

Aegis BMD Update to the National Defense Industrial Association & Strike, Land Attack, and Air Defense Division 14 July 2011



Purpose

Aegis BMD

Aegis Ballistic Missile Defense Update with Insight into the State of the European Phased Adaptive Approach and Aegis Ashore



U.S. Phased Adaptive Approach Contributes To NATO Missile Defense

Aegis BMD

Phase 1 (By 2011)

Initial capability against SRBMs, MRBMs, and IRBMs, enhanced homeland defense



Aegis BMD 3.6.1 with SM-3 IA



AN/TPY-2 (FBM)

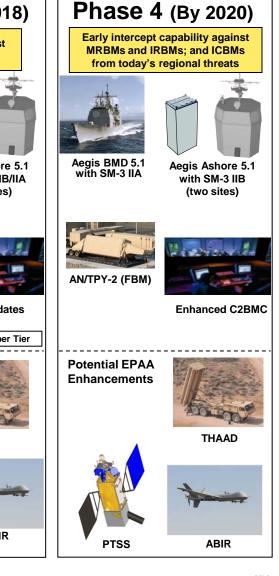


C2BMC AOC Ramstein

ALTBMD Interim Capability



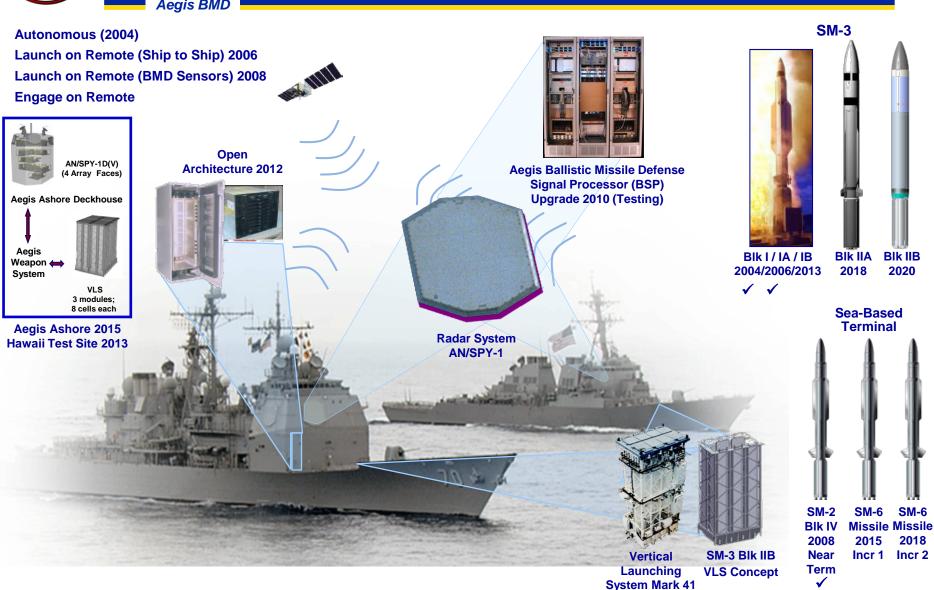






Aegis BMD Program

Aegis BMD

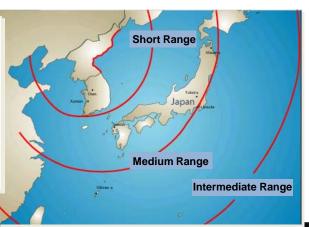




Aegis BMD's Role In The BMDS

Aegis BMD

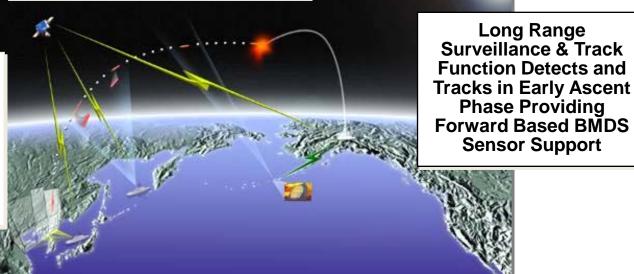
Ascent/Midcourse
Engagement
Capability
Defeats Short,
Medium &
Intermediate
Range Ballistic
Missiles



Terminal Defense Capability Defeats Shorter Range Ballistic Missiles

Future
Adding Early
Intercept
Capability

Anti-ICBM w/SM-3 Blk IIB (Aegis Ashore)



Proven Against Single Salvo, Dual Salvo & Separating Targets



Aegis BMD Fleet Today

(July 2011)

Aegis BMD SM-2 Blk IV Deliveries (75) Norfolk BMD Ships SM-3 Blk I Deliveries AAA FM-7 FTM-14 (2) **VELLA GULF** BARRY (FY11) **CY05** CY04 Stellar Daggers **MONTEREY** MAHAN (FY12) **RAMAGE** ROSS (FY12) SM-3 Blk IA Deliveries ARLEIGH BURKE (FY12) CY06 **STOUT** FTM-10 Delivered *COLE **DONALD COOK (FY12)** Procured *LABOON FTM-11 FTM-11a **CY07** FTM-12 FTM-13 (2) Mayport Based BMD Ship **SDGO BMD Ships** THE SULLIVANS **DECATUR CY08 BENFOLD** CARNEY (FY12) **MILIUS** CY09 **HIGGINS** FTM-17 **JOHN PAUL JONES PHBR BMD Ships CY10** LAKE ERIE (4.0.1 EDM) **YOKO BMD Ships Japan Maritime Self PORT ROYAL Defense Force SHILOH RUSSELL KONGO** FTM-15 **STETHEM** SM-3 **CHOKAI** O'KANE **CURTIS WILBUR** Block IA **MYOKO PAUL HAMILTON** JOHN S. MCCAIN

FITZGERALD

* Not Yet Certified

KIRISHIMA

SM-3 Block IB

HOPPER



EPAA Phase I:

USS MONTEREY Deploys to Mediterranean Sea

Aegis BMD

- First PAA Phase I Deployment
 - Arrived on station 5 April 2011; assigned Ballistic Missile Defense as Primary Mission
 - Seven Month Deployment
 - Port Visit in Constanta, Romania 06-09
 June 2011





USS MONTEREY has:

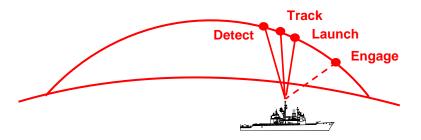
- Been on station 101 days as the ATLANTIC Sentry Unit
- Updated and refined PAA related tactics, techniques and procedures
- Hosted a Reception and Ship Tours with Teodor Baconschi, Minister of Foreign Affiars; Mircea Geoana, President of the Senate



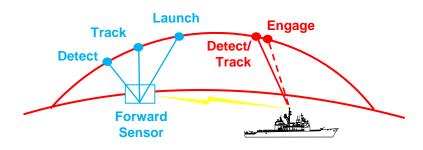
Aegis BMD Concepts of Operation Exploiting Off Board Sensors

Aegis BMD

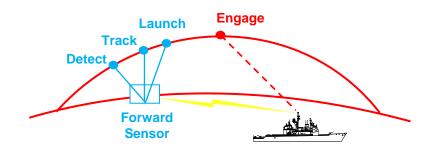
Autonomous Cued



Launch on Remote

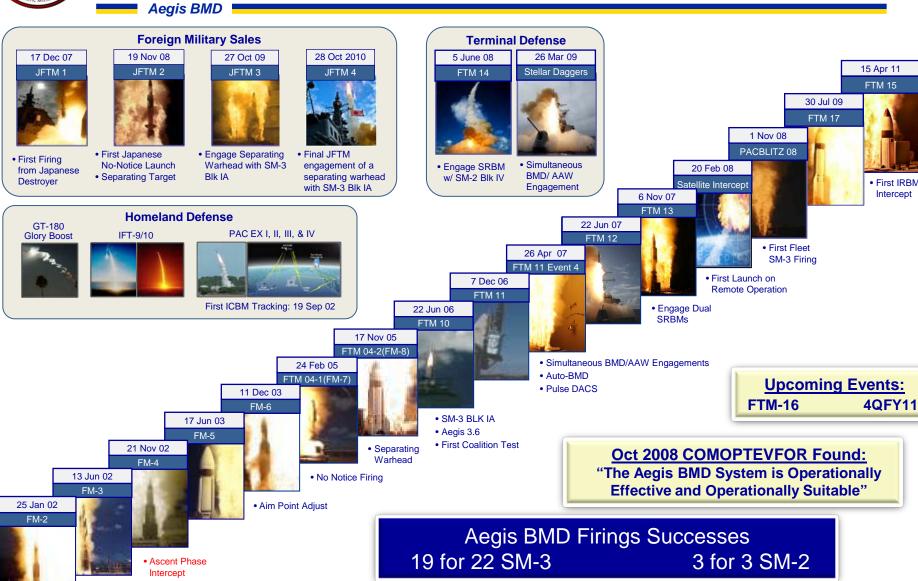


Engage on Remote





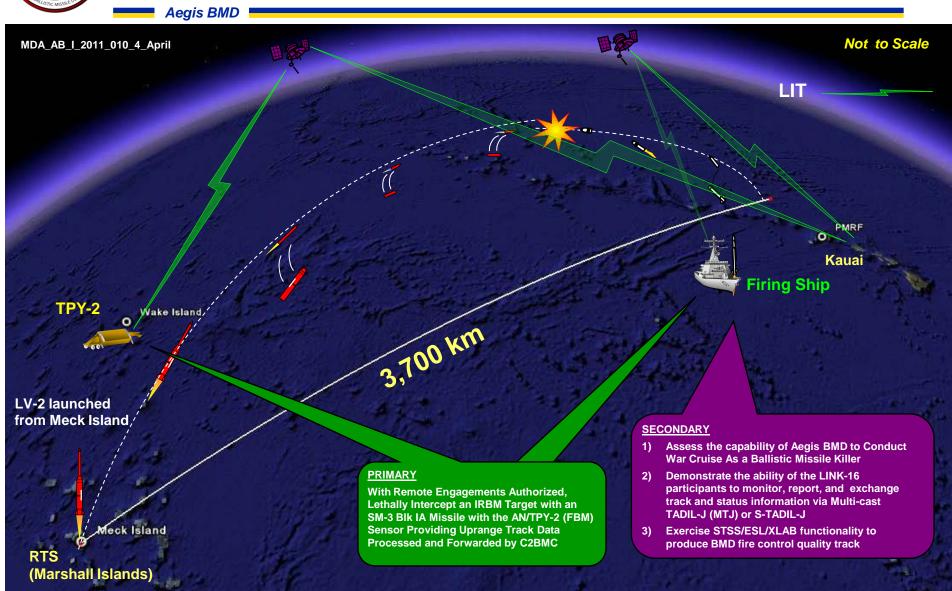
Aegis BMD Firing Operations



AB2011CC001



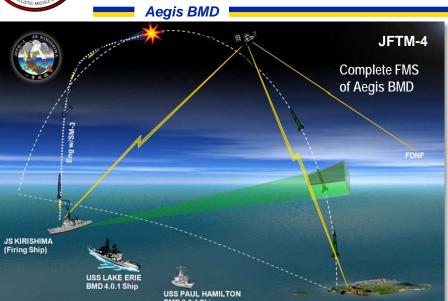
FTM-15 Mission Scenario and Objectives

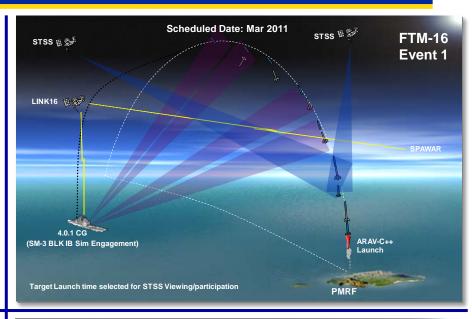


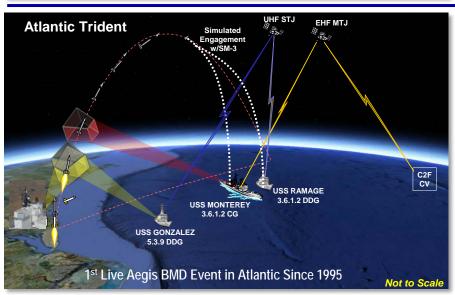


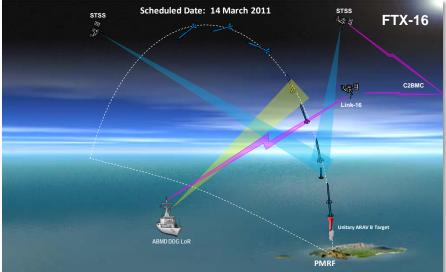
FY11 Major At-Sea Test Operations

- Complete Through March 2011-











Aegis Ashore Missile Defense Site

Aegis BMD



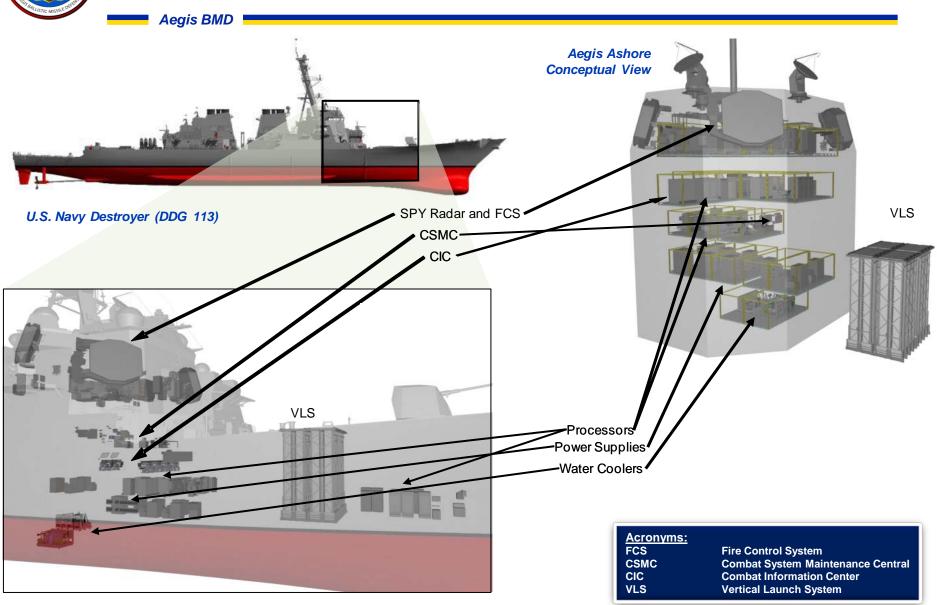
Aegis Ashore Conceptual Drawing

Aegis Ashore
Proposed Laydown
at Romanian Site





Aegis BMD Transition From Sea To Ashore





Aegis BMD Life Cycle Management Process

Aegis BMD

- Deputy Secretary of Defense Memorandum, 10 June 2011 defines funding responsibilities for BMDS elements:
 - MDA is responsible for funding research, development, test/evaluation for BMDS capabilities, and procurement and sustainment of BMD-specific mission equipment and initial spares
 - Following initial fielding of a BMDS element, MDA will fund the first two years of operations for BMD-specific mission equipment
 - MDA will fund construction of mission essential facilities and security infrastructure
- Supersedes 2007 Transition & Transfer Memorandum as approved by Deputy Secretary of Defense governing O&S support of prior agreements between MDA and Navy

Israel tests

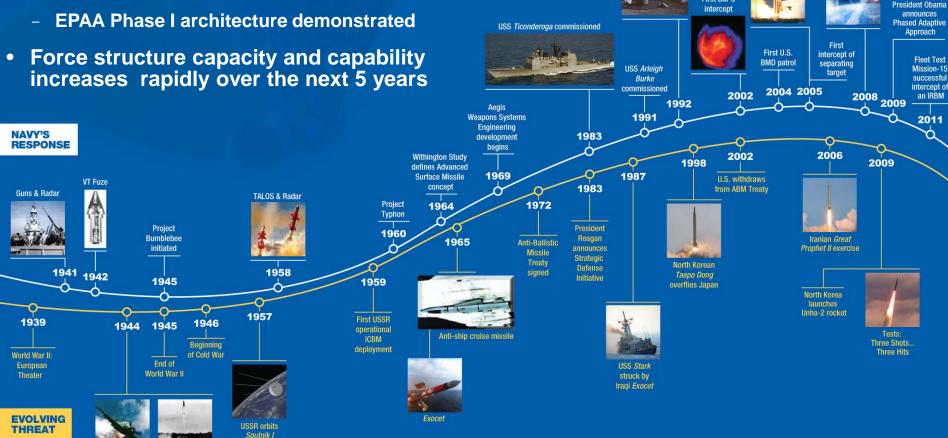
Arrow Missile

First SM-3

Operation Burnt

Frost: Satellite

- Aegis BMD capability is at sea
- Aegis BMD is operationally suitable and effective
 - Demonstrated ability to defeat short, medium and intermediate range ballistic missiles



This success story began in the 1940s, and we are just getting started ...

SM/LEAP

on cities



Aegis Ballistic Missile Defense

Aegis BMD



Enabling Capabilities, Providing Options for U.S. and Allies