

Reflexw 3.5.8 news history (from 01.01.2005 to):

10.01.2006: **3D-datainterpretation - 3D-cube** mode: under Windows98 a problem with the system resources could occur when using the 3D-cube mode - corrected (also in ver. 3.0).

17.12.2005: **3D-datainterpretation print within scroll** mode: a problem could occur when printing timeslices within the 3D-module. The option "envelope for timeslices only" has not been used for printing (timeslices have been printed not using the envelope) and if the plotoption depth axis activated within the 2D-dataanalysis. In this case a depth axis has also been printed on the right hand side which is used for defining the print length for "Y-scale output activated" - corrected.

11.12.2005: **dataimport RAMAC** data: a problem could occur during the import if the rad textfile (extension rad) did not contain the normal linefeed character after the last textline - corrected.

08.12.2005: **interactive choice** within 2D-dataanalysis - view **background bitmap**: if the size (real coordinates) of the background bitmap was greater than the coordinate grid of the interactive choice a problem with the scaling of the bitmap could occur - corrected (also in ver. 3.0).

05.12.2005: **picking a 3D-file** within 3D-datainterpretation using the scroll mode: the plot-scale always has been set to the default value when scrolling to a new cut - corrected.

16.11.2005: 2D-dataanalysis plot with **rotate90degree** and **manual scaling**: under some circumstances a scaling problem occurred with the plotoptions rotate90degree and manual scaling activated - corrected also for ver.3.0.

14.11.2005: **dataimport** parallel lines with multichannel data: it could occur that the profileconstant has not been updated correctly for importing parallel multichannel lines - corrected.

09.11.2005: **actualize traceheader** based on **IDS-GPS**: Now the tracenumbers are taken from the comment markers with the comment "gps". Normally the original IDS-file contains these comment markers and they are taken over into the Reflexw file during import.

04.11.2005: general **menu fonts**: it could happen that in the case of a large Windows font settings (more than 120 dpi) some buttons automatically used a larger font leading to overlappings - corrected now.

06.10.2005: **dataimport SEGY-data**: additional option IEEE if swap bytes is activated. The option controls if the 32 bit SEGY-data are IEEE compatible or not.

06.10.2005: **FD-modelling**: small extension for the source type exploding reflector

26.09.2005: **picking**: now the secondary picks are also displayed onto the 3. and 4. profile (option file/open 1.-4.line).

23.09.2005: **print 2D-dataanalysis**: if more than 2 profiles are printed at the same time (option open 1.-4.line) the filenames (option print filename within the print menu) for the 3. and 4. profile have been wrong - corrected now.

15.09.2005: **2D-dataanalysis** processing **correct 3D-topography**: now a linear interpolation for a 2D-profile and a quadratic interpolation for a 3D-profile is used in order to minimize steps for a very coarse topography grid.

01.09.2005: **dataimport RADAN-data**: the marker detection has been updated for 8 bit RADAN-data. Now the min. and max. marker values can also be entered for 8 bit RADAN-data. Enter for older SIR-systems like SIR-2, SIR-2000 a value of 220 for min.marker and 239 for max.marker and for newer Systems like SIR-20 and SIR-3000 a value of 90 for min.marker and 127 for max.marker.

30.08.2005: the **CMP(1D)-velocity analysis** has been activated even if you only own the 2D-dataanalysis module. This CMP-velocity analysis allows you to interactively generate a 1D-velocity model and to create a 2D-model from the individual 1D-velocity models.

05.08.2005: **2D-dataanalysis** processing **time-depthconversion**: with suboptions rasterfile mean or rasterfile layer

activated the number of y-datapoints of the velocity rasterfile must be \geq the number of samples of the original profile. If this does not hold true now an error message appears.

01.07.2005: **print**: no name has been defined for the print job - this could lead to problems with some plotters. Now a name (reflexw output) for the print job is given.

22.06.2005: **dataimport/export PulseEkko-data**: some changes within the newer PulseEkko formats have been considered, exported data now can also be used with the PulseEkko Ekko_view program.

14.06.2005: **2D-dataanalysis** processing **merge files** or **insert profile**: if 2 or more profile have been merged together resulting in one profile with gaps it could happen that the gap traces contained markers if the last trace of the original profile also contained a marker - corrected now.

10.06.2005: **3D-datainterpretation - distortion free**: with the option Rotate90Degree activated the axis have not been rescaled correctly for distortion free - corrected.

10.06.2005: 2D-dataanalysis **layershow - create report**: no comment markers have been reported for the very 1. trace - corrected.

09.06.2005: **2D-dataanalysis processing**: it could happen that the option all traces for some 1D-filters like meanfilter, bandpassfilter, dewow, ... has been misinterpreted if another special processing step has been applied before. In this case it could happen that the 1D-filter had no effect. The problem has been corrected now (also within version 3.0).

08.06.2005: **dataexport SEG2-format**: within the ver. 3.5. a problem could occur when exporting data to SEG2 - some programs could not read the data any more - corrected now.

09.05.2005: **edit several file headers - update traceheaders** now also available for RAMAC-GPS, WSKTRANS-GPS, CSV-GPS, IDS-GPS and PulseEkko-GPS

02.05.2005: **dataimport RAMAC-data**: it may happen that the Ramac rad headerfile does not contain a carriage return (CR) character at the end of each line. Then Reflexw could not read this file correctly resulting in a warning message "timeincrement ≤ 0 ". Now the program controls if a CR character is present or not and is therefore now also able to read such a rad-file which does not contain the CR character.

28.04.2005: **dataimport SEG2-data**: new option ignore blocksize. If activated the program ignores the datablocksize within the SEG2-traceheader and only uses two special bytes for discriminating the individual traces. If deactivated the datablocksize is also taken into account. The option has been included because sometimes the datablocksize is not correct and sometimes the two special check bytes are missing.

12.04.2005: **print pdf** files: now automatic center as well as left or right borders are supported.

05.04.2005: **actualize traceheader** based on **interpolation equal data**: new option - controls if identical coordinates for the x- and y- shot and receiver positions for subsequent traces are present and performs an interpolation for those traces.

18.03.2005: **dataexport bitmap** - the automatic interpolation when deactivating the option autosize leads to too many traces for the wigglemode - now automatic interpolation will not be used for the wiggle mode. In addition the automatic interpolation may also be manually deactivated for the pointmode.

14.03.2005: **dataimport** of multichannel GPR-data - the coordnumber which acts as the filename indicator of the different channels has not been reset to the original value when reentering the import menu - corrected.

04.03.2005: **modelling/raytracing**:

- **network** raytracing now available for electromagnetic modelling

- a **raster problem** could happen for a **predefined symbol** (e.g. a circle) at the 2 borders in x-direction resulting in false raster values directly below these corner points - corrected.

23.02.2005: **dataimport RAMAC** files - **marker**:

- markers with extension mkn have not been recognized any more - corrected.
- problems occurred if the mrk or mkr files contained double tracenumbers or tracenumbers = 0. Then the following markers have not been recognized any more - corrected.

22.02.2005: **traveltime analysis - load traveltimes** new ASCII filetype "Shot-Rec.Matrix" which has the following format:

1. line contains the x-positions of all m shots
2. line contains the z-positions of all m shots
- 3.-n.lines: 1.column: x-receiver position
 2. column: z-receiver position
 3.-m. Column: picked traveltimes

18.02.2005: **layershow report**: with the option "summary comment data" activated the calculation of the mean thicknesses is now simply based on the mean depths. In all other cases the mean thicknesses are calculated from the individual thicknesses at each location.

16.02.2005: **printing** within 2D-dataanalysis: option **use actual zoom** did not work correctly if the view option amplitudes is activated - corrected

16.02.2005: **printing 3D-component data**: now printing is supported with colored traces based on the actual polarization

04.02.2005: **2D-dataanalysis**: With Ver.Split and Hor.Split deactivated the option StatShowSecondline is automatically deactivated when loading a new dataset

04.02.2005: **dataimport** - ConversionMode **multichannel** - filenames had been restricted to 8 characters - now up to 32 characters are allowed

28.01.2005: **large cross cursor** and **core data** activated within 2D-dataanalysis: the core data have been vanished when the mouse has been moved - corrected.

26.01.2005: **velocity adaptation** with 2D-dataanalysis:
- new option for **VSP** (up or downhole measurements)
- now **rotate90degree** display supported
- layershow colors are used for intercepttime and VSP-adaptation

26.01.2005: **actualize traceheader** based on **ASCII-file** (extension dst): if the **distancies** within the ASCII-file are zero (2.colum) they will be calculated from the total difference between each shot and receiver (x,y and z-coordinate are taken into account)

18.01.2005: **dataexport RAMAC** - StartPostion is now exported into RAMAC file

18.01.2005: **dataimport RAMAC** - StartPostion within RAMAC data is now taken into account with activated option read coordinates

17.01.2005: 2D-dataanalysis - new option for an automatic loading of the **actual zoom settings** when loading a new profile using the option next or prev.

17.01.2005: dataimport - **seggy** format: option **read starttime** enabled - if activated the start time is taken from the SEG-Y-traceheader of the 1. trace.

17.01.2005: view **core files** - if no velocity has been defined within the corefile the actual velocity is used for calculating the two-way traveltimes. Until now this has been only done when loading the corefiles. Now the two-way traveltimes are recalculated when the actual voelocity within the plotoptions will be changed.

14.01.2005: **dataexport** - new option **manual outputfilename** which allows to manually enter the name of each exported file

14.01.2005: **traveltime analysis 2D**: with activated option **keep assigned picks** it was not possible to assign one

single pick - corrected

13.01.2005: **dataimport** with activated option **meandering** and **parallel lines**: new warning message if entered startcoordinate equals the endcoordinate in profiledirection - in this case the profiledirection for the 1. profile is not specified and it is not known if the 1. or 2. profile shall be flipped (therefore in this case no flipping will be done at all).

12.01.2005: **edit several FileHeaders**: new message box for the **marker relocation** showing all files for which no marker relocation could have been performed

11.01.2005: 2D-dataanalysis processing option **merge files** with suboption attach profiles: if the profiles to be merged overlap all overlapping traces had been kept resulting in a greater distance - now only the overlapping traces of the newly attached profile will be kept.

09.01.2005: 2D-dataanalysis - **wiggle window** was not correct for very large datasets (more than 65535 traces) - corrected

09.01.2005: max number of datafiles for **interactive choice** increased to 1000

07.01.2005: **dataimport** - when entering the **plotoptions** within the import menu some settings about the geometry had been lost - corrected

07.01.2005: **dataimport** - type single shot and conversion sequence equal combine lines - now the tabella for the traceheaders will be opened after the import