



RHUMB LINES

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Interoperable and Integrated C4ISR Capabilities

"Space and Naval Warfare Systems Command is acquiring and delivering state of the art C4ISR capability and Network Centric interoperability to our joint forces. Our integrated systems also support the Maritime Strategy by providing the warfighter in theater with the information technology superiority critical to battlefield success."

– Rear Adm. Michael C. Bachmann, Commander, Space and Naval Warfare Systems Command

Robust Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) capabilities enable naval forces to execute the Maritime Strategy and contribute to our ability to integrate coalition and joint force operations. From supporting our forces on the ground to enhancing Maritime Domain Awareness to enabling interoperability key for strategic partnerships, C4ISR capabilities are integral to our operations.

Supporting Maritime Domain Awareness

- The Automatic Identification System (AIS), under the direction of the Navy's Program Executive Office for C4I, gives new insight into the Maritime Domain by providing commercial shipping data, including vessel name, hailing port, destination, course and speed. AIS capability is aboard more than 125 Navy ships.
- Within U.S. Africa Command, C4I capabilities have provided network connectivity, communication and information sharing across the vast continent.

Supporting our People while projecting power

- Mine Resistant Ambush Protected (MRAP) vehicles have dramatically negated the once deadly effects of Improvised Explosive Devices (IED). C4I capability and systems are integrated into all MRAP vehicles during production.
- In Iraq, and elsewhere in the Middle East, more than 760 Internet Cafés have been networked with more than 5,000 computers, providing email and international telephone capabilities for thousands of troops in theater.
- With the Theater Medical Information Program-Maritime (TMIP-M) in place, medical officers will have direct access to naval personnel medical records regardless of location. The first permanent Department of Defense (DoD) wide implementation of Theater Medical Information Program-Maritime Block 2 software has been installed aboard USS Ronald Reagan (CVN 76).

Humanitarian Missions and Homeland Defense

- Complete communication and networking capabilities on USNS Mercy (T-AH 19) enable a range of humanitarian efforts with joint and coalition forces worldwide. Similar system installations are planned for USNS Comfort (T-AH 20).
- USS Nashville (LPD 13) will participate in an Africa Partnership Station and serve as the test platform for a "Prototype Regional Cyber Substation" in support of a host-nation cyber café.
- TEMPEST (Information Assurance) certification onboard USCG Bertholf (WMSL 750) ensures U.S. Navy-U.S. Coast Guard information technology interoperability prior to the ship's first deployment.

Key Messages

- MRAP deliveries to combat troops dramatically reduce the deadly effects of IEDs and bring new capability to ground forces.
- C4ISR supports the Maritime Strategy and homeland defense joint service efforts by providing information assurance support and network centric capability to the warfighter.
- Integration of C4I systems aboard Navy hospital ships enables the Navy to be a key player in Humanitarian Assistance missions worldwide.

Facts & Figures

- Mine Resistant Ambush Protected (MRAP) is the number one DoD Acquisition Program.
- 13,000 MRAP vehicles have been integrated with C4I equipment.
- By 2010, all aircraft carriers will be integrated with TMIP-M systems, allowing medical officers direct access to medical records.
- Thousands of troops communicate with families and friends through Internet Cafés. This morale booster is maintained 24/7.