C2 in Underdeveloped, Degraded and Denied Operational Environments

18th ICCRTS

Presenter: Ms. Amanda George
Co-Authors: Dr. LorRaine Duffy, Mr. George Galdorisi, Dr. Eric Hendricks, Captain Miguel San Pedro (USN)

SPAWAR Systems Center Pacific
Strategic Landscape

GLOBAL TRENDS 2030: ALTERNATIVE WORLDS

SUSTAINING U.S. GLOBAL LEADERSHIP: PRIORITIES FOR 21ST CENTURY DEFENSE

QUADRENNIAL ROLES AND MISSIONS REVIEW

Capstone Concept for Joint Operations: Joint Force 2020

JOINT OPERATIONAL ACCESS CONCEPT (JOAC)

Naval Operations Concept


U.S. NAVY Information Dominance Roadmap 2013-2028
Air-Sea Battle Concept
A2/AD
Why Undersea?
Why Undersea Networks?
Increasingly Connected & Congested
Mission Statement: Headquartered on the Old Town Campus of the Space and Naval Warfare Systems Center, San Diego, Calif., the mission of the Program Executive Office for Command, Control, Communications, Computers, and Intelligence (PEO C4I) is to provide integrated communications and information technology systems that enable Information Dominance and the command and control of maritime forces.

Vision: Information Dominance; Anytime Anywhere....
Undersea Architecture

Communications Channels

- Acoustic
- Electromagnetic
- Full Spectrum RF
- Free Space Optical Communications
- Hard Connection
- Gateway
Author’s contact info for questions

Authors:

Amanda George: amanda.george@navy.mil

Dr. LorRaine Duffy: lorraine.duffy@navy.mil

George Galdorisi: george.galdorisi@navy.mil