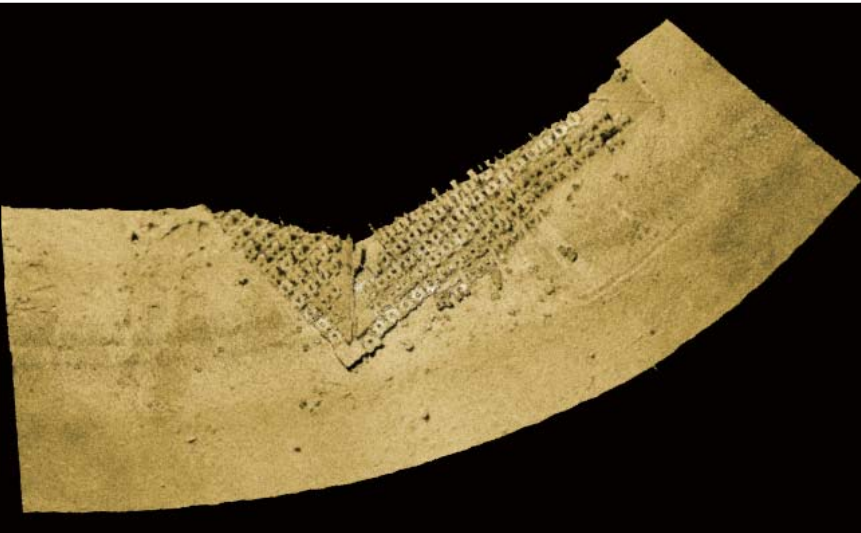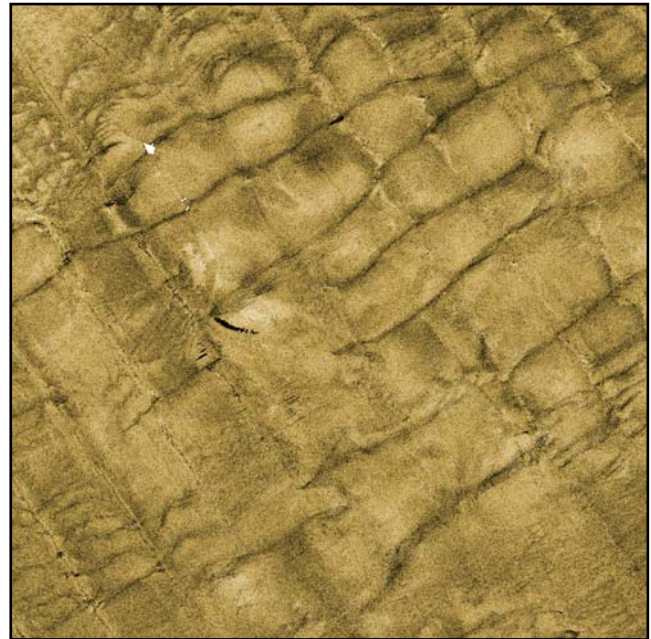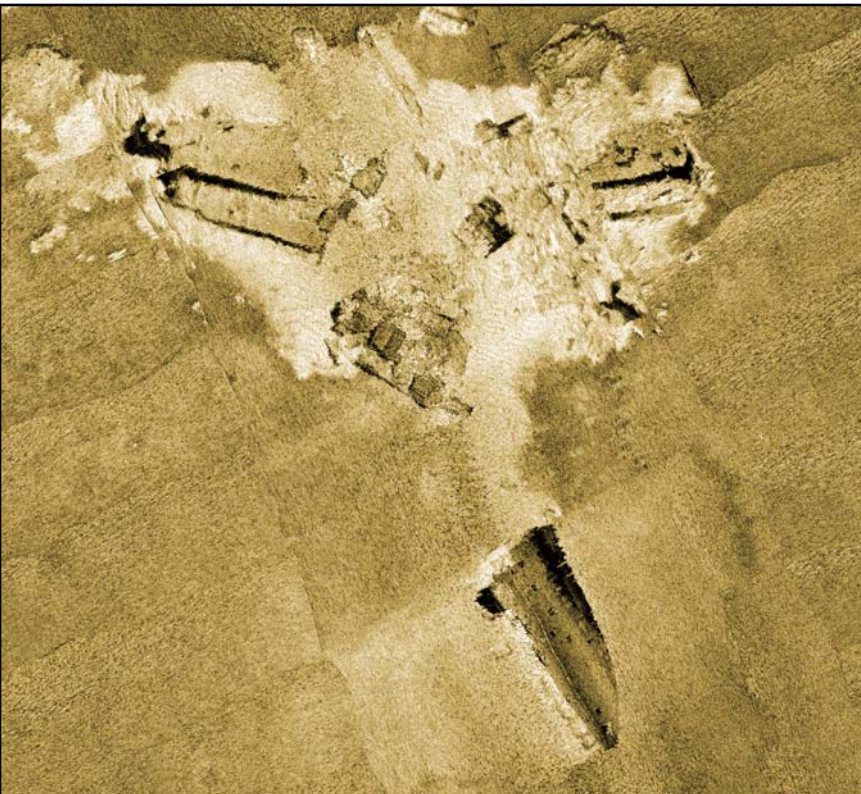# Sidescan Sonar Data Processing Software

LampyridEye5

This is the software which makes a mosaic image
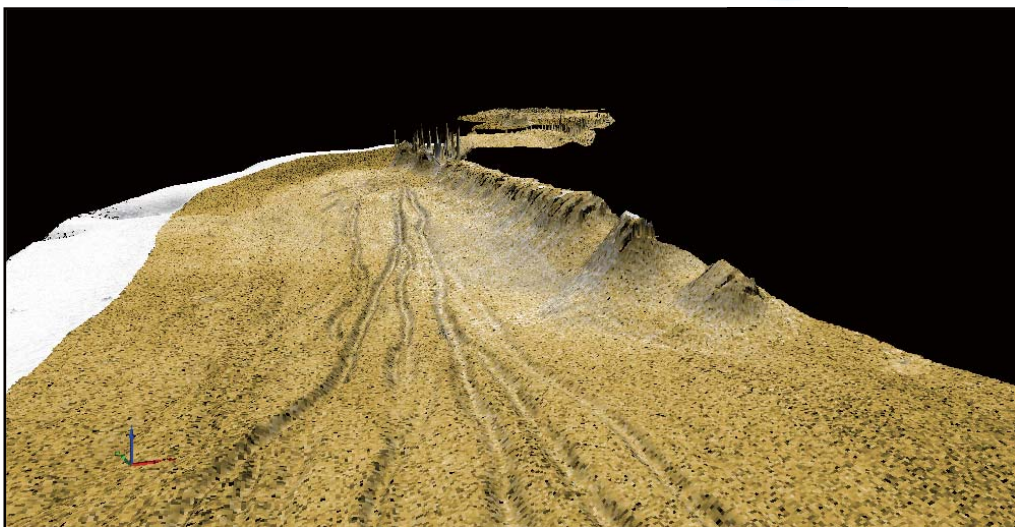from acoustic information acquired with side-scan sonar.

Structure

Sand Wave

Sunken Ship

◆ Supports various side scan data formats

◆ Visible track editor

◆ Various correction functions
   for physical data

◆ Handy tools to make mosaic images

◆ Displays and outputs high-resolution
   SSS (Side Scan Sonar) images

OHTI

3D mosaic image overlapped on the seafloor topography data by Visual3DX-5*3

New Optimization of graphical user interface

The optimized user interfaces such as a ribbon bar and a file view improve operational efficiency.

Import Format

XTF, XSE, all, mb41, asd, acf, hsx, JSF, S7K, 81s, 872, sdf*1

New Reading of external files

It reads the position information, motion information, and sensor water depth information from an external file, and corrected.

Information sharing

・Project files sharing with MarineDiscovery5*2
・SSS images are easy to import into Visual3DX-5*3 and other GIS software

Track Correction

・Display of track information (ship and tow fish)
・Manual or Auto editing of track (linear interpolation, spline interpolation)

Quality Control

・Browsing of data for each ping (e.g. date and time, location, 3-axis information, altitude, water depth, gain, pixel size, etc.)
・Graph displays of sensor information
・Various correction for each file (e.g. level, radiometric, magnetic deviation, bathymetric distortion, etc.)
・Batch Calculation of under water depth for each ping from image

SSS Image View

・Geometric correction by using motion or track data
・Method of display image is selectable (e.g. raw, interpolation, averaging)
・Easy to generate mosaic images (image display order is selectable e.g. port, starboard, and time axis respectively)
・Import of contour images (Overlapping of contour images created by MarineDiscovery on mosaic images is available)
New ・Display mosaic images with color

Export File

Bitmap, GeoTiff, PostScript

Operating environment

PC	OS	Windows7 SP1, or later
	CPU	Intel Core i7 2600K, or more
	Memory	8 GB, or more
	Hard Disk	50 GB, or more (500 GB, or more recommended)
	Graphics board	GeForce GT610 or Radeon HD6450, or more
	Peripherals	CD-ROM, Keyboard, mouse
Screen	Resolution	1280×1024, or higher
	number of colors	True Color 32 bits, or more

＊1.Please inquire for other formats and models.

＊2.MarineDiscovery5 is our product, multibeam data processing software.

＊3.Visual3DX-5 is our product, 3D visualization software.

Display Settings

- Three kinds of map projection (Mercator, TM and UTM) corresponding to the rotating coordinate by any origin
- Scale Settings （1/1000,1/2500,1/5000,1/10000,1/25000,1/50000,1/100000, 1/200000,1/500000,1/1000000）
- Display in high resolution commensurate with enormous side scan data (150,180,300,600,1200dip,up to a maximum resolution of the input data)
- Selectable Color display (the mosaic image color can be displayed)