



# Establishing an ONR 'Arctic & Global Prediction' Research Program

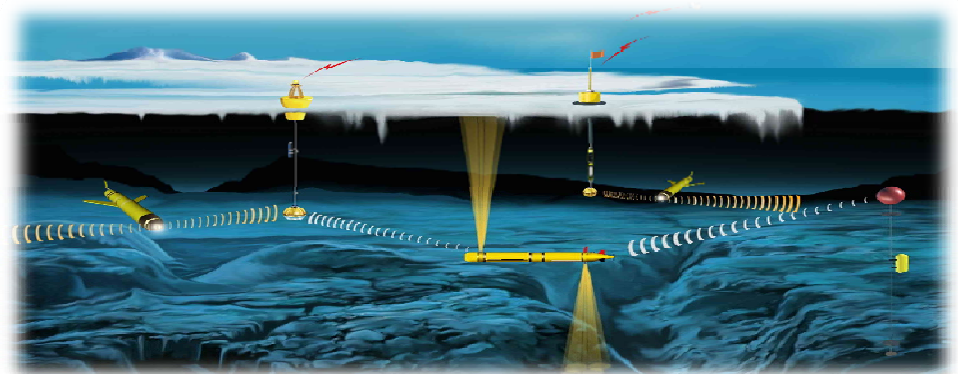
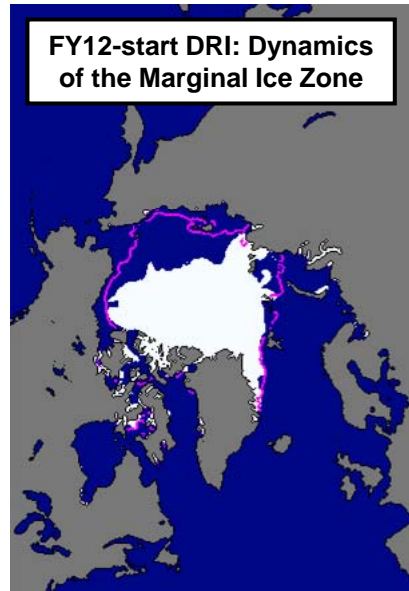
In response U.S. Navy Task Force Climate Change – Arctic Roadmap, an 'Arctic & Global Prediction' program has been created at the Office of Naval Research.

## Program Focus Areas:

- Improve basic understanding of the physical environment and processes in the Arctic region.
- Develop integrated (ocean-ice-wave-atmosphere) earth system models for improved prediction of the Arctic operational environment at longer lead times (10-30 years).
- Explore new technologies (platforms, sensors, communications) required for persistent observation and operation in the challenging Arctic environment.



FY12-start DRI: Dynamics of the Marginal Ice Zone



**FY11 Activities:** Begin fund realignment by supporting observations related to the SCICEX Program (SCience ICe EXercise) and 2011 ICEX Ice Camp.

- NRL-DC airborne measurements of sea ice thickness and topography.
- Testing new submarine-launched XCTD system.
- Enabling calibration of on-board biogeochemical sampling equipment.
- Processing ice draft information from sub-based Upward Looking Sonar (ULS) data.