

p:IGI 3 New Additions

Columns

- p:IGI-3 now holds **687** pre-defined columns on **17** defined pages and **300** user-definable columns distributed on 5 pages (previously 392 + 100 in p:IGI-2.3)
- Each analytical page has a new set of three columns for Lab, Data and Quality to track where and when the various measurements were made. This will help identification of anomalous trends due to analytical and process-related variance between datasets compiled from different laboratory sources.
- More geochemical parameters have been added to every pre-defined page.
- Extensive additions have been made to the biomarker pages, with a more complete repertoire of sterane, tricyclic terpane and aromatic parameters.
- In addition two entirely new pages have been added:
 - *Misc. Biomarkers* (Drimanes, Diamondoids etc) (94 columns)
 - *Age Related Biomarkers* (30 columns)

General Updates

Graphs

- All graphs have been revised, overlays edited and changes made where appropriate
- 9 new autograph templates (e.g. van Krevelen Diagrams (kerogens and solid bitumens), Gas Maturity, Galimov isotope plots) have been added and new ones will constantly be added.

Help pages

- New geochemical help pages have been added to provide information on many of the new columns.

World Data

- The world database now holds published, author-referenced geochemical information for >8000 samples from all over the world. The data come with a PDF listing the references.

World Maps

- The world map has been completely overhauled in high resolution to provide high-accuracy geo-referencing of databased samples.
- A set of regional maps was added, all in homogenous high quality style, covering various “hot” petroleum provinces e.g. the North Sea, Africa

Handling and functionality

- Improved Spreadsheet Column Width Control
- PeakMeasure application added – allows re-measurement of peak heights in chromatograms from scanned or saved images
- A parent-daughter folder structure has been added to the Sample Set tab, allowing better organisation of sample sets in sub-folders
- General improvement of workflow in various menus

Known Issues

Procedure for Using the Improved World Map.

As part of the improvements in pIGI 3, the World Map has been recreated with increased resolution to provide extra zoom detail.

The World Map included with pIGI 3 has been created with a Cylindrical Equidistant projection while previous versions of pIGI incorporated a World Map that was created with a Cylindrical Mercator projection.

As the World Map settings are saved as part of the project information, any project files that have been saved with pIGI applications earlier than version 3 will require a simple manual update to reflect the new World map settings.

This manual update process relates to projects using the file ‘worldmap.emf’.

Once a project file is loaded, clicking the World Map toggle icon will display the World Map. If there is a mismatch with the map projection then the lat/long gridlines will be visually inconsistent with the size of the underlying World Map image.

A right click on the World map display and subsequent selection of the ‘Map Image’ option from the pop-up menu will bring up the Map Image tab on the Map Settings dialog.

Assuming the default settings of:

1. the file ‘worldmap.emf’ is selected in the ‘Choose Map Image’ list, normally the first in the list, and;
2. the ‘Map Image Handling’ option for working with the native Enhanced Metafile is selected;

Simply click OK to refresh the World Map using the improved pIGI 3 file.

The World Map should redraw with the lat/long gridlines correctly aligned to the underlying image.

Finally, save the current project file to store the new World Map settings. Note that for ig2 files you will be prompted to save the file with an ig3 extension.

Corrections to some column definitions (formulae and units)

We have updated the column definitions for p:IGI-3 to correct a small number of errors in formulae or units, as follows:

Column <324> unit group corrected

Column <645> formula corrected (4/[1+3-diamantane])

Column <667> formula corrected (norcholestane ratio)