

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



By weatherman22

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