



Pacific Marine Environmental Laboratory

A leader in developing ocean observational systems to address NOAA's mission

Significant Transitions, Patents, Licenses, and MOU's, 2004-2008

I. Transitions to Applications

- 323 peer-reviewed publications appeared during the period 2004-2007 (1417 peer-reviewed publications since 1973).
- Five PMEL scientists contributed to the 2007 IPCC Fourth Assessment.
- Significant Service to the Scientific Community through leadership and membership in International, National, and NOAA committees and leadership positions in Cooperative Institutes and affiliated Universities.
- Patent No. 7,289,907, awarded 10/30/2007 for a "System for Reporting High Resolution Ocean Pressures in Near Real-time for the Purpose of Tsunami Monitoring", Meinig et al, inventors.
 - Licensed to SAIC, 2007-present. (currently \$2.7M in sales)
- Patent No. 7,244,155, awarded 2/28/08 (amendment pending) for "A Mooring Line for an Oceanographic Buoy System", co-invented with staff of Cortland Cable Co. and Mr. Hugh Milburn.

II. Transitions to Operations

- Transition of TAO Array to NWS/NDBC (in process)
- Transition of Tsunami DART technology to NWS/NDBC
- Transition of the Japan-Kuroshio Extension Observatory (J-KEO) mooring from PMEL to the Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
- 28 tsunami models transitioned through FY07 to NWS for improvement of operational tsunami forecasts (ongoing)
- Development and implementation of tsunami forecast system at NWS Tsunami Forecast Centers

- Annual contribution to NMFS/North Pacific Fishery Management Council's Stock Assessment and Fishery Evaluation (SAFE) report

III. Transitions to Research

- Development of Easy-to-Deploy Mooring Technology
- Development of unmanned CO₂ measurement systems for deployment of moorings and vessels of opportunity.

IV. MOU's for Technology Transfer

- DART and DART-ETD MOU's executed with:
 - NWS/NDBC
 - Chile
 - Indonesia
 - Australia