

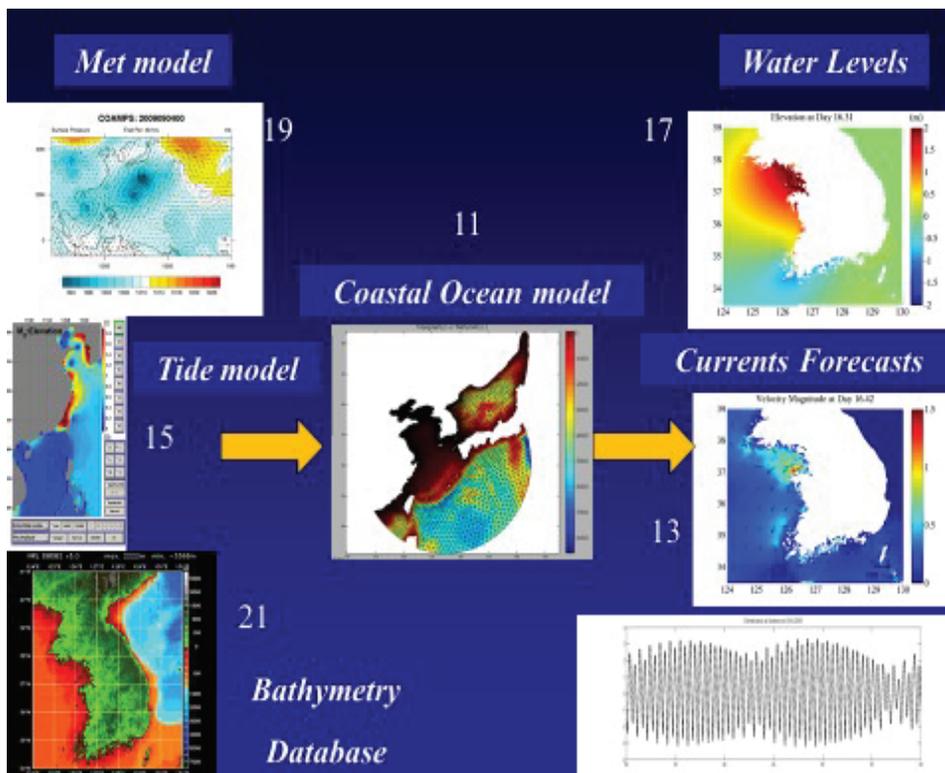


NAVAL RESEARCH LABORATORY

The Corporate Laboratory for the Navy and Marine Corps

Coastal Ocean Prediction Software

The Naval Research Laboratory (NRL) has developed an automated coastal ocean prediction software system that is capable making of high-resolution water levels and currents predictions in coastal areas. The system has been tested and validated in various geographic regions and can be configured rapidly and run on either single processor or multi-processor parallel computers.



Advantages/Features

- System can generate high-resolution water levels and current forecasts
- Fully automated and well tested scripts allow minimal intervention
- Programs can run on single or multi-processor hardware
- User friendly graphical map products

Application Areas

- Commercial and recreational fishing and boating
- Oil/gas and cruise industry
- Navigation safety and ship routing
- Resource management and environmental protection
- Facility and structure planning
- Search and rescue operations
- Disaster relief and decision making

Inventors

Yifei Philip Chu, Cheryl Ann Blain and Robert Linzell

References

1. "Development of a Relocatable Operational Coastal Forecasting System – Korean Coast Application – Int. Workshop on Operational Systems, October, 2009.
2. "Development of a Relocatable Coastal Forecast System for the US Navy" – Oceans'09 MTS/IEEE conference proceedings, October 2009.

Licensing and Collaboration Opportunities

US Patent No. 8,768,663 is available for License to companies with commercial interest. Collaborative research and development is available under a Cooperative Research and Development Agreement (CRADA).