



Chesapeake Bay Ecosystem Modeling

- **Objective:** Develop and implement a fully integrated, ecological model of the Chesapeake Bay and its watershed that assimilates *in-situ* and satellite-derived data by adapting and connecting existing models
- **Purpose:**
 - Near-Real Time Applications: Nowcasting and forecasting of marine organisms, ocean health, and coastal conditions
 - Climate Research: Estimating effect of climate change on the health of coastal marine ecosystems
- **Partners:** NOAA, CICS, ESSIC and other UM and UMCES* departments



SeaWiFS true-color image of Mid-Atlantic Region
from April 12, 1998.

Image provided by the SeaWiFS Project, NASA/Goddard Space Flight Center and ORBIMAGE