



Advances in coastal ice-ocean operational forecasting in Canada

High resolution coastal ice-ocean prediction systems were developed at Environment and Climate Change Canada over the last few years. The objective is to enhance the Government of Canada capacity to respond to environmental emergencies in the aquatic environment for both our East and West coasts. This presentation highlights the recent developments in high-resolution forecasting over the coastal areas with a focus on the Northwest Atlantic and the Gulf of St. Lawrence. Overview of the system evaluation, recent improvements with respect to local changes in ocean colour, representation of extreme events and the impact of coupling of an atmospheric model with the ice-ocean prediction systems will be presented.

1Recherche en prévision numérique de l'environnement marin, Environnement et Changement Climatique Canada, Dorval, Canada 2Service météorologique du Canada, Environnement et Changement Climatique Canada, Dorval, Canada