

# MarineQaQc

## Marine EM Data Processing

**MarineQaQc** is an interactive data processing package for processing, export, Quality Control and Quality Assurance of marine EM data. It has the following features:

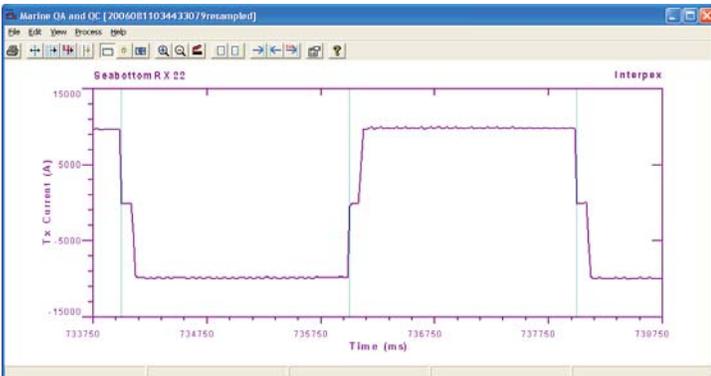
- Supports EMGS format but can be adapted to other formats.
- Imports Tx (ship) trajectory, multiple current records and single receiver recording.
- Displays Tx trajectory, Tx Current and 6-component Rx data in separate windows.
- Provides for a separate zoomed display of receiver data.
- Displays E-fields, H-fields or both.
- One-click synchronization of Tx current and Rx field displays.
- Automatic generation of current switch markers with powerful editing capabilities to account for drift.
- Interactive Lissajous figure determination of receiver orientation angle.
- Bathymetry import and display.
- Point & click selection of Rx display from map



### Features Include:

- ▶ Easy open, edit and save of complex directory structure for file import/export.
- ▶ Receiver specification and location import from EMGS files.
- ▶ Ability to view locations of other receivers in the same project
- ▶ Data export as SEG-Y or apparent resistivity.
- ▶ Stacking, rotation & smart DC level removal.
- ▶ Receiver can be stationary or towed fish.

Showing data for point:	106	of:	163
Date:	20060811	Rx Easting:	627085.
Time:	70622	Rx Northing:	4345754.
Day of Year:	223.30	Rx Depth:	1967.6
Tx Easting:	627099.	Rx Sea Dp:	Unknown
Tx Northing:	4345996.		
Tx Depth:	1930.3		
Tx Elev:	32.700		
Tx Heading:	0.35200		
Tx Pitch:	3.5140	Tail Easting:	627098.
Tx Roll:	Unknown	Tail Northing:	4345858.
Surface:	0.	Tail Elev:	Unknown
Speed (m/s):	0.80120	Tx-Rx (m):	244.28
Fish Sea Dp:	Unknown	Tx Sea Dp:	Unknown



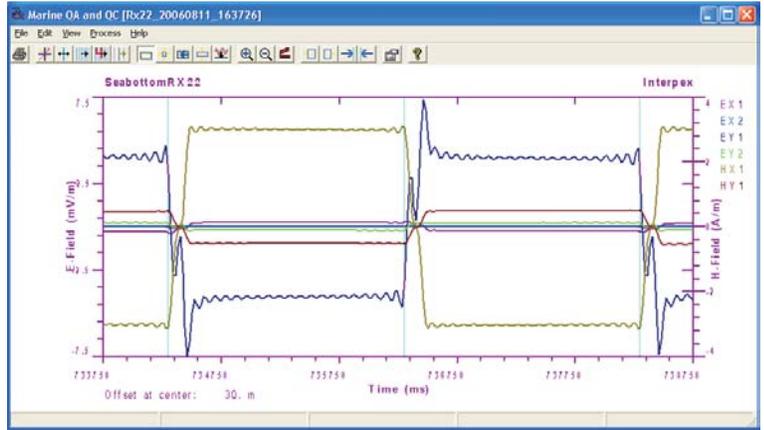
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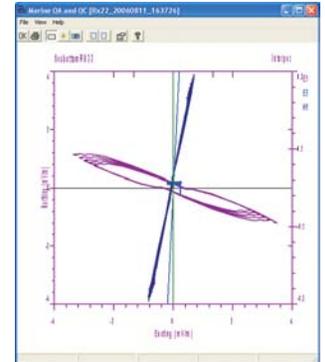
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- Single transients for any component can be easily extracted, displayed, exported.
- Tools are available for differentiation, integration, filtering and DC removal.
- Data can be stacked over a specified range from the center transient offset.
- Data display can be E-field, H-field, both, single or selected components.



- Receiver orientation is easily determined using tow line direction and Lissajous figure display of E- and/or H-fields.
- Lissajous graph shows direction to Tx and receiver orientation.



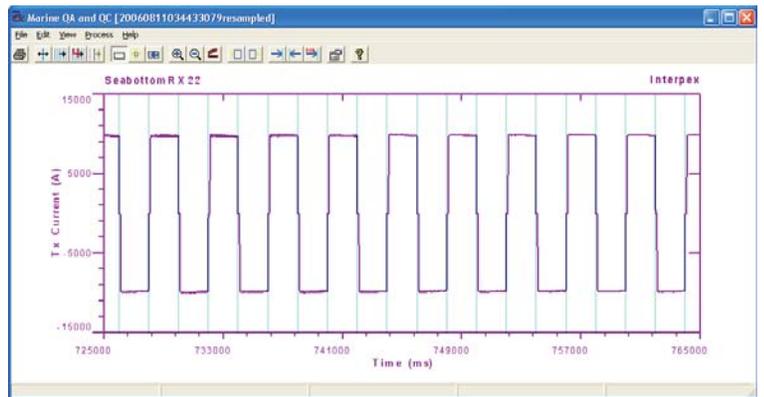
**Receiver Location**

Receiver:

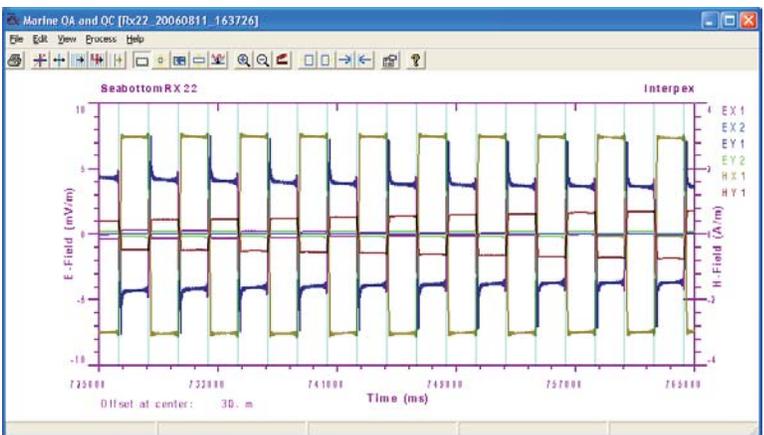
Rx Easting:  Rx Northing:

Rx Depth:  Rx Direction:

Towline Direction:



- Graphics display range can be edited by using the zoom tool or by editing the parameters in view properties dialog box.
- Scales can be automatically determined. For receiver data, vertical scale can be automatically adjusted to display range.
- E- and H-fields are scaled separately.



**Data file directories**

Directory for Navigation (.TX) Files:

Directory for Raw Data (.RAW, .RX2) Files:

Directory for Receiver Position (.RX) Files:

Directory for Receiver Calibration (.TXT, .DAT) Files:

Directory for Source Current (.ANT) Files:

Directory for MarineQaQc (.MQX) Files:

Directory for SEG-Y (.SGY) Files:



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