# *FGPS Limited*

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## FBComp Release Notes

Refer to the user manual for details of new features.

Date:    24/06/2022

Version: 5.10

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Compute | Handle water depth ambiguity. |

Date:    17/06/2022

Version: 5.09

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Data Format | Use fixed width font. |

Date:    19/11/2019

Version: 5.08

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Main window | Bugfix: Recent menu was mixing project file names with/without paths. |
| 2 | General | SPS file formats now saved in settings file after being selected from dialog. |

Date:    31/10/2019

Version: 5.07

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Application | Improved behaviour when starting from fresh install. |

Date:    17/10/2019

Version: 5.06

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Application | Now allows automatic upgrades.  The frequency of update checks can be set in the Tools / Options menu. |

Date:    02/04/2019

Version: 5.05

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Data files | Format description for User Defined 1 - changed transponder E/N to pinger/source E, N. |
| 2 | Data files | New option to use first break data as slope ranges. |

Date:    23/01/2016

Version: 5.04

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Data files | Added warning for no matching sources. |
| 2 | Compute | Bugfix: saved rejected observations read from project file were remaining rejected when recomputing. |

Date:    19/06/2015

Version: 5.03

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Data files | Now warns for different transponders on the same cable with the same offset. |
| 2 | | Bugfix: divide by 0 error in interpolation when different transponders with same offset. |

Date:    03/06/2015

Version: 5.02

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Time Series | Bugfix: was not displaying plots for lines with 10 digit line number. |
| 2 | Data files | Bugfix: was not finding all data when using FB picks under certain circumstances. |

Date:    31/05/2015

Version: 5.01

| No. | Module | Description |
|-----|--------|-------------|
| 1 | All | Bugfix: transponder line numbers were sometimes being misread from file. |
| 2 | Compute | Default maximum receiver interval increased to 500m. |

Date:    18/05/2015

Version: 5.00

| No. | Module | Description |
|-----|--------|-------------|
| 1 | IMPORTANT | This version implements a new licensing system.  It is recommended that you contact licence@fgps.com in order to request a new licence before installing it. |
| 2 | | If your current licence will expire soon it is recommended that you upgrade to this version immediately. |

Date:    10/04/2015

Version: 4.74

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Project files | Bugfix: Corrected launching of project specified in command line |

Date:    25/03/2015

Version: 4.73

| No. | Module | Description |
|-----|--------|-------------|
| 1 | IMPORTANT | FBComp is now a standalone application.  This means it should be separately installed, and it requires its own licence. |
| 2 | Bugfix | was not correctly handling situation with first or last transponder failed when interpolation model set to 2. |
| 3 | FBComp | Added number of iterations to time series plots. |
| 4 | FBComp | Added MDE to observation statistics. |

Date:    28/10/2014

Version: 4.72

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | overriding transponder line number was not correctly working. |
| 2 | FBComp | Default interpolation model changed to two transponders. |
| 3 | FBComp | New option to match data to sources using both time ad ID - this is now the default setting. |
| 4 | Bugfix | time series button was not enabled when it should be. |
| 5 | Bugfix | access violation when plotting multiple lines in time series. |
| 6 | FBComp | Some minor behaviourial improvements. |
| 7 | FBComp | General minor performance improvements. |

Date:    09/07/2014

Version: 4.71

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | Some observations were incorrectly assigned to transponder for certain datasets. |

Date:    12/06/2014

Version: 4.70

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | Was sometimes incorrectly reading receiver and transponder offsets. |

Date:    13/02/2014

Version: 4.69

| No. | Module | Description |
|-----|--------|-------------|
| 1 | FBComp | Improved speed of loading data from project. |

Date:    11/02/2014

Version: 4.68

| No. | Module | Description |
|-----|--------|-------------|
| 1 | FBComp | Fixed interpolation problems when bad adjacent transponders. |
| 2 | FBComp | For interpolation model > 2 dead transponders reduces model size. |
| 3 | FBComp | Clicking on transponder in plot now displays transponder info in main form. |

Date:   07/02/2014

Version: 4.67

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | misreporting of non-unique receiver and transponder offsets. |
| 2 | FBComp | Now lists non-unique receiver and transponder offsets. |
| 3 | Output | report now states interpolation type. |
| 4 | Bugfix | output report was mis-reporting interpolation model size. |
| 5 | FBComp | Now lists transponders with no data (only when using SeisPos generated acoustic file). |
| 6 | FBComp | Now saves observation statistics. |
| 7 | FBComp | Now generates warning log after reading files. |
| 8 | Bugfix | data format string was blank on starting new project with SeisPos format string specified. |

Date:    15/01/2014

Version: 4.66

| No. | Module | Description |
|---|---|---|
| 1 | FBComp | New parameter for maximum receiver interpolation distance. |
| 2 | Bugfix | Minor bugfixes on receiver interpolation. |
| 3 | FBComp | Added checks for duplicate times and shot IDs. |
| 4 | FBComp | New option to match sources on time (default) or ID. This is needed because multiple datasets could result in duplicates. |
| 5 | Bugfix | setting a transponder status to Not Solved was still including that transponder in the receiver interpolation. |

Date:    09/01/2014

Version: 4.65

| No. | Module | Description |
|---|---|---|
| 1 | Bugfix | interpolation was failing with very curved cable. |
| 2 | Bugfix | output format when outputting transducer file was being ignored. |

Date:    28/12/2013

Version: 4.64

| No. | Module | Description |
|-----|--------|-------------|
| 1 | FBComp | New option to set method of source point matching by time or by SP. |

Date:    27/12/2013

Version: 4.63

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | was attempting to extrapolate receivers beyond the specified extrapolation range. |

Date:    21/11/2013

Version: 4.62

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | was not reading FB pick files. |

Date:    19/11/2013

Version: 4.61

| No. | Module | Description |
|-----|--------|-------------|
| 1 | FBComp | Some cosmetic changes. |

Date:    18/11/2013

Version: 4.60

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Output | Added option to output transponders only. |

Date:    12/11/2013

Version: 4.59

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | Was not handling different data formats for different data files. |
| 2 | Bugfix | Was trying to use USBL Z observations when transponder depth computation was disabled. |
| 3 | Bugfix | Was outputting unsolved, uninterpolated receivers with zero coordinates. |

Date:    18/10/2013

Version: 4.58

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | was not correctly reading data when delimited format records started with blank spaces. |
| 2 | Bugfix | memory error when stepping through computation. |

Date:    14/10/2013

Version: 4.57

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | Was incorrectly reading data format string with leading blank space. |
| 2 | FBComp | Revised transponder interpolation - now uses only 3 receivers. |

Date:    25/09/2013

Version: 4.56

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Bugfix | Various bugs processing USBL XYZ data. |
| 2 | Enhancement | Observation list now includes source coordinates when included in data file. |

Date:    12/09/2013

Version: 4.55

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Enhancement | Improved SPS format recognition. |
| 2 | Bugfix | Was including sources not used. |

Date:    08/09/2013

Version: 4.54

| No. | Module | Description |
|-----|--------|-------------|
| 1 | FBComp | Change: Increased number of decimal places for storing some parameters. |
| 2 | FBComp | Bugfix: Floating point error during interpolation. |
| 3 | FBComp | Bugfix: Transponder depth computed flag was not being saved. |
| 4 | FBComp | Bugfix: Ranges were being assigned to incorrect transponders. |
| 5 | Output | Bugfix: Bad depths were being output as -999999.9. |

Date:    05/09/2013

Version: 4.53

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Input | Bugfix: Access violation when reading FB data. |
| 2 | Plot | Bugfix: Source information on plot was not being displayed. |

Date:    26/08/2013

Version: 4.52

| No. | Module | Description |
|-----|--------|-------------|
| 1 | GUI | Enhancement: GUI now uses Windows themes |
| 2 | FBComp | Enhancement: Computation is now transponder based not receiver based. |
| 3 | Output | Change: Output files are now based on line number not input file. |
| 4 | Output | Change: Point index for output now user speciffied. |
| 5 | Output | Change: SPS format revision for output now user specified. |
| 6 | Output | Change: header for all output files now taken from first input file. |
| 7 | Output | Change: Point index for output receiver file must now be specified. |
| 8 | FBComp | Change: Maximum receiver extrapolation now specified as a distance. |
| 9 | FBComp | Enhancement: Data format now automatically set for new data files if one exists. |

Date:    06/02/2013

Version: 4.51

| No. | Module | Description |
|-----|--------|-------------|
| 1 | FBComp | Bugfix: was not updating change in observation rejection type. |
| 2 | FBComp | Bugfix: when clicking on computed receiver plot was showing source points that were not used. |
| 3 | FBComp | Receiver depth computation more stable. |
| 4 | FBComp | When mouse down on plot info now displays reduced observation (with TaT and scale applied) instead of raw. |
| 5 | FBComp | Bugfix: suppressed unnecessary re-reading of receiver files when computation is started. |

Date:    16/01/2013

Version: 4.50

| No. | Module | Description |
|-----|--------|-------------|
| 1 | Input | Now supports pinger coordinates in data records in place of source files. |
| 2 | FBComp | Interpolation now supported for receivers computed from non-seispos data. |
| 3 | FBComp | Project files now stored in plain text format (old binary files will be silently converted). |