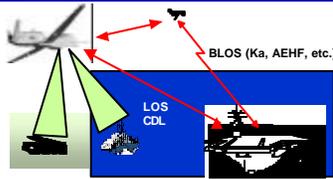


Navy Broad Area Maritime Surveillance (BAMS) UAV

Concept of Operations



Technology Description

- High Altitude, Long Endurance UAV designed to provide persistent Maritime Surveillance to Naval and Joint Forces within the emerging global command and control architecture
- Enhanced Battlefield Awareness
- Long dwell time in surveillance area
- Persistent revisit on targets of interest
- Multi-intelligence sensors co-located on same platform
- Reduced cross-cueing and targeting timeline
- Enhanced Multi-Int, Multi-Domain (Air, Surface, Subsurface) cueing
- Long-dwell tracking of Targets of Interest
- 360 SAR / ISAR/ MTI RADAR
- 360 EO/ IR
- SIGINT
- Communications relay

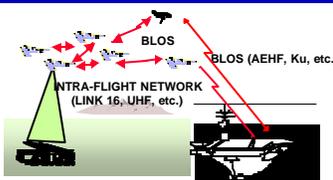
SSC San Diego Role

- Develop the C4I Support Plan
 - Interoperability and supportability
 - Determine specific and derived requirements
 - Identify shortfalls and recommend solutions
- Support the Analysis of Alternatives
 - Sensor and communications system trade studies
 - Payload performance modeling

BAMS – Flexible, Long-Dwell Maritime Surveillance

Navy Unmanned Combat Aerial Vehicle

Concept of Operations



Technology Description

UCAV system, which can prosecute persistent, sea-based Surveillance / SEAD / Strike missions within the emerging global command and control architecture. Mature the technologies required for highly autonomous multi-vehicle control, dynamic mission planning, sensor fusion, and targeting.

SSC San Diego Role

- Government Lead on Technical Support Team for C4I and Mission Control Systems Integration
 - Automated, interactive mission planning and replanning
 - Advanced communications and bandwidth mitigation
- Individual teams supporting each KTR

Capability / Value to Warfighter

- Mission Effectiveness
 - Reduced Cost per Kill
 - Reduction in Manned Aircraft Losses
 - Enhanced Battlefield Awareness
- New Paradigm in Air System Affordability
 - Reduced Acquisition Costs (URF<1/3 JSF)
 - Dramatically Lower O&S Cost (>50% Reduction)

UCAV-N, Survivable Day-One Deep Strike and Surveillance

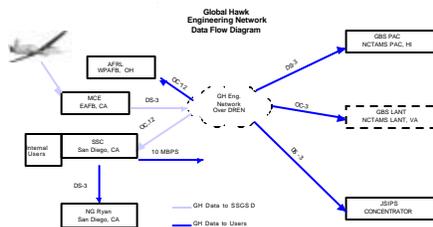
Global Hawk Communications

Technology Description

- Provides quick distribution of Global Hawk test data to forces afloat
- Provides access to Global Hawk test imagery during exercises, e.g., FBES, JEFXs
- Demonstrates joint Navy/Air Force capability to pass and receive Global Hawk data

SSC San Diego Role

- Provide communications expertise and connectivity to pass GH data from the Mission Control Element (MCE), via SSC San Diego, to numerous joint users and GBS.
- Provide a special multi-level secure communications path for GH data distribution to a national systems user.
- Assist the development of GH imagery dissemination architecture for OEF and IRAQI FREEDOM.



Global Hawk Communications Development