

**Alaska Department of Fish and Game  
Wildlife Restoration Grant**

**Grant Number:** AKW-20

**Segment Number:** 1

**Project Number:** 27.0

**Project Title:** Region II GIS Support

**Project Duration:** 1 July 2016 – 30 June 2017

**Report Due Date:** September 28, 2017

**PRINCIPAL INVESTIGATORS:** Oriana Badajos

**WORK LOCATION:** Alaska

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**I. PROGRESS ON PROJECT OBJECTIVES DURING LAST SEGMENT**

OBJECTIVE 1: Provided GIS consulting and support to research and management programs. Provided review and evaluation of GIS requirements in operational plans. Maintained and investigated new GIS operations and technologies, database applications, spatial data analysis, mapping tools, and cartographic products for research and management applications.

OBJECTIVE 2: Attended conferences, training, and scientific meetings; participated in workshops.

**II. SUMMARY OF WORK COMPLETED ON JOBS IDENTIFIED IN ANNUAL PLAN THIS PERIOD**

JOB/ACTIVITY 1A : Provide GIS products, consulting and technical support.

- Advised staff on design and export of final graphics, maps, posters, and reviewed other presentation-quality materials.
- Produced maps and graphics for various Board of Game staff presentations.
- Assisted Region II staff with GIS/GPS software upgrades, installation of various extensions and related products, and support with connectivity to the statewide ArcGIS server.
- Provided area offices and staff with troubleshooting and technical assistance for formatting and standardizing wildlife and other spatial data into GIS-ready formats (including projection and coordinate-system issues).

JOB/ACTIVITY 1B : Maintain and investigate new GIS operations and technologies, database applications, spatial data analysis, mapping tools, and cartographic products for research and management applications.

- Continued support for the management and maintenance of extensive wildlife conservation telemetry datasets and relational databases on the ADFG database server.
- Assisted research biologists with the use of various GIS and database analysis tools to perform tasks such as summarizing data, developing home ranges, running data queries, and conducting temporal analyses.
- Coordinated access to GIS data for Wildlife Conservation users, including connections to the ADFG GIS server, outside statewide internet map servers, and data from other agencies and sources.
- Acquired hardware/software to begin testing new mobile mapping applications using ArcGIS Collector for potential field use.

JOB/ACTIVITY 2A : Attend conferences, training, and scientific meetings; participate in workshops.

- Due to the travel ban during this fiscal year, opportunities to attend conferences, meetings, and workshops was severely limited.
- Completed online video tutorials at Lynda.com relating to database management and the use of programming languages.

#### **IV. SIGNIFICANT DEVIATIONS AND/OR ADDITIONAL FEDERAL AID-FUNDED WORK NOT DESCRIBED ABOVE THAT WAS ACCOMPLISHED ON THIS PROJECT DURING THIS SEGMENT PERIOD**

#### **V. PUBLICATIONS**

**Prepared by:** Oriana Badajos

**Date:** 08/24/2017