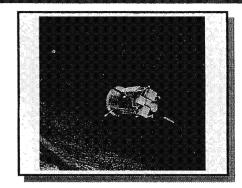
Technology for Autonomous Operational Survivability (TAOS)



Status

- Operational / Mar 94
- Design Life: 18 months
- Mean Mission Duration: 12 months

RF Coverage

- Band 1: 150 165 MHz
- Band 2: 380 430 MHz
- Band 3: 520 570 MHz
- Band 4: 720 800 MHz
- Band 5: 850 1050 MHz
- Band 6: 1050 2000 MHz
- Band 7: 2000 2250 MHz
- Band 8: 2670 3010 MHz
- Band 9: 3600 4200 MHz

•	NRO	Obje	ectives
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- Exploit Sensor Capability, Collect Foreign Space Surveillance Tracking Operations
- Assess Foreign Space Operations, Procedures, and Concepts
- "Map"

• Phillips Lab Experiments:

- J	Kec	educe Dependence on				
	>>					
	>>					
	22	Autonomous Navigation	1			

- » Advanced On Board Processing
- 8 10 Minute Area View Time Per Pass in Primary Area

	Capability
- 2 Autonomo	ous Navigation Systen

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SECRET/BYEMAN

POINT PAPER ON

TECHNOLOGY FOR AUTONOMOUS OPERATIONAL SURVIVABILITY (TAOS)

0	Background			
	- Phillips Laboratory experiment launched Mar 94, completed Jun 95 autonomous navigation exercise and refine US Space Command space control tactics - Used exclusively by intelligence community since Jun 95 NRO/SI-12 paying all O&M bills AFSPC/50SW performing satellite command and control functions at Falcon GTE performing radar data processing, analysis, and reporting			
0	Current Mission: Assess foreign space surveillance tactics, ops status, and threat			
	Users and missions NSA/W9W - space and weapons systems capabilities and vulnerabilities National Air Intelligence Center space surveillance; early warning radars air and space based ASAT and directed energy weapons Missile System Intelligence Center ABM; battle management radars ground based ASAT and directed energy weapons			
0	 Frequency only uninterrupted space surveillance and BMEW radar LEO collector only Moscow ABM battle management radar LEO collector Geometry half of mainbeam collection constellation only Pechora high elevation fence collector Uninterrupted, mainbeam collects help diasnose radar search/track methodology Phillips Lab cover still in place; not reported in Russian Warning Program 			
0	Vehicle Health: Several single point failures, but no signs of imminent failure			
	30 Apr 96 HANDLE VIA BYEMAN CHANNELS ONLY			

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