

Wildlife Restoration OPERATING GRANT FINAL PERFORMANCE REPORT

ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF WILDLIFE CONSERVATION
PO Box 115526
Juneau, AK 99811-5526

Alaska Department of Fish and Game Wildlife Restoration Grant

GRANT NUMBER: AKW-23

PROJECT NUMBER: P27.0

PROJECT TITLE: Region 2 GIS Support

PERIOD OF PERFORMANCE: July 1, 2017 – June 30, 2018

REPORT DUE DATE: Submit to Coordinator August 24, 2018; due to FAC Sept 1, 2018

PRINCIPAL INVESTIGATOR: Oriana Badajos

COOPERATORS:

Authorities: 2 CFR 200.328
2 CFR 200.301
50 CFR 80.90

I. PROGRESS ON PROJECT OBJECTIVES DURING PERFORMANCE YEAR

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

ACCOMPLISHMENTS:

- Continued support for the management and maintenance of extensive wildlife conservation telemetry datasets and relational databases on the ADFG database server. Consulted with an ADFG Analyst/Programmer to create new databases.
- 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.
- 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).
- Completed a Geocomputing course from University of Wisconsin Madison to learn the basics of python scripting.

II. SUMMARY OF WORK COMPLETED ON PROJECT TO DATE.

This project provides ongoing GIS support and database management to Region 2 wildlife projects.

III. SIGNIFICANT DEVELOPMENT REPORTS AND/OR AMENDMENTS.

None

IV. PUBLICATIONS

D.P. Thompson, J.A. Crouse, T.A. McDonough, O.H. Badajos, J. Adsem, and P.S. Barboza
2018. Vaginal Implant Transmitters for Continuous Body Temperature Measurement in
Moose. *Wildlife Society Bulletin* 42:2, 321-327.

V. RECOMMENDATIONS FOR THIS PROJECT

Project will continue 5 more years.

Prepared by: Oriana Badajos

Date: 8/2/2018