



## Advanced Multi-buoy ADAR Display

**A**dvanced Multibuoy ADAR Display (AMAD), is currently a Phase II Small Business Innovative Research (SBIR) project designed to an operational tool that

allows an operator to easily, and simultaneously view data from at least 8 ADAR sonobuoys (192 beam + 8 omni acoustic data channels), in an IEER search field, on a single monitor. Data are presented in a fashion that permits quick sensor selection and detailed analysis of signals of interest.

### Benefits and Application

- AMAD embraces Advanced Rapid Commercial-off-the-shelf (COTS) Insertion (ARCI) design and modularity concepts.
- AMAD is developed to serve as a common display station to demonstrate an updated and enhanced operator display and interface capability.
- AMAD builds upon the P-3C, AN/USQ-78A AIP A/C, Display and Control Set (DCS).
- Tech Refresh/Insertion is accomplished via open system standards.
- AMAD's main goal is to reduced operator workload for improved situational awareness (SA), in the IEER mission case.
- Use of color to depict highest probable contacts.
- "Uncluttered" ASW battlespace displays.
- AMAD control is accomplished with minimum "button pushing" via trackball and intuitive menus.

*Sea Power 21 demands that the commander has persistent intelligence, surveillance and reconnaissance in order to project decisive combat power. AMAD provides next generation air USW platform(s) with new ability to perform prosecution and maintain network connectivity to the USW battle force.*



For more information about Progeny Systems or the Advanced Multi-buoy ADAR Display:

9500 Innovation Drive  
Manassas, Va 20110  
(703) 368-6107

[tbarns@progeny.net](mailto:tbarns@progeny.net)

[www.progeny.net](http://www.progeny.net)



### AMAD Mission

- Advanced Multi-buoy ADAR Display (AMAD) addresses the need to simultaneously process, display, and record data from multiple ADAR sonobuoys, and provide time-critical information about the battlespace to the operator.
- AMAD displays and processes data from a minimum of 8 sensors.
- Use of PPI and advanced audio enhances situational awareness.
- Open access/interfaces to third party applications are inherent.
- The AMAD system provides seamless connectivity to the tactical team, design includes:
- Advanced rapid COTS Insertion (ARCI) design and modularity concepts that have been successfully used in the submarine community.
- User-centric, ergonomic design concepts that emphasize making the total USW tactical picture available to the operator through innovative and intuitive controls and display options.