INTEGRATED DEEPWATER SYSTEM (IDS)

Expeditionary Warfare Conference

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Homeland Security

DEEPW/ATER

Agenda

Securing the Maritime Domain

National Strategy for Maritime Security

Reduced Maritime Risk

The Multimission Coast Guard

Integrated Deepwater System

Meeting the Threat in the World's Littorals

National Fleet

Conclusion

The Threat

WMD

Smuggling (Aliens & Drugs)

Regional Crisis & Conflict

Arms Trafficking

Sanctions Violations

Threat to Homeland Security

Safe Ports & Waterways

Crime & Violence

Terrorism

Mass Migration

The 9/11 Commission concluded that "Opportunities to do harm are as great, or greater, in maritime or surface transportation," then in other transportation sectors

The West Coast dock workers strike demonstrates an economic impact of a forced closure of U.S. ports for a period of only eight days in excess of $58 billion to the U.S. economy.

Adm. Thomas H. Collins, Commandant Of The Coast Guard

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Rescue Operations

	29Aug L+2	30 Aug L+24	31 Aug L+48	1 Sep L+72 (L+3D)	2 Sep L+4D	3 Sep L+5D	Total as of 1200 11 Sep
RESCUED	3	1,256	1,600	1,141	5,000	6,655	24117
HOSPITAL EVACUATIONS						9,403	9,403
TOTAL	**3**	**1,259**	**2,859**	**4,000**	**9,000**	**25,058**	**33,520**

92 aircraft saved   **12,533 people**
30 cutters and 111 small boats saved   **11,584 people**

The Vulnerability of the Marine Transportation System

- **Over 95,000 miles of coastline**

- **26,000 miles of commercially navigable waterways**

- **9 million containers enter our 361 seaports**

- **3,200 marine terminals**

- **8,000 foreign vessels**

- **50,000 port calls annually at our seaports**

- **$800 billion dollars of domestic and international freight annually flow through our seaports**

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Securing The Maritime Domain

- **Understand the inherent risks, threats, vulnerabilities and consequences**

- **Have joint plans for prevention, response and recovery**

- **Strategic goals should facilitate commerce while protecting the nation's maritime borders**

National Strategy for Maritime Security

High-Level Objectives (DOD/DHS)

- **Prevent terror attacks and criminal or hostile acts**
- **Protect population centers and critical infrastructure**
- **Minimize damage and expedite recovery**
- **Safeguard the ocean and its resources**

Five Strategic Actions

- **Enhance International Cooperation**
- **Maximize Domain Awareness**
- **Embed Security into Commercial Practices**
- **Deploying Layered Security**
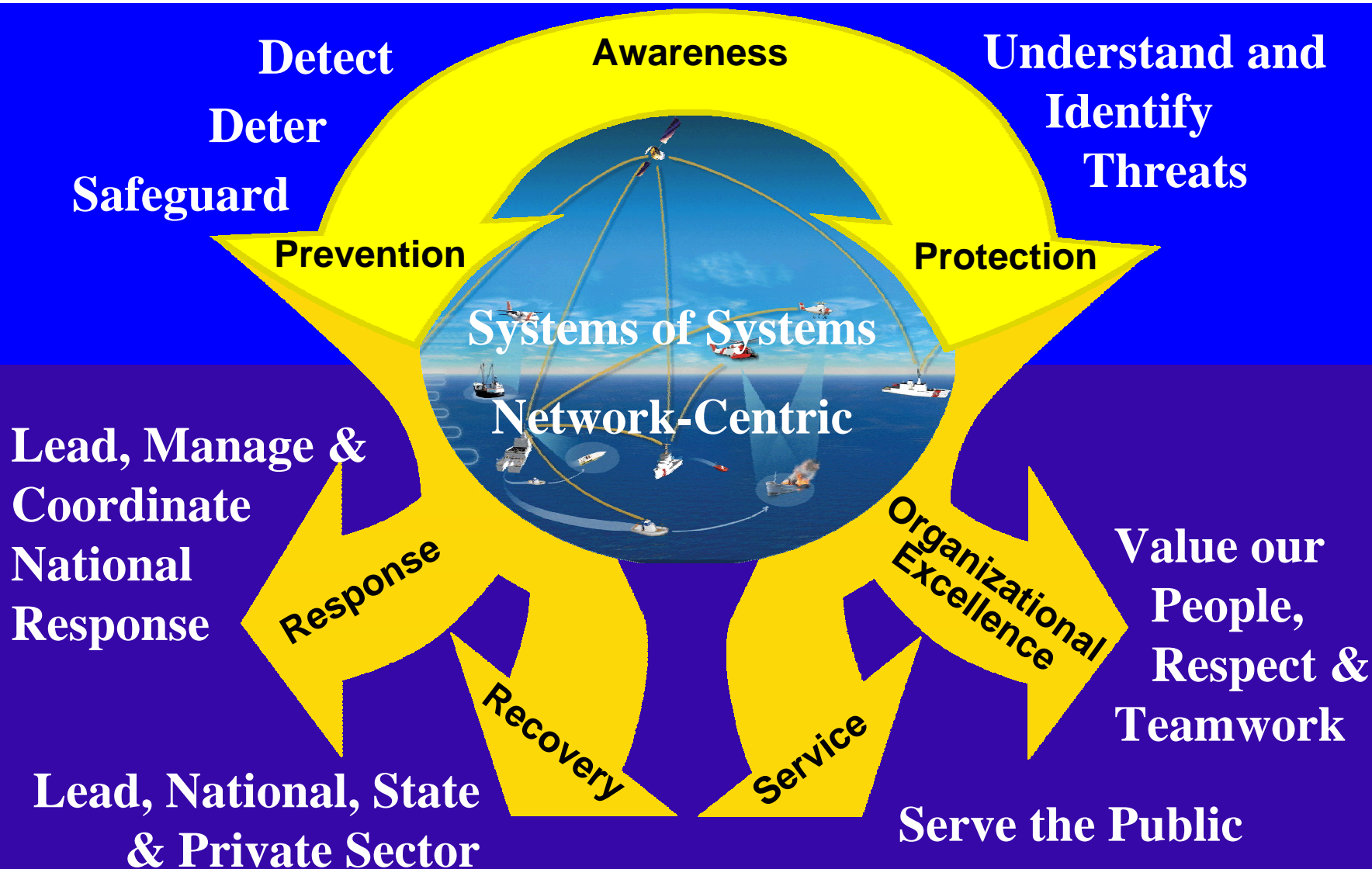- **Assure Continuity of the Marine Transportation System**

DHS Strategic Plan

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Detect

Deter

Safeguard

Awareness

Understand and Identify Threats

Prevention

Protection

Systems of Systems

Network-Centric

Lead, Manage & Coordinate National Response

Response

Organizational Excellence

Value our People, Respect & Teamwork

Recovery

Service

Lead, National, State & Private Sector

Serve the Public

Reduced Maritime Risk

DHS Strategic Goals

Awareness → Prevention → Protection → Response/Recovery

Coast Guard Maritime Security Strategy

Enhance Maritime Domain Awareness (MDA)	Comprehensive Maritime Security Regime	Increased Operational Presence	Enhanced Response Posture
FY 2006 "MDA" initiatives	**"Security Regime" initiatives**	**"Operational Presence" initiatives**	**"Response/Recovery" initiatives**
• **Deepwater**	• **Deepwater**	• **Deepwater**	• **Deepwater**
• Automatic Identification System (AIS)	• Maritime Transportation Security Act (MTS (Annualization)	• Airborne Use of Force	• Rescue-21
• Common Operational Picture (COP)	• International Ship and Port Security Code (ISPS)	• Cutter Boat – Over the Horizon	• High Frequency Communication Recapitalization
• Maritime Patrol Aircraft (MPA) Gap Reduction		• Response Boat – Small/LNG Security	• Airborne Use of Force
• H-C130J Missionization		• Response Boat – Medium	• Rad/Nuc
• Rad/Nuc		• E-MSST	• E-MSST

(U.S. Coast Guard FY 2006 Initiatives)
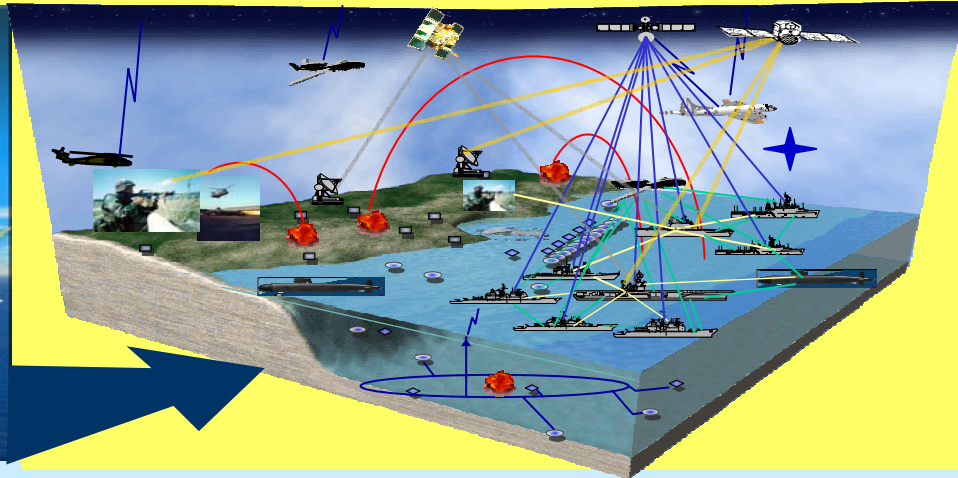
USCG: "Straddling The Seam"

Homeland Security ←→ Homeland Defense

Integrated Deepwater System

FORCEnet

- **The Coast Guard is the _one_ organization that straddles the seam between the twin mission areas of homeland security and homeland defense**

- **It is at the confluence of Coast Guard authorities, law-enforcement competencies, interagency experience, and military functionality where threats can be identified and dealt with**

- **Improved Deepwater platforms and systems will serve as the Coast Guard's means for satisfying its responsibilities to _both_ the Department of Homeland Security and the Department of Defense**

USCG Expeditionary Support to Combatant Commanders

- **Littoral Ops**

- **MIO/Law Enforcement**

- **Port and Force Security**

- **Aids to Navigation**

- **Environment Response**

- **International Engagement**

> "Coast Guard patrol boats are highly maneuverable, fast, multimission vessels able to operate in shallow water and are therefore especially well-suited for operations in the Northern Arabian Gulf."
>
> *VADM David C. Nichols Jr., USN Commander , Commander, U.S. Fifth Fleet   2004*

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Coast Guard Cutters Forward-Deployed with Navy Fleets:

- **Fifth Fleet in the Arabian Gulf/Middle East**

- **Sixth Fleet in the Mediterranean**

- **Seventh Fleet in the Western Pacific**

Coast Guard cutters conduct maritime-intercept operations, carry out peacetime-engagement missions, and perform other essential expeditionary warfare tasks

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Operation Iraqi Freedom

Coast Guard High Endurance Cutter BOUTWELL and Dallas were deployed to the Arabian Gulf/Middle East perform essential warfare tasks.

Coast Guard units were "employed around the clock … the first line of defense" for coalition naval forces.

The Coast Guard has currently deployed four 110-foot cutters with support from Reserve Machine Technicians.

VADM Timothy J. Keating, USN Commander, U.S. Fifth Fleet 2003

The Coast Guard has three Ports Security Units and two Mobile Support Units deployed in the M.E.

Integrated Deepwater System:

- **Three classes of new cutters and associated small boats**

- **Manned and unmanned aircraft conversion, modernization, replacement**

- **Network-centric Command, Control, Communications, Computers, Intelligence, and Reconnaissance (C4ISR)**

- **Integrated logistics support**

- **Improved capabilities for high-threat operations**

Deepwater, a layered maritime defense

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System of Systems – Network-Centric

System of Systems

An *innovative, interoperable network-centric system* for command C4ISR improvements to harness the power of an interoperable network to improve performance in all mission areas, to *improve maritime domain awareness* and provide a *common operational picture*

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Maritime Domain Awareness
The Deepwater C4ISR Contribution

Maritime Domain Awareness is the effective understanding of anything associated with the global maritime environment that could impact the security, safety, economy, or environment of the United States.

The Deepwater C4ISR system is a network-centric system designed to ensure seamless interoperability

- **Shared tracks and real-time data streams.**
- **On-line intelligence.**
- **Robust and seamless connectivity and continuous coordination.**
- **Stand-alone capability.**
- **Supplemented by active and passive sensors.**
- **Expanded area of surveillance and detection areas.**
- **Improved communications with all federal, state and local agencies and merchant shipping.**

Operational effectiveness enhanced by common maritime operational picture

Post-9/11 Implementation Plan

Addresses the Coast Guard's dual challenges of legacy-asset deterioration and performance gaps by:

1. Revised plan will enable the Deepwater Program to make more significant contributions to improved information sharing, collaboration, and interoperability in the maritime domain—essential capabilities to attain higher levels of maritime domain awareness (MDA)

2. Modifying the original assets that would have been delivered by the Deepwater project to incorporate improved post-9/11 capabilities

3. Retaining, upgrading, and converting aviation legacy assets (C-130s, H-60s, H-65s) as part of the final asset mix

4. Advancing the delivery of the Fast Response Cutter and Offshore Patrol Cutter.

5. Deliver more capable operating assets for the Coast Guard's post-9/11 transformation to support DHS strategic goals and to reduce maritime security risk

"A 21st Century Coast Guard"

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Deepwater Meeting the Threat in the World's Littorals

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Security management at every point of engagement…

Intelligence-Information Collection & Sharing/MDA

Long – Range Surveillance/Air Transport

Vertical Insertion for Opposed Boarding

Anti-Terrorism/Force Protection

Surveillance   Detection   Identification   Classification   Prosecution

CG/DHS/DOD Common Operational Picture

DOD Interoperability, Deployment Capabilities

Enhanced CBRNE Detection and Defense Capability

Airborne Use of Force

Regional conflicts, transnational threats to U.S. commerce and national security, require improved U.S. sea-basing capabilities

- **State-of-the-art C4ISR**
- **Upgraded capabilities for GWOT**
- **Hull 1 Keel Laid 29 March 2005**
  - **Hull #1 30% complete**
- **Hull 2 Start Fab October 2005**
- **Funds for 3rd hull in FY06 budget**

NSC with Complement of Short Range Prosecutor (SRP), Long Range Interceptor (LRI), Vertical Takeoff Unmanned Aerial Vehicle (VUAV), MH-65C Multi-Mission Cutter Helicopter (MCH), and C4ISR.

National Security Cutter (NSC) Contribution to the Homeland Shield

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Total Daily Search Potential for Force Package of Cutter and Deployed Air Assets

Today

Future

NSC/OPC
56,000 square nautical miles

WHEC
13,500 square nautical miles

WMEC
9,000 square nautical miles
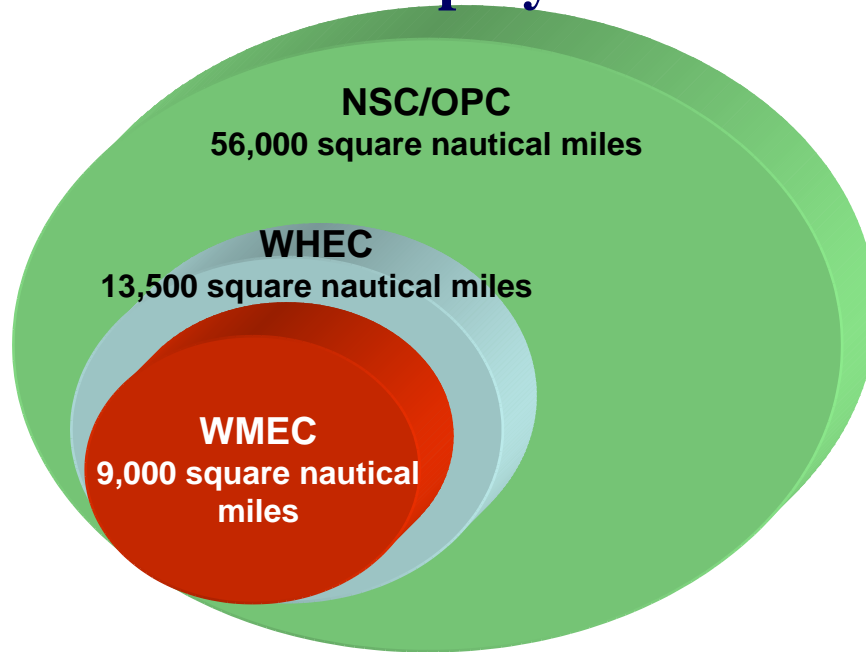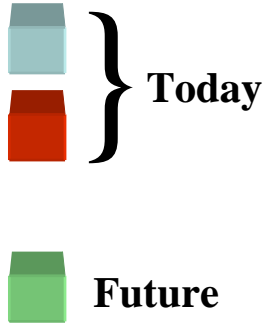
Total Daily Search Area

National Security Cutter (NSC)/Offshore Patrol Cutter (OPC) Force package includes:
1 cutter on station for 24 hours
1short-range helicopter (MCH) with 4 flight hours
2 VUAV with 12 flight hours total

WHEC (378) Force package includes:
1 cutter on station for 24 hours
1 short-range helicopter (HH-65) with 4 flight hours

WMEC (270/210)
Force package includes:
1 cutter on station for 24 hours
1 short-range helicopter (HH-65) with 4 flight hours

National Fleet: A "Joint" Policy Direction

- **Navy/USCG supports collaboration, to achieve the highest level of naval and maritime operational integration for improved maritime security**

- **New U.S. National Strategy for Maritime Security calls for a *fully coordinated federal effort* to protect U.S. interests in the maritime domain**

National Security Cutter (NSC)

U.S. COAST GUARD

Lockheed Martin, Littoral Combat Ship

"Current USCG acquisition efforts such as the Deepwater Program will greatly enhance the interoperability between USCG and USN units in the CENTCOM AOR."

GEN John Abizaid, USA Commander, U.S. Central Command   2005

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Navy-Coast Guard Cooperation
CNO Guidance for Fiscal Year 2006

- **Develop closer working relationships with the U.S. Coast Guard and other agencies to improve:**
  - **National security**
  - **Homeland defense**
  - **Maritime domain awareness**
  - **Synergy and cost effectiveness**
- **Develop adaptive force packages and flexible deployment concepts for blue water and littoral environments**
- **Align with the National Fleet policy and National Strategy for Maritime Security**

Navy and U.S. Coast Guard work cooperatively to improve homeland defense and national security through increased synergy and cost effectiveness.

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Integrated Deepwater System
Building a 21st-Century Coast Guard

- **Improved system-wide capacity and capabilities for post-9/11 missions**
- **Far more capable cutters, manned and unmanned aircraft, robust C4ISR**
- **Key enabler for USCG implementation of National Strategy for Maritime Security and National Fleet Policy**
- **Interoperable C4ISR: Better Maritime Domain Awareness, Common Operating Picture**
- **Closes "capability gaps" to reduce risk in the maritime domain**
- **Improved readiness, performance, and safety**
- **Important implications for mission support to Combatant Commanders**
  - **Expeditionary Warfare**
  - **Homeland Defense/Security**
  - **Improved USCG, Navy, and interagency interoperability**
  - **International engagement**

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Visit the IDS Web Page for latest Developments

Check us out: www.uscg.mil/deepwater