Space Force Capabilities

GEO
Geostationary Earth Orbit
22,000 miles
Optimal for Continuous Earth Coverage

MEO
Medium Earth Orbit
1,200 – 22,000 miles
Optimal for Global Positioning, Navigation and Timing

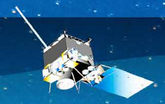
LEO
Low Earth Orbit
1,200 miles
Optimal for Earth Sensing

Global Communications

Space Domain Awareness

Position, Navigation and Timing

Weather



Space Domain Awareness

HEO
Highly Elliptical Orbit
1,200 – 22,000 miles
Optimal for Extended Polar Coverage

Missile Warning and Battlespace Awareness

CSpOC
Executes the operational command and control of space forces to achieve theater and global objectives

Cyber MDTs
Provide specialized cyber defense to space weapon systems throughout the portfolio

Global Satellite Control
Satellite Control Network

- BOSS — New Boston SFS
- LION — RAF Oakhanger
- COOK — Vandenberg SFB
- POGO — Thule AB
- GUAM — Micronesia
- REEF — Diego Garcia
- HULA — Hawaii

Ground-Based
Space Domain Awareness

- GEODSS — Diego Garcia, Maui, Socorro
- Space Fence — Kwajalein Atoll
- Eglin Radar — Eglin AFB
- Space Surveillance Telescope — Australia
- C-Band Radar — Australia

Missile Warning / Defense Radar

- UEWR — Cape Cod SFS
- UEWR — Thule AB
- UEWR — Beale AFB
- UEWR — Clear SFS
- PARCS — Cavalier SFS
- UEWR — RAF Fylingdales
- Cobra Dane — Eareckson AS

Space Electronic Warfare

- CCS 10.2
- Multi-Mission Platform 2.0
- Bounty Hunter 2.0

Launch Operations

- Space Launch Delta 30 — Vandenberg SFB
- Space Launch Delta 45 — Cape Canaveral SFS