

RM-CESU PROJECT COMPLETION REPORT

Cooperative Agreement H1200090004

Task Agreement FBMS# P10AC00068

Project number MSU-221

Project Title: National Park Service Vital Signs Inventory and Monitoring: technical and operational support to the Greater Yellowstone Network parks

Park/Unit: Greater Yellowstone I&M Network

Funding Sources: Greater Yellowstone Network, Inventory and Monitoring Program, \$89,962

Dates: 7/1/2010 - 9/30/2013

NPS ATR:

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Project Description:

This project with Big Sky Institute provided a wide range of technical and administrative support to assist the Greater Yellowstone Network on designing and implementing scientifically robust and credible monitoring protocols.

Students participating in this project:

One undergraduate student – Chris Olsen: 2013 degree in GIS and Urban Planning from Montana State University.

One Masters student – Cynthia Hollimon: 2013 Masters of Science in mathematics and statistics from Montana State University.

Project Results:

Bingham, B., M. Britten, L. Garrett, P. Latham, and K. Legg. 2010. Enhanced monitoring to better address rapid climate change in high-elevation parks: a multi-network strategy.

Natural Resource Report NPS/IMR/NRR—2011/285. National Park Service, Fort Collins, Colorado.

https://irma.nps.gov/App/Reference/DownloadDigitalFile?code=423640&file=NPS_HighElevParks_ClimateMonitoring_Strategy_NRR_2011_285

Gould and others. 2012. Estimating Occupancy in large landscapes: evaluating Amphibian Monitoring in the Greater Yellowstone Ecosystem. Wetlands DOI: 10.1007/s13157-012-0273-0.

https://irma.nps.gov/App/Reference/DownloadDigitalFile?code=464377&file=Gould_et_al_2012_Wetlands_Estimating_Occupancy_in_Large_Landscapes_Evaluation_of_Amphibian_Monitoring_in_the_GYE_2193195.pdf.

Irvine, K.M., C. H. Hollimon, E. Shanahan, and K. Legg. [date pending]. Conservation implications for synergistic effects of an introduced pathogen and native bark beetle on Whitebark pine. In peer review.

Jean, C., M.T. Tercek, R. Daley, and C.W. Olsen. 2012. Greater Yellowstone Network: 2011 climate data summary report. Natural Resource Data Series NPS/GRYN/NRDS—2012/409. National Park Service, Fort Collins, Colorado.

https://irma.nps.gov/App/Reference/DownloadDigitalFile?code=460244&file=NPS_Climate_2011_GRYN_NRDS_nrds.pdf.

Tercek, M., C. Jean, R. Daley, and K. Legg. 2013. Greater Yellowstone Network upland vegetation monitoring protocol: Narrative, version 1.0. Natural Resource Report NPS/GRYN/NRR—2013/623. National Park Service, Fort Collins, Colorado.

https://irma.nps.gov/App/Reference/DownloadDigitalFile?code=464291&file=NPS_GRYN_NRR_2013_623_BICA_UplandVegetationMonitoringProtocolNarrativeVersion1_0.pdf.

Various authors: 2011. The Great Northern Landscape Conservation Cooperative. Web Brochure dated April 2011.

http://greatnorthernlcc.org/sites/default/files/documents/GNLCC_Brochure_Web.pdf