

New course offering for Spring-2008

OEAS-895 (CRN 30105) Special Topics: **Introduction to Ocean Modeling and Prediction**

Instructor: Tal Ezer (tezer@odu.edu)

Place: Innovation Research Park 1, Room 3202

Time: M/W 9:30am-10:45am

Requirements: basic Physical Oceanography knowledge (OEAS 604 or 405/505); computer programming skills not required.

Course Outline:

The course will provide a broad background on numerical models used to study and predict the physical properties of the ocean, from coastal currents to large-scale climate prediction. Applications of various computer models will be discussed, so that students can understand how different models work and how the choices of model grids, parameters and numerical schemes may result in different outcomes (e.g., see the figure on the right). Concepts and methods in data assimilation will also be discussed, to show how oceanic data (e.g., remote sensing) and models are combined and used in ocean or weather forecast systems.

