Von Braun Memorial Symposium

BG Timothy R. Coffin

Deputy Commanding General for Operations

Oct. 17, 2012
The sun never sets on USASMDC/ARSTRAT

Secure the High Ground

Organization

Commanding General

Personal Staff

Command Sergeant Major

Deputy to the Commander

ACC – R (CAMO)

Chief Technology Officer

Chief of Staff

Special Staff

INQ

HHC

Director

Future Warfare Center

Capability Development

- Battle Lab (BL)
- Directorate of Capability Development (DCD)
- Directorate of Training and Doctrine (DOTD)
- Decision Support Directorate (DSD)
- TRADOC Capability Manager (TCM) for Space & Global Missile Defense (S&GMD)

Director Technical Center

Material Development

- Space & Cyber Space Technology Directorate
- Emerging Technology Directorate
- Rapid Transition
- US Army Kwajalein Atoll (KWA) and Reagan Test Site (RTS)

Deputy Commanding General - Operations

Operational Forces
- 1st Space Brigade
- 100th Missile Defense Brigade (GMD)
- Astronaut Detachment
- Army Space Personnel Development Office (ASPDO)

Three Core Tasks:

- Provide trained and ready Space and Missile Defense forces and capabilities to the Warfighter and the Nation (today)
- Build future Space and Missile Defense forces (tomorrow)
- Research, test, and integrate Space, Missile Defense, cyber, directed energy, & related technologies (day-after-tomorrow)

Personnel:

- 1,688-Military (995AC, 313 AR, 321 NG)
- 926-Department of the Army Civilians
- 2,790-Contractors

“Three Hats”

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Space in Support of Army Warfighting Functions

- Army’s Warfighting Functions rely on space capabilities for mission success
  - Mission Command, Movement and Maneuver, Fires, Intelligence, Sustainment, Protection

- Space provides SATCOM, PNT, ISR, Missile Warning, Environmental Monitoring, Space Control; and enables:
  - Mission command, common operating picture, operational planning
  - Force tracking, precision maneuver, tempo of operations
  - Precision fires, air and missile defense
  - Intel collection and dissemination
  - Logistics planning/trackling
  - Force protection, situational awareness

- Supports all aspects of unified land operations

"Army space capabilities are combat multipliers that enable all six Warfighting Functions" -- Army Space Operations White Paper
The Army’s Challenges – People and Budget

Path to Readiness

- Training and education to shape workforce
- Reduction of grade requirement
- Increase promotion selectivity/Time in Grade

Army Budget ($B)

$202.9 billion enacted in FY 12
$184.6 billion requested in FY 13

Active Duty Soldiers

Active Army to reduce by 80,000 Soldiers over five years
The Army’s Challenges – Geography and Technology

Challenge

• Strategic shift to Asia-Pacific
• Fewer forward-deployed forces
• Anti-access area denial environment

SMDC/ARSTRAT Response

• Relocated and upgraded wideband SATCOM ops center
• 24/7/365 Reach back
• Missile warning assets in multiple geographic theaters
Having the Home Field Advantage

Objective

• Regional alignment
• Rotational forces
• International partnerships
• Tactically driven comms and ISR

Implementation

• Regional SATCOM Support Centers
• Army Space Support Teams and Commercial Imagery Teams
• SATCOM cooperation with 10 nations
• SMDC Nanosat Program/Kestrel Eye
Responsive Space Initiatives

Army Space-Based Maneuver: Satellite Capabilities Tailored to Mission Requirements

**Battle Command**
- 5kg Mass Cubesat - $500K Each
- Data Exfil / Over-The-Horizon Comms
- 8 Block I Satellites Built in One Year
  - 1st Launch 8 Dec 2010
  - OUTSat Launch 13 Sep 2012

**Surveillance and Reconnaissance**
- 15 kg Mass - $1M Each
- 1.5m Imagery Resolution
- Tasked from Theater
- Block I Launch 2013
- Approved JCTD

**Assured Access**
- Low-Cost Launch Capability - $1M per Vehicle
- Target Vehicle, Sensor Testing, Sounding Rocket
- Responsive Nanosat Orbital Launch
- Innovative yet Simple Design Approach
- Approved SWORDS JCTD

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