

Triton BathyOne™

Bathymetric Processing Software

Triton BathyOne is a software module in the Perspective product suite for the processing of multibeam, single-beam, and interferometric sonar data. BathyOne processes all survey data including: sound velocity, tides, sensor offsets, squat, and vessel motion data, and creates accurate bathymetric maps and images, gridded x,y,z data sets, GSF files, TPE values, and other information required for the production of high-resolution bathymetric models in charting, geophysical, and military applications.

BathyOne is very easy to use and requires only simple operator inputs to drive the underlying computations. This level of automation makes it well suited for applications where a detailed examination of the seabed is the primary requirement. When using bathymetry to locate mines, track pipelines, study marine geomorphology, and for other applications where a high-resolution model of the seabed is required, BathyOne's automation tools eliminate much of the labor-intensive, manual processing that is required in more classical navigational chart production. The manual tools are present in BathyOne, but the automation technology makes their use optional to fit the requirements of the specific application.

Performance/Ease of Use

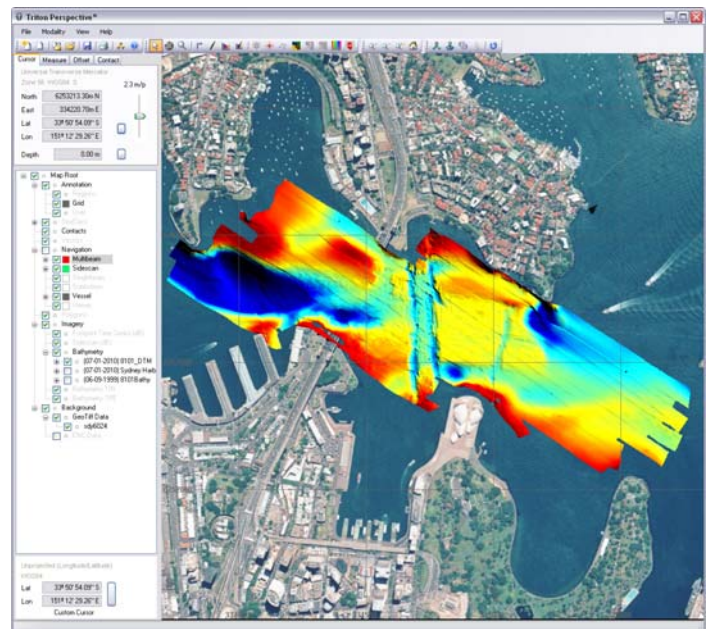
- Parallel software exploits multi-core processor architecture
- Drag & drop/wizard-based operation
- One-button operation for repetitive processing tasks

Tools

- All common map projections supported plus user-specified custom projections
- Import GeoTIFF, XTF, DXF, Shape, XYZ, S-57 (optional), DDS_VIF, contacts, etc.
- Navigation processing/smoothing/merging
- Motion, tides, SVP, squat, TPE
- Measure/annotate/digitize/profile/difference (A-B)

Display and Output

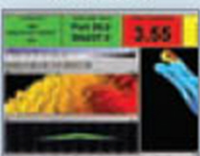
- Graphics and imagery layers
- Vector survey tracks
- Pan, zoom, roam
- Palette, grid, transparency, brightness, contrast
- Bathymetric shading and color coding
- Regions of interest
- Concurrent display and fusion of sidescan mosaics, bathymetric grids, aerial photos, coastline maps, S-57 charts (optional), and other geo-coded data
- Output GeoTIFF, Shape, DXF, XYZ, GSF, and KML



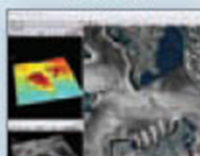
Options

- Sidescan mosaicing with MosaicOne
- Target acquisition and processing with Triton TargetOne
- Seabed segmentation/classification with Triton SeaClass
- Database storage and access by sensor type, region, and date

multibeam



sidescan



seismic



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