Plan Overview

A Data Management Plan created using DMPTool-Stage

Title: Landscape of Change

Creator: Catherine Schmitt

Affiliation: Schoodic Institute (schoodicinstitute.org)

Funder: Digital Curation Centre (dcc.ac.uk)

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Project abstract:

To understand how climate change is affecting the ecology of Mount Desert Island we need to look to the past. We can recognize changes to plant and animal populations, shorelines, weather, and migration patterns over time by comparing historic observations with modern data. Knowing which species or ecosystems are changing and how fast provides important information needed to make decisions about how to slow or stop these changes. Landscape of Change is a collaborative project* to publish and compile historic records on birds, pollinators, water temperature, and weather with the goal of identifying trends that show the impact of a changing climate on Mount Desert Island and Acadia National Park. We are working with College of the Atlantic to create an interactive map representing 140 years of data related to these topics, including observations of birds, butterflies, moths, and weather made by members of the Champlain Society in the 1880s (the first three summer camp logs of the C.S. will be published as the 2021 Chebacco in April). With support from private donations, Schoodic Institute is leading the citizen science and data management aspects of Landscapes of Change. This project is a perfect example of how we work with the National Park Service to share information related to science in the park and stories about science past and present, as well as how we provide opportunities for people of all ages to participate in science programs in Acadia National Park and also regionally, nationally, and internationally. Beginning in April, through a series of media campaigns and scheduled events with the National Park Service, we will be inviting Acadia neighbors and visitors to revisit historic data sets and contribute observations of birds and pollinators to help document our changing land- and sea- scapes. Come October, we will analyze this year's data compared to historic information to evaluate changes over time, and communicate these findings with participants. *Mount Desert Island Historical Society (lead), A Climate to Thrive, College of the Atlantic, Mount Desert Island Biological Laboratory, National Park Service, Schoodic Institute at Acadia National Park

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Landscape of Change

Observations of birds, butterflies, bees, and moths

via iNaturalist and eBird and to a lesser extent social media.

Observer, location, date, notes.

Data providers have control over privacy and location information and agree to terms of iNaturalist and eBird.

Need to figure out iNaturalist and eBird permissions...data from Acadia National Park are public.

via iNaturalist and eBird, and multiple hard drives.

Hard drives are secure via SI server.

Data are accessible via iNaturalist and eBird.

Data with research-grade observations (species identified), date, and to some extent location information will be preserved and archived with NPS via IRMA.

IRMA

Via frequent social media updates, occasional news stories on Schoodic Institute website, and some kind of event in Fall 2021.

Possibly also a report or other summary publication.

It is possible that locations of endangered species or threatened plants may need to be kept confidential.

Schoodic Institute and eventually National Park Service.

Funding has been provided by Mount Desert Island Historical Society.

Assistance of taxonomic experts may be required.

A new computer may be needed in the future.