

Release date: May 13, 2011

Friends of the Clackamas River Announcement

Request for Proposals

Projected Climate Change Impacts on the Hydrology of the Clackamas River Basin

Friends of the Clackamas River (FCR) is pleased to announce a Request for Proposals (RFP) for an expert review of established climate change projections and a report of anticipated consequent changes in the hydrologic regimes and water quality parameters in Clackamas River Basin over a 100 year period. This report, once completed, will be provided free of charge to community organizations, public interest groups, utilities, and other stakeholders in the Clackamas River Basin.

FCR seeks proposals that make use of existing climate change models¹ to provide analysis related to the potential impacts of climate change on the following variables:

- Water availability
- Water demand created by climate change
- Water demand due to anticipated growth
- Water quality and streamflow impacts on anadromous species habitat

Following the submission of the final report, the contractor will assist FCR in the coordination of a workshop, open to all interested parties, at which the contractor will present findings and facilitate a discussion of the implications of those findings.

DEADLINE NOTICE:

**Electronic versions (no facsimiles) of proposals must be RECEIVED by Friends of the Clackamas River by July 31, 2011
LATE OR INCOMPLETE PROPOSALS WILL NOT BE CONSIDERED.**

The successful applicant will be notified by **September 30, 2011**.

¹ A successful proposal will express familiarity with prevailing Atmospheric General Circulation Models (AGCM), the Distributed Hydrology, Soil-Vegetation Model (DHSVM), and recent trends in their application.

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I. Background

The Clackamas River headwaters are in the Mt. Hood National Forest and it joins the Willamette River between Oregon City and Gladstone, Oregon. In between, it flows through a combination of public and private land, multiple municipalities, farms, forests, and rangeland. The Clackamas provides drinking water to over 200,000 people, and, along with some of its larger tributaries, is dammed in seven locations, five of which directly generate hydroelectric power. Fifty miles of the Clackamas are protected under the federal Wild and Scenic designation, and the Clackamas is well-known for its diverse recreational uses, including fishing, hiking, rafting, kayaking, and bird watching. The Clackamas and its tributaries also provide habitat for anadromous coho and chinook salmon and steelhead.

On account of the regional importance of the Clackamas Basin, along with the lack of any climate change impact study, FCR considers it of vital importance to pursue such a study in order to anticipate the impacts of climate change on the hydrology, water quality, and resiliency of the Clackamas watershed. Historic studies have reported compromised water quality in the Clackamas, such as the presence of Anabaena blue-green algae, pesticides, and disinfectant by-products. A successful proposal should take these historic water quality concerns into consideration, and the subsequent report should highlight how climate change will impact them over the range of forecast.

II. Specific Analysis and Report Tasks

FCR expects the following tasks to be accomplished within the scope of the analysis:

1. Select and utilize existing Atmospheric General Circulation Models (AGCM) and the Distributed Hydrology, Soil-Vegetation Model (DHSVM) to produce projections of climate change impacts on the Clackamas Basin for a 100 year period.
2. Prepare an analysis of how the Clackamas Basin hydrology and water quality are likely to change in the projection period and the resulting impacts on municipal water supply (water availability), water demand created by climate change, water demand due to anticipated growth, and water quality and streamflow impacts on anadromous species habitat.
3. Work with FCR to conduct a workshop to describe the findings of the report and facilitate a discussion on the implications of those impacts (in person).

III. Additional Requirements

- Once a proposal is selected, a workplan will be drafted and approved by the Board of Directors of FCR and the contractor.
- The contractor will be required to prepare brief reports during the project period documenting progress, to be issued to the President of the Board of Directors of FCR. A final report fully documenting the project's results will be required at project completion.

IV. Eligibility

Eligible organizations include colleges, universities, nonprofit organizations, and government agencies. The selected contractor will be responsible for the completion of all project tasks, though subcontracted work may be permitted by the FCR Board of Directors upon request.

V. Proposal Evaluation and Selection Criteria

Proposals will be judged by the FCR Board of Directors according to how well they address the following points:

1. Demonstrated knowledge of existing Atmospheric General Circulation Models pertaining to the Pacific Northwest, other climate change models, and their relevance as applied toward the Clackamas River Basin.
2. Demonstrated knowledge of existing meteorological and hydrological data currently available for the Clackamas River Basin.
3. Clarity, conciseness and adherence to the proposal guidelines.
4. Demonstrated ability to create documents and products that are accessible to and can be used by community organizations, public interest groups, utilities, non-profit partners, municipalities, and other stakeholders of the Clackamas River Basin.

VI. Available Funds and Match Requirements

A total of \$14,000 is available for this project. Match is not required.

VII. Period of Performance

Work is to be completed within twelve (12) months of the execution of a contract agreement.

IX. Contact Information

Direct all proposals and other inquiries to:

Ryan Johnson
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