PanGet

Introduction
The software **PanGet** is a special tool for the download of multiple data sets from PANGAEA. It uses the PANGAEA data set ID which is unique and part of the DOI (see http://doi.org). In a first step a list of ID's of those data sets to be downloaded must be created. There are three choices to define this individual collection of sets. Based on the ID list, the tool will be downloaded the data sets. Failed downloads are written to the file *_failed.txt.

Installation
Download `PanGet_Win.zip` from the PANGAEA web server (http://www.pangaea.de/software/UsefulTools/) and unpack it (you have already done it) Double-click the PanGet program file on your hard disk to start the setup program. Follow the instructions on the screen to complete the installation.

Creating a list of IDs
Before you start PanGet you need a list of IDs of the datasets you want to download from PANGAEA. So create a list of IDs with the PANGAEA search engine (Case A) or with the 4D client (Case B).

Case A: Define a query with the PANGAEA search engine (http://www.pangaea.de/), and change "`http://www.pangaea.de/search?count=10&...`" in the search-URL to " http://www.pangaea.de/search?count=xxx&... " with xxx=number of datasets found. All hits (max. 500) will be listed on one HTML-page! Save this page as HTML-File (select "HTML only" as file type!).

Case B: Open the dataset table and configure the list: the datset ID has to be in the first column and the "Export filename" in the second one. Now search for the dataset selection you want (e.g. Project is equal to NECLIME (80 datasets) or Parameter is equal to "Silicate [µmol/l]" (10,247 datasets)) and store the resulting list as a text file on your computer, let's say in `C:\SINOPS`. Attention: 4D can download only a maximum of 30,000 items in a list.

Download datasets from a list of IDs
Start the program PanGet and browse to the file you created before. Click the Go button. PanGet downloads all data sets sequentialy, progress is shown. The download time depends on the number and size of the datasets.

Visualization of data with Ocean data view
If you have downloaded many files it is a good idea to convert these files to Ocean data view (http://odv.awi.de). All of the data you downloaded are in a consistent format (ASCII, metadata and data in one file). This was the basis for the development of the program Pan2Applic (http://www.pangaea.de/software/Pan2Applic). It permits the easy conversion of the files delivered by PANGAEA in the special import format of ODV.

After the start of the program Pan2Applic the user can select single files (`Ctrl+E`) or simply the whole directory (`Ctrl+O`). At first Pan2Applic analyzes all files and gives a list of environments, if more than one environment is found. If there are several environments, the user can select in a dialog for which geocode (sediment, water, age, etc.) the ODV import file should be created. If only one environment is found in the data, this list is not shown.

Afterwards the user has to select in a second dialog the parameters which should be changed into the import format of the program ODV.

After finishing this choice the conversion process begins to work. This can take some time. Pan2Applic creates a directory with the name "ODV Collection" in the chosen data directory. A file with the extension ".txt" is written into this directory. This file contains the selected parameters in the import format of ODV. Now the user can simply drag this file onto the program ODV. ODV starts and the file is imported. Alternatively Pan2Applic can also start the program ODV automatically after the conversion by importing the file. The automatic starting of ODV can be switched on in the option dialog.

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