

Ocean science and information technology group



Overview

For more than 30 years, Perspecta has provided comprehensive technical and specialized support to the U.S. Naval Research Laboratory (NRL), the Naval Meteorology and Oceanography Command (NMOC) and subordinate commands, and the Office of Naval Research (ONR). This includes designing command and control (C2) systems for autonomous vehicles as well as contributing advancements to next-generation ocean modeling systems used by the Navy and other national agencies that improve environmental prediction capabilities, help further our understanding of the environmental effects of battle spaces, and aid in humanitarian and disaster recovery (HADR) operations. Perspecta provides a breadth of subject matter experts and enterprise solutions to our customers—from specialists in ocean sciences, remote sensing, systems engineering and integration to software development and technical assistance. Perspecta develops, designs, builds, tests, and manages systems and solutions to meet the critical mission objectives of its customers.

Naval Research Laboratory support (NRL)

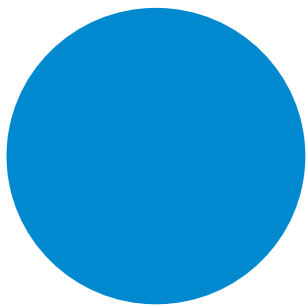
- Ocean model design, development and enhancement
- Satellite data applications
- Arctic ice modeling
- Acoustic models and databases
- Tactical decision aids
- Web-enabled/Geographic information system (GIS) software
- Man-machine human interface initiative (eye tracking)
- Mine warfare bottom mapping
- Transition of research and development to operational applications

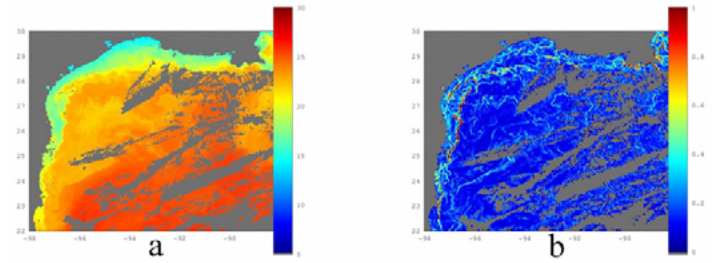
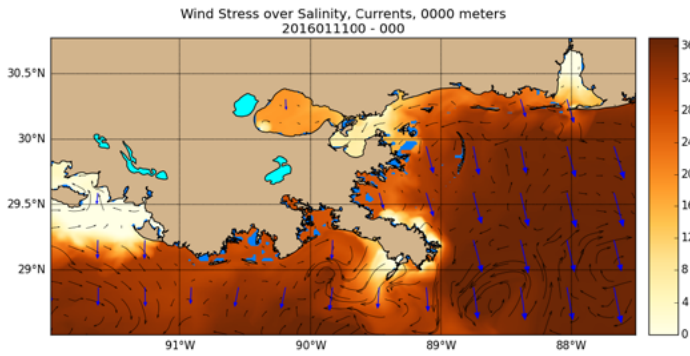
Naval Meteorology and Oceanography Command (NMOC)

- Ocean modeling (shallow water riverine, HYCOM, R-NCOM, wave)
- Systems architecture/engineering for the Naval Meteorology and Oceanography Command (METOC) enterprise
- Mine warfare application (contacts, optics, pilots)
- Anti-submarine warfare applications
- GIS applications and services
- Web services (Nacy METOC web portal)
- Remote sensing analysis/planning Support
- Data processing (NAVOCEANO) for satellite, glider, buoy
- Oceanographic data warehouse development

Office of Naval Research (ONR)

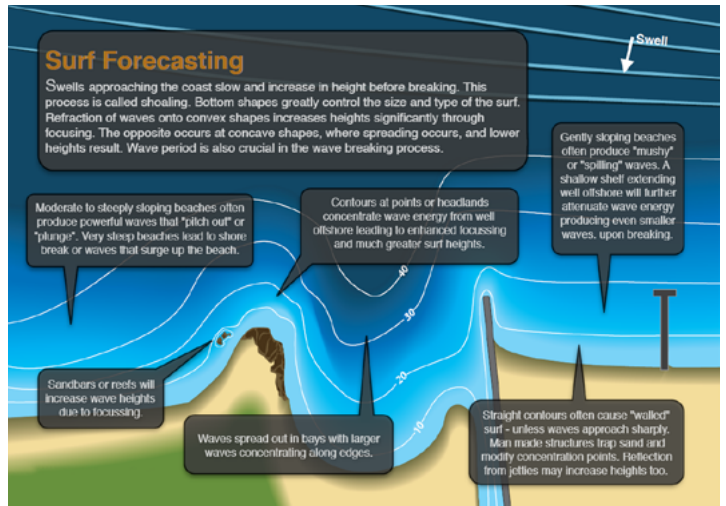
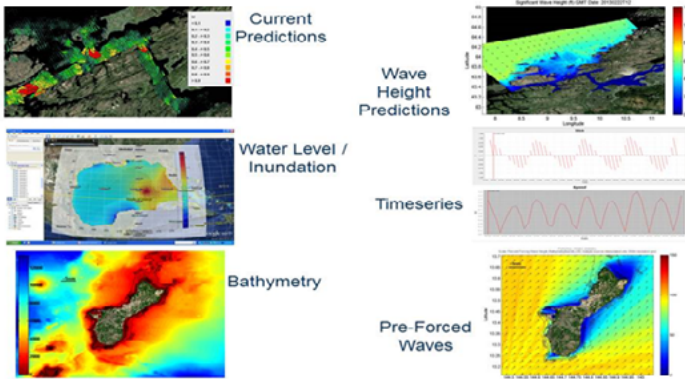
- Code 00/03 – Chief of Naval Research, corporate staff
- Code 30 – Expeditionary maneuver warfare and combating terrorism
- Code 32 – Ocean battlespace sensing
- Code 33 – Sea warfare and weapons
- Code 34 – Warfighter performance
- Code 35 – Naval air warfare and weapons
- Code 08 – Navy research development test and evaluation comptroller
- PMR 51 – Integrated air and missile defense
- Navy SBIR/STTR program office
- Strategic S&T portfolio selection, investments and budget planning
- Engineering and program support for high-value, disruptive technical investments such as EM railgun, free-electron laser and naval tactical cloud and the multitude of basic and applied research and demonstrations
- Operational and concept feasibility analysis for Marine Corps thrusts, theater air, ballistic and missile defense, and undersea weapons



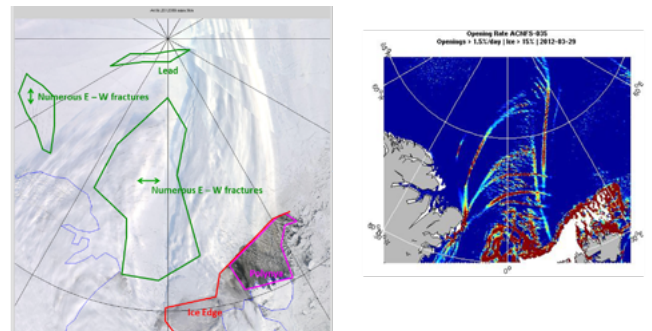


a) NAVOCEANO daytime SST Gulf of Mexico on January 16, 2016.
b) SST uniformity field indicates little cloud contamination strong fronts and low level of noise.

Products



Command and Control (C2) interface for Riverscout USV, an advanced unmanned boat that carries a pan/tilt/zoom camera gimbal for remote inspection, reconnaissance and surveillance along rivers and estuaries.



Left: MODIS imagery with fracture poly-lines in green and polynya in magenta. Right: ACNFS opening rate valid for same time period.