

North Dakota Wildlife Society Conference: Download & Explore NEON Data Workshop

Feb 6, 2024

Hosted By: The North Dakota Wildlife Society

Workshop Background

In this workshop, NEON scientists will lead participants through the NEON website and NEON data portal to learn about NEON's online educational resources and how to download data. Then, participants will learn how to use the neonUtilities R package to transform NEON data into a format that is easier to work with, how to use provided metadata to understand data contents, and how to download data directly into R. The workshop will feature live instructional delivery with the opportunity to answer chat-supported questions. The workshop will also feature a presentation by Andrea Anteau, Domain 09 Manager, about the field sites and data collection unique to the region. This is a closed workshop for folks participating in the 2023 North Dakota Wildlife Society Conference.

Required Prior Knowledge

This workshop has three components. First, a presentation on NEON in the Northern Plains and a walkthrough of the online, educational resources for working with NEON data. The second portion of the workshop will introduce the NEON Data Portal and review accessing and finding data via the NEON Data Portal. The final portion of the workshop will cover how to access and work with NEON data in R. To follow along with this portion of the workshop on your personal computer (e.g., coding along with the instructors), we expect participants have a basic level of familiarity with working with R, including installing and loading packages, and data import. If you do not have a basic level of familiarity with working with R, we recommend you follow along by just watching.

Optional Introductory Assignment

- Watch the [NEON: Open Data to Understand our Changing Ecosystems](#) video to get a quick introduction to the Observatory
- Watch the [Exploring and Downloading NEON Data Products](#) video to get a quick introduction to the NEON Data Portal
- Watch the [Data Skills Webinar: Download and Explore NEON Data in R](#) video to see a recording of a similar workshop
- Read and download the [Download and Explore NEON data tutorial](#) to get familiar with the tutorial we will be using during the workshop
- **If you want to code along during the workshop**, install R studio and download relevant packages to the workshop. To do this, follow the instructions in the "Workshop Materials" section on the bottom of this page.
- If you are not familiar with R, we recommend you go through our [Basic R Skills Tutorial](#)

Logistics

Date & Time: Tuesday, February 6th, 2:00PM-4:00PM CST

Location: In-person; Baymont by Wyndham- 2611 Old Red Trail, Mandan, ND, 58554

Registration

This is a private workshop for people participating in the North Dakota Wildlife Society Workshop

Workshop Schedule: **All times are** Central Standard Time.

TIME	TOPIC
12:30	Join the workshop early if you have any setup or installation issues.
02:00	Welcome to the Workshop - Logistics Overview
02:10	Introduction to the NEON in the Northern Plains & Overview of NEON's Educational Resources
02:40	NEON Data Portal Overview
03:00	Download and Explore NEON data tutorial
03:50	Final Questions & Evaluation
04:00	Workshop Ends

Do you Twitter?

Please tweet at [@NEON_Sci](#) or use the hashtag [#NEONData](#) during this workshop!