

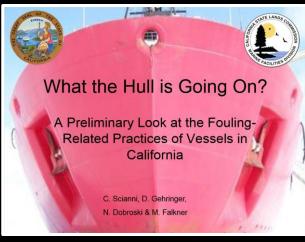
Two Halves Make a Whole:

Adding Biofouling Regulations to the Mix to Manage the Entire Vessel as a Vector...

... Eventually



Chris Scianni
CSLC – Marine Invasive Species Program
Pacific Ballast Water Group
March 29, 2016 – Sacramento, CA















May 1, 2015 → Initiate Public Rulemaking

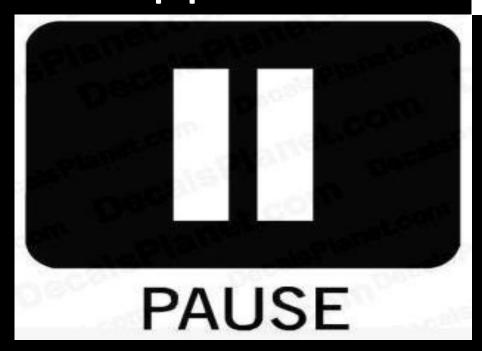
December 18, 2015 → CSLC Approval

Last remaining hurdle: Procedural review

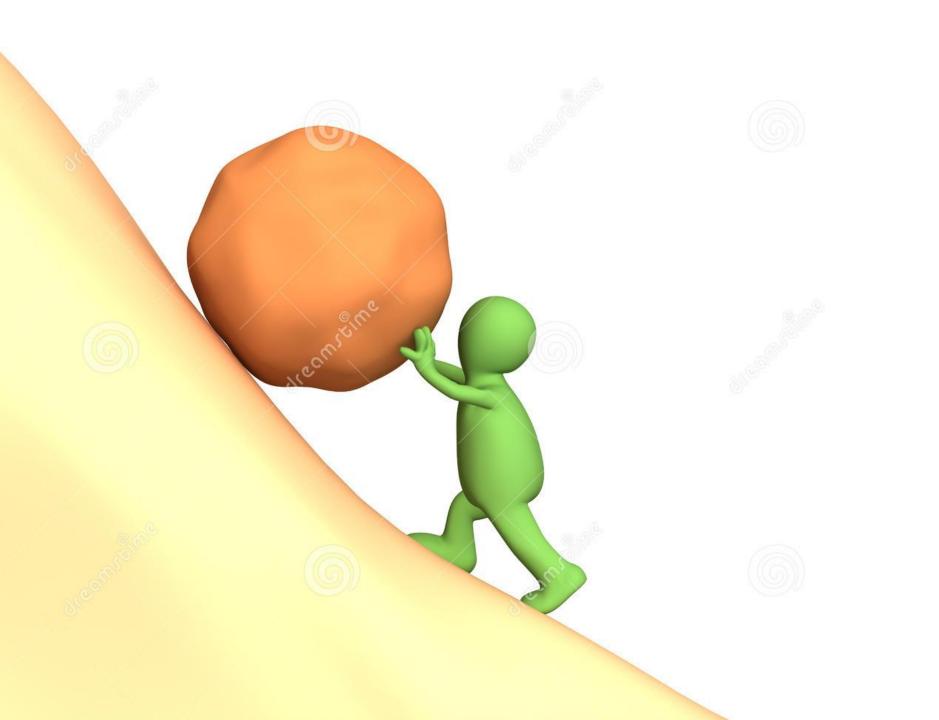




Approval





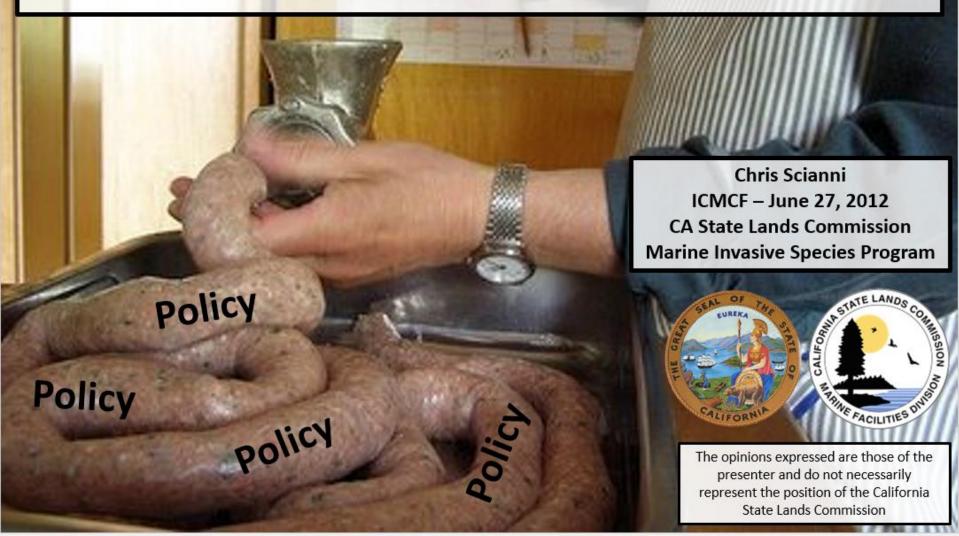




REGYGLE

Making Policy Sausage

A Behind-The-Scenes Look at the Development of Biofouling Management Regulations For the State of California



Phase 5

Phase 1: Assess the Problem

Phase 2: Science/Data Collection

Phase 3: Stakeholder Input

Phase 4: Public Process

Proposed Regulations

...then what?

Phase 5: Sales Pitch

Decision makers have to approve



Subject to review by CA Office of Administrative Law to ensure compliance with Administrative Procedures Act

Regulation

Rulemaking Byproducts







- Lengthy, complicated, frustrating process
 - For everyone involved
- But absolutely necessary
 - Every voice and concern is important
 - Every consideration needs to be made
- Likely that everyone involved will be happy with certain components, and unhappy with others

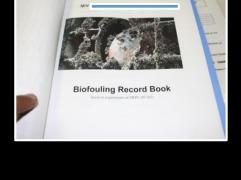
Quick updates from 2015 presentation: Biofouling Management Regulations

Reintroduce rulemaking action

Protocols











Regulatory guidance document

Quick updates from 2015 presentation: Biofouling research

Copper-tolerance







ROV surveys of long residency vessel



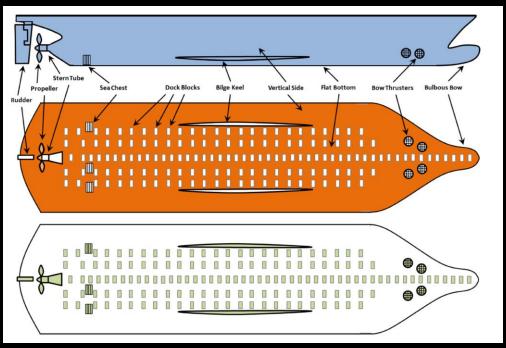






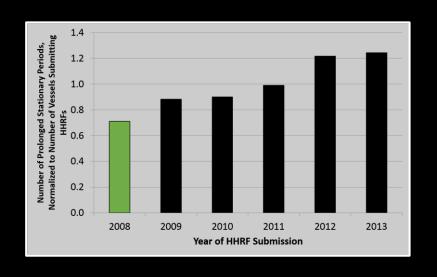
Quick updates from 2015 presentation: Manuscripts

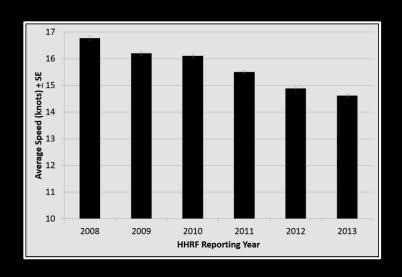




Quick updates from 2015 presentation: Manuscripts

Great Recession impacts on NIS introduction risk (in prep)





- Antifouling/Foul-Release coatings use
 - **See Raya Nedelcheva's talk tomorrow!!!**

Quick updates from 2015 presentation

- CSU COAST Internship projects
 - Waterlines

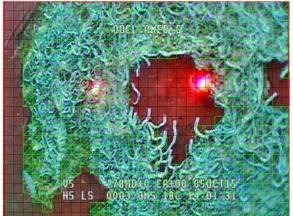




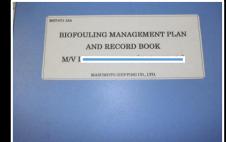


- Biofouling Management Plans/Record Books
- Process ROV video

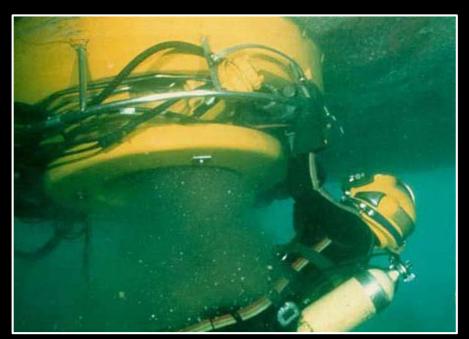








In-Water Cleaning





















CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD

















Unified Port of San Diego





In-Water Cleaning: Who owns the discharge?

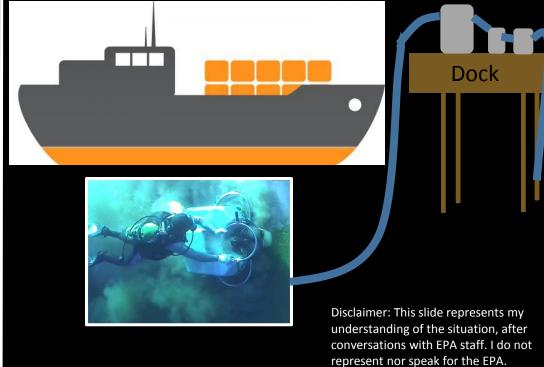
Discharge is covered under Vessel General Permit





Discharge is NOT covered under Vessel General Permit

- Now essentially the IWC company's commercial discharge
- IWC company needs NPDES permit



Moment of Zen

Fortune Cookie - February 24, 2012

You will make many changes before settling satisfactorily.





Chris Scianni
California State Lands Commission
Marine Invasive Species Program

chris.scianni@slc.ca.gov