

UC Santa Barbara

Data Descriptions

Title

Data Description: Photo Documentation of the North Campus Open Space Restoration Project

Permalink

<https://escholarship.org/uc/item/5zf6d6q3>

Author

Clark, Ryan D

Publication Date

2020-04-01

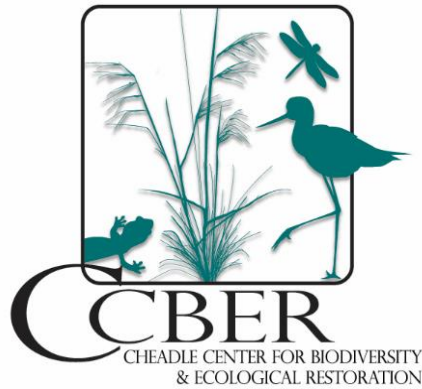
Data Availability

The data associated with this publication are within the manuscript.

Copyright Information

This work is made available under the terms of a Creative Commons Attribution License, available at <https://creativecommons.org/licenses/by/4.0/>

**Data Description:
Photo Documentation of the
North Campus Open Space Restoration Project**



UC SANTA BARBARA

This document describes the content, purpose, methods and uses of the photo documentation data set for the UC Santa Barbara North Campus Open Space (NCOS) Restoration Project.

TITLE:

Photo Documentation of the UC Santa Barbara North Campus Open Space (NCOS) Restoration Project

CONTENT:

- Landscape color photographs of NCOS in jpg format.
- Spatial data points representing the locations (termed photo points) where photographs are taken.

DATE(S):

- Initiated in December 2016

STATUS:

Active, Ongoing, Updated Periodically (see Methods for more information)

PURPOSE:

Photo-documentation was established in the NCOS Restoration Plan (escholarship.org/uc/item/9505h60h) as one of the methods for documenting the progress of the project, including the development of the wetland and changes in the size and cover of vegetation being restored across the different habitats. The photographs collectively provide a visual tour of the project site, and a timeline of the topographical changes to the project landscape as well as the development of several project features such as vegetation, habitats, trails, and bridges.

DATA LOCATION & ACCESS:

The photographs for each photo point are stored in separate folders on a UCSB Box server, and can be viewed by anyone at this url: ucsb.box.com/s/9nx49tb19mqg90ng9wbnprvuexma8ydg In addition, anyone can view an ArcGIS web map of the photo points containing links to each Box folder of photos: ucsb.maps.arcgis.com/apps/webappviewer/index.html?id=52f2fb744eb549289bed20adf34edfd7

REFERENCED IN:

- NCOS Restoration Plan (escholarship.org/uc/item/9505h60h)
- NCOS As-Built Grading and Hydrology Report (escholarship.org/uc/item/0vt7j400)
- Year 1 Monitoring Report (escholarship.org/uc/item/0zc3n78c)
- Year 2 Monitoring Report (escholarship.org/uc/item/5sj929vh)

METHODS:

Photographs are taken in landscape orientation at up to 46 locations, termed photo points, distributed across the NCOS project site. At each photo point, the photographer stands on a step ladder at a height of 2.5 feet and uses a Nikon D7100 camera with a Nikon DX 18-135 mm f/3.5-5.6 lens to collect one to seven photographs depending on what is required to document all aspects of the project site that are visible.

The following camera settings are used:

- the lens focal length is 18mm

- the drive mode is single shot and the shooting mode is P (programmed auto).
- the image quality is JPEG normal with a medium image size, DX image area, optimized JPEG compression, auto white balance, standard picture control, sRGB color space, and Active D-lighting set to auto.
- ISO sensitivity is set to 200 with auto distortion control and high iso noise reduction set to normal.

The filenames applied to each photograph contain the photo point number, orientation (N, SE, W, etc.), and the date the photograph was taken (e.g. NCOS_08_N_20190417). These filenames are applied by using a file.copy function in RStudio that makes a copy of the original file and renames the copy based on a list prepared in a CSV file. Photo point numbers ending with the letters 'a' and 'b' are where photos are taken of the same general area but from different views or angles (e.g. 09a and 09b, 28a and 28b).

The locations of photo points were initially established, and the first set of photographs were taken in December 2016, prior to the start of the restoration project. Subsequent photographs have been taken on a quarterly basis until April 2020, and then biannually until at least 2022. Through the early stages of the restoration project, a few revisions have been made in the number and location of photo points and the frequency of photos at some points. For example, points 05 and 13 were discontinued at an early stage because they were redundant (the photos from point 13 were subsequently relabeled as point 12), photos at what was originally point 09 ceased after the summer of 2017 and were then reinstated in the spring of 2019 and split into 09a and 09b. Documentation of the changes that have been made to the photo monitoring is available at this url: ucsb.box.com/s/hhd8uxky022y6ljv9whf24lh1gh7zqnl.