

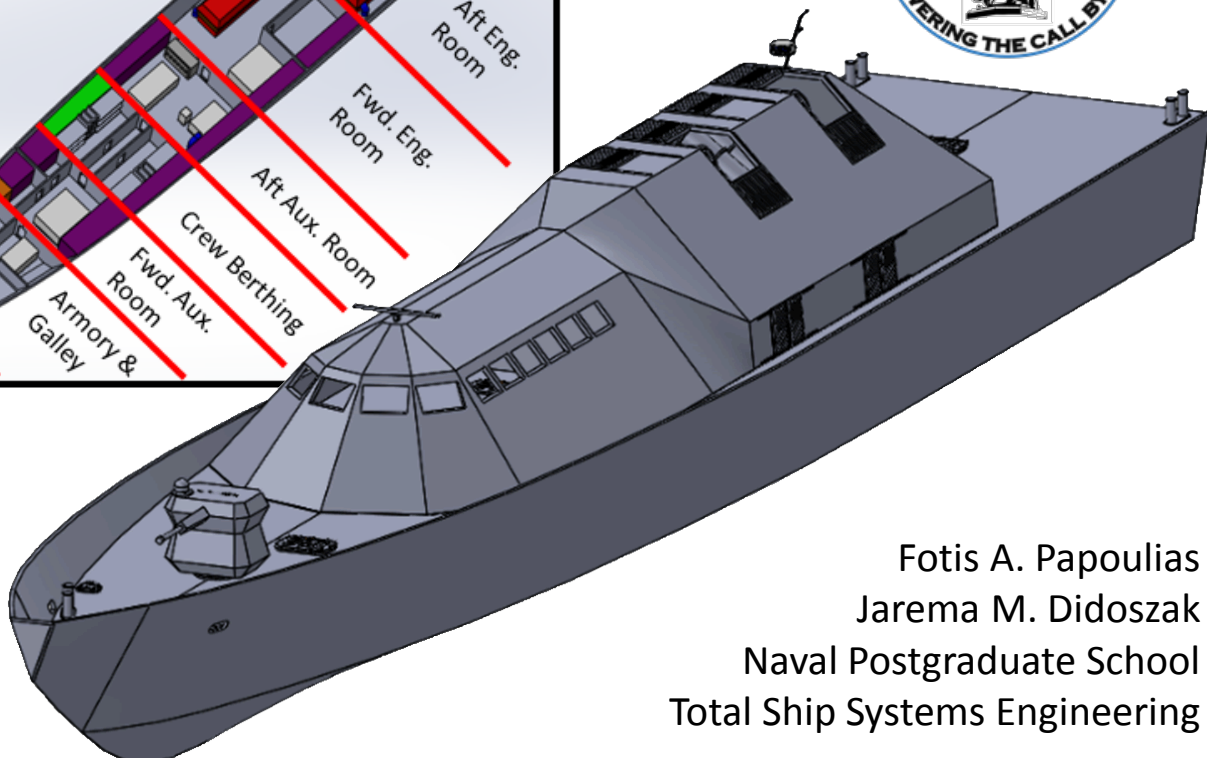
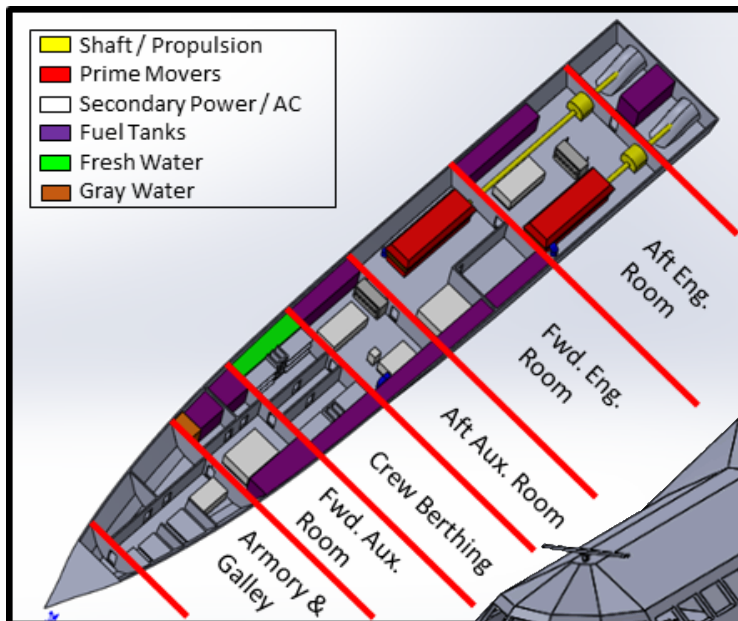
Minutemen Class Vessel

Objectives:

- *Sea control traditionally provided by capital ships is increasingly difficult as advanced sea-denial strategies reduce global maritime security.*
- *Distributed lethality has the ability to overcome these challenges by forcing adversaries to disperse their defenses into a countering position.*
- *In order to accomplish this mission, a conceptual design of an affordable surface vessel capable of offensive surface operations for sea control is required.*

Solution:

- *Small groups of quick and effective, low cost missile boats, capable of operating on the forward edge within the littorals to keep the enemy at bay is conceived as the design solution --- we present the **Minutemen Class Missile Boat**.*



Fotis A. Papoulias
 Jarema M. Didoszak
 Naval Postgraduate School
 Total Ship Systems Engineering

Ship Characteristics

- Hull Type: Planing monohull
- Material: Aluminum
- Length (LOA): 51.2 m (168 ft)
- Beam: 8.48 m (27.8 ft)
- Draft: 1.57 m (5.2 ft)
- Freeboard: 2.1 m (6.9 ft)
- Displacement: 316 MT (311LT)
- Shaft Power: 12,000 kW (16,100 Hp)
- Service Speed: 18 knots
- Max Speed: 40 knots
- Manning: 12 crew, +17 additional personnel
- Cost: \$53 million (vessel only)
- Total Cost: \$88 million (Approx.)

Deployment Concepts:

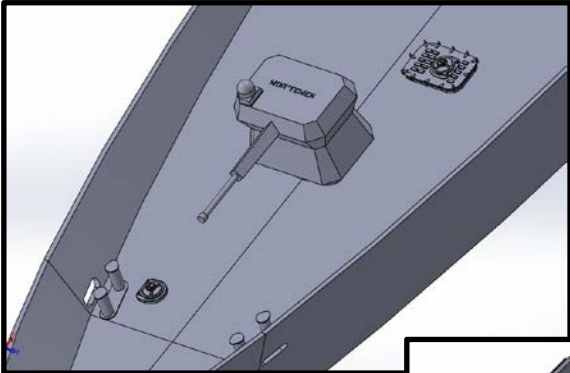
- Forward Operating Base
- Tender / Mothership
- Afloat Forward Staging Base

Employment Concepts:

- Large Squadron Swarm Tactic:
 - Variable size (2-8) task units
 - Overwhelm adversary
- Element Deception
 - 1-2 vessel elements
 - Utilize geography and small size for deception/cover
 - Engage and redeploy

Armament:

- 8 RGM-84 Harpoon, Block 2+ ER
- 1 MK 38 Mod 3



Weapons Systems

