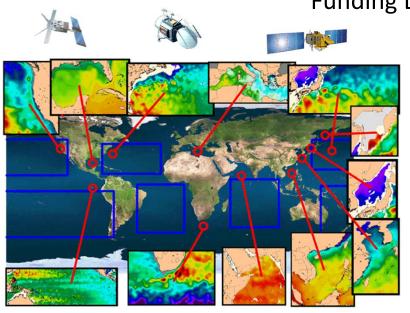
## Value-Aided of Altimetry Data to Undersea Warfare

PI: Peter C. Chu (pcchu@nps.edu), Sponsor: SPAWAR, 2002-2004

Funding Level: \$142,400

NPS Theses



## **Brief Description**

- To define Navy altimeter requirements as a minimum number of satellite altimeters necessary to ensure maximum weapon effectiveness
- To determine the point at which additional altimeter input no longer increases weapon effectiveness

## NP3 meses

Perry, M., "Value-added of satellite altimetry data for undersea acoustic preset", MS in Physical Oceanography, June 2003.

Mancini, S., "Sensitivity of satellite data assimilation on naval anti-submarine warfare weapon system" MS in METOC, June 2004.

Amezaga, G., "Impact of GFO satellite and ocean nowcast/forecast systems for Naval anti-submarine warfare (ASW)", MS in METOC, March 2006

## **Selected Publications**

Chu, P.C., G.R. Amezaga, E.L. Gottshall, and D. S. Cwalina, 2007: Ocean nowcast/forecast systems for improvement of Naval undersea capabilities. *Marine Technology Society Journal*, **41** (2), 23-30 (paper download).

Chu, P.C., S. Mancini, E. L. Gottshall, D. S. Cwalina, C. N. Barron, 2007: Sensitivity of satellite altimetry data assimilation on weapon acoustic preset using MODAS. *IEEE Journal of Oceanic Engineering*, **32**, 453-468 (paper download).

Chu, P.C., M. D. Perry, E.L. Gottshall, and D.S. Cwalina, 2004: Satellite data assimilation for improvement of Naval undersea capability. *Marine Technology Society Journal*, **38** (1), 11-23 (paper download).