

California's Marine Invasive Species Program

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California State Lands Commission

Pacific Ballast Water Group

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CA Marine Invasive Species Program

- 1999 Ballast Water Management for Control of Nonindigenous Species Act
- 2003 Marine Invasive Species Act
- Partner Agencies:



Marine Invasive Species Program Resources

- Funding
 - \$850 per vessel voyage fee for first arrival to CA
 - Fee supports Commission and partner agencies
- Commission staffing of MISP
 - Four program admin (manager, scientists)
 - Six data management/admin
 - Vessel Inspections
 - Two Marine Safety Specialists (N. and S. CA)
 - Coordinate vessel inspection process
 - 22 personnel cross-trained in marine invasive species management and oil transfer activities

2013 Biennial Report

2013 BIENNIAL REPORT ON THE
CALIFORNIA MARINE INVASIVE
SPECIES PROGRAM

PRODUCED FOR THE
CALIFORNIA STATE LEGISLATURE

By
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California State Lands Commission
Marine Facilities Division
February 2013

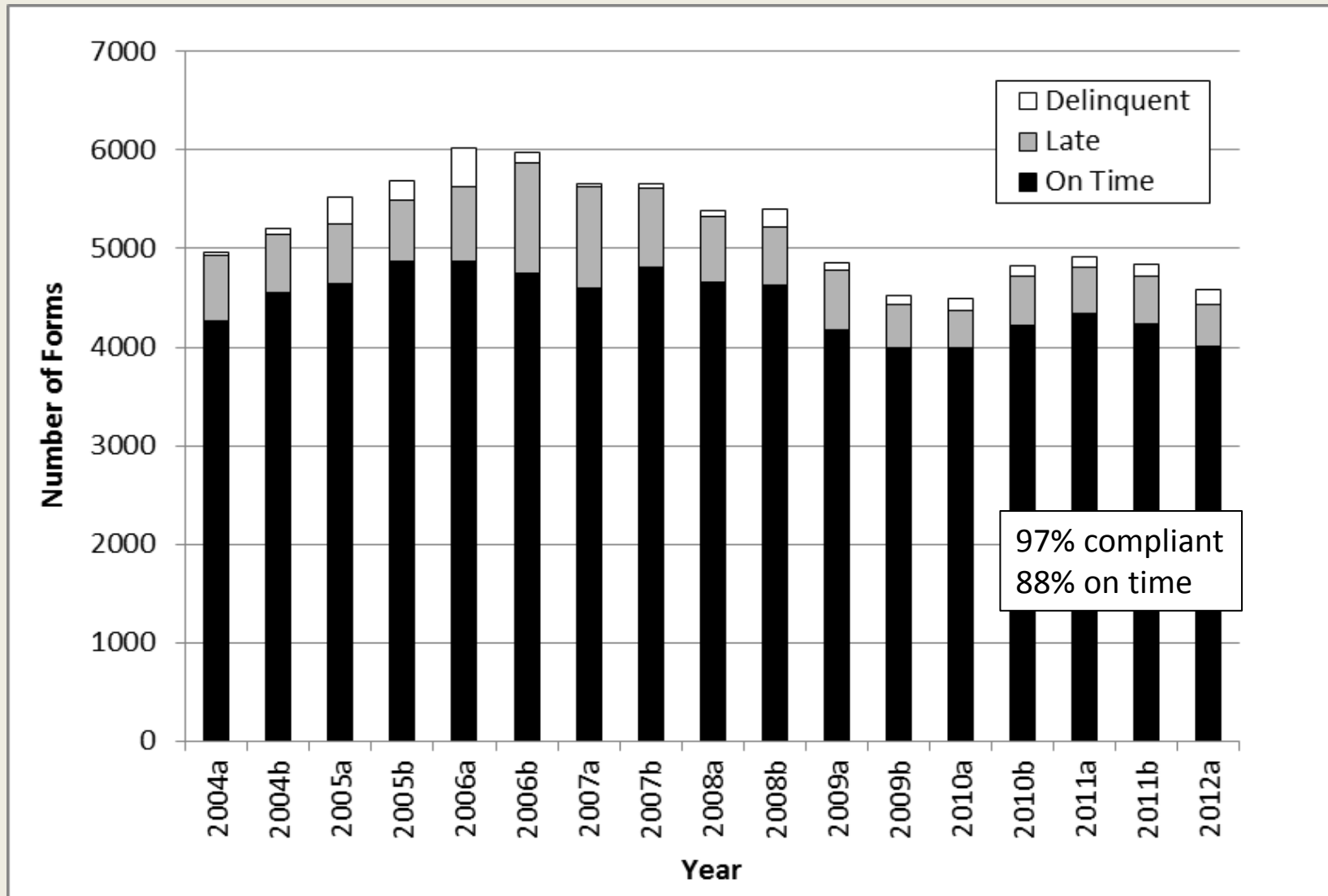
- Regulatory overview: state, federal, international
- MISP activities
- Ballast water and biofouling management data analysis
- Funded and collaborative research
- Review of scientific literature
- Looking forward

BALLAST WATER MANAGEMENT

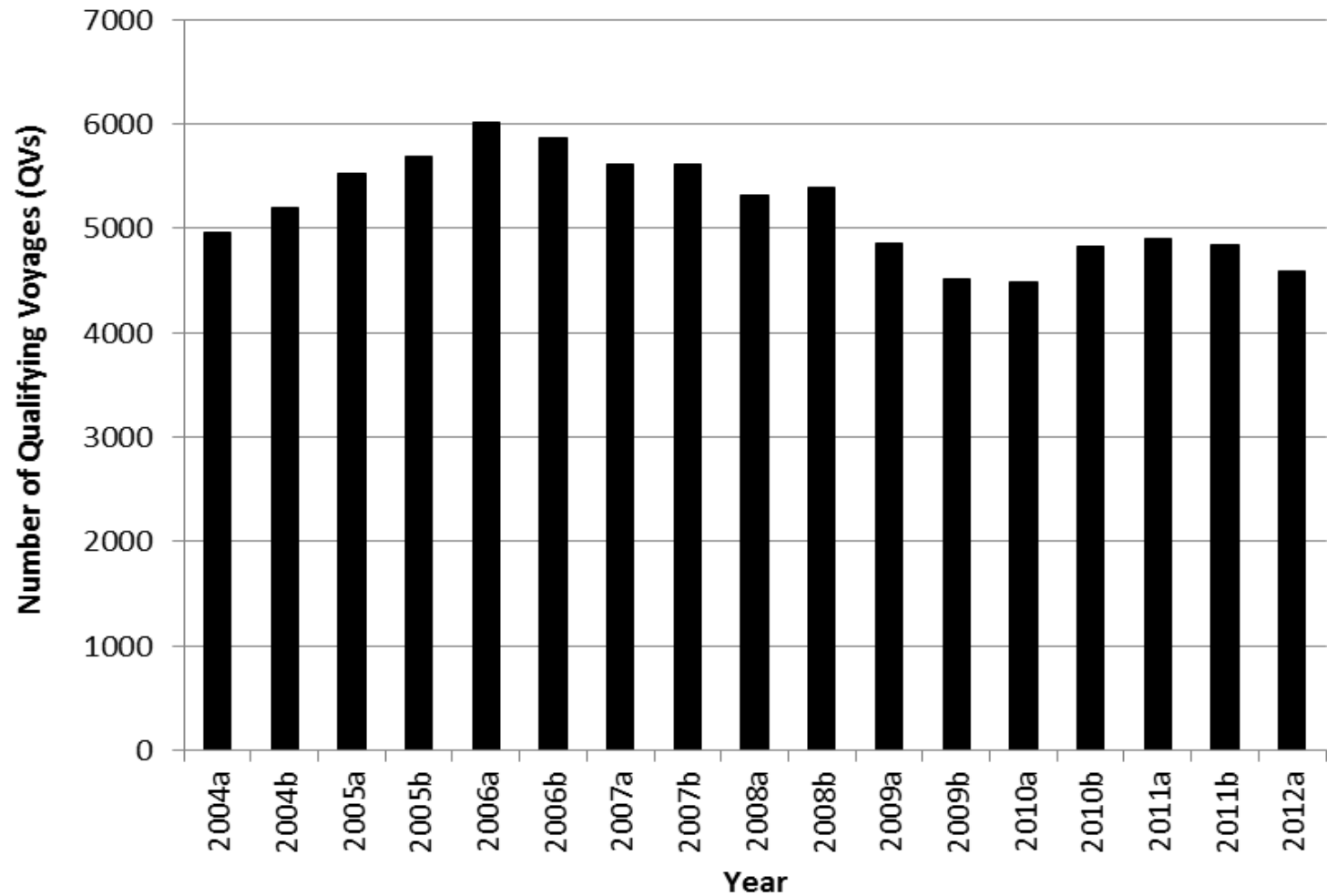


Photo courtesy of Smithsonian Environmental Research Center

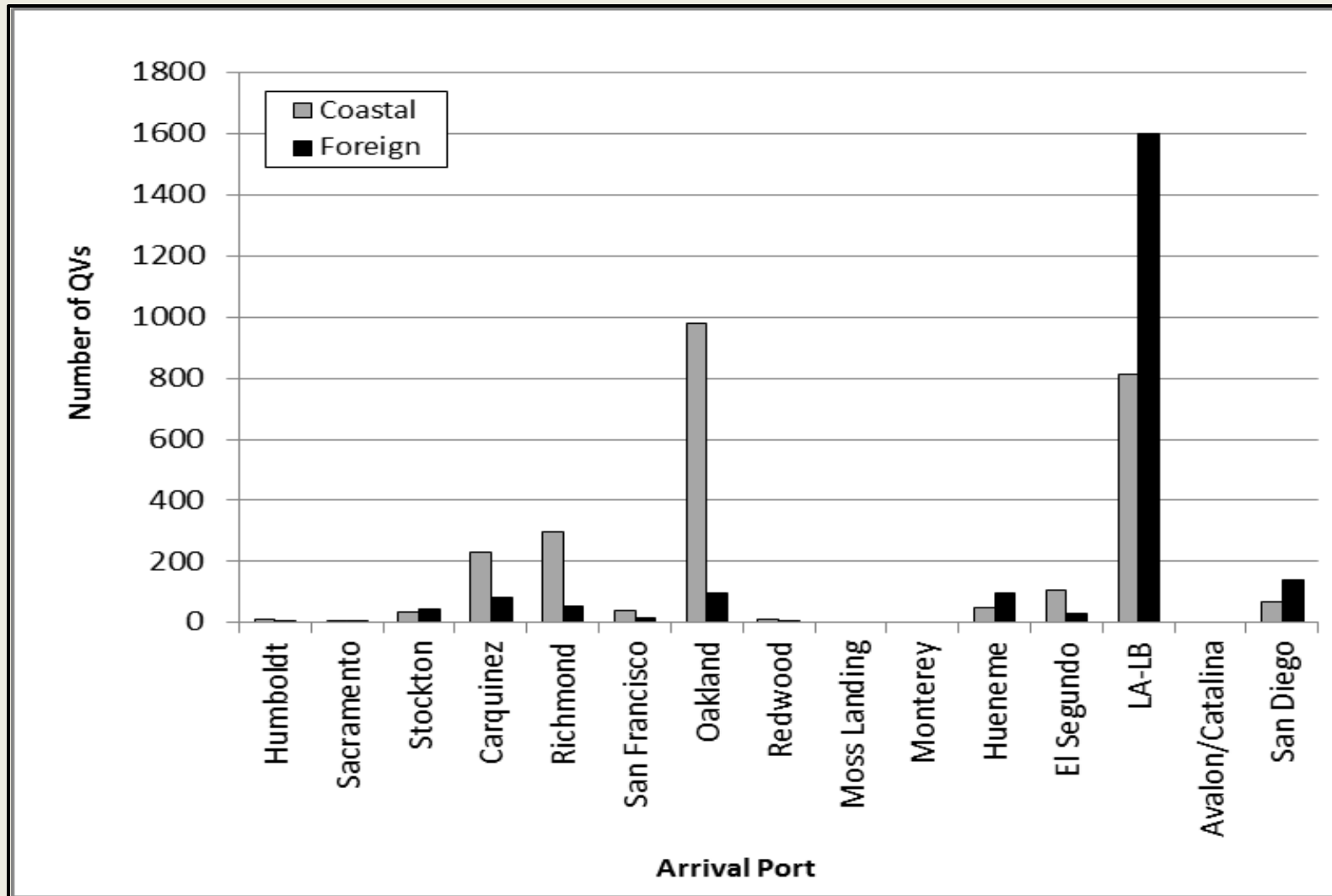
BW Reporting Form Compliance



Qualifying Arrivals

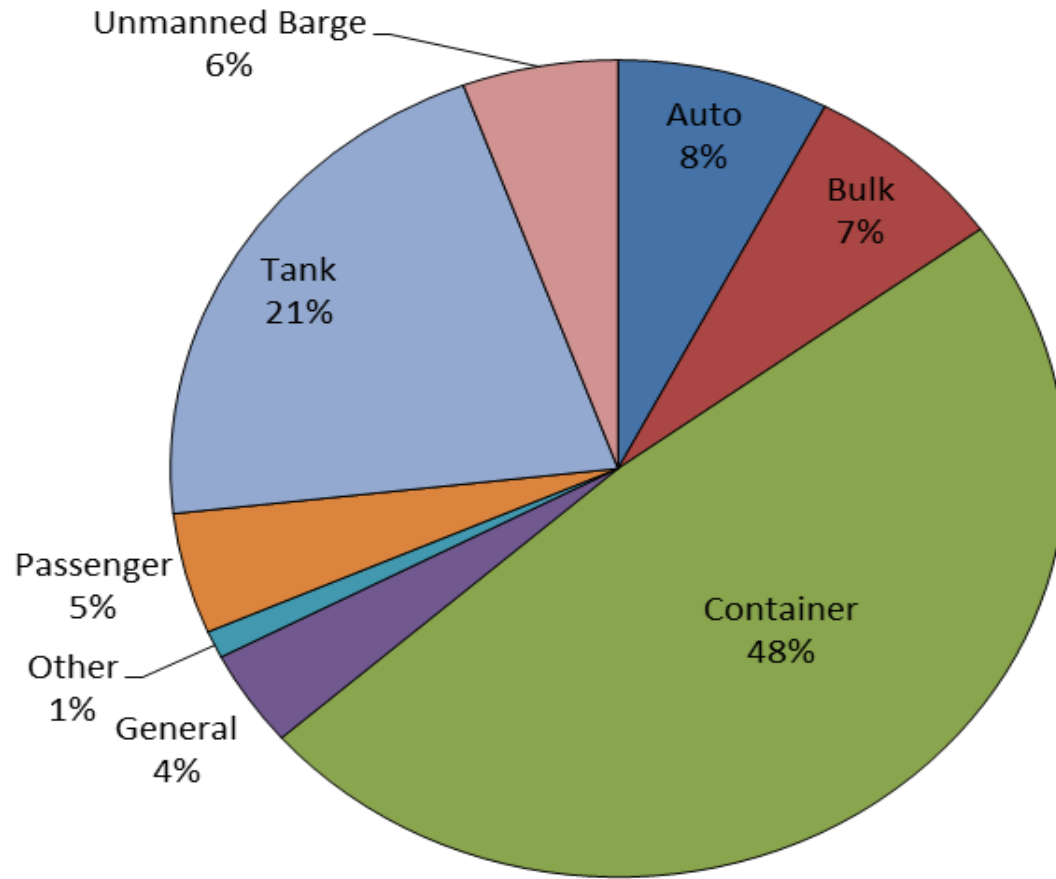


Arrivals by Port

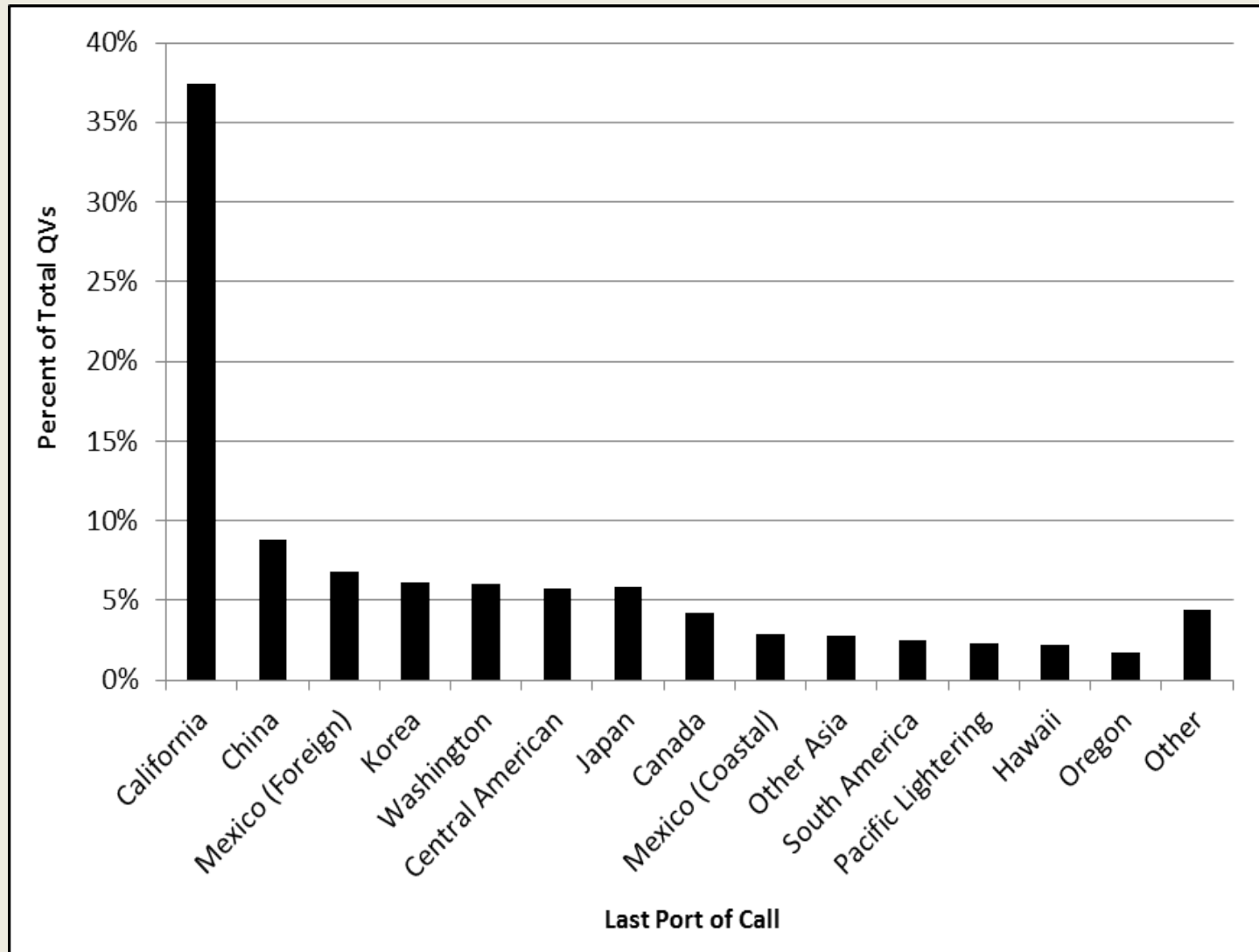


Jan – Jun 2011

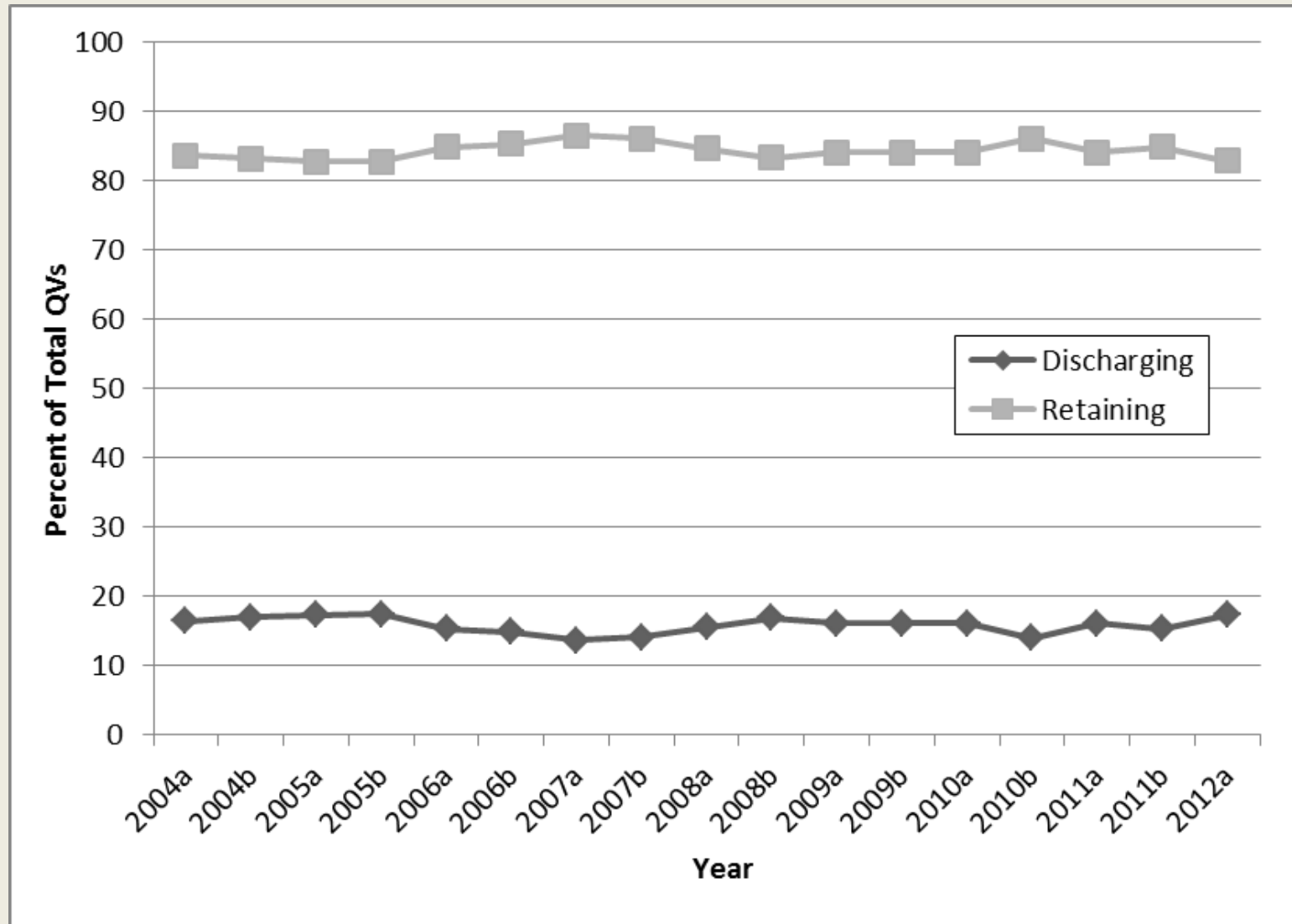
Arrivals by Vessel Type



Last Port of Call



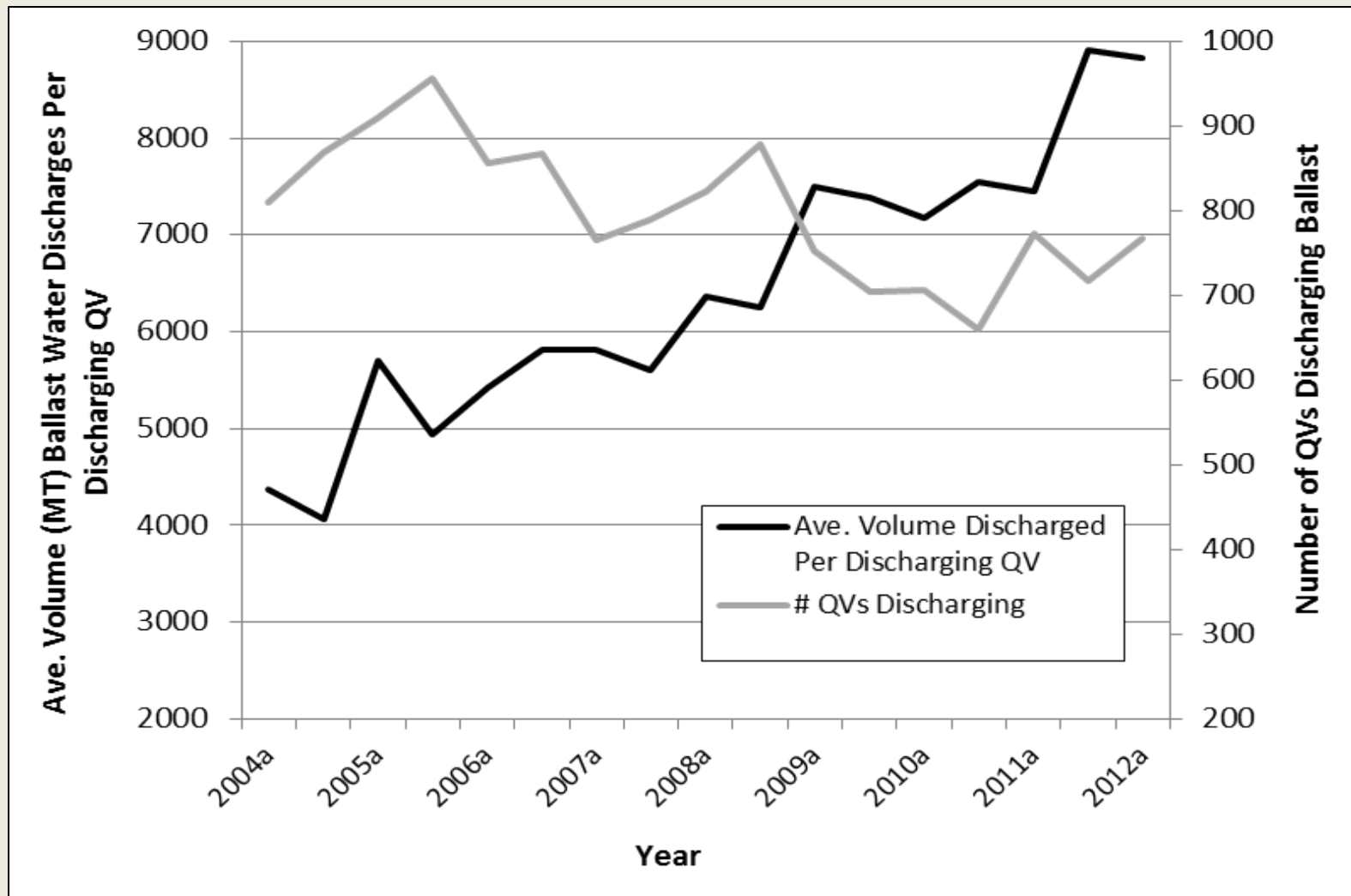
Reported Ballast Water Management



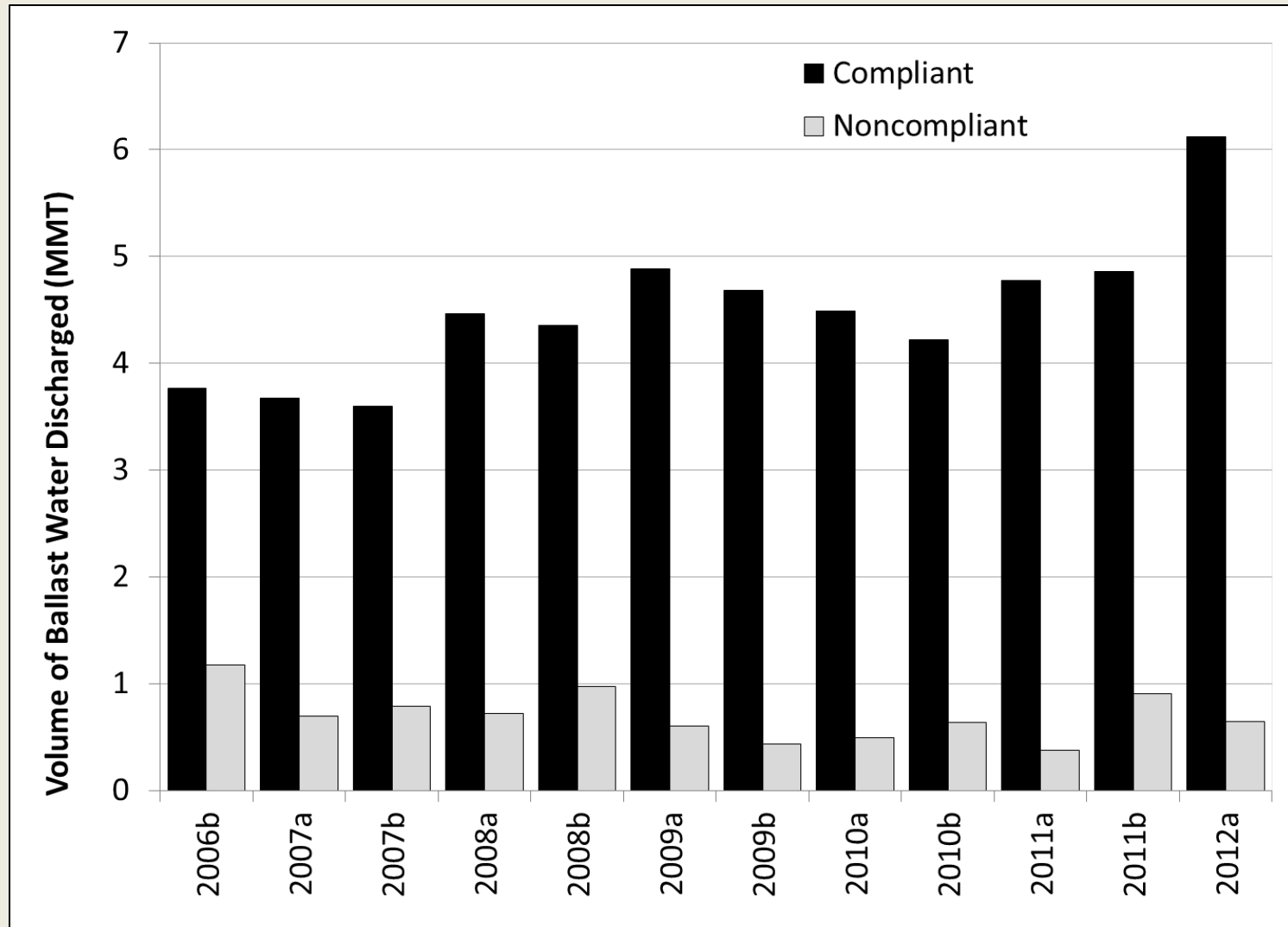
Type of Vessels Discharging

Vessel Type	Avg # of QVs Per 6 Month Period	Avg # Discharging Per 6 Month Period	% Discharging
Auto	358	5	1.4%
Bulk	345	174	50.4%
Container	2269	136	6.0%
General	179	31	17.3%
Other	51	6	11.8%
Passenger	224	35	15.6%
Tank	989	248	25.1%
Unmanned Barge	263	75	28.5%

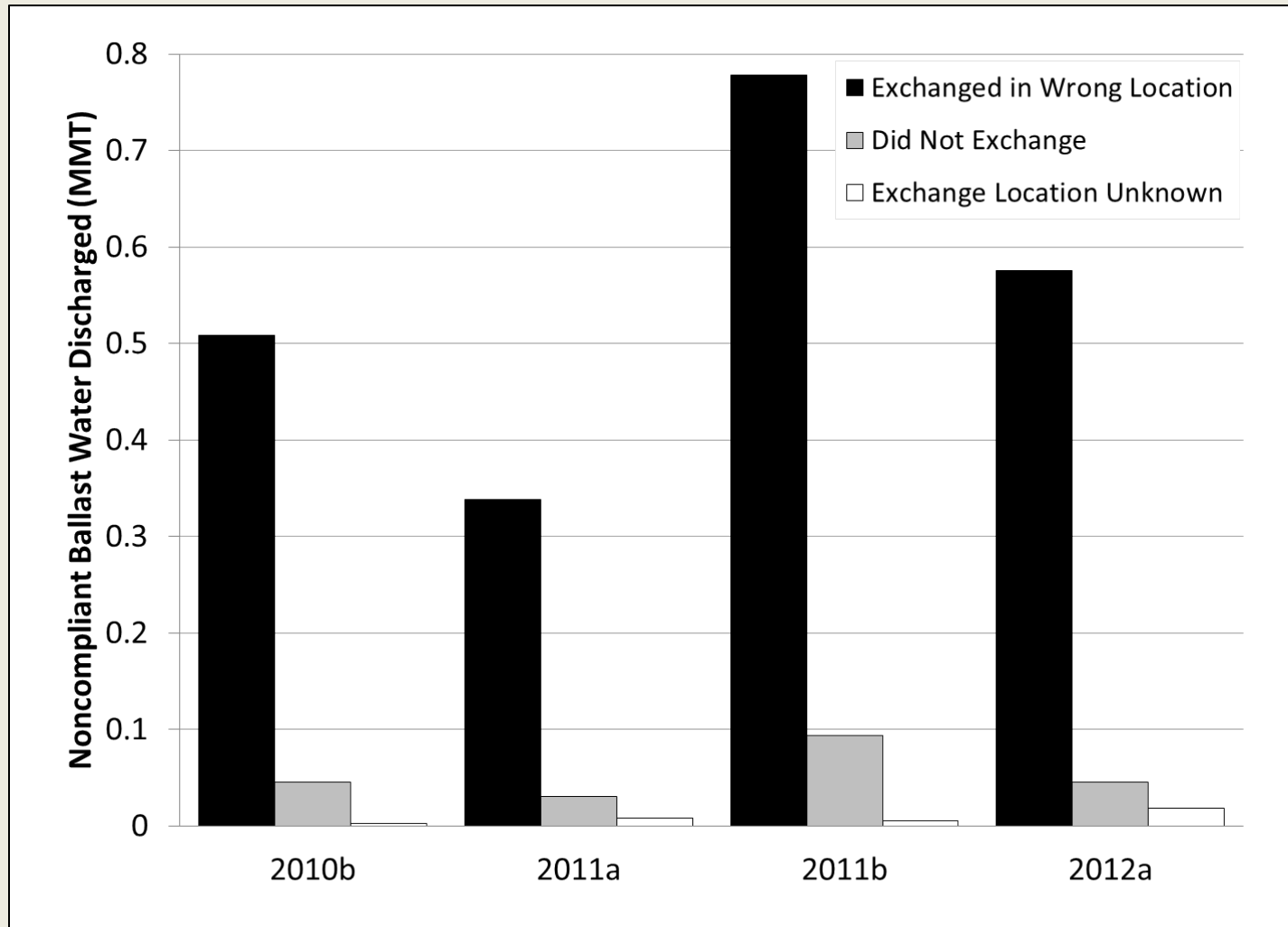
Per vessel discharge volume increasing

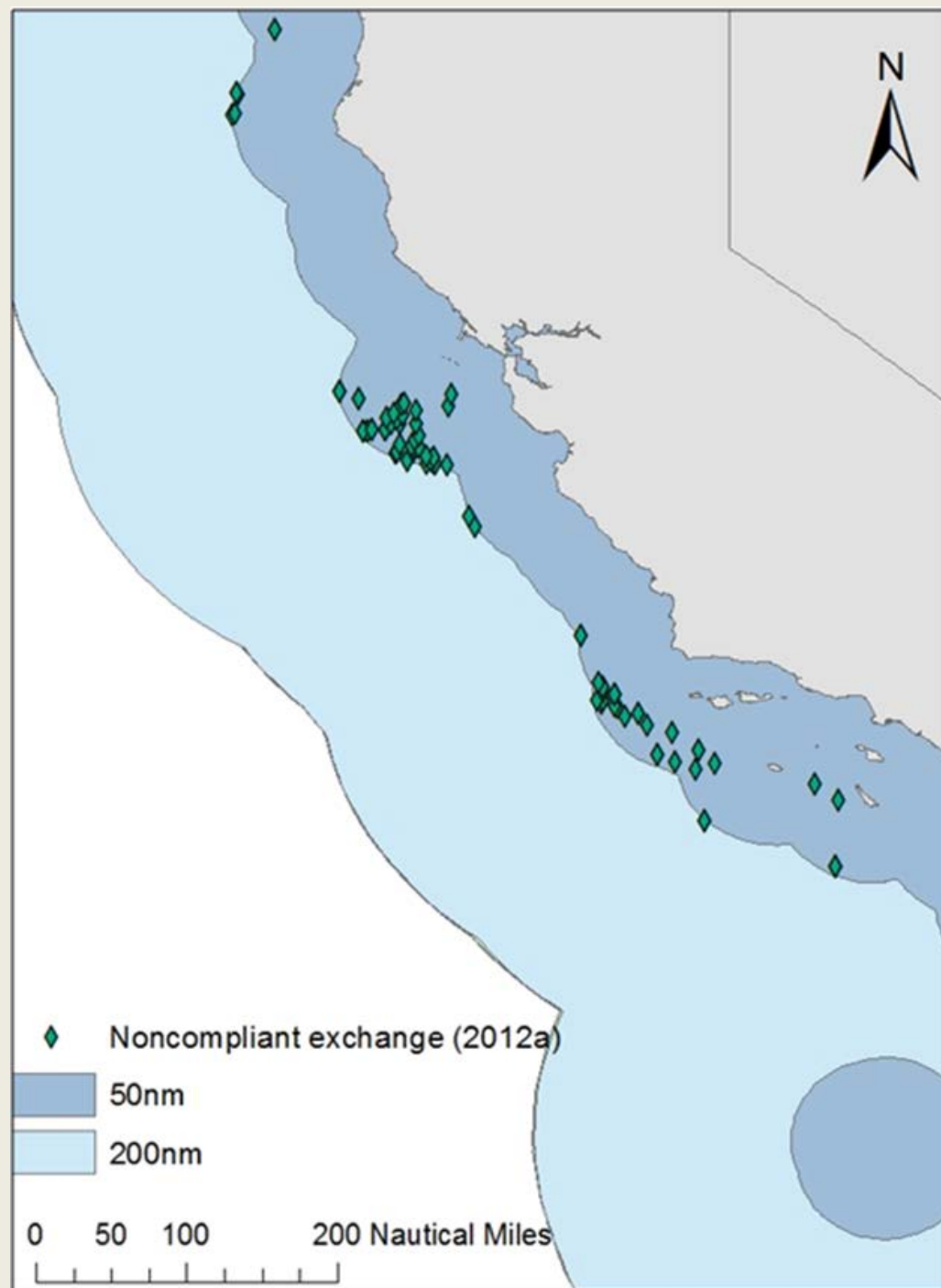


BW Discharge Compliance

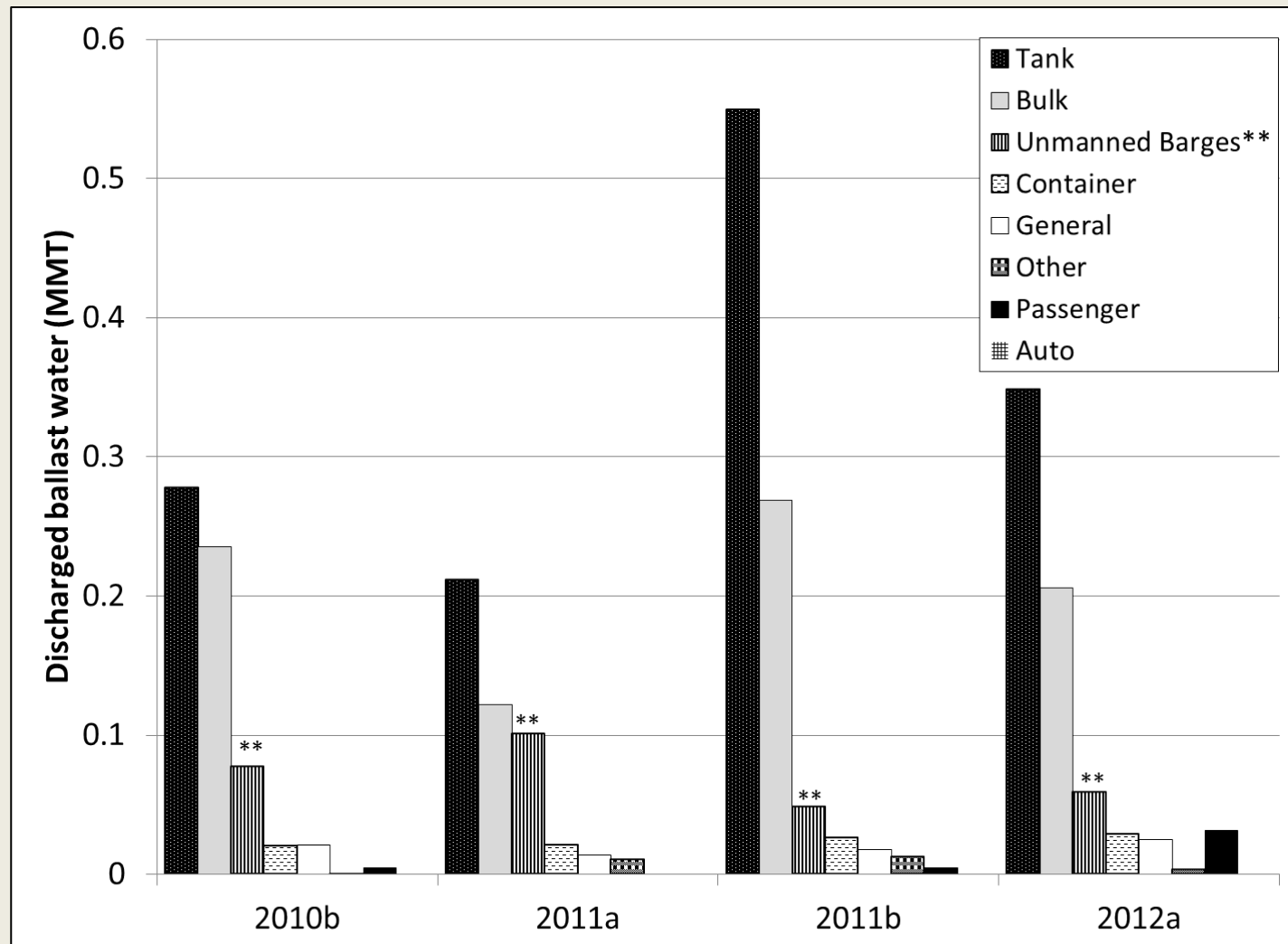


Non-Compliant Discharges





Discharge of high risk ballast water



Performance Standards

- Treatment technology assessment report
 - In revision
 - Targeting June Commission meeting
- Compliance assessment protocols (Article 4.7)
 - Temporarily on hold
- Shore-based reception and treatment facilities
 - Developing RFP for feasibility study
- Working with Commissioners and stakeholders to develop comprehensive plan for implementation

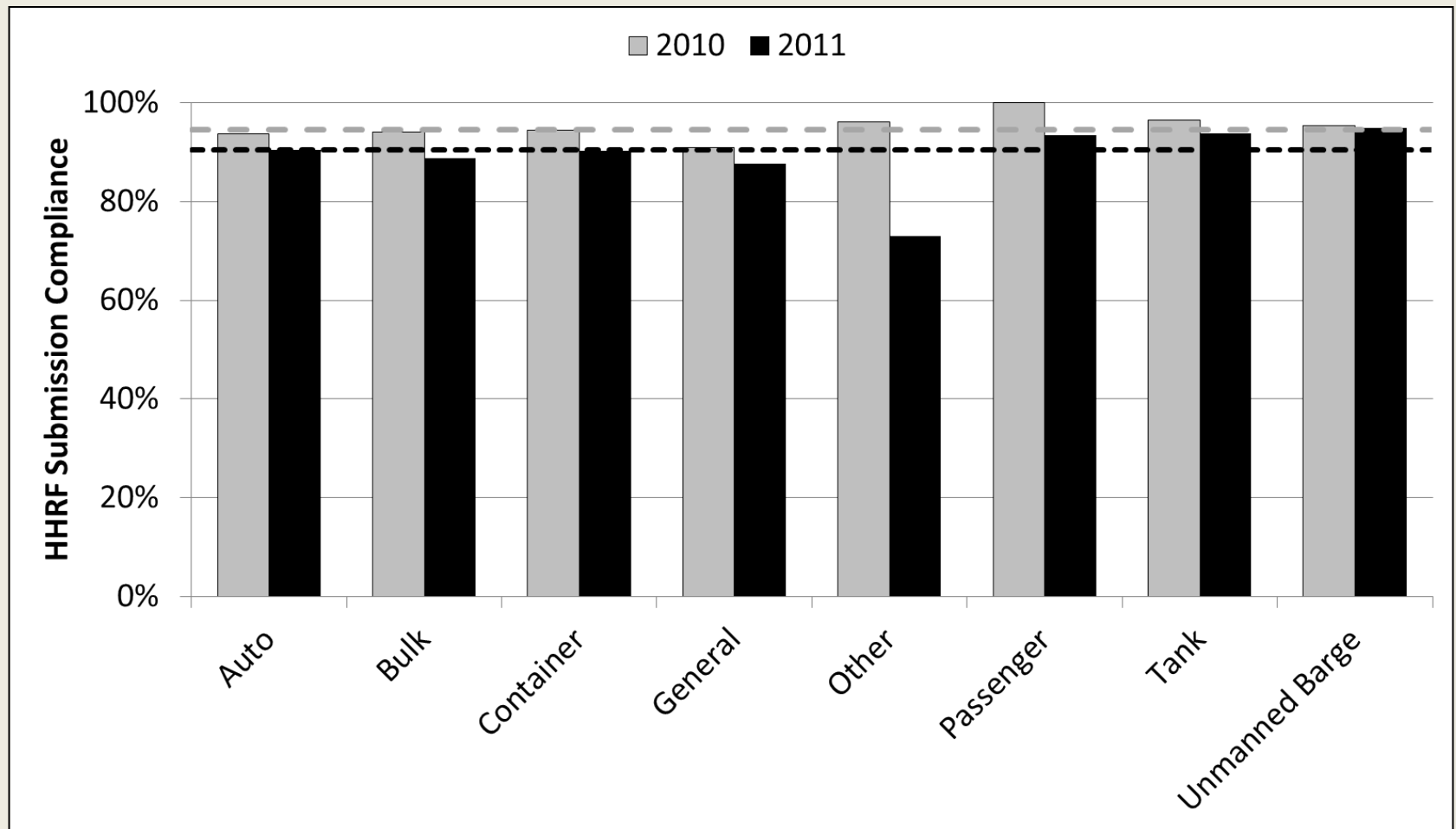


BIOFOULING MANAGEMENT

MISP Biofouling Management Timeline

- 2003 – Marine Invasive Species Act
- 2005 – Workshop and TAG meetings
- 2006 – Legislative Report
- 2006 – Voluntary hull husbandry survey
- 2007 – Assembly Bill 740
 - Hull Husbandry Reporting Form (HHRF)
 - Continue funding biological research
 - Develop regulations by 2012

HHRF Submission Compliance



Funded Research

- Moss Landing Marine Laboratories
(Dr. Nick Welschmeyer)
 - Plankton bulk viability analysis
- The Glosten Associates
 - Ballast water sampling tool
- Smithsonian Environmental Research Center
 - Biofouling (quantity, quality, extent, parasitism...)
- APL
 - Installation of NEI treatment system on *APL England*

Looking Forward

- Improve compliance – targeted outreach and enforcement
- Performance standards – implementation and compliance assessment
- Shore-based treatment feasibility study
- Hull husbandry data analysis, dissemination
- Biofouling research
- Biofouling regulations
- MOUs with regional/international partners

Questions?

For more information

<http://www.slc.ca.gov>

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