

# Cheatography

## EIDWS - SPACE Cheat Sheet

by weatherman22 via cheatography.com/20977/cs/3825/

<b>Space Mission Areas</b>	<b>the Sun</b>	<b>2 Space Launch Facilities</b>	<b>Global Positioning System - GPS</b>
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			
Force Application	By-product is Electromagnetic Radiation		
<b>Components of EOP</b>	<b>Network Synchronization</b>	<b>Advantages of Space ISR</b>	<b>Advantages of GPS</b>
Universal Time	Keeps GPS computers automatically updated and on the exact same time	Coverage of AOIs w/o detection and w/o sanctions	Accuracy
Coordinates of the Pole		More Precise Targeting	Accessibility
Celestial Pole Offsets		Enhanced Planning from Imagery	Graceful Degradation
<b>Astrometry</b>	<b>Key Objectives of SSA</b>	<b>Medium Earth Orbit - MEO</b>	<b>Jamming</b>
Relates to Precise Measurements and explanations of the positions and movements of stars and other celestial bodies	Ensure Space Operations and Spaceflight Safety	22, 300 miles above the Earth	Anti Spoofing
	Implement Int'l Treaties and Agreements	Between LEO and GEO orbits	
	Protect Space Capabilities	Offer better Round-trip Time than GEO satellites	
	Protect Military Operations and Nat'l Interests		
<b>Atmospheric Drag</b>	<b>Disadvantages of Space ISR</b>	<b>Components of SSA</b>	<b>High Earth Orbit - HEO</b>
Causes Satellite Errors	Access Limitations	Intelligence	Higher than 22,300 miles above the Earth
Results from Expansion of Atmosphere	Predictable Fly-over Schedule	Surveillance	Useful for Communications Satellites
Atmosphere expands due to Bombarding of charged Particles	Atmospheric Disturbances & Weather	Reconnaissance	
	Administrative Limitations	Environmental Monitoring	
<b>Space Situational Awareness - SSA</b>	<b>Polar Orbit</b>	Space Common Operating Picture	
Current and predictive Knowledge of everything happening in the space environment relating to space operations	Passes over the Entire surface of the Earth		
	Imagery Satellites	<b>GPS Satellites</b>	<b>Van Allen Radiation Belts</b>
	90 degree inclination	21 Active, 3 Spare	Impacts Comms Satellites in Geosynchronous Satellite Orbit
<b>Geosynchronous Orbit</b>	<b>Low Earth Orbit - LEO</b>	Each contains: Computer, Atomic Clock, Radio	
A satellite that completes one revolution per day (e.g. the moon)	150 to 800 miles above the Earth	Receiver on the Ground Triangulates w/ 3 Satellites	
Ineffective at the Poles			
Used for some communications		<b>Solar Winds</b>	<b>Earth Orientation Parameters - EOP</b>
		Stem from the Sun's Corona and are Responsible for Geomagnetic Storms that: Knock out Power Grids and cause the Auroras	Describes Earth's Irregularities due to uneven rotation by providing Earth's rotation as a function of time
			<b>Solar Cycle</b>
			11 year Cycle
			4 year Rise to Maximum
			7 year Decline to Minimum
			<b>Geo-location</b>
			Wireless detection of the physical location of a remote device



By weatherman22

cheatography.com/weatherman22/

Published 5th April, 2015.

Last updated 13th May, 2016.

Page 1 of 1.

Sponsored by [ApolloPad.com](https://apollopad.com)

Everyone has a novel in them. Finish

Yours!

<https://apollopad.com>