



WATER RESOURCES RESEARCH GRANT PROPOSAL

Project ID: 2003ND21B

Title: Hydrological Modeling of the Spatial and Temporal Variation of Prairie Potholes at the Basin Level

Project Type: Research

Focus Categories: Wetlands, Surface Water

Keywords: Hydrologic Modeling, Prairie Potholes, Wetlands, Climatic Response

Start Date: 05/15/2003

End Date: 08/15/2003

Federal Funds: \$4200.00

Matching Funds: \$8400.00

Congressional District: N/A

Principal Investigators: Gerla, Phil; McCarthy, Gregory

Abstract: This Fellowship research proposal forms part of a larger research project funded through NSF's Biocomplexity seed grant to UND's Department of Biology. As part of their work with host-parasite / pathogen interactions on a spatially heterogeneous and temporally dynamic landscape, our portion focuses on the hydrological modeling of grassland-wetland linkages in natural and human-dominated landscapes. Dr. Brad Rundquist and graduate student Paul Sethre of UND's Department of Geography are quantifying the dynamics of wetland and open water extent using historical remote sensing imagery. Their results will complement our research component, which will provide a conceptual framework and model that describes the spatial and temporal variation of hydrologic features at Newman's amphibian study site in eastern Nelson County, North Dakota.

[U.S. Department of the Interior](#), [U.S. Geological Survey](#)

Maintain: Schefter@usgs.gov

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