

## A LEPIDOPTERA RESOURCE LIST

Compiled by Bryan Pfeiffer and Hugh McGuinness  
(Find advice on field guides and field supplies in the course syllabus.)

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### General

- **iNaturalist** — Crowd-sourced data on virtually everything living, a great way to report leps: <http://www.inaturalist.org/>
- **Seek** — An iNaturalist app. Point it at the organism and get an ID in the field. Amazing (and maybe a bit scary at the same time).
- **e-Butterfly** — Like eBird for butterflies. [www.e-butterfly.org](http://www.e-butterfly.org).
- **Butterflies of America** — An impressive resource with lists and images. <http://butterfliesofamerica.com/>
- **GBIF** — An astounding collection of world biodiversity data. <https://www.gbif.org/>
- **BugGuide.net** — Although using it can be cumbersome, this site has good information. Be skeptical of range maps and date info as IDs may be incorrect: <http://bugguide.net/>
- **Butterflies and Moths of North America (BAMONA)** — A citizen science project attempting to collect records for all species of Lepidoptera: <http://www.butterfliesandmoths.org/>
- **The Lepidopterists' Society** — The preeminent scientific organization devoted to Lepidoptera. Publishes an academic journal and a popular newsletter: <http://www.lepsoc.org/index.php>
- **The Xerces Society** — Our premier invertebrate conservation organization: <http://www.xerces.org/>
- **North America Butterfly Association (NABA)** — Beware of its misguided anti-net biases: <http://www.naba.org/>
- **BOLD Systems** — The website where the “barcodes” of all species are kept. Good to see variety of pinned moths. Linked from Moth Photographers Group: <http://www.boldsystems.org/>
- **The Butterfly Digest** — Listserves and alerts by region: [http://www.butterflydigest.com/s/digest.pl?rm=all\\_lists](http://www.butterflydigest.com/s/digest.pl?rm=all_lists)

### Butterflies

- **Maine Butterfly Survey** — Citizen science: <http://mbs.umf.maine.edu/>
- **Vermont Butterfly Survey** — A project of the Vermont Center for Ecostudies: <http://www.vermontbutterflysurvey.org/>
- **Wisconsin Butterflies** — A fine general resource with great images: <https://wisconsinbutterflies.org/butterfly>
- **Massachusetts Butterfly Club** — Another general resource with quiz butterflies on the home page and an option to compare to species side-by-side: <http://www.naba.org/chapters/nabambc/construct-group-page.asp?gr=All>
- **Butterflies of Canada** — Lots of good resources here: <https://www.cbif.gc.ca/eng/species-bank/butterflies-of-canada/?id=137040326518>
- **Ontario Butterfly Atlas** — A masterpiece: <https://www.ontarioinsects.org/atlas/>
- **Randy Emmitt's Site** — Butterflies of the Carolinas and Virginias: [http://rlephoto.carolinanature.com/\\_start.htm](http://rlephoto.carolinanature.com/_start.htm)

- **Learn About Butterflies** — A guide to the biology and taxonomy of butterflies and moths of the world. Some great stuff about basic biology in here: <http://www.learnaboutbutterflies.com/index.htm>
- **Taming the Tigers** — Bryan's guide to the identification of northern tiger swallowtails: <https://bryanpfeiffer.com/taming-the-tigers/>
- **Celastrina Guide** — A basic guide to the *Celastrina* species of Connecticut: [http://www.ctbutterfly.org/pdfdocs/Azure\\_guide\\_new.html#plate](http://www.ctbutterfly.org/pdfdocs/Azure_guide_new.html#plate)
- **Getting the Blues** — Bryan's explainer on *Celastrina*: <https://bryanpfeiffer.com/2018/04/02/getting-the-blues/> (Based in large part on this 2016 paper from Ontario: <https://zookeys.pensoft.net/article/7882/>)

## Moths

- **Moth Photographer's Group (MPG)** — A great collection of plates for live and spread adults; also building its collection of larval and genitalia images. Beware: there are still many misidentifications, and the range maps and phenology information may have problems: <http://mothphotographersgroup.msstate.edu/>
- **Canadian Biodiversity Information Facility (CBIF)** — Plates of Bombycoids, Geometroids and Noctuids that are found in Canada: <http://www.cbif.gc.ca/eng/species-bank/moths-of-canada/?id=1370403266283>
- **Georgia Lepidoptera** — A nice state list with some images compiled and maintained by James Adams: <http://www.daltonstate.edu/galeps/>
- **Moths of North Dakota** — A list of the moths of North Dakota with many educational graphics about moth anatomy. Built and maintained by Jerry Fiske: <https://www.ndsu.edu/pubweb/~gefause/ndmoths/home.htm>
- **Nearctica.com** — Bob Poole's website on which he covers several important groups including *Cucullia*, *Leucania*, *Condica*, the *Acontiines*, etc. Linked from MPG. Here is the link for *Leucania* <http://www.nearctica.com/leucania/index.htm> Here is the link for many of the other groups: <http://nearctica.com/moths/noctuid/noctuidae.htm>
- **Pacific Northwest Moths** — surprisingly useful for east coast folks. Many species linked from MPG: <http://pnwmoths.biol.wvu.edu/>

## Equipment

- **BioQuip** — Collecting and other equipment and gear for entomology: <https://www.bioquip.com/>. Note that BioQuip's shipping charges tend to be high, delivery times long, and items are sometimes on "back-order." Your best bet in time for the field season is to order before March. Note that BioQuip now carries supplies previously manufactured by Rose Entomology (<http://roseentomology.com/>), including wonderful insect nets.
- **Atelier Jean Paquet** — A small company in Montreal that makes great Schmidt Boxes and Collection Drawers. Also sells other Lep equipment: <http://www.atelierjeanpaquet.com/en/default.aspx>
- **LepTraps.com** — Good source for traps, equipment and information: <http://www.leptraps.com/>
- **Great Lakes IPM** — The best place to buy pheromone lures, used especially for seeking Sesiids: <http://www.greatlakesipm.com/>
- **Watkins & Doncaster** — British lep supplier that makes hard-to-find equipment. <http://www.watdon.co.uk/>
- **GAIA GPS** — The best map app in the history of the universe. <https://www.gaiagps.com/>