



# ***Space Superiority Systems Wing***

*SYSW Vision:*

*"One team controlling the ultimate high ground."*

**Colonel Don Wussler  
Vice Commander  
18 April 2007**



# *Space Superiority Systems Wing*

## **Mission:**

**We develop, deliver, and sustain unrivaled space control capabilities to guarantee space superiority for our nation**

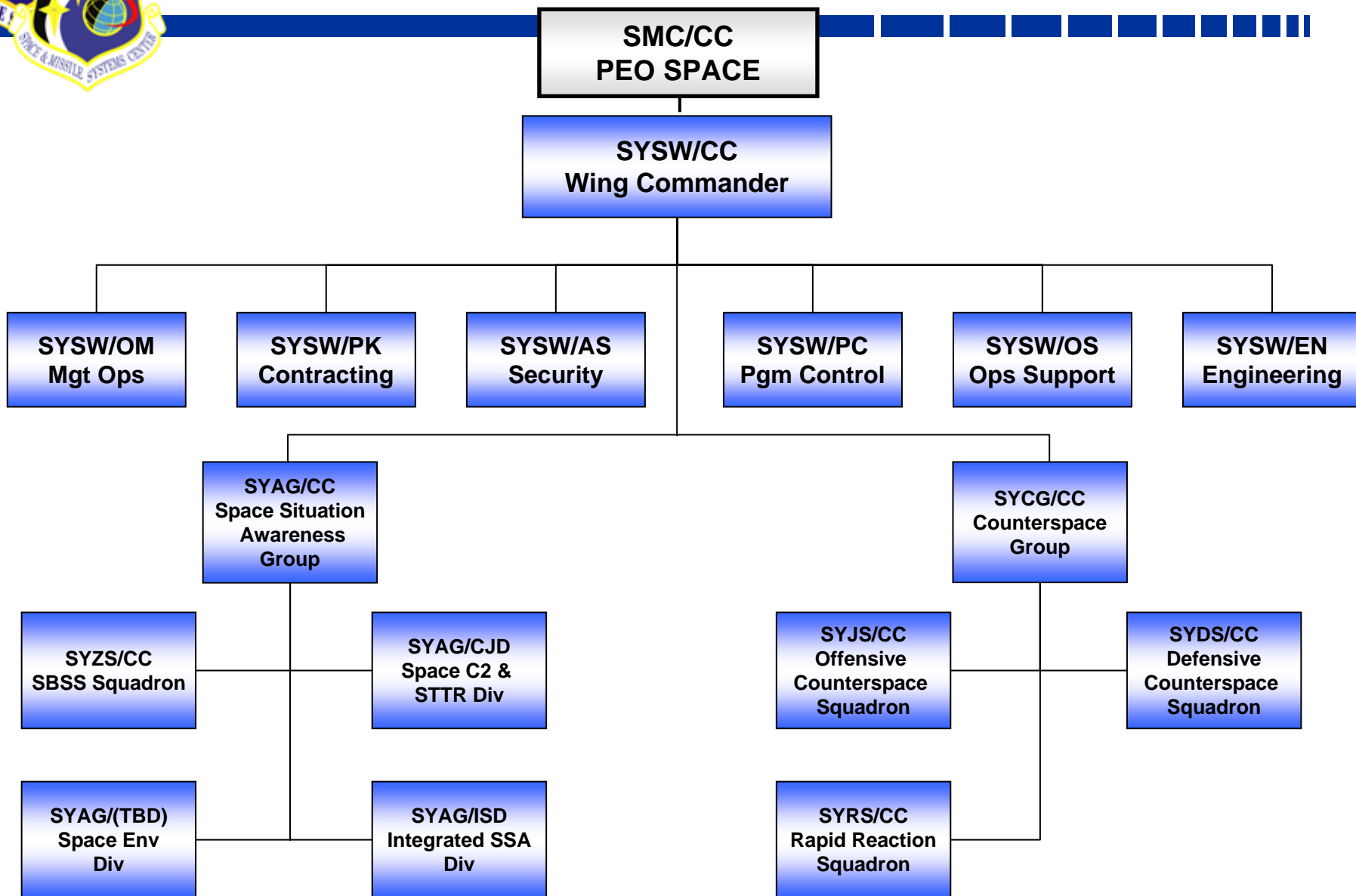


***Colonel Michael Taylor  
Wing Commander***



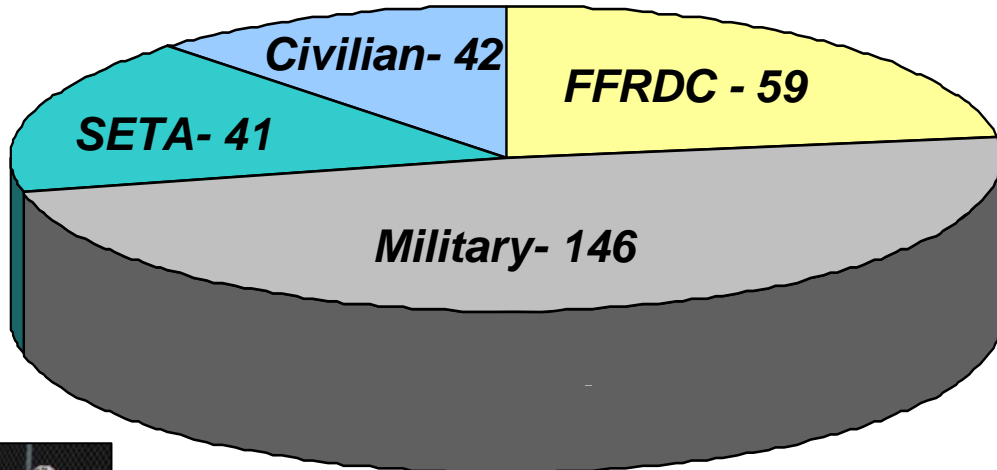


# SYSW Organization





# SYSW Personnel and Staffing



SMC Industry Day 2007



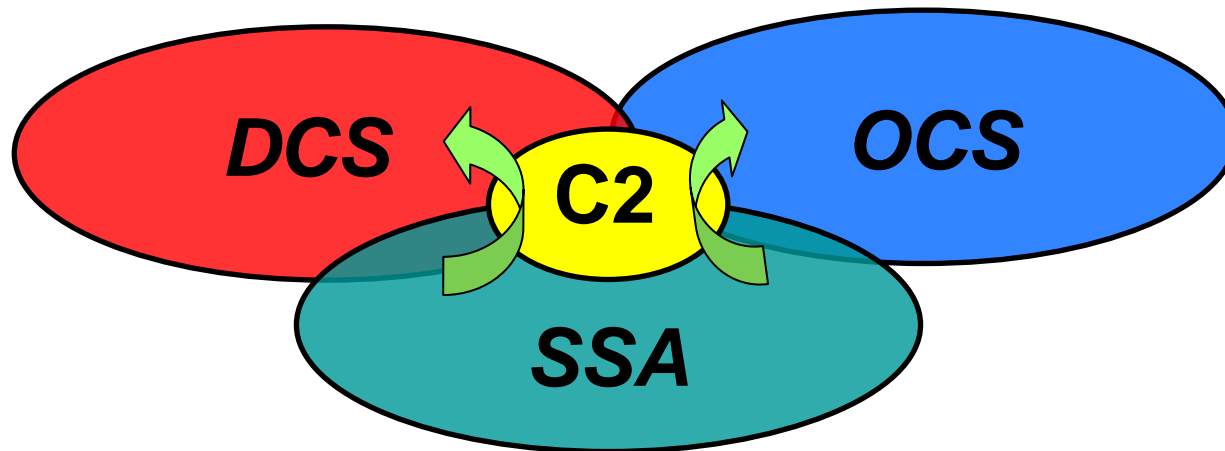
# Space Superiority

## Defensive Counterspace (DCS)

Operations to preserve US/allied ability to exploit space to its advantage...to protect friendly space-related capabilities from attack

## Offensive Counterspace (OCS)

Operations to preclude an adversary from exploiting space to his advantage



## Space Situation Awareness (SSA)

Knowledge of space objects, status, activities, threats and environment to enable courses of action

## Command and Control (C2)

The exercise of authority and direction by a properly designated commander over assigned and attached forces in the accomplishment of the mission

**Integrated SSA and C2 are a Necessary Enabler of Space Superiority**



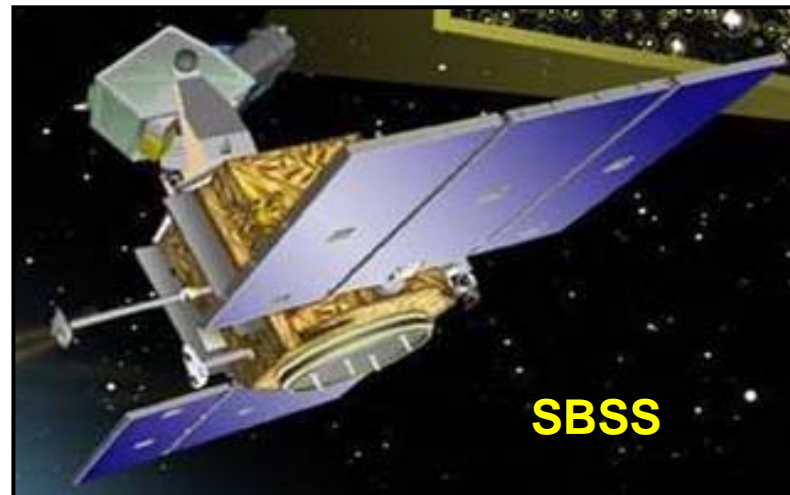
# Space-Based Space Surveillance (SBSS)

## Warfighter Objectives

- Attain/maintain space order of battle
  - Find, fix & track objects
- Conduct threat determination and defensive counterspace strategies
  - Timely detection, identification and tracking

## SBSS Capabilities

- Provide all-weather, day & night near real-time SSA
- Search for lost/unknown space objects in deep space
- Collect positional and Space Object Identification (SOI) data



## Program Status

- Block 10
  - Launches Dec 08
- Objective System
  - KDP-A TBD

## Operational Effect

- Supports intel prep of the battlespace
- Enables OCS and DCS operations



# Rapid Attack, Identification, Detection, & Reporting System (RAIDRS)

## Warfighter Objectives

- Conduct Defensive Counterspace (DCS) operations
  - Ensure US & coalition freedom of access to space effects
  - Employ passive and active defense measures

## RAIDRS Capabilities

- Detect, Identify, Characterize, Geolocate, and Report events against space assets to enable OCS & DCS operations
  - Block 10: RFI events
  - Block 20: Direct-assent ASAT, co-orbital ASAT, Laser events



## Program Status

- Block-10:
  - Increment 1 in Integration & Testing
  - IOC Dec 2008 – FOC 2011
- Block-20:
  - Requirements refinement and analysis ongoing
  - KDP-B in FY09

## Operational Effect

- Understand threats to our space assets
- Enable OCS and DCS operations



# Counter Communications System (CCS)

## Warfighter Objectives

- Denial and disruption of adversaries ability to command & control forces
- Denial and disruption of adversaries ability to conduct information ops

## CCS Capabilities

- Deny adversary IADS
- Deny satellite services (fixed, broadcast)
- Electronic support capabilities
  - Initial BDA, etc.



## Program Status

- Block 10
  - Three systems operational
  - AF procuring four additional systems
- Block 20
  - Preparing for KDP-A/B FY08

## Operational Effect

- Prevents adversary from exploiting space

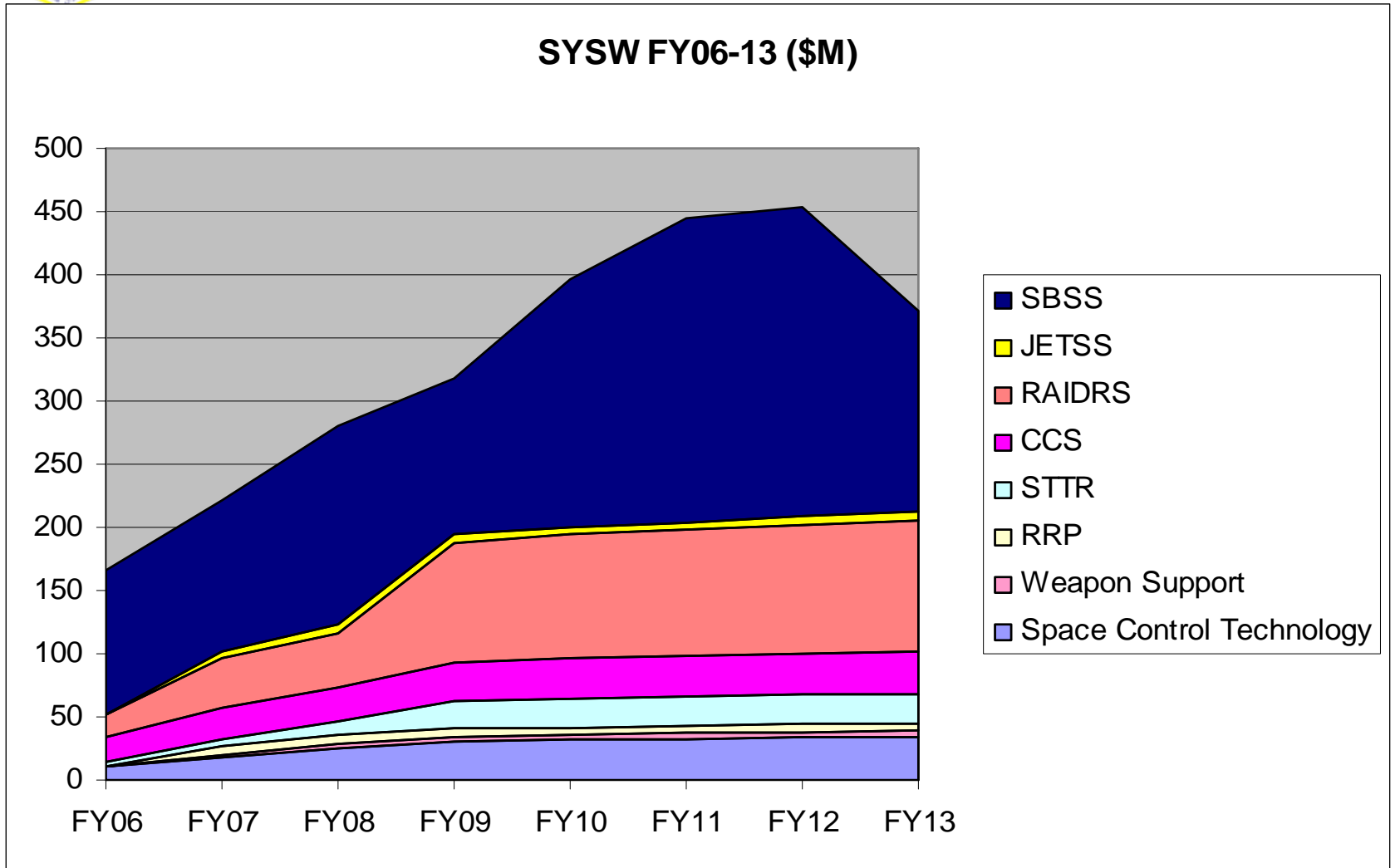


# SYSW Program Schedule

	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13
<b>SBSS Block 10 Milestones</b>	IPA/ICE	CDR IBR	IPA/ICA	Launch	IOC			
<b>SBSS Block 20 Milestones</b>				KDP-A	KDP-B		KDP-C	
<b>RAIDRS Block 10 Milestones</b>	PDR	CDR	KDP-C	IOC		FOC		
<b>RAIDRS Block 20 Milestones</b>				KDP-B	KDP-C		IOC	FOC
<b>CCS Block 10 Milestones</b>	Contract Award		S1	S2 S3 S4	FOC			
<b>CCS Block 20 Milestones</b>				KDP-B	KDP-C	Follow-On Build Approval		



# SYSW Budget





# *Near-term Priorities*

## **SBSS Block 10**

- **Maintaining Dec 08 launch date for SBSS Block 10**

## **RAIDRS**

- **Achieve IOC for Block-10 System by Dec 08**
- **Prototype and refine requirements to release RFP for Block-20 System development in mid-FY08**

## **CCS**

- **Deliver additional Block 10 CCS systems**
- **Continue to plan for Block 20 KDP**



# *Future Business Opportunities*

- **SBSS is assessing multiple paths to objective capability**
  - **Industry day planned for June 07**
- **RAIDRS Block 20 System Development Contract in FY09**
- **CCS Block 20 – enhance capability through out FY08 to FY12**



# *Future Business Opportunities*

- **Space Control Depot Support Contract - FY08**
  - CCS, RDGS-0/1, STTR, RRC Transition, etc.
  
- **Space Control C2 Support Contract - FY09 (tentative)**
  - JETSS
  
- **Depot Support Contract - FY10 (based on new systems)**
  - SBSS, etc.



# Summary

- **Space Superiority is a growing mission area**
- **Full support of USecAF and AFSPC/CC**
- **Numerous acquisition opportunities**

**“Dependence on space assets creates vulnerabilities to a growing threat. It’s clear that [the threat] is growing and that demands we protect our assets...by achieving what we call ‘space superiority’...which is very simply uninterrupted access to and use of space.”**

**-- Maj Gen William L. Shelton, 14AF/CC, Nov 06**



# ***SYSW Contact Info***

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# BACKUP CHART



# *Space Control Depot Support*

- **Space Control Depot Support (SCDS )**
  - **Establish “one stop shop” for depot support**
  - **Create contracts for “like systems” (e.g. deployable, fixed-site, etc.)**
  - **Compete contract with caveat that additional work will be added as systems are fielded**
  - **Stipulate in contract that Prime has to perform certain % of work**
  - **Use the Prime Contractor approach (CLINs)**
    - **1 yr with at least four 1 yr options**
    - **Capable of executing 3400, 3600, and 3080 funds**
    - **Base contract:**
      - **Depot and Sustaining Engineering**
      - **System Upgrades & Modifications**
      - **Studies & Analysis**
      - **RRC transition**
  - **Contractor will be required to partner with organic dept**