



TIGRESS NEWS & VIEWS

Tigress 3D Viewer - a new look to your data

Following development work through last year, we are pleased to offer users a new application that draws together your work in a single view.

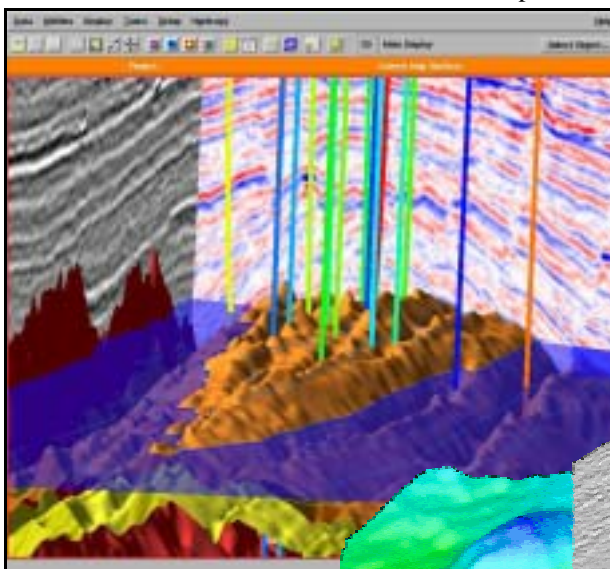
Inside this issue:

Tigress 4.6.3—plotting	2
Italian User Group	3
Russian User Group	3
ISA Map Browser	4

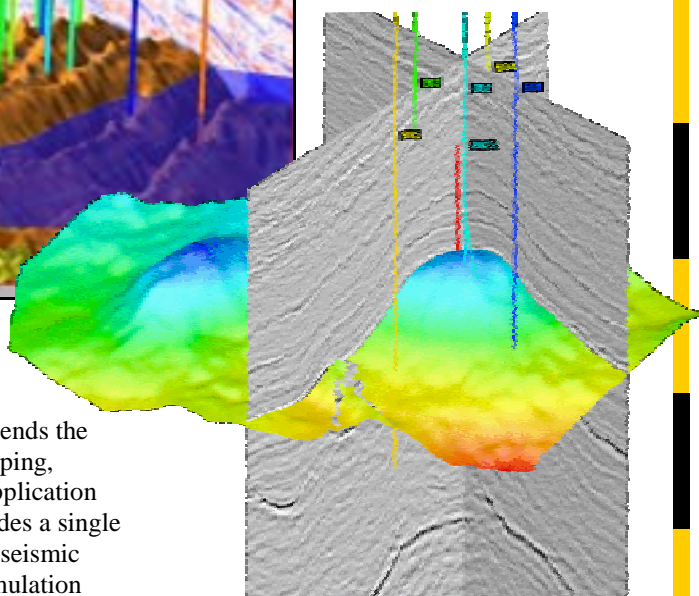
The 3D Viewer is a powerful new application, designed to give a detailed 3-dimensional view of the major geological, geophysical and production data components of the Tigress database.

As with all Tigress applications the 3D viewer has the full range and security of the Tigress database to select from. The

Data selection is via standard Tigress selection browsers. The image can then be manipulated using a range of controls: rotation, translation, stretch, and zoom. In addition the focus of rotation can be moved from the centre of the image to an offset position, or a distant location. Illumination controls allow the individual data items to be 'shaded' from different vantage points to help illustrate key structural elements.



The display of individual items can be modified in a variety of ways; colour shading, contour banding, labelling and grid lines can be applied, and transparency and fencing displays can be used to see through objects into the volume beneath.



displays build upon the existing AVS based graphics already used by the Tigress simulator. The 3D Viewer extends the viewing capability of the mapping, geological and geophysical application areas. This first release provides a single gateway to select and display seismic data, well paths, maps and simulation grids in a single window, allowing the user to see the juxtaposition of these different data elements in the depth domain.

As with all Tigress software the applications need no special hardware or graphics cards. Tigress delivers excellent performance from your PC.

Tigress UK on the move

PGS Tigress has moved the UK operations to new offices in Marlow, Buckinghamshire — you should have already received notification of the new address details. Our full contact details are given on the back of this newsletter and the key contact numbers are shown below:

Key numbers:

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4.6.3

Hardcopy I - Import Tigress plots into Windows

Tigress plots can now be loaded directly into Microsoft Windows applications.

Users of Windows software running the Windows 2000 offerings from Microsoft will be pleased to know that many of the popular windows applications (PowerPoint, Word, Publisher, Excel and so on) can now import graphic files directly in CGM format, the standard format used by Tigress. Exporting plot files from Tigress is straightforward—simply select the **'Data > Export'** menu item in **Hardcopy Plot** and specify a file name and directory path for your CGM file. This file can now be imported directly into the Windows application, typically using the **'Insert > Picture > from File'** menu. If the Windows application has not used CGM files before you may be asked to install additional Microsoft software—check with your systems administrator.



Export files from Hardcopy Plot

4.6.3

Hardcopy II - Generating screen captures

Screen captures of current displays are often the easiest and most appropriate method to display your data.

Various screen capture utilities are available but one of the more advanced and flexible programs is **'display'**, which is now standard on the Tigress Linux platforms, and can also be found on many of the Solaris and AIX systems where Tigress is installed. Produced by Image Magick, display is started from any



Tigress shell by typing **'display'** at the cursor prompt. In addition to saving the screen capture the display program offers some useful editing options such as changing the size, resolution and output format of the image.

More details on using display are given in the Tigress PC Edition User Guide (chapter 2, Taking screen captures in Linux).

4.6.3

Hardcopy III - Plot management and montaging

For those users who need to take hardcopy management a step further, we recommend using a dedicated plotting utility such as JustCGM from Justcroft.

JustCGM allows users to view and plot a variety of image formats, including CGM+ and CGM*PIP files. The image previewer provides tools to manipulate the image, including zoom, rotate and scale. The image can be saved to various popular bitmap formats such as TIFF, PNG, and JPEG or to the vector PDF format.

It has a true 'what you see is what you get' (WYSIWYG) preview for plots, and comes with drivers for all major hardcopy devices (HP, Postscript, OYO, Versatec

etc.).

Additional features include line joining and fill joining. In both cases short line segments or small colour fill triangles, present in some CGM files, can be merged, optimising the file, and greatly reducing the file size. This is especially useful if the image is to be taken into a drawing package, or even a Word document.

The next release from Justcroft will extend the plot management capability through the introduction of a plot montaging tool.

PGS Tigress is a reseller of this software and can provide the JustCGM package as part of our installation service on both Unix and Linux operating systems.

Tigress plot options:

- Export to Windows
- Screen dumps
- Plot formats & editing

Tigress User group meetings - Autumn 2002



Milan (24/10/02). Agip hosted a one-day forum for Tigress users in their head offices in San Donato. Originally organised for the head office group, the attendee list soon expanded to around 35 and we were pleased to welcome users from Congo, Croatia, UK, Norway and the Netherlands.

The morning session concentrated on data management issues, with Tigress staff outlining new developments in the areas of file formats (an XML version of the PBAAscii format is being developed to make the data more accessible to third-party applications), extensions to third party formats (Petrel and OpenWorks), and ongoing Open-Spirit work.

The afternoon session focussed on Agip's approach to the workflow, their plans to define recommended study routes for geological modelling, and a preview of a web-based information system under construction. Tigress concluded the forum with a short preview of the new GeoBrowse and 3D

viewer products (see articles in this issue. The day was rounded off by dinner, and a chance to sample the excellent Italian cuisine.

Moscow (30/10/02). The 6th annual Russian user group was held at the Russian Academy of Science in Zvenigorod, 60 km west of Moscow. 55 clients from over 20 companies attended the 2 day event.

As on previous occasions the bulk of the presentations were given in Russian. The sessions were divided into user forums and product presentations - giving the users a chance to raise questions and suggestions for product enhancements and fixes, and to see what new features had been added to the applications over the last year. Five user presentations were given, showing how these companies had approached their project work - with emphasis on mapping, seismic interpretation and well correlation all featuring. A visit to the Savvin-Storozhevsky

Monastery was well received on the second day as was the evening banquet. In keeping with tradition many vodka toasts were made and the party was soon in full swing with dancing and food mixed in a 4 hour marathon dinner. A number of die-hards continued the party into the early morning hours as new and old friendships were cemented in this incredibly friendly part of the world.

Users who were unable to attend either meeting but would like to raise any issues regarding the software (old or new) are welcome to contact us at any time.
helpdesk@tigress.co.uk

Over 30% of the user suggestions raised at the last meeting were implemented



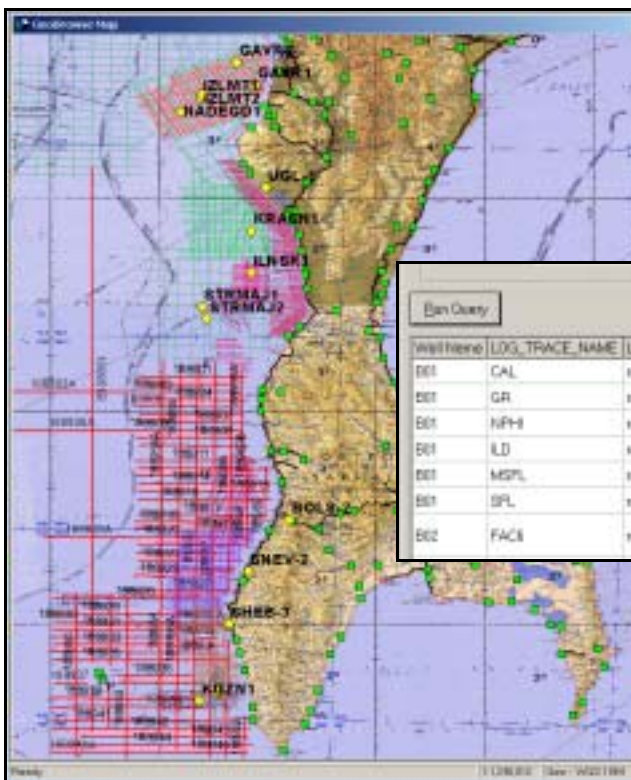


GeoBrowse and Tigress

Tigress has released the GeoBrowse product as an additional module for the PDS. Compatible with all 4.6 versions of Tigress, GeoBrowse allows the user to display map views and run live database queries on distributed Tigress, OpenWorks and GeoFrame projects simultaneously.

GeoBrowse offers Tigress users an excellent map-based view into the database world of the exploration and production environment.

Running on a PC environment GeoBrowse is able to interrogate Tigress, OpenWorks, GeoFrame and other databases *live* and *simultaneously*, without the need to access any of the corresponding application database licences.



Well Name	LOG_TRACE_NAME	LOG_TRACE_STATUS	LOG_TRACE_DESCRIPTION	TOP-DEPTH	BOTTOM-DEPTH
DE1	CAL	raw log curve	Caliper	-402.1839	2286.7524
DE1	GR	raw log curve	Gamma Ray	-402.1839	2286.7524
DE1	NPHI	raw log curve	Neutron Porosity	-402.1839	2286.7524
DE1	ILD	raw log curve	Induction Log Deep	-402.1839	2286.7524
DE1	MSP	raw log curve	Microspherically Focused Log	-402.1839	2286.7524
DE1	SFL	raw log curve	Spherically Focused Log	-402.1839	2286.7524
DE2	FACE	raw log curve	Synthetic Facies Trace (from creation)	1534.5823	2183.6459

files to build a detailed map view of any area. Roads, railways, coastlines, shipping lanes, pipelines and block boundaries can all be added to the display, and annotated, to illustrate key geographical aspects of the map area. Regional maps or detailed field structure maps can be used as a backdrop for high quality displays. Because GeoBrowse converts map projections on the fly, it can handle shape file inputs and databases using differing projections, and present them in a single view. GeoBrowse runs in the PC environment but is easily configured to access Tigress, OpenWorks and GeoFrame databases running in the Unix or Linux domain. Commercial sales have already been made to the Russian market and such is the value of the product that we expect this application to become a key component with all future Tigress sales.

Above: A GeoBrowse table view of log data available within wells held in the Tigress database, where the well selection and query have been made from the GeoBrowse map view.

Left: A GeoBrowse map showing the coastline of the southern part of Sakhalin Island, Russia. This is a composite view including a regional map, shape files for railways and major towns, and well locations and 2D seismic distributions read directly from a Tigress project.

This top-level view of the key well and seismic data distribution among these corporate and project data stores is an excellent starting point for any application user, and the more detailed queries on offer are an extremely useful tool for the serious data administrator. Do you know if the exploration department has a 2D line in OpenWorks that runs near your injector well? Does the old GeoFrame database have a different GR trace than your Tigress project? Does it extend below the Jurassic? GeoBrowse can provide quick answers to questions like these, and does so through a detailed, interactive map view that can be easily printed or saved for future use. Data selections can also be tabulated and exported direct to Excel spreadsheets.

As well as the ability to present the information from multiple databases in a single map view or query, GeoBrowse can supplement the display with GIS shape

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The current release of Tigress is 4.6.3