Agenda

- Situational Awareness
- Hostile Situational Awareness Threats and Solutions
- Inherent Situational Awareness Threats and Solutions
- MH-60M Blackhawk Current / Future SA Equipment
- End State - Balanced Situational Awareness
Situational Awareness

“In the complex and dynamic aviation environment, information overload, task complexity, and multiple tasks can quickly exceed the aircrew's limited attention capacity. The resulting lack of SA can result in poor decisions, leading to human error.”

Dr. Mica Endsley
Situational Awareness Technologies, 1995
Hostile SA Threats and Solutions

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<th>Threats to SOF Aviation</th>
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Inherent SA Threats and Solutions

Threats to SOF Aviation
- Visual Impairing Armor
- Brownout / Whiteout
- Obstacles / Wires / Terrain

Pending Solutions
- Transparent Armor Panels
- DVE
- DVE / Hazard Sharing Between Aircraft
MH-60M BLACKHAWK

- Dual Digital Automatic Flight Control System
- Common Avionics Architecture System (CAAS) Cockpit
- Secure Real-Time Video (SRTV)
- Joint Battle Command - Platform (JBC-P)
- Degraded Visual Environment (DVE)
- SAFEAIR / CDAS / GATM
- Transparent Armor Door Panels
- Hostile Fire Indicating System (HFIS)
- Multi-Mode Radar
- ARC-231 Radios
- AN/ZSQ-2 Advanced Electro-Optic Sensor System (EOSS FLIR)

Current

Suite of Integrated Radio Frequency Countermeasures (SIRFC)

Future

AN/AVR-2B Laser Detecting Set

UNCLASSIFIED
End State - Balanced Situational Awareness

- Develop Situational Awareness
- Maintain Situational Awareness
- Avoid Hostile Threat/ Avoid Crash
- Survive
- Complete Mission
Questions