

Surveillance and Broadcast Services

Alaska Industry Council

By: FAA, WSA

Date: March 12, 2008



Federal Aviation
Administration



AGENDA

- Opening Remarks - Jere Hayslett
- Siting Analysis – Carl Gleason
- Technical Update/Implementation – Jere Hayslett
- AIC Update – Karen Casanovas
- Activities in the Gulf of Mexico – Jere Hayslett
- Round Table



Congratulations!

- To the FAA's Safe Flight 21 team for winning a Laureate award from *Aviation Week & Space Technology*.
- The 2007 Collier Trophy, one of the most prestigious awards in all of aviation was also awarded to the Safe Flight 21 team and a coalition of private and public-sector groups for the development of ADS-B technology.
 - **Established in 1911, the Collier Trophy is awarded for “the greatest achievement in aeronautics or astronautics in America, with respect to improving the performance, efficiency, and safety of air or space vehicles, the value of which has been thoroughly demonstrated by actual use during the preceding year.”**



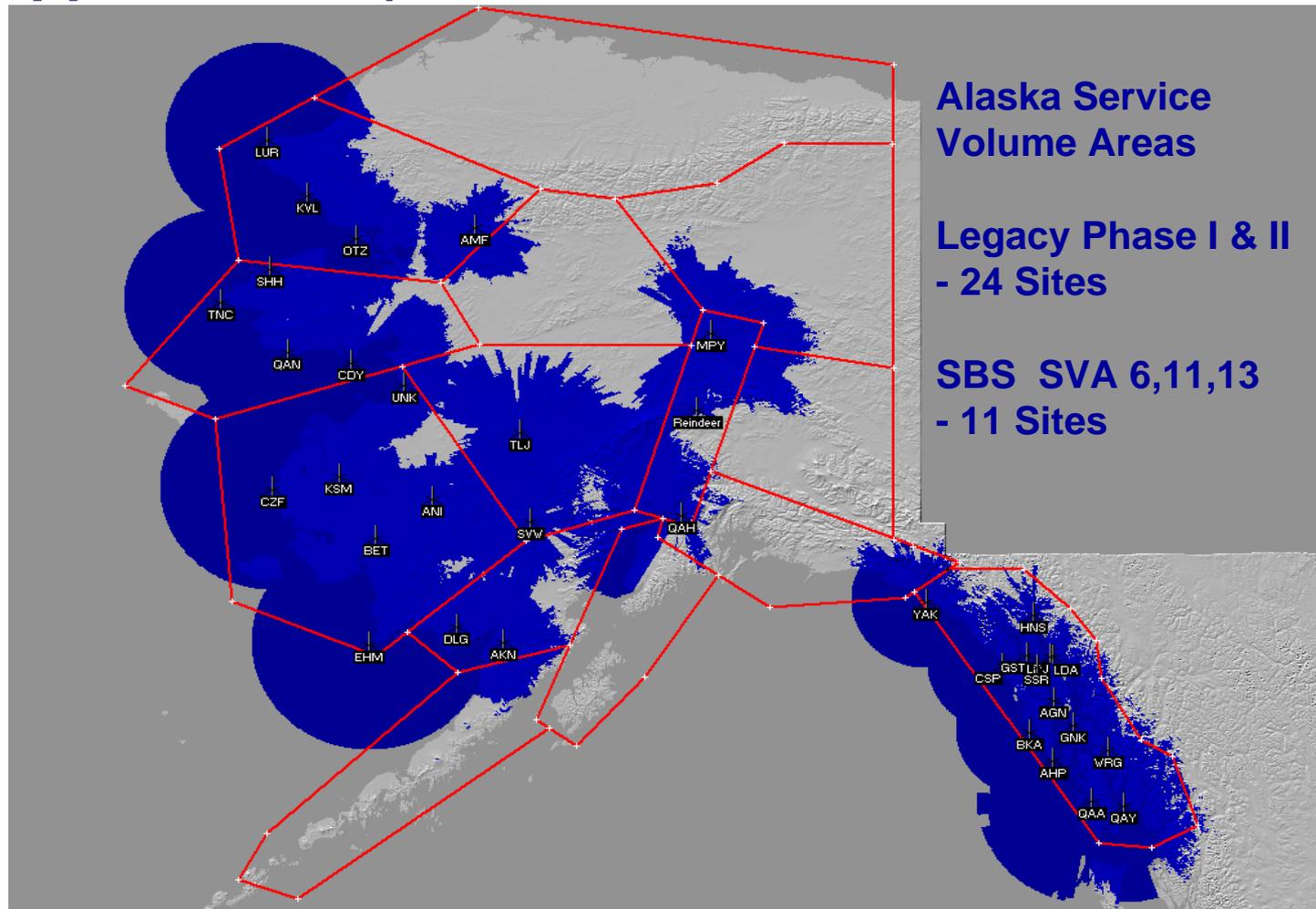
Other Contributors to the Collier Award

NOMINEES: A coalition of private- and public-sector groups:

- Aircraft Owners and Pilots Association (AOPA)
- Air Line Pilots Association (ALPA).
- Alaska Aviation Coordination Council
- Aviation Communication and Surveillance Systems (ACSS)
- Cargo Airline Association (CAA)
- Embry-Riddle Aeronautical University (ERAU)
- FAA's Capstone Program Office
- FAA Office of Aviation Safety
- FAA's Surveillance and Broadcast Services Office
- FAA's Safe Flight 21 Program Office
- FAA's William J. Hughes Technical Center
- GARMIN AT, formerly UPS AT
- Independent Pilots Association
- ITT Corporation
- Lockheed Martin Corporation
- The MITRE Corporation
- NASA Ames Research Center
- NASA Langley Research Center
- RTCA's Special Committee 186 (ADS-B) and RTCA's ADS-B Working Group
- Sensis, Inc
- UPS
- University of Alaska

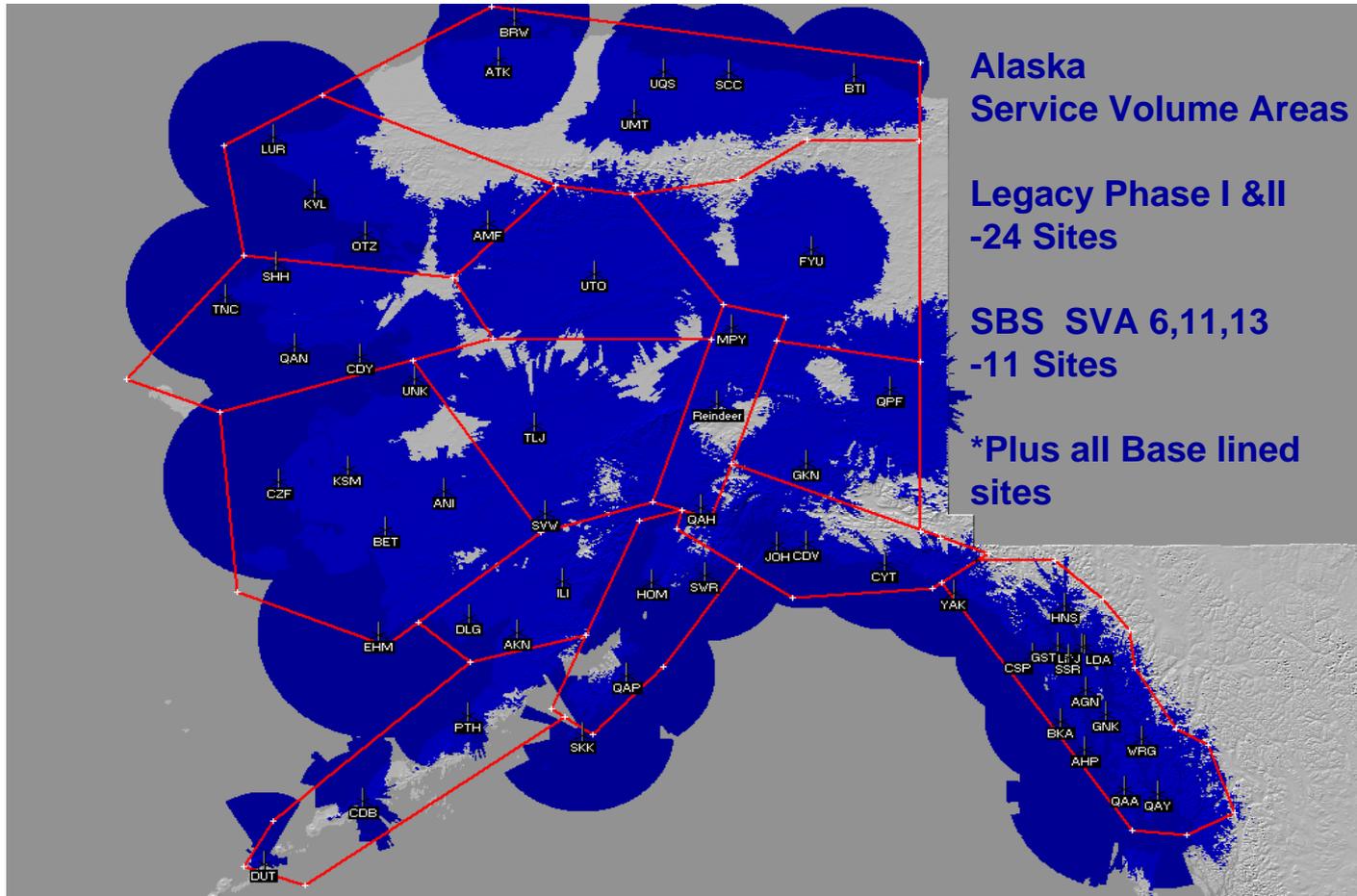


Minimum Alaska Coverage, 5000ft. AGL (without equipped aircraft)



Note: This is Draft Predicted Coverage based on Visual Line of Sight (VLOS)

Proposed Alaska Coverage, 5000ft. AGL (with approximately 4,000 equipped aircraft)



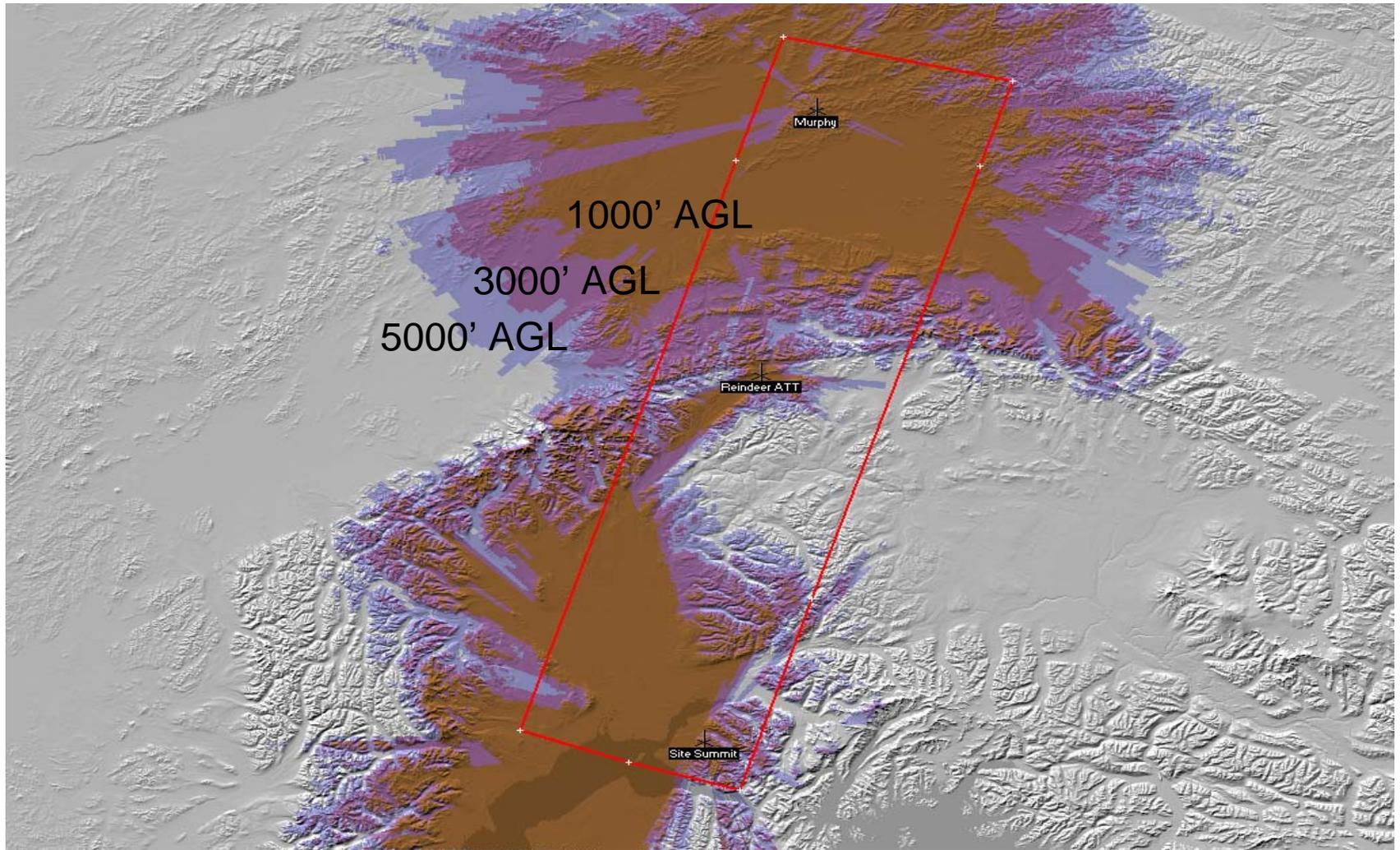
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Alaska Statewide Service Volume (SV) Coverage Analysis

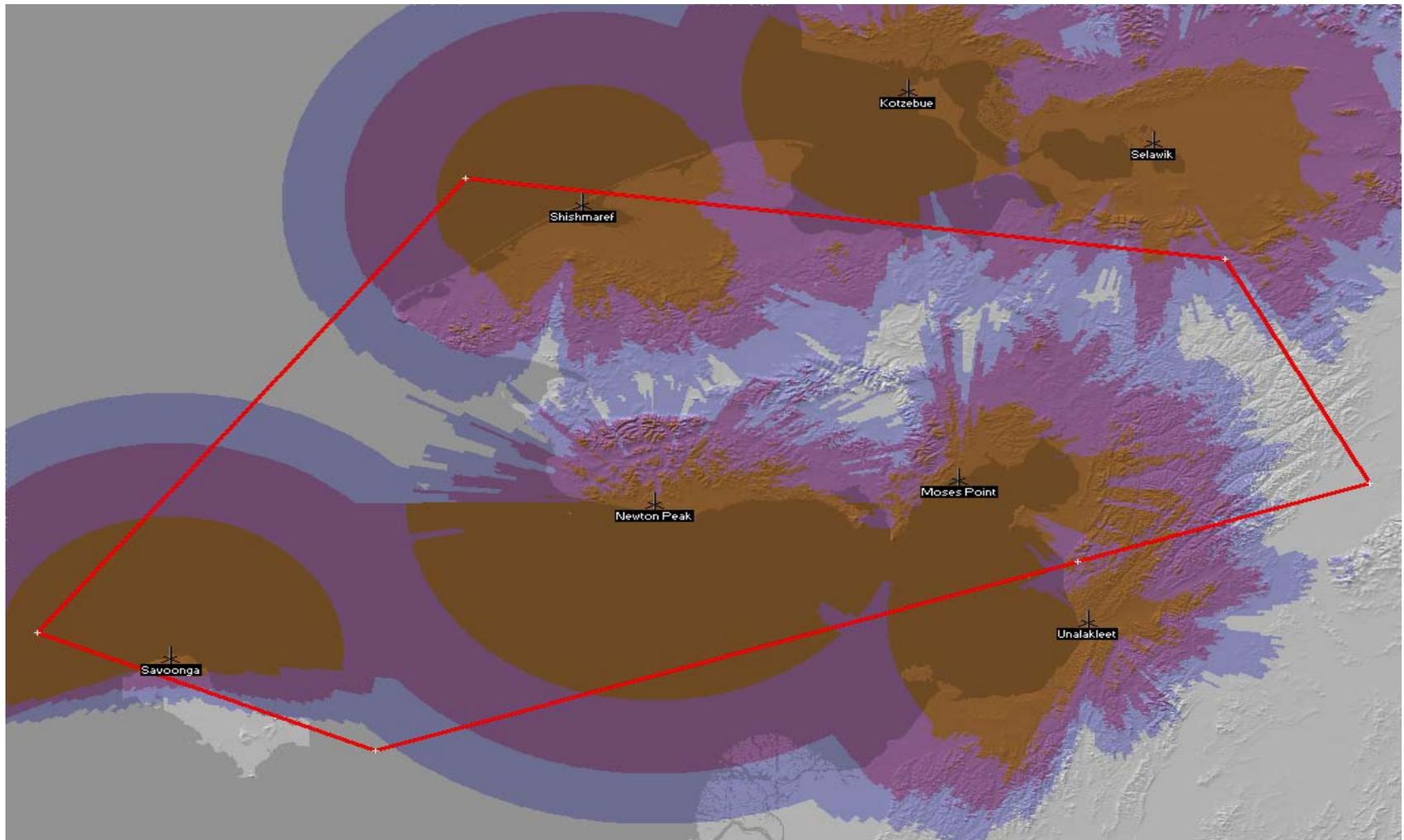
- **Requirements**
 - ✓ Surveillance and Broadcast Services Capstone Statewide Plan
 - ✓ Low-Enroute Published Routes
- **Available Infrastructure**
 - ✓ Space
 - ✓ Power
 - ✓ Communications
- **Maintainability**
 - ✓ Access
 - ✓ Response Time



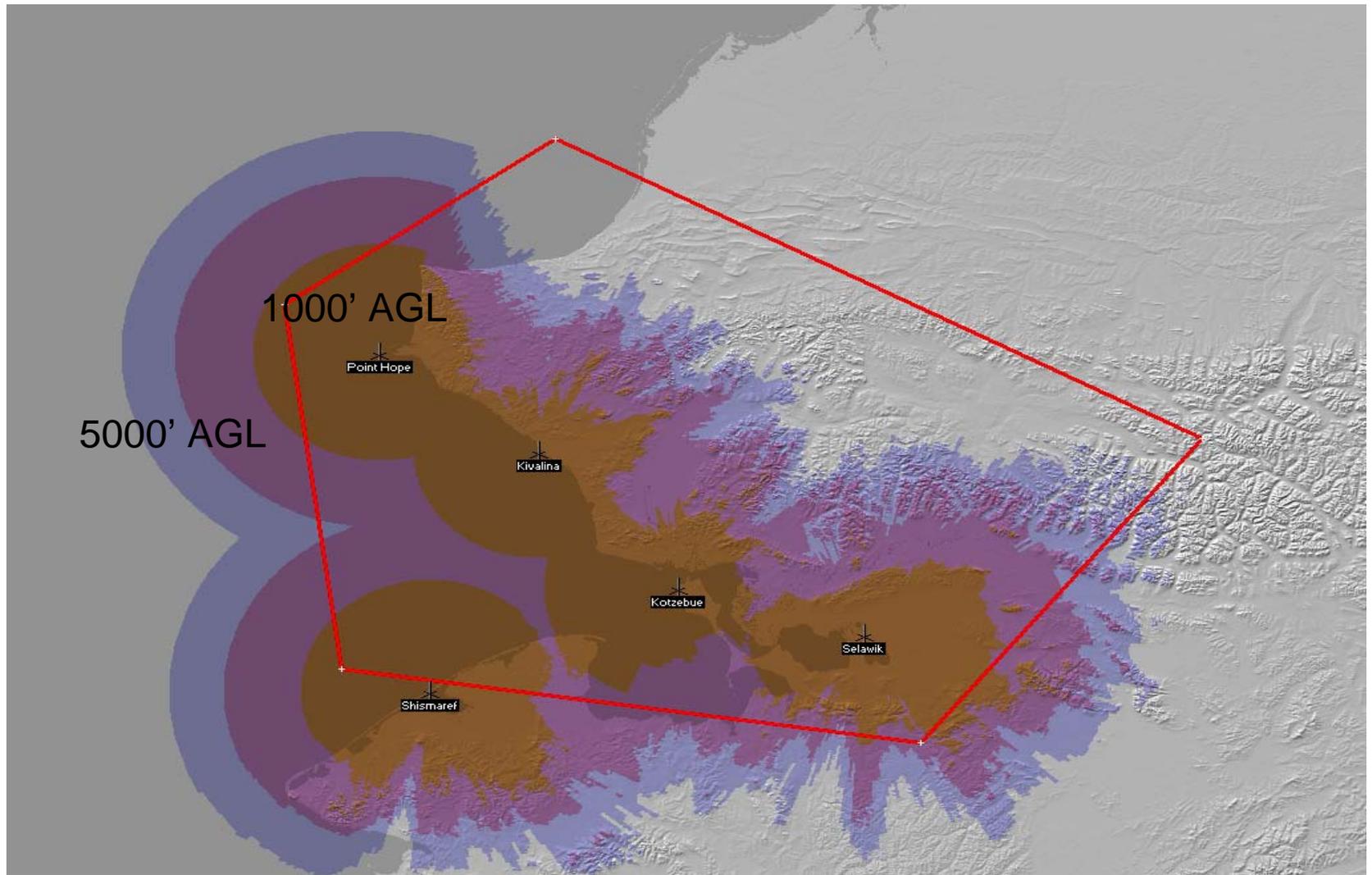
Service Volume Area 6



Service Volume Area 11



Service Volume Area 13



Next Step

- **Validate Site Selections with AIC Implementation Team**



SBS Technical Update

- **Service Volume 6 (ANC-FAI), 11 (OME), and 13 (OTZ)**
 - Engineering started for 5 GBT's
 - Anchorage - Complete
 - Fairbanks – 95% Complete
 - Kotzebue – 50% Complete
 - Reindeer – Site Surveyed
 - Nome – Pending Clarification
 - Finalize remaining site selection through AIC Implementation Team

SBS Technical Update

Current AWOS Projects

- **Complete FY08**
 - Teller, Walles, Chevak, Kiana, Shungnak
- **Planned for FY08-09**
 - Brevig Mission (KTS), White Mountain (WMO), Elim (ELI), Shaktoolik (SKK)
Bob Curtis Noorvik (ORV), Galena (GAL), Barter Island

Draft schedules have been developed for all sites except Elim

Current Communication (RCO) Projects

- **Planned for FY08-09**
 - White Mountain
 - Brevig Mission

Draft schedules have been developed for both sites

AIC Update

- **AIC continues to meet bi-weekly**
- **Coordinate, State, Federal and FAA interests**
- **Next Steps**



GULF OF MEXICO

Overview

- Enhance Communications, Surveillance and Weather service in the Gulf of Mexico
- Improved levels of safety, efficiency and capacity
- Provide domestic-type Air Traffic Control Services

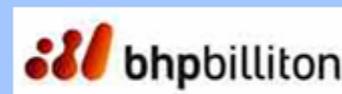
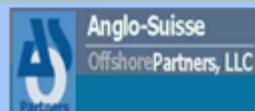


Partnership with Industry

Memorandum of Agreement (MOA) – May 2006



PANTHER HELICOPTERS, INC.



RAAM Global Energy Company



ADS-B Agreement: Gulf Helicopters



ADS-B Agreement: Offshore Platforms



Partnership – Mutual Investment

- **FAA - Gulf of Mexico Key Site Houston Center**
- **FAA VHF Comm. – Engineering, buildings, & radio equipment**
- **FAA ITT Contractor – Surveys, design & hardware**
- **HAI - facilitation, industry leadership & political support**
- **Helicopter Owner/Operators providing transportation, data, resources & voluntary equipage**
- **Oil Companies/Platform Owners & Operators committing space, power and telecommunications infrastructure**

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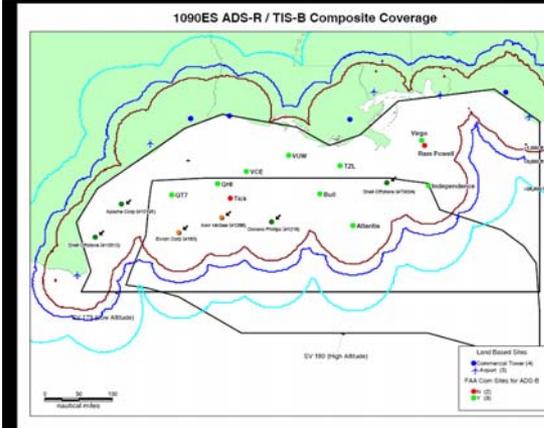
FAA

> \$6M

Industry

~ \$3.5M

Work Has Begun



Goal Focus

**GOM Comm. & Weather
IOC September 2009**

Rockport

FOC 2/08

Tick

FOC 9/08

Cameron County

FOC 9/08

Atlantis

FOC 9/08

Virgo

FOC 1/09

Bullwinkle

FOC 2/09

**Dry Tortugas/Fort
Jefferson**

FOC 3/09

Ram-Powell

FOC 5/09

Independence

FOC 7/09

**GOM SBS
IOC December 2009**

Platforms/Sites

List to be Finalized

- **First Communications Site is now ON-LINE**
- **Three more VHF Communications sites underway**
- **Agreements under development for remaining Communications, Surveillance and Weather Sites**
- **Surveillance and Weather coverage analysis and surveys on-going**

Next Steps

- 🎯 **Establish key platform agreements**
- 🎯 **Houston Center airspace planning**
- 🎯 **Platform work – survey and deployment**
- 🎯 **Avionics implementation**
- 🎯 **Communications, Surveillance and Weather by 2010**

Meeting objectives through transparent interaction between the aviation community and the FAA