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presents

Recent developments for an operational Canadian global assimilation and prediction capability for the coupled atmosphere-ocean-ice system

by

Harold Ritchie

Environment Canada, Dartmouth, Nova Scotia,
F. Davidson, J. Loder, Y. Lu, P. Pellerin, W. Renaud,
M. Taillefer, K. Thompson, and D. Wright

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Abstract

Environment Canada (EC), Fisheries and Oceans Canada (DFO), and the Department of National Defence (DND) are beginning to implement an operational global coupled atmosphere-ocean-ice data assimilation and prediction system that is capable of ingesting in-situ Argo float data and satellite observations such as sea surface height and temperature. With the participation of Mercator-Ocean (France), the initial resources of this new inter-agency initiative, called the Canadian Operational Network of Coupled Environmental Prediction Systems (CONCEPTS), have been directed towards three inter-related activities: 1) an operational coupling of the Canadian atmospheric GEM model with the Mercator system, 2) a research and development (R&D) activity consisting of government and academic research networks to develop and maintain a system tailored to Canadian needs in the longer term, and 3) a products activity to identify, develop and disseminate relevant products and outputs. Operational activities are being built upon existing EC infrastructure, with R&D activities being enhanced through a Global Ocean-Atmosphere Prediction and Predictability (GOAPP) research network funded by the Canadian Foundation for Climate and Atmospheric Sciences. This talk will provide an overview of CONCEPTS and GOAPP, and will summarize results to date and plans for the future.

Contacts

Rick Danielson, Dalhousie University: rick@phys.ocean.dal.ca (494-3371)

Yuri Geshelin, BIO: gesheliny@mar.dfo-mpo.gc.ca