MASTER OF GIS
for SUSTAINABILITY MANAGEMENT
UNIVERSITY of WASHINGTON

MASTER OF GIS FOR SUSTAINABILITY MANAGEMENT OCCASIONAL PAPERS SERIES, AUGUST 2014
https://digital.lib.washington.edu/researchworks/handle/1773/19645

GEOG 569 | GIS WORKSHOP

SUMMER 2014

A CAPSTONE EXPERIENCE

The GEOG 569 GIS Workshop is designed as a capstone experience in which graduate students work in 2-3 person groups with a project sponsor mainly from the greater Puget Sound region. The objective of the workshop is to scope out an original and creative application, geospatial analysis, geodatabase, or other geospatial information product with a workshop project partner for practical use in modeling a social-ecological system for sustainability management purposes.

Based on results from design and testing over just eight weeks, graduate student professional learn how to prepare a business case to a potential project sponsor or senior manager about why the organization should support the implementation of the group's idea, including how it will improve the organization's current work activities and core processes aimed at turning an existing situation (i.e., social-ecological system) into a more sustainable and resilient one.

The main deliverable of the workshop course is the final report, presented in brief to workshop project sponsors, along with any results, proof-of-concept examples, or prototypes developed during design and testing. Each and every participant in this year's capstone project distinguished themselves by successfully demonstrating how GIS can be used to describe, assess and manage complex social-ecological systems problems. We are pleased to present the final reports of the 2014 GIS Workshop in their entirety in this document.

August 2014
Seattle, WA

TABLE OF CONTENTS

1. "A Comparison of the Old and the New: A Case Study About Rebuilding the Nationwide Rivers Inventory"

- **Authors:** Neil Shetty, Scott Schlueter & Emily Zvolanek
- **Sponsor:** National Park Service

2. "Calibrating the Huff Model for Outdoor Recreation Market Share Prediction: Ski Industry in Washington State"

- **Authors:** Chelsey Gilman & Brenden Mclane
- **Sponsor:** Earth Economics

3. "Equitable Park Access in King County: An Analysis for King County Department of Natural Resources and Parks"

- **Authors:** Matt Ringel & Devin Tokizawa
- **Sponsor:** King County Department of Natural Resources and Parks

4. "Seattle City Light - Trimming Trees and Its Impacts on the Urban Forest"

- **Authors:** Ben Hillam, Sahar Pesaran Afsharian & Wally Koli
- **Sponsor**: Seattle City Light

5. "Identifying Wintering Marine Bird Hotspots in the U.S. Salish Sea"

- **Authors:** Caleb Anderson & Chris Domschke
- **Sponsor:** Audubon Washington

6. "Depave the Duwamish: A Site Suitability Analysis Using Multiple Criteria Evaluation & Public Participatory GIS"

- **Authors:** Rebecca Richards Steed, Becca Blackman & Nicole Frankenfield
- **Sponsor:** Sustainable Seattle

7. "The Nature Conservancy: Assessment of Scenario Modeling for Best Management Practices on Agricultural Lands"

- **Authors:** Jessica Hashagen, Shawn Friang & Ben West
- **Sponsor:** The Nature Conservancy

8. "The Regional Open Space Strategy (ROSS): Analyzing Actions in the Lower Puyallup Green Heart"

- **Authors:** Christy Heaton, Sarah Bengston & Jake Hearen
- **Sponsor:** UW Green Futures Research & Design Lab

Recommended Citation: [*authors*]. 2014. ["*title*"]. *Master of GIS for Sustainability Management Occasional Papers Series,* August 2014. https://digital.lib.washington.edu/researchworks/handle/1773/19645