



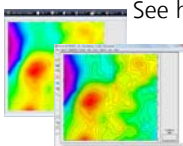
Unearth A Masterpiece.

The Mapping Guru

EDITION Number 14

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Automated mapping allows rapid display of workflow results



See how the recent release of Petrosys allows users to create maps directly from their gridding workflows.

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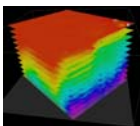
New look, location for Perth office



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Petrosys continues its collaboration with the PPDM Association, by sponsoring a further two events in the PPDM Event Series.

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Integrating knowledge from best breed of EP applications

At Petrosys we are committed to providing the petroleum EP community with the best mapping functionality for use with the best EP applications.

We subscribe to the excellent commercial development kits provided by Halliburton, Schlumberger, IHS and ESRI, and we are now pleased to be able to add Paradigm's EPOS/4 to this list. Our connectivity is rounded out in the Windows area through great links to Kingdom SMT and SeisWare.

When it comes to selecting interpretation tools, each business has its own unique drivers. These could be complexities in the geology, a mature history of field development, rapid start-up needs, budget constraints, or simply the personal preferences of regionally experienced geoscientists. Many companies seem to need a mix of interpretation tools to address all of their requirements.

As EP companies seek to consolidate the asset value of global portfolios, Petrosys provides an attractive platform to bring together seismic interpretation, well picks, and reservoir attribute estimates to create both short and long term views of the subsurface potential of an area. Consistent surface modelling and volumetrics computations can be applied to data from diverse sources, and corporate accepted seismic and well metadata and interpretations can be managed in a vendor neutral and actively evolving PPDM data store.

Building and maintaining such a connective application has its challenges and rewards. Over the past five years our Adelaide based development team have re-engineered the inner workings of

Petrosys to include seismic, well and fault data objects. These allow the Paradigm EPOS integration to benefit from a significant low level 'plug and play' functionality. It will give the EPOS user a very similar user interface and functionality as when using seismic and well data from other applications such as GeoFrame, OpenWorks, and Kingdom, and from master data stores including Petrosys dbMap. The developers have also introduced a secure password management facility to help clients retain internal confidentiality whilst navigating the minefield of the various user authentication mechanisms used by applications and operating systems.

The data 'footprint' of our connectors, or the extent to which the structure of the data matches that of the application, continues to evolve with client needs and third party applications functionality. An expression of the variation in data footprint are the subtly different dialogues users see as they choose different data sources in the Petrosys Display/Wells option. The improvement in our fault data model is a current priority. By having tightly coupled connections based on the vendors' own development kits, Petrosys can maximize the overlap between Petrosys and other vendor data models.

Petrosys appreciates the value that our fellow applications vendors place on providing the EP community with the best science and technology for effectively developing resources in increasingly demanding and hazardous situations. We look forward to continuing to provide mapping, volumetrics and data management to help tie it all together.

Drawing a map directly from a workflow

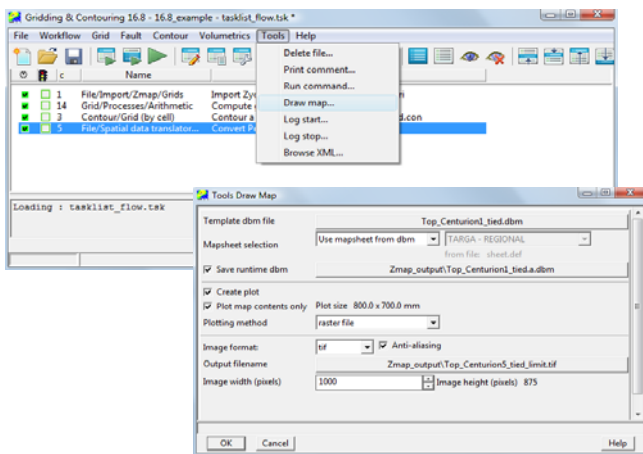
The most recent release of Petrosys Mapping Software gives users the ability to create maps directly from their gridding workflows. Creating maps in this way allows the complete automation of routine workflows, saving valuable time without compromising on the final product.

What file types can be produced with this option?

The Draw Map option will allow users to output to raster files or other Petrosys supported plotting devices as well as Petrosys map files.

How can I incorporate the Draw Map functionality into a workflow?

Within the Petrosys Gridding and Contouring module all tasks that form a workflow can be saved to a task file for later use. Each task can subsequently be edited and either a discrete selection of tasks or the whole workflow can be run. With the Gridding and Contouring window open the Tools/Draw map... option will give you access to the Draw Map functionality. Once the task parameters have been set to the users' requirements then the Draw Map task will be added to the bottom of the workflow.

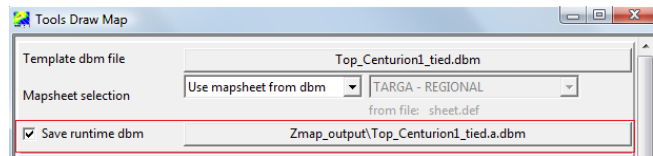


What is required to produce a map using the Draw Map function?

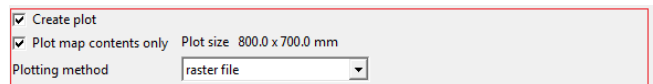
Looking at the task parameters (above) more closely the first item we need to specify is a template dbm file. An existing map file is required before we can use the Draw Map function. This map file should be suited to the type of data you wish to create a map of and will define the layout and content of the template. Specific parts of the template dbm, such as grid file names, may be replaced or added to using the scripting parameters of the Draw Map option.

Setting the task parameters

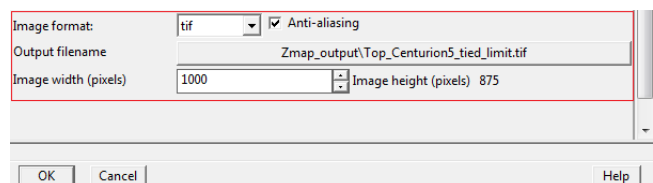
After specifying the template map file you can choose whether or not you wish to create a dbm file as part of the output. Selecting the Save runtime dbm option will create a variant of the template dbm file using the same mapsheet as the task but replacing items within the dbm file such as grid and contour files.



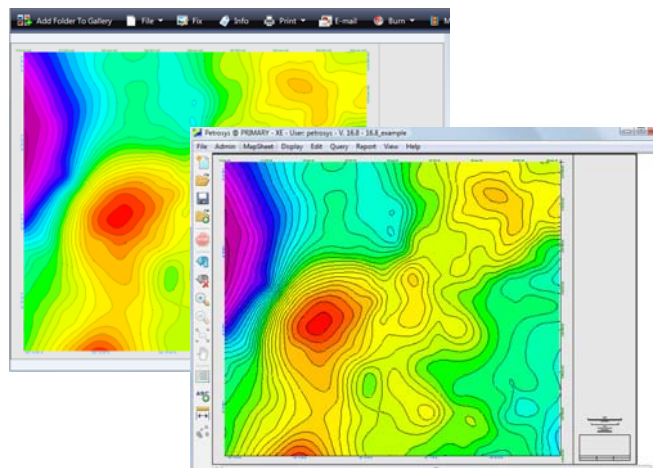
Once the options above have been specified you need to choose whether or not to create a plot of the map file, as mentioned above this can be either to a raster file or to any other Petrosys supported plotting system. As shown below you can select the plotting method and also whether you want to restrict the output to the map contents only.



If you have decided to create a plot using the options above then it is necessary to choose the output plot format, file name and image width as shown below. Note that it is possible to specify the use of anti-aliasing at this point also. This option will produce significantly smoother line and text edges at the expense of performance.



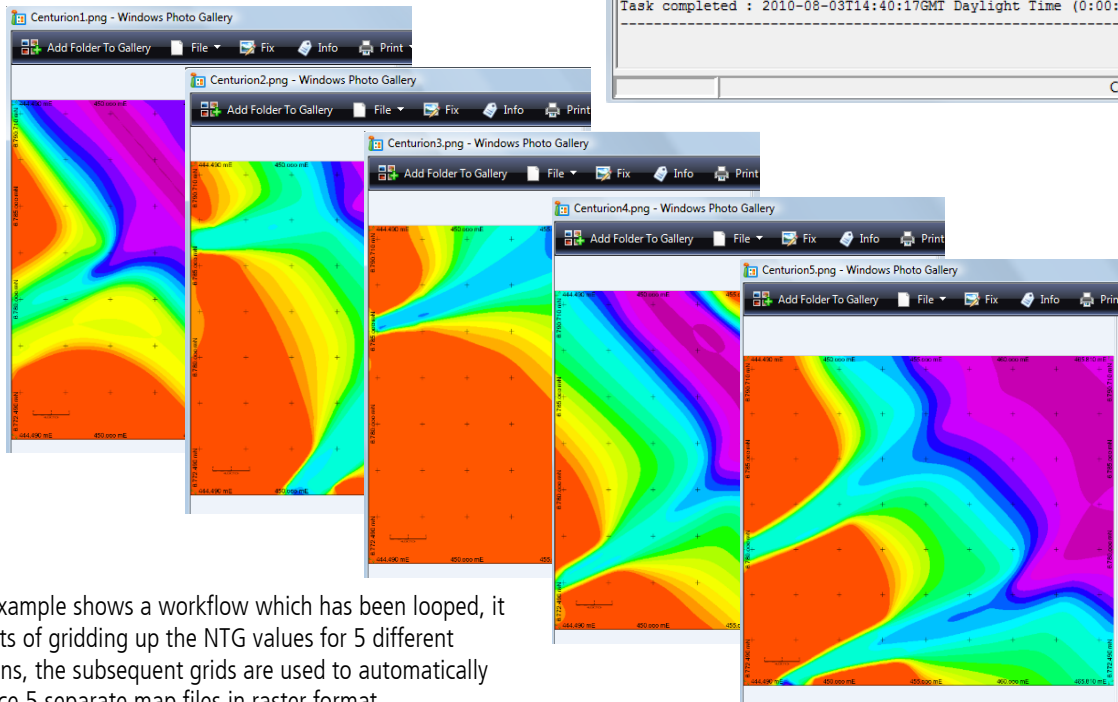
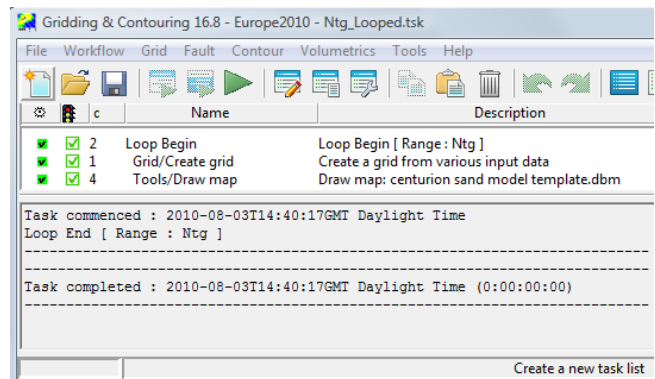
Now the task has been setup, it can be run as part of the workflow without further input needed from the user. The example below shows the output raster and dbm files from a workflow side by side.



Drawing a map directly from a workflow

Using the Draw Map functionality with Looping

The looping functionality introduced in version 16.8 of Petrosys enables users to repeat workflow tasks over different numeric values or data selections. The Draw Map functionality can be utilised alongside the looping capabilities to produce multiple output raster images and/or dbm files based on the output of each looping iteration.



We're on the move!..... Perth Office relocation

The Perth office relocated mid September to new premises in Subiaco, one of Perth's most stylish and cosmopolitan suburbs. The new office is situated just a short drive from the cbd, and close to many of our Perth based clients.

The suburb's stylish theme has been carried inside with the interior of the office boasting a fresh, contemporary look and feel, incorporating Petrosys' mapping masterpieces in its design.

Effective immediately, our new office address is:
Suite 21, 513 Hay Street, Subiaco WA 6008.

All other details (except staff direct phone numbers) remain the same.

We're looking forward to welcoming you to our new premises.



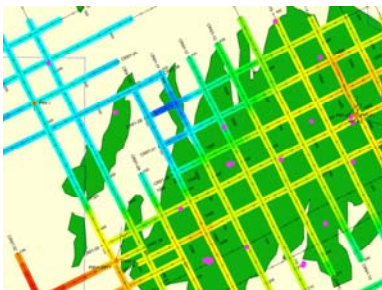
Release v16.8sp2 highlights

Version 16.8, first released in late June and now at the sp2 patch level, provides more direct access to interpreted seismic and fault data, and significantly improves the automation of gridding workflows.

Simpler integration of seismic, fault and surface knowledge

Major enhancements are available for directly visualizing seismic interpretation and surfaces from a host of data sources. This includes the ability to directly display fault interpretations from sources including Petrel, SeisWorks, SeisWare, GeoFrame and SMT Kingdom.

- Petrosys interactive mapping and 3d viewer now support direct display of 3d seismic surfaces from SMT, SeisWorks and SeisWare. Colorfill, Values, Highs & Lows and Sun shaded display styles are supported. This builds on our existing support for directly displaying 3d seismic surfaces from IESX and Petrel.
- Seismic horizon data is now able to be displayed directly from third party packages using a number of visualization methods previously only available for Petrosys SDF display. The ability to directly display this knowledge alleviates the need for data transfer and duplication. The new features enable unique visualization options such as ribbon maps and posted data values.

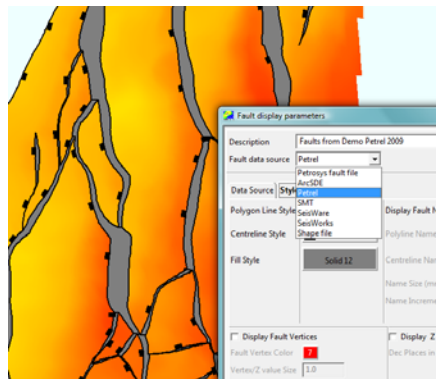


- Previous versions of Petrosys supported direct display of 2D seismic coordinate data from third-party data sources through a range of display options (one per data type). These separate display options have been merged into the Display/2D Seismic option, providing a single location from which seismic data from any

source can be displayed. A very wide range of 2d seismic data sources are supported.

In addition, the direct display of seismic from OpenWorks now displays the full navigation data for 2D seismic lines, as opposed to just a straight line between the first and last shotpoint locations.

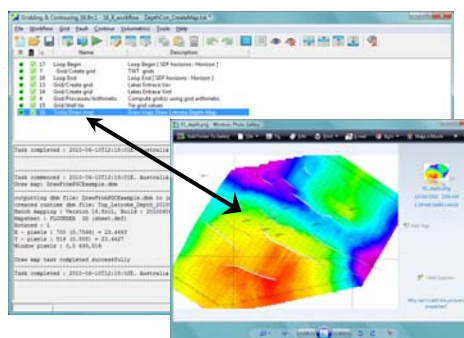
- The Display/Faults option has been enhanced to allow direct display of fault data from third party packages.



Enhanced modelling delivers improved visualization of multiple scenarios

Petrosys v16.8 provides enhanced gridding, contouring, volumetrics and modelling workflows with better surface-surface operations. Coupled with the implementation of conditional processing and new options for immediate visualization of maps, geoscientists can more effectively compare multiple scenarios, realizations and results with our new tools.

- A new option 'Tools/Draw-Map' allows maps to be created as part of a PGC task list. Maps are created as .dbm files for subsequent replay in Petrosys mapping and optionally as one of a selection of publication options including direct



display to a raster file or the use of a Petrosys 'plot queue'.

- The Grid/Processing/Arithmetic option has had a significant upgrade, introducing a lot of the functionality previously only available in the function lists module.

The most striking difference is that functions can now have more than one statement, so that it is possible to have conditional (IF) statements, and so that multiple grids can be created in a single function.

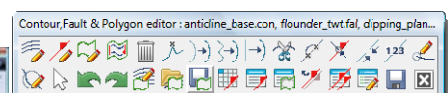
- Gridding of ASCII XYZ data, in either lat/lon or EN formats is now much easier, with a flexible and intuitive interface. The XYZ data can be in arbitrary column formats (e.g. comma separated, multiple Z values), and caters for latitudes and longitudes in various styles of DMS and decimal degrees.

Work flows where the ASCII data has multiple Z values are now much easier as a single format is required to define the file's format. Multiple input data sources using different column selections can be added to a single gridding operation and can be scripted as required.

- The Display/Grid/Values and Display/3D Seismic/3D Surface/Values options now allow display using a gradient along with a single color. The displayed symbol is able to be selected from an expanded set in addition to the cross symbol.

A fresh new icon set

This release of Petrosys comes with a fresh new set of professional icons, designed by one of the world's leading icon designers. You will find the icons much clearer and consistent in their meaning which will, naturally, aid in quickly accessing frequently used functionality.



More information

Review the [release notes](#) online for more details.

EPSG browser update

Tucked away under Support/Tools on our web site is a page that lets you look for coordinate reference systems in a copy of the EPSG database.

We have recently updated this to using the latest version of this data source, which is 7.5.0.1.

The Petrosys EPSG browser lets you look for commonly used map projections (ProjCRS) and geographic CRS (GeogCRS) based on the latitude/longitude and regional names in the areas of interest recorded. There is also a useful 'datum

Petrosys - EPSG Coordinate Reference Browser

version 7.5.0.1 2010-03-31

The screenshot shows the Petrosys EPSG browser interface. It has two main sections. The top section is for 'Select ProjCRS by target longitude relative to central meridian'. It has input fields for 'Longitude of interest' (44), a dropdown for 'West', and 'Degrees around this to search' (3). There is a 'Go' button and a world map showing a vertical line at the specified longitude. The bottom section is for 'Select ProjCRS by target location relative to EPSG areas of use'. It has input fields for 'Longitude of interest' (10), 'Latitude of interest' (12), dropdowns for 'East' and 'South', and 'Degrees around this to search' (6). There is a 'Go' button and a world map showing a small orange square at the specified coordinates.

This page is provided as a utility to browse the coordinate reference information originally collated by the European Petroleum Survey Group (EPSG) and now managed by the International Oil & Gas Producers (OIGP) Positioning & Surveying Committee. The information is provided by OGP as a set of relational database tables suited for use in

matching' tool that does a fuzzy match of Molodensky 3-parameter shift values to let you look for actual datum conversions where you have the parameter but not the name.

The EPSG database is provided on a non-commercial basis by the International Association of Oil and Gas Producers (OIGP). Terms of use and access to the full database are available at www.epsg.org.

Events, training and more...

Exhibitions and Meetings

Petrosys invites you to visit our booth at upcoming tradeshows and exhibitions, where you can get a hands-on demonstration of "what's new" and how "what's new" can make you even more effective. Upcoming events include:

SEG - Denver	2010 Oct 17-20
Petex - London	2010 Nov 23-25
GEO - India	2011 Jan 12-14
PGCE - Kuala Lumpur	2011 Mar 7-8

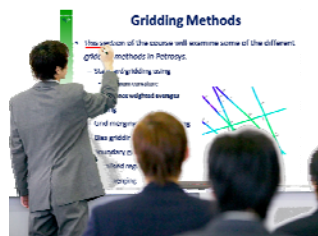
Visit the [Events](#) page on our website for a complete list of exhibitions and meetings in 2010 and 2011.



Andrew Dunn from Petrosys Europe and Volker Hirsinger in front of a poster of the Great Wall of China at the recent EAGE exhibition.

Training

Want to improve your skills, project or team capabilities? Our training programs and resources can help you achieve your goals.



Australia - Perth
Advanced Gridding and Volumetrics
2010 Nov 25-26

Europe - Glasgow
1 Day Introduction to Petrosys Mapping
2010 Oct 13

Consult the [Training](#) page on our website for up to date schedules, prices and booking, as new courses are being added all the time.

On-site training

Do you have a group that requires training? Perhaps an on-site training course tailored to your workflow requirements would better suit your needs? Courses are scheduled regularly - please [contact us](#) with any questions or to discuss your needs.

Webinars

Learn from Petrosys Mapping Gurus at your desk, listen to software tips and tricks, learn about new features, get started with our products and more.

What's New in Petrosys v16.8

Presenter: Andrew Weller
Date/time: Thursday 4 Nov 2010, 1pm Perth/
Beijing (UTC/GMT +8 hours)

Discover ways in which the features and enhancements of v16.8 can streamline your workflows.

The Petrosys plug-in for ArcGIS - Integrated Workflows

Presenter: Andrew Dunn
Date/time: Wednesday 10 Nov 2010,
3pm London (UTC/GMT)

Geoscientists and engineers using ArcGIS can learn how to present their insight - integrated from several data sources - with the benefits of the Petrosys plug-in.

Jump Start to Using Petrosys

Presenter: Andrew Weller
Date/time: Tuesday 7 Dec 2010, 1pm Perth/
Beijing (UTC/GMT +8 hours)

A session to quickly get you acquainted with the core workflows and operations of our software.

[Click here](#) to visit our website and register.

Short Takes...

Petrosys Supports PPDM in Australia



The Professional Petroleum Data Management Association - PPDM - was able to improve its profile in Australia thanks to two successful meetings co-sponsored by Petrosys.

Coal Bed Methane

Queensland is the focal point for unconventional gas development in Australia, with domestic companies such as Origin and Santos joined by international players including ConocoPhillips, BG, Shell and Petronas. The PPDM user meeting in Brisbane, attended by clients who have been using Petrosys database products for over ten years, expressed a strong interest in participating in workgroups for the extension of the PPDM data model to meet the needs of coal bed methane and other forms of unconventional gas development.

Perth Highlights

The Perth PPDM Data Management Conference brought together over 70 delegates from all sectors of the industry, and several continents, for two full days of presentations, workshops and discussions. Key areas of discussion included:

- How new computing interface technology, GIS and Master Data Stores interact to create stronger data management strategies.

- The often unrecognized importance of including everything from corporate assets to G&G project data in corporate data management strategies.
- Improving user trust through capturing metadata about how information is created and managed, thereby increasing its usefulness, has become a central theme for several data management strategies.
- Industry projects to clarify the terminology and practices for describing wells (What is a Well) and for describing the status, type and classification of wells (What is Well Status and Classification).
- A workshop, led by Geoscience Australia, provided industry with a valuable opportunity to have input into regulatory practices on well naming.
- Industry needs and plans for a comprehensive PPDM education and accreditation programme were discussed.
- The importance of planning and foresight in the management of seismic data, particularly for the management of physical tapes, was emphasized.
- Recommendations for enhancements to the PPDM data model standard were brought forward.

For further information on these and other PPDM events in your local region, visit www.ppdm.org.



USD Rates Make Mapping More Affordable

The current exchange rates of the US dollar are making Petrosys software and maintenance more affordable for many international clients. Our software and support are priced in USD. The Australian and Canadian local price lists are updated quarterly to reflect current exchange rates, and with the Canadian dollar hovering at USD parity and the Australian dollar catching up there has never been a better time to add some more Petrosys functionality!

Dear Steve...

I have just noticed that my SDF file has become very large after importing a large 3D survey. Is this a concern?

It certainly could lead to problems! Our current file size limitation on SDF files is 2Gb. If the SDF file gets to this limit, and you are editing it and adding more data, the file can become corrupt.

If you notice that you are getting close to this limit, a good option in this case is to dump your sdf file to an ascii file and then re-import this ascii file into a new SDF file name. This has 2 benefits: it will reduce the size of the sdf to its actual size, and it will remove any header error records that may have started to creep in - and these are where potential crashes of SDF files can occur.

If you need further details on achieving this, please send an email to support@petrosys.com.au

Thanks
Steve

Tracking Applications Upgrades

Letting you connect Petrosys to the latest releases of your other favourite applications continues to be a key driver behind the incremental software releases that we provide at frequent intervals. You can get detailed information about Petrosys compatibility with applications and operating systems versions in the [Support/Supported Environments](#) section of our web site. Here's a short summary of some of the newest applications versions supported by Petrosys

connectivity as at Petrosys 16.8sp2:

- Oracle 11.2.0.1
- ArcSDE 9.3
- ArcGIS Desktop 10
- OpenWorks R5000.0.1.0
- Petrel 2010.1
- GeoFrame 4.5
- Kingdom 8.5

Contact Petrosys [support](#) for information on releases that you don't see listed.