HISTORY OF CALPAL 1984-2016 Most Recent Update: 12th March 2016 (Edition 2016.2)

2016 Assembly of Edition 2016.2

- 2016 Amendments to CalTable: When not needed, Climate and Normalisation Tools are hidden
- 2016 Amendments to Reservoir Explorer: OK & CANCEL Buttons with question icon
- 2016 Climate Data integrated: ODP-976 25 ka SST wMed
- 2016 Systematic New Design of Climate Records: Free selection of climate graph variables
- 2016 Systematic New Design of Climate Records: 'Nice Trackbar Positioning' of climate records
- 2016 Systematic New Design of Climate Records: 'Nice Numbers' on climate graph scales
- 2016 Amendments to Database Dialog: Identification and naming of data errors during xls-import
- 2016 New Function in Database Dialog: Select All Dates Button
- 2016 New Function in CalDiet: Timer added
- 2016 New Function in Reservoir Explorer: Edit Select File Log
- 2016 Bug Fix in Select File Delete: Multiple file deletion is now correctly supported
- 2016 Climate Data integrated: SL-31 Aegean, Sapropel S1
- 2016 Climate Data integrated: LC-21 Cyprus, Sapropel S1
- 2016 Climate Data integrated: LC-31 Aegean, Sapropel S1
- 2016 Climate Data integrated: SL-112 Levantine Coast, Sapropel S1
- 2016 Climate Data integrated: SL-148 Aegean Sea, Sapropel S1
- 2016 Climate Data integrated: SL-123 Aegean, Sapropel S1
- 2016 Climate Data integrated: MD04-2722 Levantine Deep Water, Sapropel S1
- 2016 Unification of Store/Delete Select File routines with access from different dialogs
- 2016 Update to Winteracter 10.10a
- 2016 Max number of select files increased from 99 to 200 and defined as variable parameter
- 2016 New Function on CalKN: Storage of 14C-Data as Select dataset (ASCII with cal crossbars)
- 2016 New Function on CalTable: Storage of 14C-Data as Select dataset (ASCII with cal crossbars)
- 2016 Bug Fix in CalTable: Inconsistent calBC/AD-CalBP-cal2k scales corrected
- 2016 Bug Fix in Reservoir Explorer: Missing Time-Scale Numbers on Export Graph
- 2016 Bug Fix in Reservoir Explorer: Missing Time-Scale Numbers on Export Graph

2016 Assembly of Edition 2016.1

- 2016 Amendments to GaussWM: Automated documentation of applied GaussWM method
- 2016 Amendments to GaussWM: Storage of non-shuffle-derived errors for Reservoir Explorer
- 2016 Caution Report in Excel-Export: ID-Nr in Column 1 of xls-Database must be sequential (1,2,3...)
- 2016 Amendments to GaussWM: Storage of shuffle-derived marginal errors for Reservoir Explorer
- 2016 Amendments to GaussWM: Scaling of Randomized Probability Graph optimized
- 2016 Amendments to GaussWM: Randomized Results shown identical in Table (EDIT) and Grid
- 2016 Variable (but restricted) Time Window in CalCurve Composer replaced by pulldown Menu
- 2016 Variable (but restricted) Time Window in Reservoir Explorer replaced by pulldown Menu
- 2016 New Function in root-menu [File]: Routine to test whether selected xls-file has CalPal-Format
- 2016 Store New CalCurve and Remove CalCurve functionality added to CalCurveComposer
- 2016 Winteracter 10.10 PlotConv Help File added to CalPal-Installation
- 2016 Update to QTDateTime Library Version 1.02
- 2016 New Function in Database: Export of Database ¹⁴C-Grid via Printer Manager (incl.pdf)
- 2016 New Function in GaussWM: Export of GaussWM ¹⁴C-Grid via Printer Manager (incl.pdf)
- 2016 New Function in CalTable: Export of CalTable ¹⁴C-Grid via Printer Manager (incl. pdf)
- 2016 New Function in all Dialogs: Export of Graphs via Printer Manager
- 2016 Unification of ChildWindow, Dialog, Menu, and Toolbar Fortran Names
- 2016 Unification of View function Window: [AlwaysOnTop]
- 2016 Unification of Editor function Window: [AlwaysOnTop]

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2016 Unification of ChildWindow Management: [Minimizing only via Main Menu]
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- 2016 Unification of ChildWindow Management: systematic Grandparent-Parent-Child maintenance
- 2016 CalPal-Format Climate Record Database [Climate.log] contains 242 climate records
- 2016 CalPal-Format Radiocarbon Database [Europe.xls] contains 22800 Dates, 85.8 % georeferenced
- 2015 Amendments to Multimethod: Corrections in alignment and multiple writing of numeric output
- 2015 Amendments to Multigroup: Corrections in alignment and multiple writing of numeric output
- 2015 Unification and amendments of printer-dialogs: additional functionality in print options
- 2015 Amendments to xls-write: Additional Functionality with Timer based on QTDateTime
- 2015 Amendments to CalKN: Additional Functionality with Timer based on QTDateTime
- 2015 Amendments to GaussWM: Additional Functionality with Timer based on QTDateTime
- 2015 Amendments to CalTable: Additional Functionality with Timer based on QTDateTime
- 2015 Integration of QTDateTime Library Version 1.01
- 2015 Update to Winteracter 10.10
- 2015 Amendments to CalTable-Dialog: Corrections in updating of grid labels and data numbers
- 2015 Amendments to CalKN-Dialog: Database Import corrected (previously: wrong format).
- 2015 Amendments to Excel-Viewer: Additional functionality along with some minor corrections.
- 2015 Amendments to Excel-Viewer: System crash under certain (large file) conditions repaired.
- 2015 Climate Data integrated: Alepotrypa Cave Peloponnese ¹³C (4200 yr calBP event)
- 2015 Climate Data integrated: Alepotrypa Cave Peloponnese ¹⁸O (4200 yr calBP event)
- 2015 Climate Data integrated: MD99-2343-UP10 (showing W-med RCC-sequence)
- 2015 Climate Data integrated: Lake Prespa TIC (Glacial Period, showing Heinrich events)
- 2015 Climate Data integrated: Gueldaman Cave Algeria ¹³C (4200 yr calBP event)
- 2015 Climate Data integrated: Gueldaman Cave Algeria ¹⁸O (4200 yr calBP event)
- 2015 Amendments to GAUSSWM dialog. Added Excel-export of numeric errors
- 2015 Amendments to GAUSSWM dialog. Functional Tests & Optimization of Monte Carlo Analysis
- 2015 Amendments to GAUSSWM dialog. Summed Random Shuffle (Prob & Precision & Factor F)
- 2015 Amendments to GAUSSWM dialog. New GaussWM study feature: Random Phase Shuffle
- 2015 Amendments to GAUSSWM dialog. New GaussWM study example: Varna
- 2015 Amendments to GAUSSWM. Optional Non-Central Chi-Squared (Default: Chi-Squared)
- 2015 Climate Data integrated: Soreq Cave ¹³C (2-13100 calBP), courtesy M Bar-Matthews
- 2015 Climate Data integrated: Soreq Cave ¹⁸O (2-13100 calBP), courtesy M Bar-Matthews
- 2015 Amendments to GAUSSWM dialog. Updated INVERT Spreadsheet function
- 2015 Amendments to GAUSSWM dialog. Enhanced Age Model Construction (DEPTH column)
- 2015 Amendments to GAUSSWM dialog. New Dialog for Age Model Construction (PHASE column)
- 2015 Amendments to GAUSSWM. xls-Import onto PHASE-Column in spreadsheet
- 2015 Amendments to GAUSSWM. Introduction of PHASE-Column in spreadsheet
- 2015 New GAUSSWM Function. Random shuffling on spreadsheet PHASE-column (e.g Varna Dates)
- 2015 Bug Fix in GaussWM. Double STD checkbox corrected
- 2015 Amendments to GaussWM. Update of labels for number of ¹⁴C-data in Grid
- 2015 Win 10 installed. CalPal Compilation tested
- 2015 Climate Data integrated: Lake Neor, Iran, Eolian Dust
- 2015 Climate Data integrated: Qingtian Cave 180 Early Holocene
- 2015 Amendment in CalKN: Export Graph call corrected to work on slow PCs
- 2015 Bug Fix in CalTable: Correction of multiple overwrite of DATE LIST (smudged numbers)
- 2015 Amendments to CalTable Graph: use of Helvetica stabilizes number-positioning on ¹⁴C-scale
- 2015 Amendments to CalTable: Introduction of field for numeric display of estimated run-time [min]
- 2015 Update to Winteracter 10f
- 2015 Amendments to CalTable: DATABASE Button added, in support of database xls-import
- 2015 Amendments to GaussWM: Delta and Sum Values updated immediately on spreadsheet-entry
- 2015 Bug-Fix in GaussWM: xls-Mode (Files->Save) previously ignored changes in spread-sheet
- 2015 ¹⁴C-dates for further Egyptian Dynasties added to Europe.xls (data from Oxford Project).
- 2015 Egyptian 1st Dynasty added as further example for GAUSSWM-dialog xls-Import

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2015 Climate Import Dialog Screen Size reduced to fit Notebook (1280x800 pixel)
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- 2015 Climate Data integrated: Jeita Cave Diameter Holocene
- 2015 Climate Data integrated: Soreg Cave δ¹⁸O Holocene
- 2015 Climate Data integrated: Soreq Cave δ^{13} C Holocene
- 2015 Climate Data integrated: Golf of Oman CaCO₃ (Eolian Dust)
- 2015 Climate Data integrated: Red Sea Aridity Index Holocene
- 2015 Climate Data integrated: Red Sea Clay Content Holocene
- 2015 Climate Data integrated: Corchia Cave (Italy) δ¹³C Holocene
- 2015 Climate Data integrated: Corchia Cave (Italy) δ^{18} O Holocene
- 2015 Climate Data integrated: Hoti Cave H5 H12 Combined δ^{18} O Holocene
- 2015 Climate Data integrated: SL148 EM3 North Aegean
- 2015 Climate Data integrated: Lake Miribad δ^{18} O Holocene
- 2015 Climate Data integrated: Lake Zeribar δ^{18} O Holocene
- 2015 Climate Data integrated: Lake Van δ^{18} O Holocene
- 2015 Climate Data integrated: Lake Eski Acigol δ^{18} O Holocene
- 2015 Climate Data integrated: Lake Golhisar δ^{18} O Holocene
- 2015 Climate Data integrated: Lake Ioannina δ^{18} O Holocene
- 2015 Climate Data integrated: SE Levantine Sea site SL112 EM3
- 2015 Climate Data integrated: Jeita Cave δ^{18} O Holocene
- 2015 Climate Data integrated: Jeita Cave δ^{13} C Holocene
- 2015 Standardization of RUN-Dialogs: exit via CANCEL (Yes/No) and OK (Yes/No/Cancel) Buttons
- 2015 Amendments in GaussWM and CalTable Grid: 14C-age and 14C-STD must be ≥1
- 2015 Amendments in GaussWM Dialog to support File Information Management
- 2015 Bug Fix in GaussWM Dialog: Blue colour marking of grid rows for Insert/Delete Line stabilized
- 2015 Amendment to GaussWM Dialog: Excel-Import and ASCII-Export
- 2015 Amendment to GaussWM Dialog: Excel-Import-Export File-Selector options: Save & Save-As
- 2015 Amendment to GaussWM Dialog: Excel-Import-Export of GaussWM Format Datasets
- 2015 Amendment to CalTable Dialog: Excel-Import-Export File-Selector options: Save & Save-As
- 2015 Amendment to CalTable Dialog: Excel-Import-Export of Standard Database Format Datasets
- 2015 Bug Fix in GaussWM: Select File Cancel (with no file defined) previously caused crash.
- 2015 Bug Fix in GaussWM: Grid Results stabilized (previously reset by certain mouse-clicks).
- 2015 Normalization tested for small (< 1BP) STD and dense Dirac sequences (1 sample/yr, 40000 yrs)
- 2015 Expansion of variables completed for all dialogs. New CalGroup limit: 10 * 40000 dates.
- 2015 Expansion of variables to allow calibration of > 1000 dates. New CalTable limit: 40000 dates.
- 2015 Amendments to CalTable Dialog: Optional BarCode representation
- 2015 Amendments to CalTable Dialog: New Subdialog (MAKE SET) to produce uniform cal-scale data
- 2014 Amendments to Normalization Routine: Integration limits tested for large standard deviations
- 2014 Amendments to Multigroup Database Dialog: numeric field for number of filtered data added
- 2014 Bug fix in Dialog Reservoir Explorer: double click previously caused unrequested program exit
- 2014 Update to Winteracter 10.0d
- 2014 Major Reworking of Climate Record Import Dialog (XLS- and CSV-Import)
- 2014 Amendments in Climate Record Import Dialog: New Function: CSV-Format Import from Scan
- 2014 Climate Data integrated: Lake Iznik Ca/Ti
- 2014 'Climate Data' Files added: Two Scanned Probability distributions from Bueno et al 2013 (Fig.2)
- 2014 Brazil Archaeological 14C-Database Bueno et al 2013 added
- 2014 Amendments to Database Spreadsheet: Tagged Data are now immediately stored by Select Tag
- 2014 Climate Data integrated: NGRIP Temperature Reconstruction
- 2014 Amendments in Climate Record Import Dialog: ASCII-Format Import from automated scan
- 2014 Climate Data integrated: Lake Trifoglietti Precipitation Reconstruction, Italy
- 2014 Climate Data integrated: Lake Pergusa Arboreal Pollen, Italy
- 2014 Climate Data integrated: Preola Lake Levels, Italy
- 2014 Climate Data integrated: Lake Haukadalsvatn, Iceland, 0-10 ka calBP

- 2014 Update to Winteracter 10.0c
- 2014 Climate Data integrated: Lake Qinghai [%-redness], proxy for precipitation.
- 2014 Installation: to facilitate installation on Chinese Win-OS, file-name Körtik is changed to Kortik
- 2014 GaussWM Dialog: Linear Extension Button 2 yrs added
- 2014 Climate Data integrated: Yuexi Peat, d13C, Indian Summer Monsoon
- 2014 Climate Data integrated: Lake Accesa Italy, 4.2 ka calBP event
- 2014 Amendments to CalTable Dialog: NoDatalist graphic output corrected
- 2014 Amendments to Climate Dialog: Dots made functional; Screen Measurements; Values Coloured
- 2014 Unification of Editors (all Dialogs), View-Only options taken out: all files can be edited
- 2014 Amendments to Climate Dialog: Mouse Screen-Scaling installed, optional cursor-switch & grids
- 2014 Update to Winteracter 10.0. Export of jpeg-graphs (courtesy: http://www.openjpeg.org/)
- 2014 Amendments in Multigroup Database xls-Import: filter texts are now correctly reset.
- 2014 Climate Record updated: Dust Storms in China (Hui et al., 2013) Data Courtesy Deng Hui
- 2014 Climate Data integrated: Cariaco Titanium, ITCZ.
- 2014 Climate Data integrated: Heshang Cave 180, 8.2 ka calBP event.
- 2014 xls-Export Dialog: Currently selected calibration curve added to information field
- 2014 GISP2 Glaciochemical Element climate record files: Central Depth and Age Values referenced
- 2014 New Dialog: Construction of Stacked Climate Records
- 2014 Amendments to Climate Dialog: Remove-File from Climate Log made functional
- 2014 Amendments to Climate Dialog: EDIT-function: immediate update of changes to climate file
- 2014 Climate Data integrated: Lake Qinghai Holocene Dust Flux
- 2014 Climate Data integrated: N Spain Holocene Stalagmite 13C
- 2014 Climate Data integrated: Lake Prespa Co1215 TOC
- 2014 Amendments in Climate Record Smooth Dialog: Y-Scaling corrected
- 2014 Climate Data integrated: Lake Stymphalia Rb/Sr
- 2014 Climate Data integrated: Mt Sedom Tamarix 13C
- 2014 Climate Data integrated: Lianhua Cave 180 Central China
- 2014 Climate Data integrated: Sanbao Cave 180 Central China
- 2014 Age-Multipliers (1,10,100,1000) added to Climate Record xls-Import Dialog
- 2014 Invert Table function added to GaussWM (optional depth-inversion)
- 2013 Climate Data integrated: Lake Iznik XRF, Data: courtesy Finn Viehberg
- 2013 Climate Data integrated: Lake Petit [Detrital %], Data: courtesy Elodie Brisset
- 2013 New INTCAL13 Rawdata Sets 1-17,20-22,24-26
- 2013 New Floating Dialog in CalCurve Composer to allow choice of select.log
- 2013 New Floating Dialog in Reservoir Explorer to allow choice of select.log
- 2013 Amendments to GAUSSWM Dialog to simplify use
- 2013 New Option in GAUSSWM: optional checkbox to double STD of input data
- 2013 Bug fix: in GAUSSWM very large STD read/write format error removed
- 2013 Calcurve Comparison pdf updated to include INTCAL13
- 2013 Bug fix: in ODBC xls-Export Dialog, for large xls-databases, CANCEL leads to program crash
- 2013 Climate Record added: Dust Storms in China (Hui et al., 2013)
- 2013 Minor Amendments in ODBC xls-Import Dialog (Initializing Dialog, Paths, EDIT)
- 2013 Multigroup Tables extended to include calBP-scaled data
- 2013 Change of default calbar-file for projection onto INTCAL09-curve.
- 2013 INTCAL13 Calibration Curve integrated.
- 2013 INTCAL13 Calibration Data integrated.
- 2013 Bug Fix: incomplete cal-data error analysis. All dialogs now produce identical cal-ages.
- 2013 Version Sep: 14C-Database "Europe-xls" extended (N=21464 entries, 82 % georeferenced)
- 2013 Database Select: Incomplete Filter Bug removed
- 2013 Version July: 14C-Database "Europe-xls" extended (N=20.850 entries, 77 % georeferenced)
- 2013 Version May: 14C-Database "Europe-xls" extended (N=20.020 entries, 75 % georeferenced)
- 2013 New CalCurve Construction Data Set: Cariaco 2012 (Bronk Ramsey && 2012)

- 2013 Identical Read/Write Documentation in Multigroup, CalKN and CalDiet
- 2013 Documentation of Filter Sequence (max 4 Filter Steps) in Multigroup Spreadsheet
- 2013 New Red Light Warning Field in CalCurve Composer for undefined spline envelope.
- 2013 Removal of 'NaN' bug in CalCurve Composer (IMSL-CSVAL undefined spline envelope)
- 2013 New CalCurve Construction Data Set: IODP 310 Core (Durand && 2013)
- 2013 Climate Data integrated: Mawmluh Cave India d180
- 2013 Climate Data integrated: Pacupahuain 180
- 2013 Climate Data integrated: Complete Set of Depth-scaled GISP2 glaciochemical records
- 2013 Temporary introduction of password not4sfb806 for unzip routine
- 2013 Simplified Dialog for climate record xls-import
- 2013 Archaeological ¹⁴C-database "Europe-xls" extended (N=18.800 entries)
- 2013 New Dialog for ¹⁴C-database xls-export of calibrated ¹⁴C-ages by Winteracter 9.0 ODBC-routines
- 2013 New optional selection of 32/64 bit Win-OS (Winteracter 9.0), but only 32 bit presently used.
- 2013 Replacement of all F90SQL xls-import routines with Winteracter 9.0 ODBC-xls-routines
- 2013 Update to mathematical libraries IMSL 6.0
- 2013 Fortran Compiler Change from Lahey F90 to Intel Visual Fortran Composer XE

2012 Hulu H82 Climate and U/Th-14C Data integrated

- 2012 Climate Record Age-Depth Timescale Transfer Dialog
- 2012 Climate Record Age-Age Timescale Synchronisation Dialog
- 2012 Climate Data Integrated GISP2 Glaciochemical Ions (incl ice-core depth
- 2012 Climate Record Graphic Mouse Digitisation Age-Depth Dialog
- 2012 Climate Record Graphic Mouse Digitisation Age-Age Dialog
- 2012 Spreadsheet 14C-Database dialog debugged (alphanumeric sorting)
- 2012 Spreadsheet 14C-Database dialog provided with multipage Postscript Export

2011 Climate Record Smooth Dialog

- 2011 Worksheet Database Management Dialog
- 2011 Excel Export (allows xls-export including cal-ages)
- 2011 Optimized Gaussian Monte Carlo Wiggle Matching Method
- 2011 Normalisation Functionality (Classical Bayesian vs Quantumtheoretical Bayesian)
- 2011 Climate Record Function Derivatives Dialog

2010 Climate Data integrated:SL21 Aegean

- 2010 Climate Data integrated:Tenaghi Philippon 8.2 ka Tree/NonTree Pollen
- 2010 Climate Data integrated: Sufular Cave 13C
- 2010 Climate Data integrated: Sufular Cave 180
- 2010 Climate Data integrated: Global Sea Levels
- 2010 Climate Data integrated:Black Sea Salinity
- 2010 Climate Data integrated:Black Sea Ti/Ca
- 2010 Climate Data integrated:Black Sea 87Sr/86Sr
- 2010 Climate Data integrated: Caverna Botuvera Brazil Stalagmite BTV4C
- 2010 INTCAL09 Calibration Data integrated

2009 Climate Data integrated:CalPal Hulu D14C

- 2009 Climate Data integrated: Holocene Dead Sea Level
- 2009 Climate Data integrated:RedSea GeoB5844-2 GRuber
- 2009 Climate Data integrated:RedSea GeoB5844.2 Salinity
- 2009 Climate Data integrated: Q5 Cave Oman d180
- 2009 Climate Data integrated:Black Sea
- 2009 Climate Data integrated: Katerloch Austria 13C
- 2009 Climate Data integrated: Katerloch Austria 180

2009 Climate Data integrated: GISP2 Chroride Ions

2008 Climate Data integrated: GISP2-GLOPIS

2008 Climate Data integrated: HULU-GLOPIS

2008 Climate Data integrated:Bond Events Stack

2007 Climate Data Import and Rescale Dialog

2007 14C-Age Calibration Import and Rescale Dialog

2007 Storage and Retrieval of Calibrated 14C-Distributions as Proxies

2007 Climate Correlation Dialog

2007 Integration of INTCAL04-Marine Calibration Curve

2007 Seventh Glacial Calibration Curve (CalPal 2007 Hulu)

2007 Mesolithic Early Neolithic 14C Database Northwest Europe

2007 Climate Data integrated: Aegean Core LC21 and GISP2 K+ and Na+ Ions

2006 Worksheet Quick 14C-Input

2006 Optional Switch between calBP and calBC/AD Timescales

2005 Visual Tool for 14C-Database Management (MultigroupComposer)

2005 Visual Tool for Mixed 14C and TL-U/Th-Database Management ethodComposer)

2005 Visual Tool for Variable Cal-Age and 14C-Age Shift (Reservoir-Explorer)

2005 Integration of Globalmapper (SRTM High-Resolution Radar Satellite Cartography)

2005 INTCAL04 14C-Age Calibration Integrated

2005 Sixth Glacial Calibration Curve (CalPal 2005 SFCP)

2005 Fairbanks Sep 05 Standalone 14C-Age Calibration integrated

2005 Visual Tool for 14C-Database Management (MultigroupComposer)

2004 Fourth Glacial Calibration Curve (CalPal 2004 Jan)

2004 QuickCal PC-Standalone 14C-Age Calibration (Perl)

2004 Visual Tool for Climate Proxy Timescale Transfer (TimeScaleComposer)

2004 Fifth Glacial Calibration Curve (CalPal 2004 SFCP)

2003 Lahey Fortran Compiler LF5.7 & Winteracter 5.1

2003 Visual Tool for Calibration Curve Construction (CalCurveComposer)

2003 Third Glacial Calibration Curve (CalPal 2003)

2003 Near Eastern & Anatolian Early Neolithic 14C-Cartography

2003 World-Wide-Web On-Line 14C-Age Calibration (Perl)

2002 IMSL Mathematical Libraries

2002 European Middle and Early Upper Palaeolithic 14C-Cartography

2001 Second Glacial Calibration Curve (CalPal 2001)

2001 Integration of PanMap (High-Resolution Cartography)

2000 Multiple 2-D Dispersion Archaeological Group Calibration

1999 Fortran-ODBC-Connectivity with F90SQL

1998 First Glacial Calibration Curve (CalPal 1998)

1998 Graphic Climate Context Calibration (Climate Composer)

1997 Lahey Fortran Compiler LF5.0 & Winteracter 3.0 GUI

1995 Compaq Visual Fortran CVF5.0 Compiler (HPGL)

1993 KÖLN UNIVERSITY (++WIN 95/98/2000/XP ++486/586)

1991 TÜBINGEN UNIVERSITY (PC-DOS 286/386)

1991 MS-DOS Fortran 77 Calibration Program Version

1991 Calibration Graphs on Table Plotter and Printer (HPGL).

1985 2D-Dispersion Single Date and Archaeological Group Calibration

1985 Dendro and Archaeological Wiggle Matching

1985 Graphic Output on CalComp Plotter (DINAO, HPGL).

1984 FRANKFURT UNIVERSITY (UNIVAC-1100) Unix-Fortran 77