# **2021-07-14\_example-metadata\_IR**

Data should be in geopackage format. If there are multiple layers in the geopackage, please make a separate Data Table for each layer and describe details in relevant sections.

## **Abstract/Methods:**

Land cover type determines connectivity of a landscape. Using the software Circuitscape, we assigned resistance values to all land cover types across the City of Ottawa and calculated the mean current density of the landscape. These data show where there is high mean current density, or connectivity, and where connectivity is low. Using these data, we test how this impacts the abundance and species richness of Odonates at urban stormwater ponds.

## **Layer(s):**

example-layer (raster)

## **Source:**

Circuitscape analysis, not publicly available

## **Contributors:**

|  |  |  |  |
| --- | --- | --- | --- |
| First Name | Middle Initial | Last Name | e-mail address |
| Isabella | C | Richmond | isabella.richmond@mail.concordia.ca |

## **Timeframe**

* Year data was collected:
* Year GIS data was published (if different from above):
* Date data was downloaded:

## **Geographic Information**

* Layer type (raster or vector): Raster
* Location: City of Ottawa, Ontario, CA
* North bounding coordinates: 45.6854
* South bounding coordinates: 44.8097
* East bounding coordinates: -75.03499
* West bounding coordinates: -76.56026
* CRS (epsg code): 4326

## **Data Table**

· Column name: exactly as it appears in the dataset. Please avoid special characters, dashes and spaces.

· Description: please be specific, it can be lengthy

· Unit: please avoid special characters and describe units in this pattern: e.g. microSiemenPerCentimeter, microgramsPerLiter, absoptionPerMolePerCentimeter

· Code explanation: if you use codes in your column, please explain in this way: e.g. LR=Little Rock Lake, A=Sample suspect, J=Nonstandard routine followed

· Data format: please tell us exactly how the date and time is formatted: e.g. mm/dd/yyyy hh:mm:ss plus the time zone and whether or not daylight savings was observed.

· If a code for ‘no data’ is used, please specify: e.g. -99999

Please add rows as needed

**Table description:** Add a description for each table

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **Description** | **Unit or**  **code explanation or date format** | **Source** |
| **values** | Mean current density values. Higher values represent higher current density and thus higher connectivity. | Unitless, relative value |  |

**Scripts/code (software)**

(List any software scripts/code you would like to archive along with your data. These may include processing scripts you wrote to create, clean, or analyze the data.)

All processing scripts and subsequent analysis can be found at: <https://github.com/icrichmond/OdonataConnectivity/tree/average-buffers>

|  |  |  |
| --- | --- | --- |
| **File name** | **Description** | **Scripting language** |
| **0-CircuitscapePrep.R** | This file preps the land cover data to be analyzed in Circuitscape which produces the data found in the geopackage  (https://github.com/icrichmond/OdonataConnectivity/tree/average-buffers/script) | R |

**Data provenance**

(Were these data derived from other data? If so, you will want to document this information so users know where these data come from.)

|  |  |  |  |
| --- | --- | --- | --- |
| **Dataset title** | **Dataset DOI or URL** | **Creator (name & email)** | **Contact (name & email)** |
| **LandCover2011** | Not publicly available | City of Ottawa | DIOinquiry@ottawa.ca |

## 

## **Notes and Comments**

[1] This document liberally borrows from similar documents at SBC and GCE