

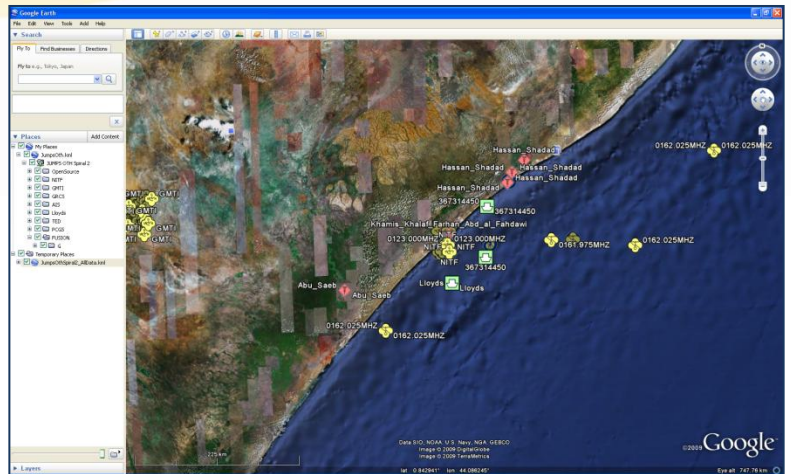
# Case Study: Army JUMPS

## BACKGROUND:

The U.S. Army Joint Unified Multi-Capable Protection System (JUMPS) addresses the multi-intelligence command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR) requirements for supporting joint, harbor defense and maritime critical infrastructure and related littoral activities.

## PROBLEM:

- Inadequate sensors and processing for detection or persistent monitoring
- Existing ground-based systems have truncated capabilities for over-the-horizon detection
- Overwhelming volume of multi-source intelligence data
- Limited tools to produce a single integrated picture of the area of interest



## SOLUTION:

Modus Operandi (MO) is providing its Wave® exploitation framework technology and integration services to semantically fuse data from tracking sensors, aerial SIGINT and other sources to detect anomalies in a maritime environment. The DCGS-A Tactical Entity Database is integrated and correlated with other multi-source intelligence. MO's data fusion and textual analytics capability is applied to exploit structured and unstructured sources for increased situational awareness in the maritime domain. MO is leveraging existing capabilities within the Guardrail GGB with Wave's data fusion capability to enable real time data fusion combining airborne and ground based COMINT collection with unstructured data sources to provide superior maritime situational awareness. MO integrated its technology with existing DCGS-A technologies including VIPER, DIB, in order to minimize development time and cost associated with training operators on new applications.

## RESULTS:

Enhanced operational capabilities:

- Situational Awareness – increased through multi-sensor and data sources connectivity
- Sensor Integration – flexible architecture supports access to disparate information sources
- Improved Common Operating Picture – operationally relevant information display based on user context
- Achieved JDL level 2 fusion – by validating (comparing similar data from multiple sources in order to weed out false positives and potentially spoofed sensors) and de-conflicting data from eight different sources

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