

Space Mission Areas Force Enhancement Support Control Force Application	the Sun Fueled by Nuclear Fusion Has the biggest effect on the Space Env't By-product is Electromagnetic Radiation By-product is Electrically Charged Particles	2 Space Launch Facilities Vandenberg Air Force Base, California Cape Canaveral Kennedy Space Center, Florida	Global Positioning System - GPS Global Navigation Satellite System
Components of EOP Universal Time Coordinates of the Pole Celestial Pole Offsets	Network Synchronization Keeps GPS computers automatically updated and on the exact same time	Advantages of Space ISR Coverage of AOIs w/o detection and w/o sanctions More Precise Targeting Enhanced Planning from Imagery	Advantages of GPS Accuracy Accessibility Graceful Degradation Jamming Anti Spoofing
Astrometry Relates to Precise Measurements and explanations of the positions and movements of stars and other celestial bodies	Key Objectives of SSA Ensure Space Operations and Spaceflight Safety Implement Int'l Treaties and Agreements Protect Space Capabilities Protect Military Operations and Nat'l Interests	Medium Earth Orbit - MEO 22, 300 miles above the Earth Between LEO and GEO orbits Offer better Round-trip Time than GEO satellites	High Earth Orbit - HEO Higher than 22,300 miles above the Earth Useful for Communications Satellites
Atmospheric Drag Causes Satellite Errors Results from Expansion of Atmosphere Atmosphere expands due to Bombarding of charged Particles	Disadvantages of Space ISR Access Limitations Predictable Fly-over Schedule Atmospheric Disturbances & Weather Administrative Limitations	Components of SSA Intelligence Surveillance Reconnaissance Environmental Monitoring Space Common Operating Picture	Van Allen Radiation Belts Impacts Comms Satellites in Geosynchronous Satellite Orbit
Space Situational Awareness - SSA Current and predictive Knowledge of everything happening in the space environment relating to space operations	Polar Orbit Passes over the Entire surface of the Earth Imagery Satellites 90 degree inclination	GPS Satellites 21 Active, 3 Spare Each contains: Computer, Atomic Clock, Radio Receiver on the Ground Triangulates w/ 3 Satellites	Earth Orientation Parameters - EOP Describes Earth's Irregularities due to uneven rotation by providing Earth's rotation as a function of time
Geosynchronous Orbit A satellite that completes one revolution per day (e.g. the moon) Ineffective at the Poles Used for some communications	Low Earth Orbit - LEO 150 to 800 miles above the Earth	Solar Winds Stem from the Sun's Corona and are Responsible for Geomagnetic Storms that: Knock out Power Grids and cause the Auroras	Solar Cycle 11 year Cycle 4 year Rise to Maximum 7 year Decline to Minimum
			Geo-location Wireless detection of the physical location of a remote device



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Published 5th April, 2015.
 Last updated 13th May, 2016.
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