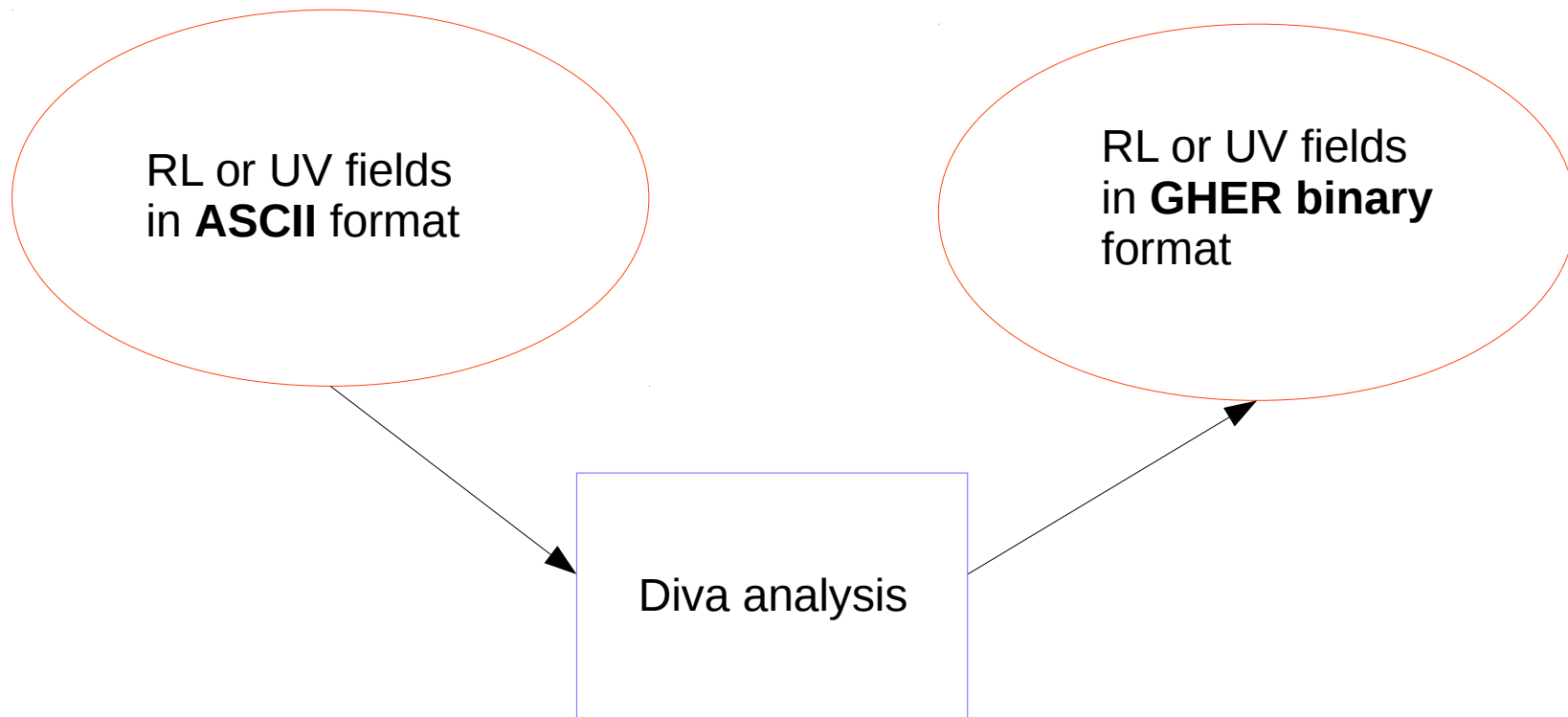


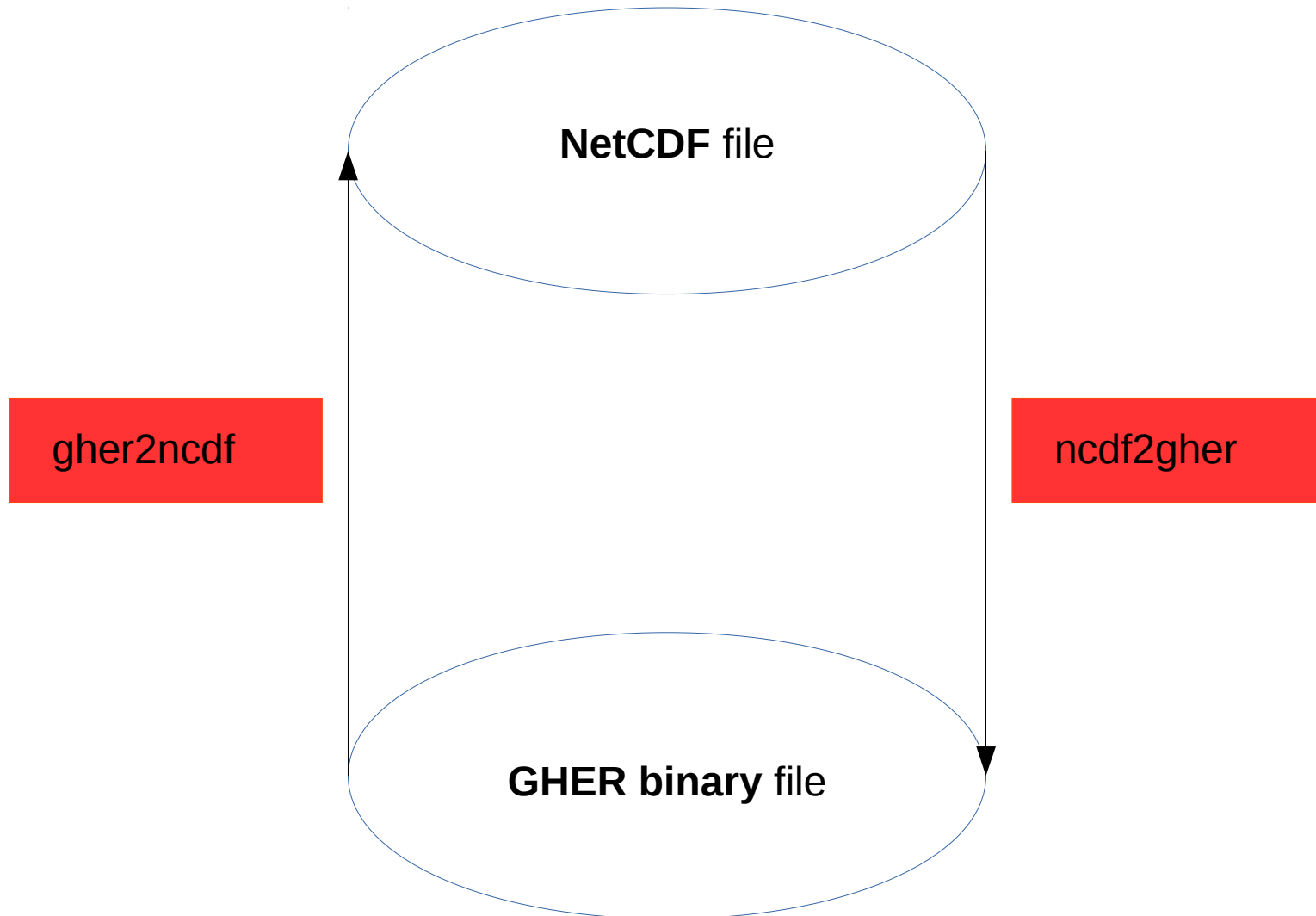
One year of DIVA highlights...

Sylvain Watelet

Diva-4.6.7 (October 2014)

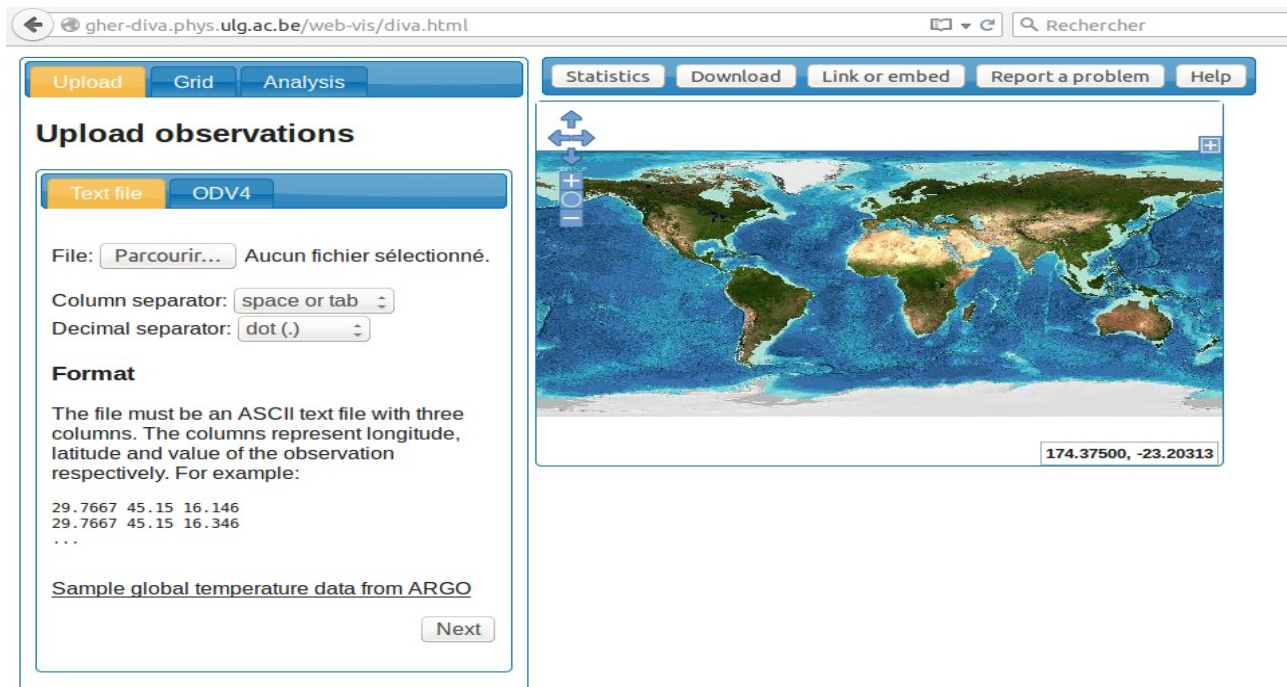


Diva-4.6.8 (December 2014)



Diva-4.6.8 (December 2014)

Extraction of **topography** from diva-on-web...



The screenshot shows the Diva web interface. The browser address bar displays 'gher-diva.phys.ulg.ac.be/web-vis/diva.html'. The interface has a top navigation bar with 'Upload', 'Grid', and 'Analysis' tabs. Below this, there are buttons for 'Statistics', 'Download', 'Link or embed', 'Report a problem', and 'Help'. The main content area is divided into two panels. The left panel, titled 'Upload observations', has sub-tabs for 'Text file' and 'ODV4'. It contains a file selection area with a 'Parcourir...' button and the text 'Aucun fichier sélectionné.'. Below this are dropdown menus for 'Column separator:' (set to 'space or tab') and 'Decimal separator:' (set to 'dot (.)'). A 'Format' section explains that the file must be an ASCII text file with three columns representing longitude, latitude, and observation value, providing an example: '29.7667 45.15 16.146', '29.7667 45.15 16.346', and '...'. A link for 'Sample global temperature data from ARGO' and a 'Next' button are also present. The right panel shows a world map with a blue color scale representing topography. A vertical scale on the left of the map ranges from -10 to 10. A coordinate box in the bottom right corner of the map displays '174.37500, -23.20313'.

... now enriched with the ability to **mask user-defined zones**

Diva-4.6.8 (December 2014)

- Possibility of using different **reference field** for each season
- Data binning much faster
- Patch for variable names containing **white spaces**

...

Diva-4.6.9 (March 2015)

- Obsid, obslon, obslat, obsdepth in 4D netCDF
- **Time series** are now handled (see doc.)
- Compatibility with **Mac OS**
 - + patch with **weighting option**

Diva-4.6.10 (June 2015)

- Mainly technical upgrades & bug fixes
- Divadetrend faster
- Divatest tests the presence of bc
- Weighting option included

Diva-4.6.11 (October 2015)

- **Current version**, available at <http://modb.oce.ulg.ac.be/mediawiki/upload/DIVA/releases/diva-4.6.11.tgz>
- Creation of very **large 4D netCDF** files (> 2Go)
- **divacutNCDF** : a tool to **cut the domain** of your final NetCDF

Diva-4.6.11 (October 2015)

- **More general detection of non-sdn profiles** through the use of position
- Warning in case of **varying time** inside a single profile

Future...

- Extraction of data from the sea bottom
- Correlated observational errors
- Better file structures (input and driver better separated from command) in 4D loops
- Automatic selection of solver (parallel, serial, iterative) depending on the problem type and size

Useful links

→ How to get DIVA ?

http://modb.oce.ulg.ac.be/mediawiki/index.php/DIVA#How_to_get_the_code.3F

→ History of DIVA new features and bug fixes

http://modb.oce.ulg.ac.be/mediawiki/index.php/New_Diva_Features

→ DIVA documents (installation & use)

http://modb.oce.ulg.ac.be/mediawiki/index.php/Diva_documents