HYPACK & Marine Magnetics Collaborate on a Magnetometer Solution

By Brittany Danek

HYPACK Inc, a global leader in hydrographic surveying and dredging software, and Marine Magnetics, a worldwide leader in the manufacturer of magnetometers, have entered into a cooperative venture to provide a complete solution for magnetometer surveys.

Following the purchase of a fleet of magnetometers by SHOM (French Hydrographic Department), Marine Magnetics and HYPACK, Inc. worked together to provide a solution to better acquire and process the magnetometer data.

This solution comes in the form of an updated interface for magnetometer data collection and the release of the new HYPACK® MAGEDIT (Magnetometer Editor) program, developed according to the specifications and with the collaboration of SHOM.

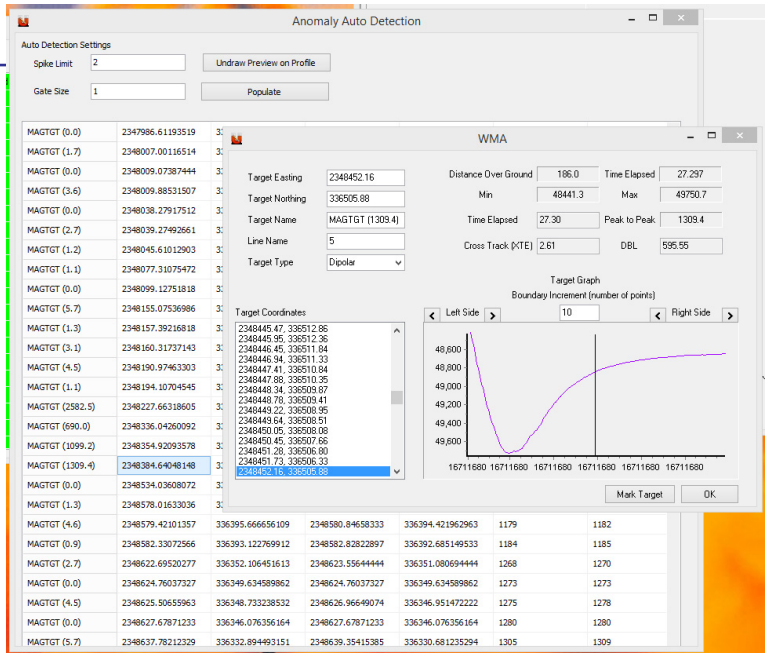


FIGURE 1. *Anomaly Auto Detection in MAGEDIT*

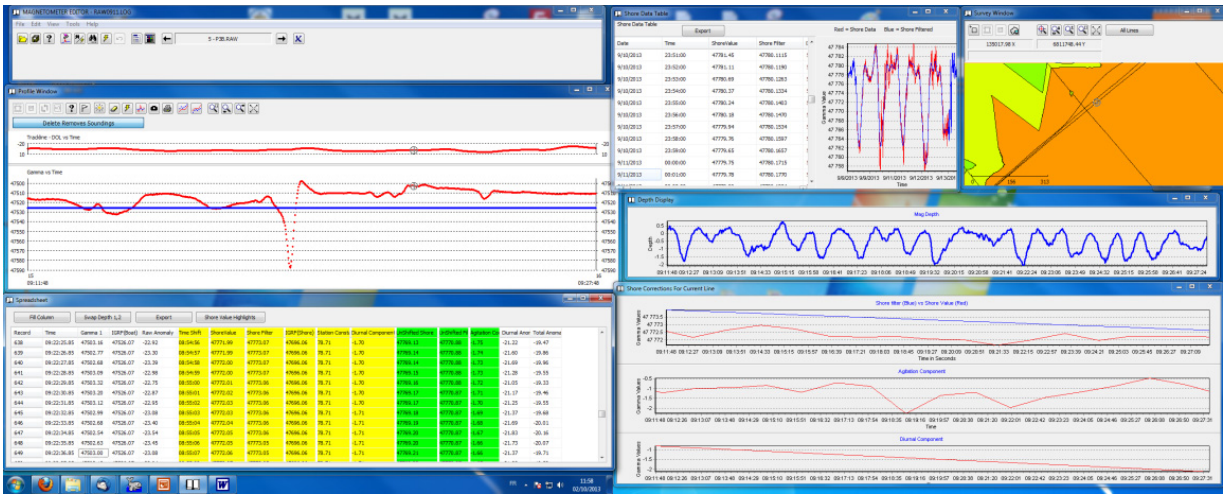
MAGEDIT was designed to allow surveyors to make adjustments to both ship and shore-based magnetometers, using the IGRF model. Magnetic anomalies can be computed by differencing the ship-based measurements with either the IGRF model or with a shore-based magnetometer. Using the gratiometric comparison, anomalies of a user-defined size can be automatically targeted for plotting and review.

- Quickly identify and mark targets to investigate.
- Reposition the target coordinates based upon the magnetic signature of the target.
- Display amplifying information to assist in investigating a target of interest.

The MAGEDIT program is a standard tool in HYPACK® 2014 which is distributed to over 8,000 users subscribed to our maintenance plan.

The collaboration between HYPACK® and Marine Magnetics promises to deliver excellent results and mutual benefits. While Marine Magnetics seeks to provide complete magnetometer survey solutions to its customers, HYPACK® benefits from the extensive experience of Marine Magnetics and their track record as world leader in magnetic survey technology.

FIGURE 2. *MAGEDIT Displays*



For more information please visit www.hypack.com and www.marinemagnetics.com