**Manuscript title:** Sex-specific ornament evolution is a consistent feature of climatic adaptation across space and time in dragonflies

**Authors:** Michael P. Moore, Kaitlyn Hersch, Chanont Sricharoen, Sarah Lee, Caitlin Reice, Paul Rice, Sophie Kronick, Kim A. Medley, and Kasey D. Fowler-Finn

**Contact Email:** moore.evo.eco@gmail.com. **Contact Office Phone:** 1-314-935-3460

**Description:** This zip file contains the data, annotated code, and meta-data files underlying the article. Please see the article for methods of how data was collected. See meta-data files within the compressed folder for information about each data file.

**Compressed Folder Contains:**

* Data and meta-data for traits of 319 Nearctic dragonfly species
* Data and meta-data for wing melanization measured from 2718 iNaturalist observations
* Data and meta-data for species’ traits and range shifts of 65 European dragonfly species
* Data and meta-data for heritability estimates taken from animal model studies (see also Moore et al. 2019, *Ecology Letters*; Dryad entry: <https://doi.org/10.5061/dryad.360v97q>)
* Phylogeny from Waller & Svensson (2017, *Evolution 71: 2178–2193*) pruned to include the 319 focal Nearctic species
* Phylogeny digitized from Grewe et al. (2013, *Global Ecology and Biogeography*22, 403–409) and pruned to include the 65 European species in our analysis
* Spreadsheet with detailed calculations for forecasting shifts in ornamentation in response to global warming
* Annotated code for analyzing interspecific geographic variation in wing ornamentation
* Annotated code for analyzing intraspecific geographic variation in wing coloration
* Annotated code for analyzing range shifts among European dragonfly species
* Annotated code for analyzing contemporary annual variation in wing coloration
* Annotated code for forecasting ornamentation across species’ ranges
* Annotated code for estimating the heritability of melanin-based traits in insects