Navstar GPS - Operational Control Segment Future System Description



Schriever AFB, CO

- New Master Control Station (NMCS)
 - Improved operator interfaces
 - IIR-M and IIF capabilities
- Integrated Mission Ops Support Center
- Operational Support System
- GPS Support Facility
- Launch and Early Orbit, Anomaly **Resolution and Disposal Operations** (LADO) System
- System Simulator (crew training)



Vandenberg AFB, CA

- Crew Training Emulator
- System Simulator (AMCS)





S-Band



▲ GPS Ground Antennas





Cape Canaveral, FL



- Transportable Ground Antenna
- **Alternate Master Control Station (AMCS)**

- Test Assets
 - System Telecom Simulator (IIF)

GPS User Equipment







- 1. Combat Survivor Evader Locator (CSEL)
- 2. GPS Receiver Applications Module (GRAM) with SAASM
- 3. Selective Availability Anti-Spoofing Module (SAASM)
- 4. Precision Lightweight GPS Receiver (PLGR)
- FRPA Ground Plane
- 6. Standard Control Display Unit
- 7. Receiver 3S
- 8. GPS Antenna System (GAS) -1
- 9. Controlled Radiation Pattern Antenna
- 10. Fixed Radiation Pattern Antenna (FRPA)
- 11. Miniature Airborne GPS Receiver (MAGR)
- 12. Receiver OH (MIL-STD-1553)
- 13. Receiver UH (ARINC 429)
- 14. Receiver 3A
- 15. Antenna Electronics AE-4
- 16. Antenna Electronics AE-1/AE-1A
- 17. Embedded GPS / Inertial Navigation System
- 18. Doppler-GPS Navigation System

Capabilities to meet warfighter position, velocity, and timing requirements plus system expertise for warfighters