

Ballast Water Exchange for Coastal Traffic on the West Coast of the United States

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West Coast Ballast Outreach Project

▶ Outreach Products

- Poster and Brochure - “Stop Ballast Water Invasions”
- Biannual Newsletter - “Ballast Exchange”
- Web Site
<http://ballast-outreach-ucsgep.ucdavis.edu>

▶ BW Conferences and Workshops (coastal exchange & CA BWMP)

Coastwise Transport of BW

- ▶ Concern for the coastwise transport of organisms
 - San Francisco Bay to Oregon and/or Washington
 - Mexico to California
- ▶ Open Ocean Exchange (**200 nautical miles offshore**) – Currently the only approved management tool.

Characteristics of Coastal Traffic

- ▶ Incomplete data set.
- ▶ Short travel time/frequent discharge/repeat visits (high survival rate/repeat inoculations)
- ▶ Travels near-shore (unable to conduct open ocean exchange 200 nautical miles offshore)

Current Regulations

- CA AB 703 Ships operating outside the EEZ must conduct an open ocean exchange (200 nautical miles offshore) – **Difficult to Comply**
- Washington & Oregon have mandatory requirements for ballast water exchange for coastwise traffic (domestic and foreign)
 - WA (50 nautical miles) & Oregon (no distance offshore)

Potential Solutions

- ▶ Shipboard treatment – Ultimate Solution
- ▶ Conduct a ballast water exchange without going 200 nautical miles offshore in specific areas
 - Comprehensive plan for the entire coast, rather than a state by state approach
 - Trade-offs
 - ▶ Exchanging too close to shore could result in inoculating the coastline with ANS.
 - ▶ Examine the oceanography and biology to determine the best solution, taking into account the constraints of the shipping industry.

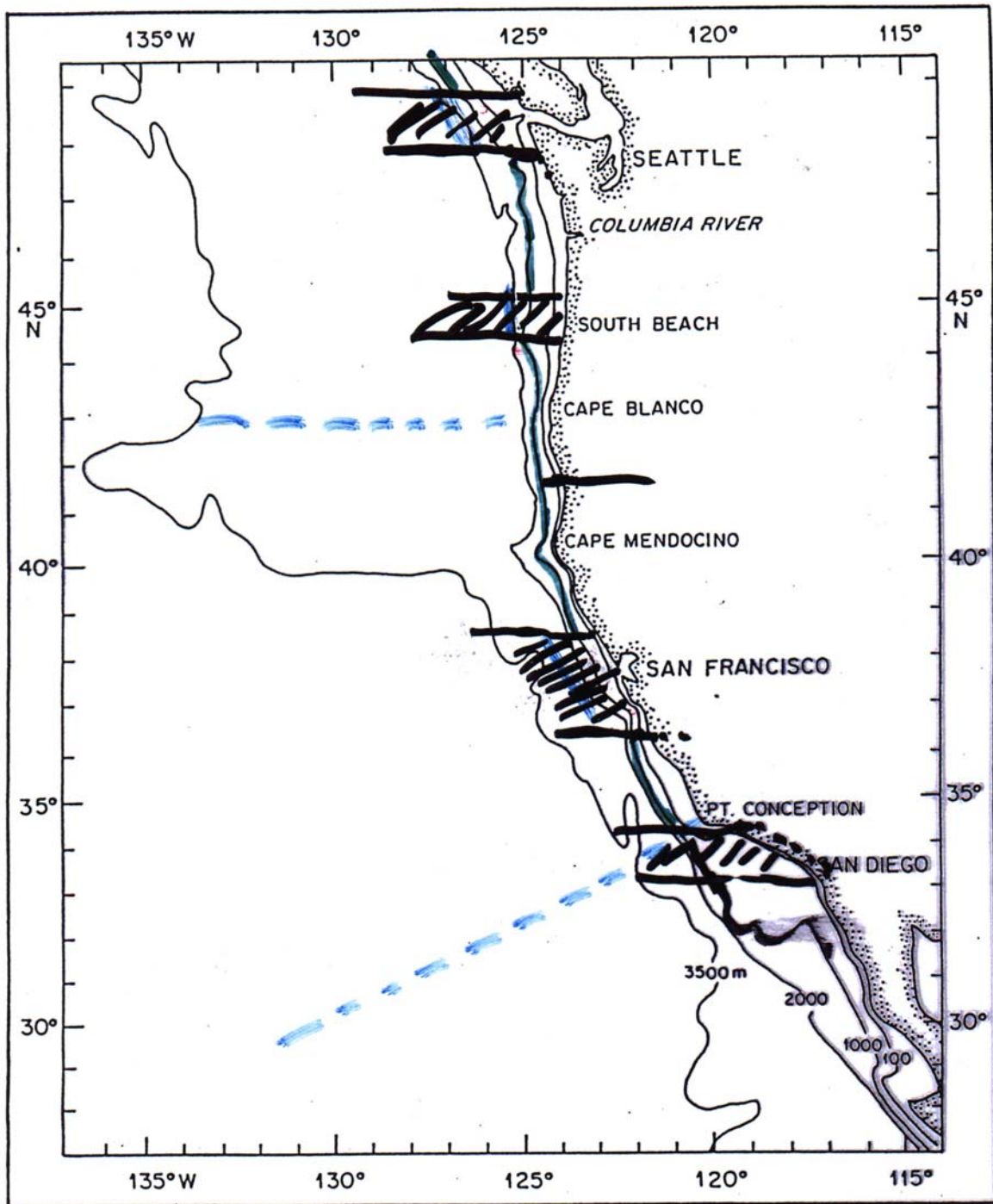
Time-line

- ▶ March 2002 – Oceanography Workshop
 - Report – West Coast Oceanography: Implications for Ballast Water Exchange

- ▶ Follow-up workshop Fall/Winter 2002
 - Stakeholders will review the report
 - Come up with a proposed comprehensive plan, or make some decisions about coastal ballast water exchange
 - Report with recommendations

Oceanography Report Findings

- ▶ Retention Zones
- ▶ 1000 m isobath



Options

- ▶ No coastal exchange – keep dumping directly into ports
 - In port – high risk: ships are stationary dumping its ballast water into one area (repeated concentrated inoculations)
- ▶ Coastal exchange
 - As far off-shore as is feasible
 - Exclusion zones?
 - Might result in coastline inoculation if too close to shore
 - Coastal exchange - low risk: ships are moving so the ballast water is coming out in a long stream (diluted), then it has to be transported to the shore.

What to do now?

- ▶ Attend workshop (1.5 days)
 - Setting date and location in the next few weeks
 - Review report when it is ready
 - Come to the Workshop with Information
 - ▶ Example – Vessel Perspective - Shipping routes
 - look at cost (time and fuel etc.) of going 50 miles offshore
 - Realistic to have exclusion zones?
 - Come up with some options

Contact Information

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