Occur in Cities. Could Urban Living Be Made Easier?" <u>https://www.allaboutbirds.org/news/a-fifth-of-all-bird-species-occur-in-cities-could-urbanliving-be-made-easier/</u>
- Lights Out North Carolina <u>https://nc.audubon.org/conservation/lights-out-north-carolina</u>