

Project Summary Report

Prepared by
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Klamath Network Inventory and Monitoring Program
February 1, 2009

PROJECT TITLE: Klamath Network Inventory and Monitoring Program

TASK AGREEMENT/CONTRACT NO.:
J9W88040003

COOPERATIVE AGREEMENT NO.:
CA9088A0008

EFFECTIVE DATES:
01/15/2004 to 01/14/2009

COOPERATOR: Southern Oregon University

PRINCIPAL INVESTIGATORS: Dr. Joseph Graf, Dean of Sciences, Southern Oregon University

PROJECT OVERVIEW

This task agreement has provided an important vehicle for fostering a cooperative relationship between Southern Oregon University (SOU) and the Klamath Network (KLMN). It provides Klamath Network staff with courtesy staff appointments at the university and permits the Network to use SOU offices and infrastructure, including laboratories, computer related services, equipment, supplies, telephone services, university libraries, and other materials or facilities on the same basis provided to other staff members. Funding in the agreement provides compensation to the university for on-campus services such as computer accounts and information technology support, telephones, parking, interlibrary loan costs, and student and administrative employment. It provides for library privileges and SOU email accounts for KLMN staff at no cost. The KLMN also facilitates research, educational, and employment contacts for SOU researchers and students in the Klamath Network parks, and provides students and faculty with consultation and guidance. KLMN staff will provide consultative services such as leading seminars, serving on graduate committees, and teaching guest lectures at no extra cost. The partners both agree to provide acknowledgement of the other partner in collaboratively published material developed through this project.

KEY ACCOMPLISHMENTS

There were many joint accomplishments that came from the funding and resources provided in this administrative agreement between SOU and the KLMN. Many opportunities were presented for KLMN participation on-campus and SOU student and staff involvement. The daily functioning of the Network greatly relied on the space provided, computer assistance, and staff privileges. Benefits to SOU include the continued funding and support of five other task agreements by the Klamath Network through SOU. Many of the key accomplishments are listed in detail in "Research Highlights" below.

- SOU hosted four Board of Directors' Meetings on Campus in the Meeting Facilities of Stevenson Hall.
- The Klamath Network held a GPS training class for Network staff at SOU.
- The GIS Specialist taught a 5-credit GIS course to undergraduate and graduate students at SOU.
- Working collaboratively with Dr. Dennis Odion of SOU, the Klamath Network submitted two new vegetation mapping proposals in fall 2006, one for Crater Lake National Park, Lava Beds National Monument, and Oregon Caves National Monument and a second for Redwood National and State Parks. These proposals were funded and the Network

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prepared or assisted in development of task agreement and contracts with Southern Oregon University and Geographic Resources Solutions for completion of the work.

- A draft protocol was prepared and a pilot study implemented for the early detection of invasive species. This protocol and resulting pilot study (at Redwood National and State Parks) was developed by Klamath Network personnel, Dr. Dennis Odion and Chris Zanger of SOU, and Dr. Ayzik Solomeshch of University of California-Davis.
- Dr. Jessup and Sean Smith of SOU continued work on the Lava Beds Flora through 2007. Sean Smith began preparing the draft flora in winter and refined it with supplemental fieldwork while employed as a park botanist at Lava Beds National Monument in summer 2007. This summer position in the park delayed completion of the project, but allowed Sean to spend another summer in the park, which will undoubtedly strengthen and refine the final inventory results.
- Dr. Michael Parker of SOU completed analyses of macroinvertebrate data for Lassen Volcanic National Parks lakes with and without fish and presented a scientific paper summarizing findings at the Societas Internationale Limnologie (SIL) meeting in Montreal. Generally, fish were noted to cause a major shift in macroinvertebrate composition when present, with numbers of large macroinvertebrate and zooplankton species being depressed when compared to fishless lakes. Most notable and encouraging, however, was the finding that nonindigenous fish populations have died out in most lakes of the park and aquatic communities appear to be recovering from past impacts. The final report:
 - Parker, M. S., H. H. Welsh, and D. Sarr. In press. Distribution of introduced fishes and their effects on high elevation lake communities in Lassen Volcanic National Park, CA, USA.
- With assistance by Drs. Greg Jones and Dennis Odion of SOU, the Klamath Network submitted two new vegetation mapping proposals in fall 2006: one for Crater Lake, Lava Beds, and Oregon Caves and a second for Redwood. Drs. Greg Jones and Dennis Odion will complete the Crater Lake, Lava Beds, and Oregon Caves project.
- Mitch Daniel, an SOU graduate student, was selected in fall 2006 to develop interpretive materials about the threats and management challenges posed by non-native species in the Klamath Network parks. Through this project, the Klamath Network hosted the first ever National Park Day at ScienceWorks Museum in Ashland, OR in April 2007. The event convened interpretive and science staff from the Klamath Network parks, regional NPS staff, Mitch Daniel from SOU, ScienceWorks, and members of the public.
- Working collaboratively through a technical writing agreement with SOU, the Klamath Network finalized and published their Phase III monitoring plan.
 - Sarr, D. A., D. C. Odion, S. R. Mohren, E. E. Perry, R. L. Hoffman, L. K. Bridy, and A. A. Merton. 2007. Klamath Network Vital Signs Monitoring Plan. Natural Resource Report NPS/KLMN/NRR--2007/016. National Park Service, Fort Collins, CO.
- Working with the SOU IT Services, the KLMN maintained eight full work stations on the SOU computer network.
- The Klamath Network continued to be housed on the SOU campus in Central Hall. Funding from this agreement provided administrative services in this office, as well as the rental of a storage space in Ashland for field equipment.