



Navigation Technology

Current State, Future Possibilities, Gaps And Barriers

A MARINE BOARD FOCUS SESSION

Session Presider: Rear Admiral Richard "Dick" D. West (USN, Ret)

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The National Academies of
SCIENCES • ENGINEERING • MEDICINE



TRANSPORTATION RESEARCH BOARD

PANELISTS

U.S. Navy Perspective

Captain Joe Reason
Program Officer for Navigation Technology
United States Navy - NAVSEA

U.S. Coast Guard Perspective

Captain Scott Smith,
Chief, Navigation Systems
United States Coast Guard

NOAA Perspective

Rear Admiral Gerd F. Glang
Director, Office of Coast Survey
National Oceanic and Atmospheric Administration

PNT Perspective

Ms. Karen VanDyke
Director, Office of Positioning, Navigation, and Timing (PNT)
U.S. Department of Transportation

Academic and Vessel Operations Perspective

Captain Thomas Bushy
Vice President for Marine Operations
Massachusetts Maritime Academy



FRAMING QUESTIONS

- What processes, policies, and procedures is your organization developing for implementing e-navigation?
- What are the challenges to the implementation of e-navigation?
- What vulnerabilities are presented through reliance on GPS and how are these being discussed in your organization with respect to implementation?
- What e-navigation products are most useful, which products are still needed?
- What are some of the expected or unexpected consequences of implementing e-navigation?
- What role or actions should the US government take to ensure that new navigation technology is implemented correctly?
- What role do you see for the Marine Board in addressing the identified gaps and challenges?(Workshops, research, policy studies, listening sessions, etc.)

