# TRB Executive Committee Policy Session Woods Hole, MA

Issues and Perspectives on Water Transportation

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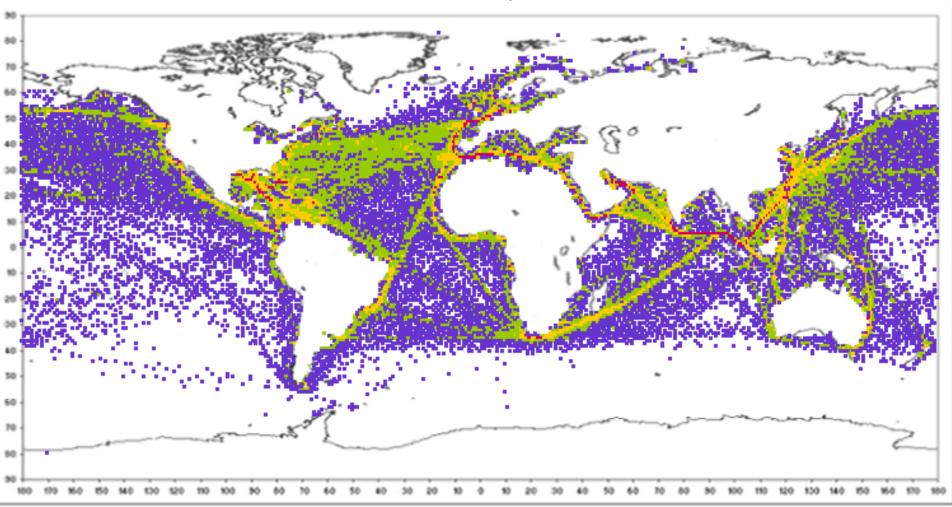
#### Overview

- Marine Transportation System
- Infrastructure Funding
- Freight Movement
- Maritime Community
- CMTS National Strategy
- Coast Guard Initiatives



## Global Marine Transportation System

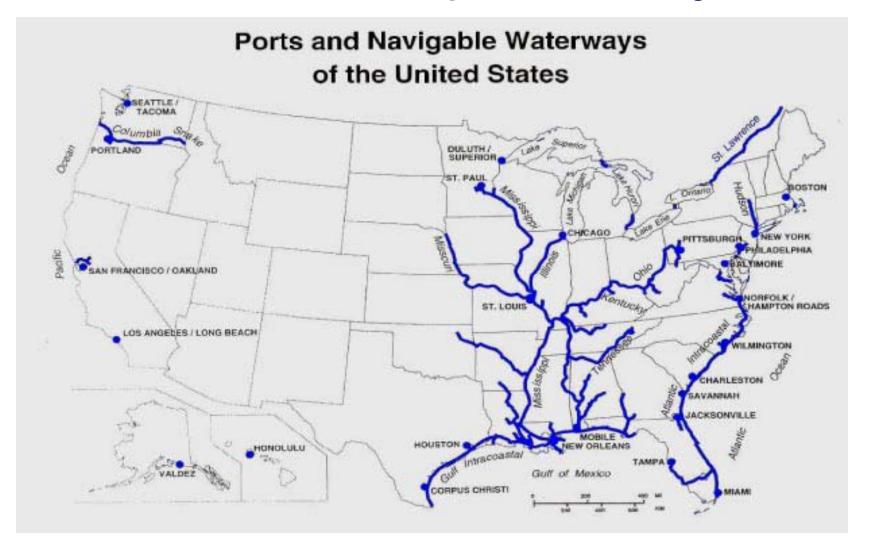
AMVER Plot for April 4, 2009







## U.S. Marine Transportation System







#### Maritime Trade & The MTS

- The MTS carries 44.9% by value and 77.6% by weight of all U.S. international trade. (BTS)
- \$5.5 billion worth of goods moves through U.S. ports each day. International trade accounts for 25% of GDP. (AAPA)
- Economy: creates over 13 million jobs, over \$1 trillion revenue
- National defense: rapid mobilization & sustains our military
- Efficient environmentally benign transportation
- Top 5 US ports by tonnage (millions) (USACE)

-	South LA	229
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- Houston 216

- New York 157

- Long Beach 86

- Beaumont 81





Courtesy Port of Los Angeles



## U.S. Infrastructure and Funding

- Transportation funding streams not targeted to national problems- Not looked at with a systems approach, e.g. freight
  - State funding-share formulas
  - No targeted Intermodal funds
  - Unable to do Federal port planning
- Aging and capacity constrained public infrastructure
  - Locks and dams
  - Water depth- 35% half-channel availability and dropping
  - These hurt efficiency, safety, and reliability/resiliency





## U.S. Infrastructure and Funding

- Limited funding sources
- Harbor Maintenance Trust Fund (HMTF)
  - Surplus in fund
  - Breaking faith with the taxpayers
  - Reliability of the MTS compromised
- Inland Waterways Trust Fund (IWTF)
  - Fuel Tax
  - Fails to cover annual requirements
  - Fund requires major overhaul
- American Recovery and Reinvestment Act of 2009
  - One time stimulus funding





## U.S. Freight Movement

- What will the future bring?
- Shifting Freight Patterns
- Regional / Mega Ports
- Call for a National Freight Transportation Policy
- Intermodal Approach



# Shifting Trade Corridors- Panama Canal Expansion (Double capacity)

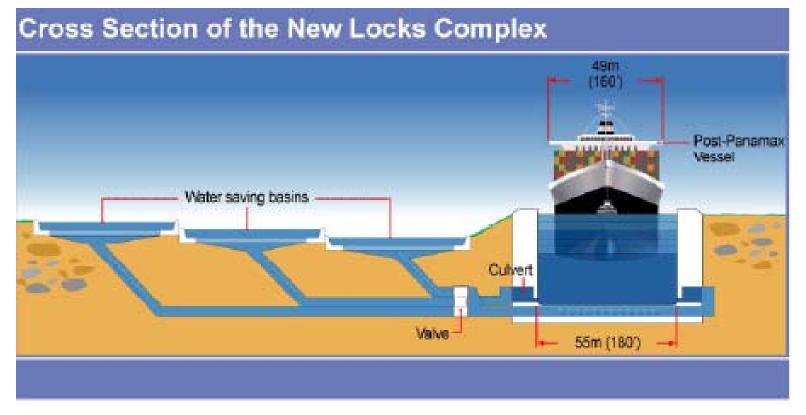
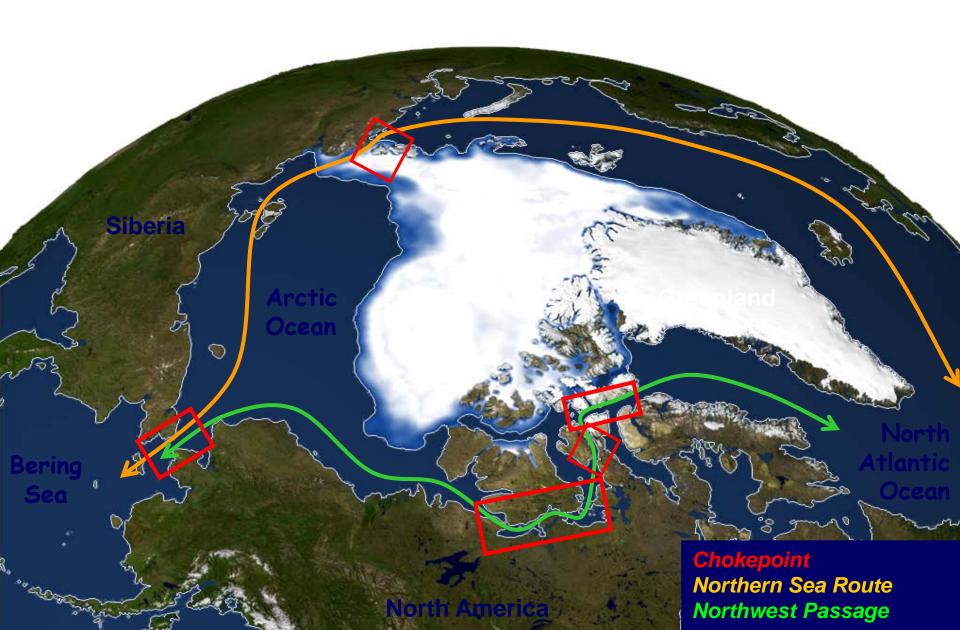


Figure 3 Cross section of the new locks with its water saving basins, shown with a post-Panamax container vessel with a nominal capacity of 12,000 TEUs.





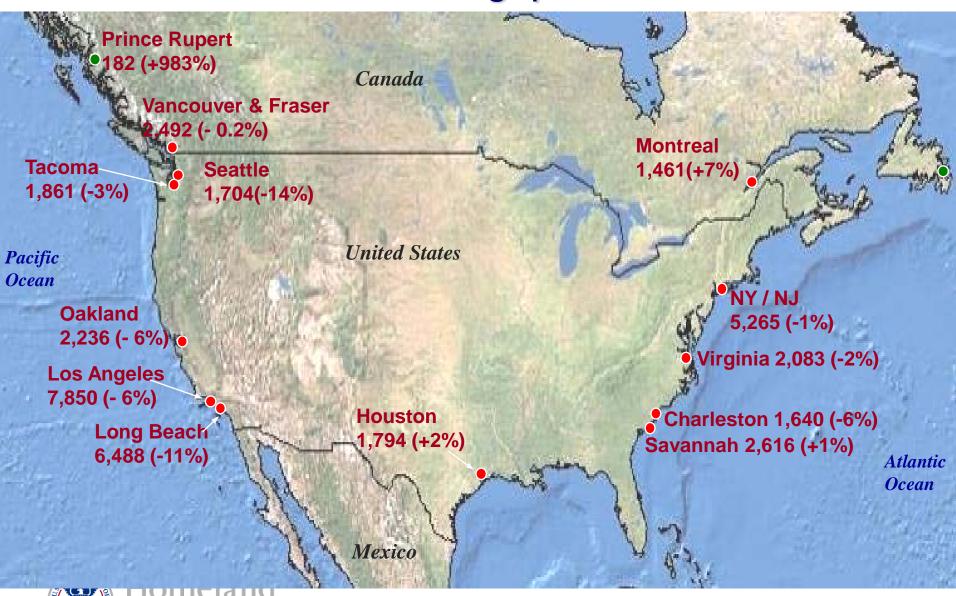
## Shifting Trade Patterns and Nav Safety







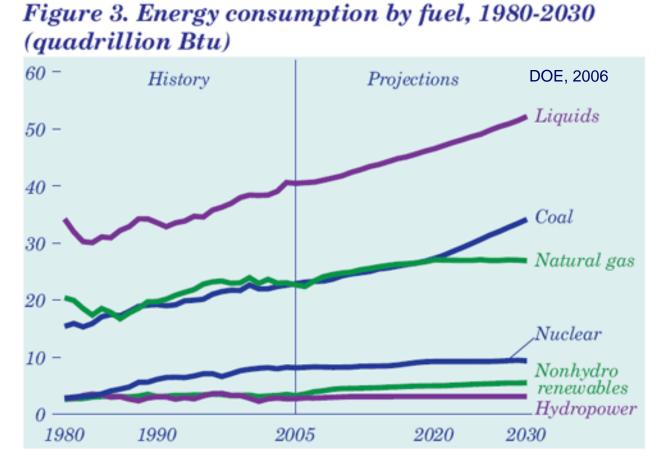
#### 2008 Container Throughput – U.S & Canada





## U.S. Energy Demand Growth

• Increased demand for oil and gas, and the ships that move it.







## Maritime Community

- Requires qualified personnel to operate many ship types and transport various cargoes
  - Tankers, bulk carriers, containers, passengers
  - Oil, chemicals, freight, bulk materials, finished goods
- Maritime transportation is critical to the U.S. / World economy
- No country is immune A hiccup in Hong Kong is felt in the US and vice versa





## Maritime Community

- Governments Empower
  - Professional Recognition
  - Maintain Competencies
    - Flag / Licensing state
    - Port State
- Owners / Operators Enable
  - Systems designed to influence professionalism
  - Improve mariner image by incorporating sound practices to strengthen safety, security, and environmental protection







## **CMTS National Strategy**

34 Recommendations/Actions in Five Priority Areas

#### Capacity

Addresses capacity issues, improve efficiency, & reduce congestion

#### Safety and Security

Strengthen maritime safety & coordinate maritime security

#### **Environmental Stewardship**

Protect environmental health of shared resources

#### Resilience and Reliability

Increase MTS reliability and ability to withstand/or recover from damaging incidents

#### **Finance and Economics**

Maintain & improve infrastructure





#### **CMTS Implementation Plan**

#### 7 actions for initial implementation

- Publish MTS data on cargo movement, capacity, and productivity
- Identify co-relation between transport /infrastructure deficiencies and international competitiveness of U.S. supply chains.
- Transmit PORTS data using AIS capability
- Identify R&D requirements for MTS
- Analyze investment mechanisms for funding infrastructure including obstacles to implementation.
- Alternatives to 24-hr notice of arrival (NOA) requirement for Great Lakes and short coastwise shipments within U.S. waters.
- Restructure the Harbor Maintenance Trust Tax for domestic and international cargo





### U.S. Coast Guard Marine Safety Performance Plan

- Reduce Marine Casualties
  - Recreational Boating, Towing Vessels, Fishing Vessels, High Risk Vessels
- Facilitate Commerce
  - Improve Services, Strengthen Partnerships, Leverage Technology
- Improve Program Processes and Management
  - Improve Performance Measurement, Lifesaving Innovations
- Improve Human Resource Capabilities
  - Career Development, Knowledge, Workforce Capabilities





## U.S. Coast Guard Waterways Management Performance Plan

- Enhance Capacity
  - Navigation Systems, Bridge Infrastructure,
- Improve Safety
  - Risk Assessment, Stakeholder Involvement
- Minimize Disruptions
  - Domestic and Polar Icebreaking Capability
- Effective Program Management
  - Program Measurement, Workforce Development, Funding





#### Questions

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