Newly Awarded Challenge: Develop a Canadian Coastal Zone Information System

ASL Environmental Sciences

Westcoast Oceanography Inc. (operating as ASL Environmental Sciences Inc.) is pleased to announce that it was recently awarded a research and development contract ($167,989.91) through the Innovative Solutions Canada (ISC) program to develop a proof of feasibility for Public Services and Procurement Canada, in response to the Canadian Coastal Zone Information System (CCZIS) challenge. ASL has partnered with Trailmark Systems Inc. of Victoria, B.C. to develop a proof of feasibility that will showcase a robust, interoperable, and user-friendly web-based geographic information system. Our two companies will collaborate to develop a detailed report, outlining how a functional prototype would address the goals outlined in the ISC challenge.

CCZIS will include data manipulation, extraction, and analytical tools to support climate change coastal risk assessment through an intuitive website. CCZIS will also integrate many datasets and model outputs, including marine winds, tides and water levels, storm surges, nearshore wave climate parameters, water levels, and sea ice. CCZIS will support convenient access to historical and future statistical climate information to support several end-user groups, ranging from civil engineers to small harbour operators. High resolution, multibeam bathymetry will be featured along with information on existing coastal structures, infrastructure, and shoreline geology. Other key functions will include the ability to extract, calculate, interpret, and visualize data, as well as incorporate new datasets, plans, reports, and drawings as they become available to ensure that the system remains up to date. It is anticipated that the integration of this ensemble of interdisciplinary coastal datasets will provide a powerful decision support tool that will support effective planning and designs for future operations in our changing coastal zones in Canada.

View of Port Sidney Breakwater from Sidney Pier, Sidney, BC (photo credit Matthew Asplin)

For additional information, please visit www.aslenv.com

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